

Useful Tables from the American Practical Navigator

ORIGINALLY BY
NATHANIEL BOWDITCH, LL. D., Etc.

RE-EDITED AND PUBLISHED IN THE
UNITED STATES HYDROGRAPHIC OFFICE
BY DIRECTION OF THE SECRETARY OF THE NAVY,
IN ACCORDANCE WITH THE ACTS OF CONGRESS



WASHINGTON
GOVERNMENT PRINTING OFFICE
1916

VK 563

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1916, 1930, 1931, 1934, and 1936 editions of BOWDITCH

(Tables in back of book)

Page	Table No.	Title	
531	2	Traverse table, degrees	
	-	Conversion of departure into difference of longitude (not in these editions - refer to 1938 edition, Table 4, page 108)	
621	3	Meridional parts	
634	5B	Distance of an object by two bear- ings, degrees	
	-	Time, speed, and distance tables (not in these editions - refer to 1938 edition, Table 13, page 140)	
755	42	Logarithms of numbers	ıaniel
772	44	Logarithms of trigonometric functions, degrees	ureau olaris; been
817	45	Logarithmic and natural haversines	l, the pages both



PREFACE

The following tables comprise Part II of the American Practical Navigator, by the late Nathaniel Bowditch, LL. D., as revised in 1880 and in 1903, and again in 1914, under the direction of the Bureau of Navigation, Navy Department.

In the present edition, as in that of 1914, former tables 28A, 28B, 28C, and 28D, Latitude by Polaris; 37, Logarithms for Equal Altitude Sights; 37A, Equation of Equal Altitudes near Noon, have been omitted; but the former assignment of table numbers and page numbers has not been disturbed, the pages on which these tables were printed being simply dropped from the book and the tables and pages not renumbered consecutively. This accounts for the absence of pages 717 to 724 and 734 to 738, both inclusive; while page 531 is left blank in order to let Table 2 beein on a left-hand page.

HYDROGRAPHIC OFFICE.

Washington, D. C., April, 1916.

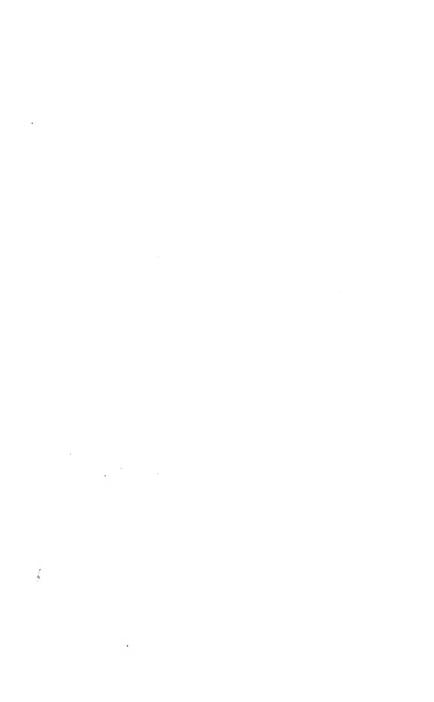
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503



CONTENTS OF PART II.

	on of the Tables	507
ble 1.	Traverse Table, Quarter Points	515
2.	Traverse Table, Degrees.	53I
3.	Meridional Parts	-621
4.	Length of Degrees of Latitude and Longitude.	-629
5.1.	Distance of an Object by Two Bearings, Quarter Points	631
5R	Distance of an Object by Two Bearings, Degrees	634
6.	Distance of Visibility of Objects of different Heights.	640
7.	Conversion of Arc and Time.	6.01
8.	Conversion of Sidereal into Mean Solar Time.	642
9.	Conversion of Mean Solar into Sidereal Time.	645
10.	Local mean time of Sun's visible Rising and Setting.	648
	Reduction of Moon's Meridian Passage for Longitude.	672
11.	Reduction of Quantities from Nautical Almanac.	673
12.		683
13.	Change of Sun's Right Ascension.	
14.	Dip of Sea Horizon.	685
15.	Dip at Distances short of Horizon	685
16.	Parallax of Sun.	685
17.	Parallax of Planet	686
18.	Angmentation of Moon's Semidiameter	687
19.	Augmentation of Moon's Horizontal Parallax	687
20A.	Mean Refraction.	688
20B.	Mean Refraction and Parallax of Sun.	689
21.	Correction of Refraction for Barometer	690
22	Correction of Refraction for Thermometer.	691
23.	Mean Refraction and Mean Parallax of Moon.	693
24.	Mean Refraction and Parallax of Moon	693
25.	Variation of Altitude due to change of Declination	702
26.	Variation of Altitude in one minute from Meridian	704
27.	Variation of Altitude in given time from Meridian.	714
28A.	1	
28B.		
28C.	Omitted.	
28D.		
	Nautical and Statute Miles.	725
29.	Conversion of Metric and English Linear Measure.	726
30.	Conversion of Metric and English Linear Measure	727
31.	Fahrenheit, Centigrade, and Réaumur Temperatures	729
32.	True Force and Direction of Wind	729
33.	Distance by Vertical Angle	
34.	Distance by Horizon Angle.	731 732
35.	Speed Table for Measured Mile	
36.	Local Mean and Standard Meridian Times	733
37.	Omitted.	
37A.		
38.	Error in Longitude produced by Error in Latitude	739
39.	Amplitudes	740
40.	Amplitudes. Correction for Amplitude observed in Apparent Horizon.	745
41.	Natural Sines and Cosines.	746
42.	Logarithms of Numbers.	755
43.	Logarithms of Trigonometric Functions, Quarter Points	771
44.	Logarithms of Trigonometric Functions, Degrees	772
45.	Logarithmic and Natural Haversines.	817
46.	Consolidated table of Altitude Corrections.	922
47.	The Longitude Factor	933
48	The Latitude Factor	94I



EXPLANATION OF THE TABLES.

TABLES 1. 2: TRAVERSE TABLES.

Tables 1 and 2 were originally calculated by the natural sines taken from the fourth edition of Sherwin's Logarithms, which were previously examined, by differences; when the proof sheets of the first edition were examined the numbers were again calculated by the natural sines in the second edition of Hutton's Logarithms; and if any difference was found, the numbers were calculated a third time by Taylor's Logarithms.

The first table contains the difference of latitude and departure corresponding to distances not exceeding 300 miles, and for courses to every quarter point of the compass. Table 2 is of the same nature, but for courses consisting of whole degrees; it was originally of the same extent as Table 1, but has been extended to include distances up to 600 miles. The manner of using these tables is particularly explained under the different problems of Plane, Middle Latitude, and Mercator Sailing in Chapter V.

The tables may be employed in the solution of any right triangle.

TABLE 3: MERIDIONAL PARTS.

This table contains the meridional parts, or increased latitudes, for every degree and minute to 80°, calculated by the following formula:

$$m = \frac{a}{M} \log \tan \left(45^{\circ} + \frac{L}{2} \right) - a \left(\epsilon^{2} \sin L + \frac{1}{3} \epsilon^{4} \sin^{5} L + \frac{1}{5} \epsilon^{6} \sin^{5} L + \dots \right),$$

in which

the Equatorial radius
$$a=\frac{10800'}{\pi}=3437'.74677$$
 (log 3.5362739);

$$\frac{1}{\mathbf{M}} = 2.3025851 \ (\log 0.3622157);$$

C, the compression or meridional eccentricity of the earth according to Clarke (1880) =
$$\frac{1}{293,465}$$
 = 0.003407562 (log 7.5324437); $\epsilon = \sqrt{2c - c^2} = 0.0824846$ (log 8.9163666);

from which

$$\frac{a}{M} = 7915',7044558 \text{ (log } 3.8984895);$$

 $a\epsilon^2 = 23',38871 \text{ (log } 1.3690072);$
 $\frac{1}{2}a\epsilon^4 = 0',053042 \text{ (log } 8.7246192);$

0'.000216523 (log 6.3355038).

The results are tabulated to one decimal place, which is sufficient for the ordinary problems of navigation.

The practical application of this table is illustrated in Chapters II and V, in articles treating of the Mercator Chart and Mercator Sailing.

TABLE 4: LENGTH OF DEGREES OF LATITUDE AND LONGITUDE.

This table gives the length of a degree in both latitude and longitude at each parallel of latitude on the earth's surface, in nautical and statute miles and in meters, based upon Clarke's value (1866) of the earth's compression, 299,15 In the case of latitude, the length relates to an arc of which the given degree is the center.

TABLES 5A, 5E: DISTANCE BY TWO BEARINGS.

These tables have been calculated to facilitate the operation of finding the distance from an object by two bearings from a given distance run and course. In Table 5A the arguments are given in points, in Table 5B in degrees; the first column contains the multiplier of the distance run to give the distance of observed object at second bearing; the second, at time of passing abeam.

The method is explained in article 143. Chapter IV.

TABLE 6: DISTANCE OF VISIBILITY OF OBJECTS.

This table contains the distances, in nautical and statute miles, at which any object is visible at sea. It is calculated by the formula:

$$d = 1.15 \sqrt{x}$$
, and $d' = 1.32 \sqrt{x}$.

in which d is the distance in nautical miles, d' the distance in statute miles, and x the height of the eye or the object in feet.

To find the distance of visibility of an object, the distance given by the table corresponding to its height should be added to that corresponding to the height of the observer's eye.

Example: Required the distance of visibility of an object 420 feet high, the observer being at an elevation of 15 feet.

Dist, corresponding to 420 feet, 23.5 naut, miles. Dist, corresponding to 45 feet, 4.4 naut, miles.

Dist. of visibility, 27.9 naut. miles.

TABLE 7: CONVERSION OF ARC AND TIME.

In the first column of each pair in this table are contained angular measures expressed in are (degrees, minutes, or seconds), and in the second column the corresponding angles expressed in time (bours, minutes, or seconds). As will be seen from the headings of columns, the time corresponding to degrees (*) is given in hours and minutes; to minutes of are (*), in minutes and seconds of time; and to seconds of are (*), in seconds and sixteths of a second of time.

The table will be especially convenient in dealing with longitude and hour angle. The method of its employment is best illustrated by examples.

Example I.

Example II.

Required the time corresponding to 50° 31′ 21″.

Required the arc corresponding to 6^h 33^m 26^s.5.

TABLES 8 AND 9: SIDEREAL AND MEAN SOLAR TIMES.

These tables give, respectively, the reductions necessary to convert intervals of sidereal time into those of mean solar time, and intervals of mean solar into those of sidereal time. The reduction for any interval is tound by entering with the number of hours at the top and the number of minutes at the side, adding the reduction for seconds as given in the margin.

The relations between mean solar and sidereal time intervals, and the methods of conversion of these times, are given in articles 289-291. Chapter IX.

TABLE 10: SUN'S RISING AND SETTING.

This table gives the local mean time of the sun's visible rising and setting—that is, of the appearance adisappearance of the sun's upper limb in the unobstructed horizon of a person whose eye is 15 feet above the level of the earth's surface, the atmospheric conditions being normal.

The local apparent times of rising and setting were determined from the formula for a time sight, the altitude employed being -0° 56'08", made up of the following terms: Refraction, -36'29"; semi-diameter, -46'00"; dip, -3'48"; and parallax.

To ascertain the time of rising or setting for any given date and place, enter the table with the latitude and declination, interpolating if the degrees are not even. In the line R will be found the time of rising; in the line S, the time of setting. He careful to choose the page in which the latitude is of the correct name, and in which the "approximate date" corresponds, nearly or exactly, with the given date.

This table is computed with the intention that, if accuracy is desired, it will be entered with the declination as an argument—not the date—as it is impossible to construct any table based upon dates whose application shall be general to all years. But as a given degree of declination will, in the majority of years, fall upon the date given in the table as the "approximate date," and as, when it does not do so, it can never be more than one day removed therefrom, it will answer, where a slight inaccuracy may be admitted, to enter the table with the date as an argument, thus avoiding the necessity of ascertaining the declination.

Example: Find the local mean time of sunset at Rio de Janeiro, Brazil (lat. 22° 54′ S., long. 43° 10′ W.), on January I, 1903 (dec. 23° 04′ S.).

Exact method.

.1pproximate method.

Lat. 22°) Dec. 23°) Corr. for + 54' lat. + 02 Corr. for + 04' dec. 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
L. M. T. sunset 6 50	t. M. T. sunset 6 49

TABLE 11: REDUCTION FOR MOON'S TRANSIT.

This table was calculated by proportioning the daily variation of the time of the moon's passing the meridian.

The numbers taken from the table are to be added to the Greenwich time of moon's transit in west longitude, but subtracted in east longitude.

TABLE 12: REDUCTIONS FOR NAUTICAL ALMANAC.

This is a table of proportional parts for maling the variation of the sun's right ascension or declination, or of the equation of time, in any number of minutes of time, the horary motion being given at the top of the page in seconds, and the number of minutes of time in the side column; also for finding the variation of the moon's declination or right ascension in any number of seconds of time, the motion in one minute being given at the top, and the numbers in the side column being taken for seconds.

TABLE 13: CHANGE OF SUN'S RIGHT ASCENSION.

This is a table that may be employed for finding the change of the sun's right ascension for any given number of hours, the hourly change, as taken from the Nautical Almanae, being given in the marginal columns.

TABLE 14: DIP OF SEA HORIZON.

This table contains the dip of the sea horizon, calculated by the formula:

$$D = 58''.8 \sqrt{F}$$

in which F = height of the eye above the level of the sea in feet.

It is explained in article 300, Chapter X.

TABLE 15: DIP SHORT OF HORIZON.

This table contains the dip for various distances and heights, calculated by the formula:

$$D = \frac{3}{7} d + 0.56514 \times \frac{h}{d},$$

in which D represents the dip in miles or minutes, d, the distance of the land in sea miles, and h, the height of the eye of the observer in feet.

TABLE 16: PARALLAX OF SUN.

This table contains the sun's parallax in altitude calculated by the formula:

par. =
$$\sin z \times 8''.75$$
,

in which z = apparent zenith distance, the sun's horizontal parallax being 8".75.

It is explained in article 304. Chapter X.

TABLE 17: PARALLAX OF PLANET.

Parallax in altitude of a planet is found by entering at the top with the planet's horizontal parallax, and at the side with the altitude.

TABLE 18: AUGMENTATION OF MOON'S SEMIDIAMETER.

This table gives the augmentation of the moon's semidiameter calculated by the formula:

$$x = c s^2 \sin h + \frac{1}{2} c^2 s^3 \sin^2 h + \frac{1}{2} c^2 s^3$$

where h = moon's apparent altitude;

s = moon's horizontal semidiameter;

x = augmentation of semidiameter for altitude h; and $\log c = 5.25021$.

TABLE 19: AUGMENTATION OF MOON'S HORIZONTAL PARALLAX.

This table contains the augmentation of the moon's horizontal parallax, or the correction to reduce the moon's equatorial horizontal parallax to that point of the carth's axis which lies in the vertical of the observer in any given latitude; it is computed by the formulae.

$$\Delta \pi = \pi \cdot (b-1), \qquad b = \frac{1}{\sqrt{(1-\epsilon^2 \sin^2 \mathbf{L})}},$$

where $\pi = \text{equatorial horizontal parallax}$;

L = latitude;

 $\epsilon = \text{eccentricity of the meridian; log } \epsilon^2 = 7.81602; \text{ and }$

 $\triangle \pi$ = augmentation of the horizontal parallax for the latitude I

TABLE 20A: MEAN REFRACTION.

This table gives the refraction, reduced from Bessel's tables, for a mean atmospheric condition in which the baronucter is 30.00 inches, and thermometer 50° Fahr.

TABLE 20B: MEAN REFRACTION AND PARALLAX OF SUN.

This table contains the correction to be applied to the snn's apparent altitude for mean refraction and parallax, being a combination of the quantities for the altitudes given in Tables 16 and 20A.

TABLES 21, 22: CORRECTIONS OF REFRACTION FOR BAROMETER AND THERMOMETER.

These are deduced from Bessel's tables. The method of their employment will be evident.

TABLE 23: MEAN REFRACTION AND MEAN PARALLAX OF MOON.

This table contains the correction of the moon's altitude for refraction and parallax corresponding to the mean refraction (Table 20A), and a horizontal parallax of the mean value of 57′ 30″.

TABLE 24: MEAN REFRACTION AND PARALLAX OF MOON.

This table contains the correction to be applied to the moon's apparent altitude for each minute of horizontal parallax, and for every 10' of altitude from 5°, with height of barometer 30,00 inches, and thermometer 50° Fahr.

For seconds of parallax, enter the table abreast the approximate correction and find the seconds of horizontal parallax, the tens of seconds at the side and the units at the top. Under the latter and opposite the former will be the seconds to add to the correction.

For minutes of altitude, take the seconds from the extreme right of the page, and apply them as there directed.

TABLE 25: CHANGE OF ALTITUDE DUE TO CHANGE OF DECLINATION.

This table gives the variation of the altitude of any heavenly body arising from a change of 100% in the declination. It is useful for finding the equation of equal altitudes by the approximate method explained in article 324, Chapter XI, and for other purposes.

If the change move the body toward the elevated pole, apply the correction to the altitude with the signs in the table; otherwise change the signs.

TABLE 26: CHANGE OF ALTITUDE IN ONE MINUTE FROM MERIDIAN.

This table gives the variation of the altitude of any heavenly body, for one minute of time from meridian passage, for latitudes up to 60°, declinations to 63°, and altitudes between 6° and 86°. It is based upon the method set forth in article 334, Chapter XII, and the values may be computed by the formula:

$$a = \frac{I''.9635 \cos L \cos d}{\sin (L - d)}$$

where a = variation of altitude in one minute from meridian,

L = latitude, and

d = declination—positive for same name and negative for opposite name to latitude at upper transit, and negative for same name at lower transit.

The limits of the table take in all values of latitude, declination, and altitude which are likely to be required. In its employment, care must be taken to enter the table at a place where the declination is appropriately named (of the same or opposite name to the latitude); it should also be noted that at the bottom of the last three pages values are given for the variation of a body at lower transit, which can only be observed when the declination and latitude are of the same name, and in which case the reduction to the meridian is subtractive; the limitations in this case are stated at the foot of the page, and apply to all values below the heavy rules.

TABLE 27: CHANGE OF ALTITUDE IN GIVEN TIME FROM MERIDIAN.

This table gives the product of the variation in altitude in one minute of a heavenly body near the meridian, by the square of the number of minutes. Values are given for every half minute between 0° 30° and 26° 0°, and for all variations likely to be employed in the method of "reduction to the meridian."

The formula for computing is:

Red. = $a + \ell'$, where a = variation in one minute (Table 26), and ℓ , number of minutes (in units and tenths) from time of meridian passage.

The table is entered in the column of the nearest interval of time from meridian, and the value taken out corrresponding to the value of a found from Table 26. The units and tenths are picked out separately and combined, each being corrected by interpolation for intermediate intervals of time.

The result is the amount to be applied to the observed altitude to reduce it to the meridian altitude, which is always to be added for upper transits and subtracted for lower.

TABLE 28, A, B, C, D: LATITUDE BY POLARIS.

[OMITTED.]

TABLES 29, 30, 31: CONVERSION TABLES.

These are self-explanatory.

TABLE 32: TRUE FORCE AND DIRECTION OF WIND.

This table enables an observer on board of a moving vessel to determine the true force and direction of the wind from its apparent force and direction. Enter the table with the apparent direction of the wind (number of points on the bow) and force (Beaufort scale) as arguments, and pick out the direction.

Example: A vessel steaming SE, at a speed of 15 knots appears to have a wind blowing from three points on the starboard bow with a force of 6, Beaufort scale. What is the direction and force?

In the column beaded 3 (meaning three points on bow, apparent direction) and in the line 6

(apparent force, Beaufort scale), we find abreast 15 (knots, speed of vessel) that the true direction is 5 points on starboard bow, i. e., S. by W., and true force 4.

TABLE 33: VERTICAL ANGLES.

This table gives the distance of an object of known height by the vertical angle that it subtends at the position of the observer. It was computed by the formula:

 $\tan \alpha = \frac{h}{d}$

where α = the vertical angle;

h = the height of the observed object in feet; and

d = the distance of the object, also converted into feet.

The employment of this method of finding distance is explained in article 139, chapter IV.

TABLE 34: HORIZON ANGLES.

This shows the distance in yards corresponding to any observed angle between an object and the sea horizon beyond, the observer being at a known height.

The method of use is explained in article 139, chapter IV.

TABLE 35: SPEED TABLE.

This table shows the rate of speed, in nautical miles per hour, of a vessel which traverses a measured mile in any given number of minutes and seconds. It is entered with the number of minutes at the top and the number of seconds at the side; under one and abreast the other is the number of knots of speed.

TABLE 36: LOCAL AND STANDARD TIMES.

This table contains the reduction to be applied to the local time to obtain the corresponding time at any other meridian whose time is adopted as a standard. The results are given to the nearest minute of time only; being intended for the reduction of such approximate quantities as the time of high water or time of sunset. More exact reductions, when required, may be made by Table 7.

TABLE 37: LOGARITHMS FOR EQUAL ALTITUDE SIGHTS.

OMITTED 1

TABLE 37A: EQUATION OF EQUAL ALTITUDES NEAR NOON.

[OMITTED.]

TABLE 38: EFFECT UPON LONGITUDE OF ERROR IN LATITUDE

 Table 38 shows, approximately, the error in longitude in miles and tenths of a mile, occasioned by an error of one mile in the latitude.

Thus, when the sun's altitude is 30°, the latitude 30°, and the polar distance 100°, the error is eight-tenths of a mile.

The effect of an increase of latitude is as follows:

```
\begin{array}{ll} \text{In $West$ longitude, + East $\backslash$ of meridian, the $\{decreased \}$ except where marked $\{increased \}$ the body being $\backslash$ West $\rangle$ longitude is $\{decreased \}$ by $*$, when it is $\{decreased \}$.} \end{array}
```

A decrease of latitude has the contrary effect.

The direction of error may readily be seen by drawing the Sumner line in a direction at right angles to the approximate bearing of the body.

TABLE 39: AMPLITUDES.

This table contains amplitudes of heavenly bodies, at rising and setting, for various latitudes and declinations, computed by the formula:

sin amp. = sec Lat. × sin dec.

It is entered with the declination at the top and the latitude at the side. Its use is explained in article 358, Chapter XIV.

TABLE 40: CORRECTION FOR AMPLITUDES.

This table gives a correction to be applied to the observed amplitude to counteract the vertical displacement due to refraction, parallax, and dip, when the body is observed with its center in the visible horizon.

The correction is to be applied for the sun, a planet, or a star, as follows:

For the moon, apply half the correction in the contrary manner.

TABLE 41: NATURAL SINES AND COSINES.

This table contains the natural sine and cosine for every minute of the quadrant, and is to be entered at the top or bottom with the degrees, and at the side marked M., with the minutes; the corresponding numbers will be the natural sine and cosine, respectively, observing that if the degrees are found at the top, the name sine, cosine, and M. must also be found at the top, and the contrary if the degrees are found at the bottom. It should be understood that all numbers given in the table should be divided by 100,000—that is, pointed off to contain five decimal places. Thus, 43366 is the natural sine of 25° 42′, or the cosine of 64° 18′.

In the outer columns of the margin are given tables of proportional parts, for the purpose of finding, approximately, by inspection, the proportional part corresponding to any number of seconds in the proposed angle, the seconds being found in the marginal column marked M., and the correction in the adjoining column. Thus, if we suppose that it were required to find the natural sine corresponding to 25° 42′ and 25° 43′ is 29°, their given as as at the top of the left-hand column of the table; and in this column, and opposite 19 in the column M., is the correction 8. Adding this to the above number .43366, because the numbers are increasing, we get .43374 for the sine of 25° 42′ 19°. In like manner, we find the co-ine of the same angle be .90108—44=90104, using the right-hand columns, and subtracting because the numbers are decreasing; observing, however, that the number 14 at the top of this column varies 1 from the difference between the cosines of 25° 42′ and 25° 43′, which is only 13; so that the table may give in some cases a unit too much between the angles 25° 42′ and 25° 43′; but this is, in general, of but little importance, and when accuracy is required, the usual method of proportional parts is to be resorted to, using the actual tabular difference.

TABLE 42: LOGARITHMS OF NUMBERS.

This table, containing the common logarithms of numbers, was compared with Sherwin's, Hutton's, and Taylor's logarithms; its use is explained in an article on Logarithms in Appendix III.

TABLE 43: LOGARITHMS OF TRIGONOMETRIC FUNCTIONS, QUARTER POINTS.

This table contains the logarithms of the sines, tangents, etc., corresponding to points and quarter points of the compass. This was compared with Sherwin's, Hutton's, and Taylor's logarithms.

215942--14---26

TABLE 44: LOGARITHMS OF TRIGONOMETRIC FUNCTIONS, DEGREES.

This table contains the common logarithms of the sines, tangents, secants, etc. It was compared with Sherwin's, Hutton's, and Taylor's tables. Two additional columns are given in this table, which are very convenient in 4 fidning the time from an altitude of the sun; also, three columns of proportional parts for seconds of space, and a small table at the bottom of each page for finding the proportional parts for seconds of time. The degrees are marked to 180°, which saves the trouble of subtracting the given angle from 180° when it exceeds 90°.

The use of this table is fully explained in Appendix III in an article on Logarithms.

TABLE 45: LOGARITHMIC AND NATURAL HAVERSINES.

The haversine is defined by the following relation:

hav.
$$\Lambda = \frac{1}{2}$$
 vers. $\Lambda = \frac{1}{2}(1 - \cos \Lambda) = \sin^2 \frac{1}{2}\Lambda$.

It is a trigonometric function which simplifies the solution of many problems in nautical astronomy as well as in plane trigonometry. To afford the maximum facility in carrying out the processes of solution, the values of the natural haversine and its logarithm are set down together in a single table for all values of angle ranging from 0° to 360°, expressed both in are and in time.

TABLE 46: CORRECTIONS TO BE APPLIED IN ORDER TO FIND THE TRUE ALTITUDE OF A STAR AND ALSO OF THE SUN FROM THE OBSERVED ALTITUDE ABOVE THE HORIZON.

This is a consolidated table in which the tabulated correction for an observed altitude of a star combines the mean refraction and the dip, and that for an observed altitude of the sun's lower limb combines the mean refraction, the dip, the parallax, and the mean semidiameter, which is taken as 16′. A supplementary table at the foot of the main table takes account of the variation of the sun's semidiameter in the different months of the year.

TABLE 47: THE LONGITUDE FACTOR.

The change in longitude due to a change of 1' in latitude, called the longitude factor, F, is given in this table at suitable intervals of latitude and azimuth. The quantities tabulated are computed from the formula---

When a time sight is solved with a dead-reckoning latitude, the resulting longitude is only true if the latitude be correct. This table, by setting forth the number of minutes of longitude due to each minute of error in bitude, gives the means of finding the correction to the longitude for any error that may subsequently be disclosed in the latitude used in the calculation.

Regarding the azimuth of the observed celestial body as less than 90° and as measured from either the North or the South point of the horizon towards East or West, the rule for determining whether the correction in longitude is to be applied to the eastward or to the westward will be as follows: If the change in latitude is of the same name as the first letter of the bearing, the change in longitude is of the contrary name to that of the second letter, and vice versa.

contrary name to that of the second letter, and vice versa.

Thus, if the body bears S. 45° E. and the change in latitude is to the southward, the change in longitude will be to the westward; and, if the change in latitude is to the northward, the change in longitude will be to the eastward.

The convenient application of the longitude factor in finding the intersection of Sumner lines is explained in article 389.

TABLE 48: THE LATITUDE FACTOR.

The change in latitude due to a change of 1^{ℓ} in the longitude, called the latitude factor, t, is given in this table at suitable intervals of latitude and azimuth. The quantities tabulated, being the reciprocals of the values of the longitude factor, are computed from the formula—

$$\hat{f} = \frac{1}{\hat{F}} = \frac{1}{\sec^2 - \cot^2 - \cot^2 Az} = \cos$$
. Lat. ×tan. Az.

When an ex-meridian sight is solved with a longitude afterwards found to be in error, this table, by setting forth the number of minutes of latitude due to each 1% of error in longitude, gives the means of finding the correction in the latitude lor the amount of error in the longitude used in the calculation.

Regarding the azimuth of the observed celestial body as less than 90° and as measured from either the North or the South point of the horizon towards East or West, the rule for determining whether the correction in latitude is to be applied to the northward or to the southward is as follows: If the change in longitude is of the same name as the second letter of the bearing, the change in latitude is of the contrary name to the first letter, and vice versat. Thus, if the body bears S. 14° E. and the change in longitude is to the westward, the change in latitude will be to the southward, and, if the change in longitude is to the eatward, the change in latitude will be to the northward.

The convenient application of the latitude factor in finding the intersection of Sumner lines is explained in article 390.

TABLI	8.1.
12111111	, ,,

[Page 515

Difference of Latitude and Departure for ‡ Point, N. ‡ W. S. ‡ E

Dist. 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 25 26 10 10 10 10 10 10 10 1	1. 0 2. 0 3. 0 4. 0 5. 0 7. 0 8. 0 9. 0 10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0.0 0.1 0.1 0.2 0.2 0.3 0.3 0.4 0.4 0.5 0.6 0.6 0.7 0.7 0.8 0.9	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	60. 9 61. 9 62. 9 63. 9 64. 9 65. 9 66. 9 67. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3.0 3.0 3.1 3.1 3.2 3.2 3.3 3.3 3.4 3.4 3.5 3.5 3.6	121 222 23 244 25 26 27 28 29 30 131 32	Lat. 120, 9 121, 9 122, 9 123, 9 124, 8 125, 8 126, 8 127, 8 128, 8 129, 8 130, 8	5, 9 6, 0 6, 0 6, 1 6, 1 6, 2 6, 2 6, 3 6, 3 6, 4	181 82 83 84 85 86 87 88	180. 8 181. 8 182. 8 183. 8 184. 8 185. 8 186. 8 187. 8 188. 8	8, 9 8, 9 9, 0 9, 0 9, 1 9, 1 9, 2 9, 2 9, 3	241 42 43 44 45 46 47 48 49	240, 7 241, 7 242, 7 243, 7 243, 7 244, 7 245, 7 246, 7 247, 7 248, 7	11. 8 11. 9 11. 9 12. 0 12. 0 12. 1 12. 1 12. 2 12. 2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0 21. 0	0.1 0.2 0.2 0.3 0.3 0.4 0.5 0.6 0.6 0.7 0.7 0.8 0.9	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	61. 9 62. 9 63. 9 64. 9 65. 9 66. 9 67. 9 68. 9 70. 9 71. 9 72. 9 73. 9	3.0 3.1 3.2 3.2 3.3 3.4 3.4 3.5 3.5	22 23 24 25 26 27 28 29 30 131	121. 9 122. 9 123. 9 124. 8 125. 8 126. 8 127. 8 128. 8 129. 8 130. 8	6. 0 6. 0 6. 1 6. 1 6. 2 6. 2 6. 3 6. 3	82 83 84 85 86 87 88 89	181. 8 182. 8 183. 8 184. 8 185. 8 186. 8 187. 8 188. 8	8.9 9.0 9.1 9.1 9.2 9.3	42 43 44 45 46 47 48 49	241. 7 242. 7 243. 7 244. 7 245. 7 246. 7 247. 7	11. 9 12. 0 12. 0 12. 1 12. 1 12. 2 12. 2
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 16.0 17.0 18.0 19.0 20.0 21.0	0.1 0.2 0.2 0.3 0.3 0.4 0.5 0.6 0.6 0.7 0.7 0.8 0.9	63 64 65 66 67 68 69 70 71 72 73 74 75 76	62. 9 63. 9 64. 9 65. 9 66. 9 67. 9 68. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3.0 3.1 3.2 3.2 3.3 3.4 3.4 3.5 3.5	22 23 24 25 26 27 28 29 30 131	122. 9 123. 9 124. 8 125. 8 126. 8 127. 8 128. 8 129. 8 130. 8	6. 0 6. 1 6. 1 6. 2 6. 2 6. 3 6. 3	82 83 84 85 86 87 88 89	182. 8 183. 8 184. 8 185. 8 186. 8 187. 8 188. 8	8.9 9.0 9.1 9.1 9.2 9.3	42 43 44 45 46 47 48 49	241. 7 242. 7 243. 7 244. 7 245. 7 246. 7 247. 7	11. 9 12. 0 12. 0 12. 1 12. 1 12. 2 12. 2
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 16.0 17.0 18.0 19.0 20.0 21.0	0. 2 0. 3 0. 4 0. 4 0. 5 0. 6 0. 6 0. 7 0. 7 0. 8 0. 9	64 65 66 67 68 69 70 71 72 73 74 75 76	63. 9 64. 9 65. 9 66. 9 67. 9 68. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	24 25 26 27 28 29 30 131	123. 9 124. 8 125. 8 126. 8 127. 8 128. 8 129. 8 130. 8	6. 1 6. 2 6. 2 6. 3 6. 3	84 85 86 87 88 89	183. 8 184. 8 185. 8 186. 8 187. 8 188. 8	9. 0 9. 1 9. 1 9. 2 9. 2 9. 3	44 45 46 47 48 49	244. 7 245. 7 246. 7 247. 7	12. 0 12. 0 12. 1 12. 1 12. 2 12. 2
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	5. 0 6. 0 7. 0 8. 0 9. 0 10. 0 11. 0 12. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0. 2 0. 3 0. 4 0. 4 0. 5 0. 6 0. 6 0. 7 0. 7 0. 8 0. 9	65 66 67 68 69 70 71 72 73 74 75 76	64. 9 65. 9 66. 9 67. 9 68. 9 69. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	25 26 27 28 29 30 131	124. 8 125. 8 126. 8 127. 8 128. 8 129. 8	6. 1 6. 2 6. 2 6. 3 6. 3	85 86 87 88 89	184. 8 185. 8 186. 8 187. 8 188. 8	9.1 9.1 9.2 9.2 9.3	45 46 47 48 49	244. 7 245. 7 246. 7 247. 7	12. 1 12. 1 12. 2 12. 2
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	6. 0 7. 0 8. 0 9. 0 10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0 21. 0	0.3 0.3 0.4 0.4 0.5 0.6 0.6 0.7 0.7 0.8 0.8 0.9	66 67 68 69 70 71 72 73 74 75 76	65. 9 66. 9 67. 9 68. 9 69. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	26 27 28 29 30 131	125. 8 126. 8 127. 8 128. 8 129. 8 130. 8	6, 2 6, 3 6, 3	86 87 88 89	185, 8 186, 8 187, 8 188, 8	9.1 9.2 9.2 9.3	46 47 48 49	245. 7 246. 7 247. 7	12. 1 12. 1 12. 2 12. 2
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0	0.3 0.4 0.5 0.5 0.6 0.7 0.7 0.8 0.8 0.9 0.9	67 68 69 70 71 72 73 74 75 76	66. 9 67. 9 68. 9 69. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	28 29 30 131	126, 8 127, 8 128, 8 129, 8 130, 8	6, 2 6, 3 6, 3	87 88 89	186, 8 187, 8 188, 8	9. 2 9. 2 9. 3	47 48 49	246. 7 247. 7	12. 1 12. 2 12. 2
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0	0.4 0.4 0.5 0.6 0.6 0.7 0.7 0.8 0.8 0.9	68 69 70 71 72 73 74 75 76	67. 9 68. 9 69. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	28 29 30 131	127, 8 128, 8 129, 8 130, 8	6, 3	88 89	187. 8 188. 8	9. 2 9. 3	48 49	247. 7 248. 7	12. 2 12. 2
10	10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0.5 0.6 0.6 0.7 0.7 0.8 0.8 0.9 0.9	70 71 72 73 74 75 76 77	69. 9 70. 9 71. 9 72. 9 73. 9 74. 9	3. 4 3. 4 3. 5 3. 5 3. 6	29 30 131	129, 8 130, 8	6, 3		188.8			248.7	12. 2
11 12 13 14 15 16 17 18 19 20 21 22	11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0.5 0.6 0.6 0.7 0.7 0.8 0.8 0.9	71 72 73 74 75 76	70. 9 71. 9 72. 9 73. 9 74. 9	3. 5 3. 5 3. 6	131	130.8	6.4						
12 13 14 15 16 17 18 19 20 21 22	14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0.6 0.6 0.7 0.7 0.8 0.8 0.9	74 75 76 77	71. 9 72. 9 73. 9 74. 9	3.6				90	189.8	9.3	_ 50	249.7	12.3
13 14 15 16 17 18 19 20 21 22	14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0.6 0.7 0.7 0.8 0.8 0.9 0.9	74 75 76 77	72.9 73.9 74.9	3.6	32	2 43 7 13	6. 4	191	190.8	9.4	251	250. 7	12. 3 12. 4
14 15 16 17 18 19 20 21 22	14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0. 8 0. 8 0. 9 0. 9	74 75 76 77	74.9	5, 0	33	131.8	6, 5 6, 5	92	191, 8 192, 8	9.4 9.5	52 53	251.7	12, 4
15 16 17 18 19 20 21 22	15. 0 16. 0 17. 0 18. 0 19. 0 20. 0	0. 8 0. 8 0. 9 0. 9	$\frac{76}{77}$	74.9	3.6	34	132. 8 133. 8	6.6	94	193.8	9.5	54	252. 7 253. 7	12.4 12.5
16 17 18 19 20 21 22	16. 0 17. 0 18. 0 19. 0 20. 0	0. 8 0. 8 0. 9 0. 9	$\frac{76}{77}$		3. 6 3. 7 3. 7	35	134.8	6.6	95	194.8	9.6	55	254.7	12.5
17 18 19 20 21 22	18. 0 19. 0 20. 0	0. 8 0. 9 0. 9	77	75.9	3. 7	36	135.8	6.7	96	195.8	9.6	56	255. 7	12, 6
19 20 21 22	18. 0 19. 0 20. 0	0.9		76.9	3.8	37	136, 8	6.7	97	196.8	9. 7 9. 7	57	256.7	12.6
$\frac{20}{21}$	20.0	0.9	78	77.9	3.8	38	137.8	6.8	98	197.8	9.7	58	257.7	12.7
$\frac{21}{22}$	21.0		79	78.9	3.9	39	138.8	6.8	99	198.8	9.8	59	258.7	12.7
21 22 23 24	21.0	1.0	80	79.9	3.9	_40_	139.8	6.9	200	199.8	9.8	60	259.7	12.8
23 24	90) A	1.0	81	80. 9 81. 9	4.0 4.0	$\frac{141}{42}$	140.8	6.9	$\frac{201}{02}$	200. 8 201. 8	9. 9 9. 9	261	260. 7 261. 7	12.8
24	22. 0 23. 0	1 1	82 83	81.9	4. 1	43	141. 8 142. 8	7.0 7.0 7.1 7.1 7.2 7.2 7.3 7.3 7.4	03	201. 8	10.0	62 63	261.7	12. 9 12. 9
	24.0	1. 2 1. 2 1. 3	84	83. 9	4.1	44	143.8	7.1	03	203.8	10.0	64	262. 7 263. 7 264. 7 265. 7	13.0
25	25.0	1. 2	85	84.9	4, 2	45	144.8	7. 1	05	204.8	10.1	65	264. 7	13.0
26	26.0	1.3	86	85.9	4. 2 4. 2 4. 3	46	145.8	7.2	-06	205.8	10.1	66	265.7	13.1
27	27.0	1.3	87	86. 9	4.3	47	146.8	7.2	07	206. 8 207. 7	10. 2	67	$266.7 \\ 267.7$	13.1
28 29	$ \begin{array}{c c} 28.0 \\ 29.0 \end{array} $	1.4 1.4	88 89	87. 9 88. 9	4.3 4.4	48 49	147. 8 148. 8	7.3	08	207. 7	10. 2 10. 3	68 69	267.7	13. 2
30	30.0	1. 4	90	88. 9 89. 9	4.4	50	148.8	7.3	09 10	208. 7	10.3	70	268. 7 269. 7	13. 2 13. 2 13. 2
31	31.0	1.5	91	90. 9	4.5	151	150.8	7.1	211	210. 7	10.4	271	270 7	13. 3
32	32.0	1.6	92	91. 9	4.5	52	151.8	7.4 7.5 7.5 7.6 7.6 7.7	12	211.7	10. 4	72	271. 7 272. 7 273. 7 274. 7 275. 7	13.3
33	33. 0	1.6	93	92.9	4.6	53	152.8	7.5	13	$211.7 \\ 212.7$	10.5	73	272. 7	13.4
34	34.0	1.7	94	93.9	4.6	54	153.8	7.6	14	213. 7	10.5	74	273. 7	13.4
35	35.0	1. 7	95	94.9	4.7	55	154.8	7.6	15	214.7	10.5	75	274. 7	13.5
36	36.0	1.8	96	95. 9	4.7	56	155.8	7.7	16	215.7	10.6	76	275.7	13.5
37 38	37. 0 38. 0	1.8 1.9	97 98	96. 9 97. 9	4.8 4.8	57 58	156. 8 157. 8	7.8	17 18	216. 7 217. 7	10.6 10.7	77 78	276. 7 277. 7	13. 6 13. 6
39	39. 0	1.9	99	98. 9	4.9	59	158.8	7.8	19	218.7	10.7	79	278.7	13.0
40	40.0	2.0	100	99. 9	4. 9	60	159.8	7.8	20	219. 7	10.8	80	278. 7 279. 7	13.7 13.7
41	41.0	2.0	101	100.9	5.0	161	160.8	7.9	221	220.7	10.8	281	280. 7	13.8
42	41.9	2. 1	02	101.9	5.0	62	101 0	7.9	22	221.7	10.9	82	981 7	13.8
43	42.9	2.1	03	102.9	5. 1	63	162.8	8.0	23	222.7	10.9	83	282. 7	13.9
44	43.9	2, 2	04	103.9	5. 1	64	163.8	8.0	24 25	223. 7	11.0	84	283. 7 284. 7	13.9
45	44.9	2, 2	05	104. 9 105. 9	5.2	65	164.8	8.1	25	224.7	11.0	85	284.7	14.0
46 47	45.9	2. 1 2. 1 2. 2 2. 2 2. 3 2. 3	06 07	106.9	5.2	66 67	166.8	8.1	20	225. 7 226. 7	11.1 11.1	86 87	286.7	14.0 14.1
48	47. 9	2.4	08	106. 9 107. 9	5. 2 5. 2 5. 3 5. 3	68	167. 8	8. 2	26 27 28	227.7	11. 2	88	287.7	14. 1
49	46. 9 47. 9 48. 9	2. 4 2. 5	09	108.9	5, 3	69	161. 8 162. 8 163. 8 164. 8 165. 8 166. 8 167. 8 168. 8	8.3	29	228. 7 229. 7	11. 2 11. 2	89	285. 7 286. 7 287. 7 288. 7	14.2
50	49.9	2.5	10	109.9	5.4	70	100.0	8. 2 8. 2 8. 3 8. 3	30	229.7	11.3	90	289.7	14. 1 14. 2 14. 2
51	50.9	2.5	111	110.9	5. 4 5. 5	171	170.8	8.4 8.4 8.5	231	230.7	11.3	291	290.6	14.3
52	51.9	2.6	12	111.9	5.5	72 73	171. 8 172. 8	8.4	32	231. 7	11.4	92	291.6	14.3
53	52.9	2.6 2.6 2.7 2.7 2.8 2.9 2.9	13	112.9 113.9	5.5	73	172.8	8.5	33	232. 7	11.4	93	292. 6 293. 6	14.4
54 55	53. 9 54. 9	2.0	14 15	113.9	5, 6	74 75	173.8 174.8	8.5 8.6	34 35	233. 7 234. 7 235. 7 236. 7	11.5 11.5	94 95	293.6	14. 4 14. 5
56	55. 9	2. 7	16	115.9	5. 6 5. 7	76	175.8	8.6	36	235. 7	11.6	96	295.6	14.5
57	55. 9 56. 9	2. 8	17	116.9	5.7	76 77	176.8	8.6 8.7	37	236. 7	11.6	97	296.6	14.6
58	57.9	2.8	18	117.9	5.8	78 79	177.8	8.7	38	231.7	11.7	98	297.6	14.6
59	58. 9 59. 9	2.9	19	118.9	5.8	. 79	178.8	8.8	39	238.7	11.7	99	298.6	14.7
60			20	119, 9	5.9	80	179.8	8.8	40	239.7	11.8	300	299.6	14.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep. W. 1 N.	Lat.	Dist.	Dep. V. 1 S.	Lat.	Dist.	Dep. or 73 Poi	Lat.
	E. :	N.		E. 4 S.			17. 7 N.		,	1. 70.		[rc	я <i>(</i> ‡ го	nts.

Page 516]

TABLE 1.

Difference of Latitude and Departure for ½ Point.

N. ½ E.

N. ½ W.

S. ½ E.

S. ½ W.

			74. 2	12.		41. 2	: '' -		1.74	2 44.		15.	2 11 .		
D:	ist.	Let.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
	,	1.0	0.1	61	60.7	0.0	121	100 1	11.0	101	100 1	17.7	011	920 0	92.6
1	1	1.0	0.1	61	60.7	6.0	22	120. 4 121. 4	11. 9 12. 0	181 82	180, 1 181, 1	17. 7 17. 8	241 42	239. 8 240. 8	23.6
1	3	2. 0 3. 0	0.2	62 63	69.7	6.1	23	122.4	12.1	83	182.1	17. 9	43	241.8	23.7 23.8
1	4	4.0	0, 3	64	61. 7 62. 7 63. 7	6. 1 6. 2 6. 3	91	123. 4	19 9	84	183.1	18.0	44	242.8	23.0
1		5.0	0.5	65	64.7	6.4	24 25 26	124.4	12. 2 12. 3 12. 4	85	184.1	18 1	45	243. 8	$23.9 \\ 24.0$
	5 6	6.0	0.6	66	64.7 65.7	6.4 6.5	26	125.4	12.3	86	185.1	18.2	46	244.8	24.1
1	7	7. 0	0.7	67	66, 7 67, 7 68, 7	6, 6	97	126. 4	12. 4 12. 5	87	186.1	18. 2 18. 3 18. 4	47	245.8	24. 2
1	8	8.0	0.8	68	67.7	6.7	28 29	127.4	12.5	88	187.1	18.4	48	246.8	24.3
1	g	9.0	0.9	69	68.7	6.8	29	128.4	12.6	89	188.1	18.5	49	247.8	24.4
	10	10.0	1.0	70	69.7	6.9	30	129.4	12.7	90	189. 1	18.6	50	248.8	24.5
	11	10. 9	1 1	71	70.7	7.0	131	130.4	12.8	191	190.1	18.7	251	249 8	24.6
1	12 13 14	11.9	1. 2 1. 3 1. 4 1. 5	72 73 74	71, 7	7. 1	32	131. 4	12.9	92	191.1	18.8	52 53	250. 8 251. 8 252. 8	24.7
1	13	12. 9 13. 9	1.3	73	72. 6 73. 6	7. 2	33	132. 4 133. 4	13. 0 13. 1	93	192. 1 193. 1	18.9 19.0	53	251.8	24.8
1	14	13.9	1.4	74	73.6	7.3	34	133, 4	13, 1	94	193, 1	19.0	54	252.8	24.9
-1	15 L	14.9	1.5	75	74.6	7.4	35	134.3	13, 2	95	194.1	1 19.1	55	253. 8	25, 0
1	16	15.9	1.6	76	74. 6 75. 6 76. 6	7. 1 7. 2 7. 3 7. 4 7. 4 7. 5	36	135.3	13.3	- 96	195.1	19. 2 19. 3	56	254. 8 255. 8	25, 1
1	17	16.9	1.7	77	76.6	7.5	37	136.3	13.4	97	196.1	19.3	57	255. 8	25. 2 25. 3
	18	17.9	1.8	78 79	77. 6 78. 6	7.6	- 38	137.3	13.5	98	197.0	19.4	58	256, 8	25. 3
	19	18. 9	1.9	79	78.6	7.7	39	138.3	13.6	59	198.0	19.5	59	257.8	25.4
	20	19.9	2.0	80	79.6	7.8	40	139.3	13, 7	200	199.0	19, 6	60	258.7	25, 5
	21 22 23	20.9	2. 1 2. 2 2. 3 2. 4 2. 5 2. 6 2. 7	81	80.6	7.9	141	140.3	13, 8	201	200.0	19.7	261	259.7	25.6
	22	21.9	2. 2	82 83	81.6	8.0	42	141.3	13.9	02	201.0	19.8	62	260.7	25.7
	23	22.9	2.3	83	81.6 82.6	8.1	43	142.3 143.3	14.0	03	202. 0 203. 0	19.9	63	261. 7 262. 7	25. 8 25. 9
1 :	24 25 26	23.9	2.4	84	83.6	8, 2	44	143.3	14.1	04	203.0	20.0	64	$\frac{262.7}{1}$	25.9
1 :	25	24.9	2.5	85	84.6	8.3	45	144.3	14.2	05	204.0	20. 1	65	263.7	26.0
1	26	25. 9	2.5	86	85.6	8.4	46	145.3	14.3	06	205.0	20. 2	66	264.7	26, 1
Ш	27 28	26, 9	2.6	87	86. 6 87. 6	8.5	47	$146.3 \\ 147.3$	14.4	07	206. 0 207. 0	20, 3 20, 4	67	265. 7 266. 7	26, 2 26, 3
1 3	28	27.9	2.7	88	81.0	8.6 8.7	48 49	147.3	14.5	08 09	207.0	20.4	68 69	267. 7	26. 4
1 :	29 30	28.9	$\frac{2.8}{2.9}$	89 90	88.6	8.8	50	148, 3 149, 3	14.6 14.7	10	209.0	20.6	70	268. 7	26.5
		29.9	0.0		89.6	0.0	151	150.3	1111				1071	269. 7	26.6
	31	30.9	3.0	91	90.6	8.9		150.3	14.8	211	210. 0 211. 0	$\frac{20.7}{20.8}$	271 72 73	209. 7	26.7
1 :	32	$\frac{31.8}{32.8}$	3.1	92 93	91.6	9. 0 9. 1	52 53	151.3 152.3 153.3	14.9 15.0	12 13	919 0	20. 8	72	270. 7 271. 7 272. 7 273. 7	26.8
1 :	34	33, 8	3, 2 3, 3	94	92. 6 93. 5	0.2	54	152.3	15.1	14	212. 0 213. 0	21.0	7.1	979 7	26.0
	35	34.8	3.4	95	94.5	9. 2 9. 3	55	154.3	15. 1 15. 2	15	214.0	21.1	75	273 7	26. 9 27. 0
	36	35.8	3.5	96	95.5	9.4	56	155.2	15.3	16	215.0	21.9	76	274.7	97.1
	37	36.8	3.6	97	96.5	9.5	57	156. 2	15, 4	17	216.0	21. 2 21. 3	77	275.7	27. 2
	38	37.8	3.7	98	97.5	9.6	58	156, 2 157, 2	15, 5	18	216. 0 217. 0	21.4	74 75 76 77 78	276.7	27. 2 27. 2 27. 3
13	39	38, 8	3.8	99	98. 5	9.7	59	158. 2	15.6	19	217.9	21.5	79	277.7	27.3
	10	39, 8	3, 9	100	99.5	9.7 9.8	60	159. 2	15.7	20	218.9	21.6	80	277. 7 278. 7	27.4
	11	40, 8	4.0	101	100.5	9.9	161	160.2	15.8	221	219, 9	21.7	281	279.6	27. 5 27. 6 27. 7
Ţ.,	12	41.8	4.1 4.2	02	101.5 102.5	10.0	62	161. 2	15. 9	22 23 24	220.9	21.8	82	1.280, 6	27. 6
1 -	43	42.8	4.2	-03	102.5	10.1	63	162.2	16.0	23	221.9	21. 9	83	281. 6 282. 6	27.7
	14	43.8	4.3	-04	103.5	10.2	64	163. 2	16.1	24	222. 9	22.0	84	282.6	27.8
	15	44.8	4.4	05	104.5	10.3	65	164, 2 $165, 2$	16.2	25 26	223, 9	22.1	85	283.6	27.9
	16	45.8	4.5	-06	105.5	10.4	66	165.2	16.3	26	224.9	22. 2 22. 2	86	284.6	28.0
	47	46.8	4.6	07	106.5	10.5	67	166. 2	16.4	27 28	225, 9 226, 9	22.2	87 88	285.6	28, 1 28, 2
	48	47.8	4.7	- 08	107. 5	10.6	68	167. 2	16.5	28	226, 9	22. 3	89	286.6 287.6	28, 3
13	49 50	48.8	4.8	09	108.5 109.5	10.7	69 70	168, 2 $169, 2$	16. 6 16. 7	30	228.9	22. 5	90	288. 6	28, 4
		49.8	$-\frac{4.9}{5.0}$	10		10.8		170. 2	16. 8	-30 231	229. 9	22.6	291	289. 6	28, 5
	51	50.8	5, 0	111	110.5	10.9 11.0	171	170.2	16. 8	32	230. 9	22. 6	92	289. 6	28.6
1	52 53	51.7	5. 1 5. 2	12 13	111.5	11.0	12	179 0	17. 0	33	231.9	22.8	93	291.6	28. 7
1.3	54	52. 7 53. 7	5, 3	14	112, 5 113, 5	11.1	F 431	173 9	17. 1	34	232. 9	99 Q	94	292.6	28.8
	55	54.7	5.4	15	111.4	11.2 11.3	72 73 74 75	171. 2 172. 2 173. 2 174. 2	17. 1 17. 2 17. 3	35	233. 9	23.0	95	293. 6	28. 9
	56	55.7	5, 5	16	115. 4	11.4	76	175.2	17.3	36	234. 9	23, 1	96	294.6	29, 0
	57	56. 7	5.6	17	116. 4	11.5	77	176. 1	17. 3	37	235, 9	23. 2	97	295.6	29.1
	58	57. 7	5. 7	18	117. 4	11.6	78	177. 1	17.4	38	236. 9	23.3	98	296.6	29, 2
	59	57. 7 58. 7	5.8	19	118.4	11.7	79	178. 1	17.5	39	237.8	23, 4	- 99	297.6	29, 3
	60	59, 7	5.9	20	119.4	11.8	80	179.1	17.6	40	238, 8	23, 5	300	298, 6	29, 4
1_													_		
D	ist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat
1-	_	E. § N.			E. ½ S.			W. 1 N		_	W 1 S.		(F)	or 73 Poi	ints.
		3 1 2 1			*** 5 ***			2			24 2 5		Γ.,		

Difference of Latitude and Departure for 3 Point.

	N, \(\frac{1}{2} \) E.													
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1 2 3 4 5	1.0 2.0 3.0 4.0 4.9	0. 1 0. 3 0. 4 0. 6 0. 7	61 62 63 64 65	60, 3 61, 3 62, 3 63, 3 64, 3	9. 0 9. 1 9. 2 9. 4 9. 5 9. 7	121 22 23 24 25	119. 7 120. 7 121. 7 122. 7 123. 6	17. 8 17. 9 18. 0 18. 2 18. 3	181 82 83 84 85	179. 0 180. 0 181. 0 182. 0 183. 0	26. 6 26. 7 26. 9 27. 0 27. 1	241 42 43 44 45	238, 4 239, 4 240, 4 241, 4 242, 3	35. 4 35. 5 35. 7 35. 8 35. 9
6 7 8 9 10	5.9 6.9 7.9 8.9 9.9	0.9 1.0 1.2 1.3 1.5	66 67 68 69 70	65. 3 66. 3 67. 3 68. 3 69. 2	9. 7 9. 8 10. 0 10. 1 10. 3	26 27 28 29 30 131	124. 6 125. 6 126. 6 127. 6 128. 6	18.5 18.6 18.8 18.9 19.1	86 87 88 89 90	184. 0 185. 0 186. 0 187. 0 187. 9	27. 3 27. 4 27. 6 27. 7 27. 9	46 47 48 49 50 251	243.3 244.3 245.3 246.3 247.3	36. 1 36. 2 36. 4 36. 5 36. 7
12 13 14 15 16 17 18 19	11. 9 12. 9 13. 8 14. 8 15. 8 16. 8 17. 8 18. 8	1.8 1.9 2.1 2.2 2.3 2.5 2.6 2.8 2.9	71 72 73 74 75 76 77 78 79	71. 2 72. 2 73. 2 74. 2 75. 2 76. 2 77. 2 78. 1	10. 6 10. 7 10. 9 11. 0 11. 2 11. 3 11. 4 11. 6	32 33 34 35 36 37 38 39	130. 6 131. 6 132. 5 133. 5 134. 5 135. 5 136. 5 137. 5	19. 2 19. 4 19. 5 19. 7 19. 8 20. 0 20. 1 20. 2 20. 4	92 93 94 95 96 97 98 99	189. 9 190. 9 191. 9 192. 9 193. 9 194. 9 195. 9 196. 8	28. 2 28. 3 28. 5 28. 6 28. 8 28. 9 29. 1 29. 2	52 53 54 55 56 57 58 59	249, 3 250, 3 251, 3 252, 2 253, 2 254, 2 255, 2 256, 2	36.8 37.0 37.1 37.3 37.4 37.6 37.7 37.9 38.0
20 21 22 23 24 25 26 27 28 29	20.8 21.8 22.8 23.7 24.7 25.7 26.7 27.7 28.7	3.1 3.2 3.4 3.5 3.7 3.8 4.0 4.1 4.3	80 81 82 83 84 85 86 87 88 89	79. 1 80. 1 81. 1 82. 1 83. 1 84. 1 85. 1 86. 1 87. 0 88. 0	11. 7 11. 9 12. 0 12. 2 12. 3 12. 5 12. 6 12. 8 12. 9 13. 1	40 141 42 43 44 45 46 47 48 49	138, 5 139, 5 140, 5 141, 5 142, 4 143, 4 144, 4 145, 4 146, 4 147, 4	20.5 20.7 20.8 21.0 21.1 21.3 21.4 21.6 21.7 21.9	200 201 02 03 04 05 06 07 08	197, 8 198, 8 199, 8 200, 8 201, 8 202, 8 203, 8 204, 8 205, 7 206, 7	29. 3 29. 5 29. 6 29. 8 29. 9 30. 1 30. 2 30. 4 30. 5 30. 7	60 261 62 63 64 65 66 67 68 69	257. 2 258. 2 259. 2 260. 2 261. 1 262. 1 263. 1 264. 1 265. 1 266. 1	38. 1 38. 3 38. 4 38. 6 38. 7 38. 9 39. 0 39. 2 39. 3 39. 5
30 31 32 33 34 35 36 37 38	29, 7 30, 7 31, 7 32, 6 33, 6 34, 6 35, 6 36, 6 37, 6	4. 4 4. 5 4. 7 4. 8 5. 0 5. 1 5. 3 5. 4 5. 6	90 91 92 93 94 95 96 97 98	89. 0 90. 0 91. 0 92. 0 93. 0 94. 0 95. 0 96. 0 96. 9	13. 4 13. 5 13. 6 13. 8 13. 9 14. 1 14. 2 14. 4	50 151 52 53 54 55 56 57 58	148. 4 149. 4 150. 4 151. 3 152. 3 153. 3 154. 3 155. 3	22. 0 22. 2 22. 3 22. 4 22. 6 22. 7 22. 9 23. 0 23. 2	10 211 12 13 14 15 16 17 18	207. 7 208. 7 209. 7 210. 7 211. 7 212. 7 213. 7 214. 7 215. 6	30. 8 31. 0 31. 1 31. 3 31. 4 31. 5 31. 7 31. 8 32. 0	70 271 72 73 74 75 76 77 78	267. 1 268. 1 269. 1 270. 0 271. 0 272. 0 273. 0 274. 0 275. 0	39. 6 39. 8 39. 9 40. 1 40. 2 40. 4 40. 5 40. 6 40. 8
39 40 41 42 43 44 45 46	38.6 39.6 40.6 41.5 42.5 43.5 44.5 45.5	5.7 5.9 6.0 6.2 6.3 6.5 6.6 6.7	99 100 101 02 03 04 05 06	97. 9 98. 9 99. 9 100. 9 101. 9 102. 9 103. 9 104. 9	14. 5 14. 7 14. 8 15. 0 15. 1 15. 3 15. 4	59 60 161 62 63 64 65 66	156. 3 157. 3 158. 3 159. 3 160. 2 161. 2 162. 2 163. 2 164. 2	23. 3 23. 5 23. 6 23. 8 23. 9 24. 1 24. 2 24. 4	19 20 221 22 23 24 25 26	216. 6 217. 6 218. 6 219. 6 220. 6 221. 6 222. 6 223. 6	32. 1 32. 3 32. 4 32. 6 32. 7 32. 9 33. 0	79 80 281 82 83 84 85 86	276. 0 277. 0 278. 0 278. 9 279. 9 280. 9 281. 9 282. 9	40.9 41.1 41.2 41.4 41.5 41.7 41.8 42.0
47 48 49 50 51 52	46.5 47.5 48.5 49.5 50.4 51.4	6.9 7.0 7.2 7.3 7.5 7.6	07 08 09 10 111	105.8 106.8 107.8 108.8 109.8 110.8	15. 6 15. 7 15. 8 16. 0 16. 1 16. 3 16. 4	67 68 69 70	165. 2 166. 2 167. 2 168. 2	24. 5 24. 7 24. 8 24. 9 25. 1 25. 2	27 28 29 30 231 32	224.5 225.5 226.5 227.5 228.5 229.5	33. 2 33. 3 33. 5 33. 6 33. 7 33. 9 34. 0	87 88 89 90 291 92	283. 9 284. 9 285. 9 286. 9 287. 9 288. 8	42. 1 42. 3 42. 4 42. 6 42. 7 42. 8 43. 0
53 54 55 56 57 58 59	52.4 53.4 54.4 55.4 56.4 57.4 58.4	7.8 7.9 8.1 8.2 8.4 8.5 8.7	12 13 14 15 16 17 18 19	111. 8 112. 8 113. 8 114. 7 115. 7 116. 7 117. 7	16. 6 16. 7 16. 9 17. 0 17. 2 17. 3 17. 5	72 73 74 75 76 77 78 79	171. 1 172. 1 173. 1 174. 1 175. 1 176. 1 177. 1	25. 4 25. 5 25. 7 25. 8 26. 0 26. 1 26. 3	33 34 35 36 37 38 39	230. 5 231. 5 232. 5 233. 4 234. 4 235. 4 236. 4	34. 2 34. 3 34. 5 34. 6 34. 8 34. 9 35. 1	93 94 95 96 97 98 99	289. 8 290. 8 291. 8 292. 8 293. 8 294. 8 295. 8	43. 1 43. 3 43. 4 43. 6 43. 7 43. 9
Dist.	59, 4 Dep. E. ³ N.	8,8 Lat.	Dist.	118. 7 Dep. E. 3 S.	17. 6	80 Dist.	178. 1 Dep. W. 3 N	26, 4	Dist.	Dep. W. 3 8.	35. 2 Lat.	300 Dist.	296, 8 Dep. For 7‡ P	Lat.

Page 518]

E, by N.

TABLE 1.

				Differe	nce of .	Latitu	de and	Departi	ire for	r 1 Point				
	Difference of Latitude and Departure for 1 Point, N. by E. N. by W. S. by E. S. by W. Dist. Lat. Dep.													
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1 2 3 4 5 6 7 8 9 10 11 12 13 14	1. 0 2. 0 2. 9 3. 9 4. 9 5. 9 6. 9 7. 8 8. 8 9. 8 11. 8 12. 8 13. 7	0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.1 2.3 2.5 2.7	61 62 63 64 65 66 67 68 69 70 71 72 73 74	59. 8 60. 8 61. 8 62. 8 63. 8 64. 7 65. 7 66. 7 67. 7 69. 6 70. 6 71. 6 72. 6	11. 9 12. 1 12. 3 12. 5 12. 7 12. 9 13. 1 13. 3 13. 5 13. 7 14. 0 14. 2 14. 4	121 22 23 24 25 26 27 28 29 30 131 32 33 34	118. 7 119. 7 120. 6 121. 6 122. 6 123. 6 124. 6 125. 5 126. 5 127. 5 128. 5 129. 5 130. 4 131. 4	23. 6 23. 8 24. 0 24. 2 24. 4 24. 6 25. 0 25. 2 25. 4 25. 6 25. 8 25. 9 26. 1	181 82 83 84 85 86 87 88 89 90 191 92 93 94	177, 5 178, 5 179, 5 180, 5 181, 4 182, 4 183, 4 184, 4 186, 3 187, 3 188, 3 190, 3	35. 3 35. 5 35. 7 35. 9 36. 1 36. 3 36. 5 36. 7 37. 1 37. 3 37. 5 37. 7 37. 8	241 42 43 44 45 46 47 48 49 50 251 52 53	236. 4 237. 4 238. 3 239. 3 240. 3 241. 3 242. 3 243. 2 244. 2 245. 2 246. 2 247. 2 248. 1	47. 0 47. 2 47. 4 47. 6 47. 8 48. 0 48. 2 48. 4 48. 6 49. 0 49. 2 49. 4 49. 6
15 16 17 18 19 20	14. 7 15. 7 16. 7 17. 7 18. 6 19. 6	2.9 3.1 3.3 3.5 3.7 3.9	75 76 77 78 79 80	73. 6 74. 5 75. 5 76. 5 77. 5 78. 5	14.6 14.8 15.0 15.2 15.4 15.6	35 36 37 38 39 40	132. 4 133. 4 134. 4 135. 3 136. 3 137. 3	26. 3 26. 5 26. 7 26. 9 27. 1 27. 3	95 96 97 98 99 200	191. 3 192. 2 193. 2 194. 2 195. 2 196. 2	38. 0 38. 2 38. 4 38. 6 38. 8 39. 0	55 56 57 58 59 60	250. 1 251. 1 252. 1 253. 0 254. 0 255. 0	49. 7 49. 9 50. 1 50. 3 50. 5 50. 7
21 22 23 24 25 26 27 28 29 30	20. 6 21. 6 22. 6 23. 5 24. 5 25. 5 26. 5 27. 5 28. 4 29. 4	4.1 4.3 4.5 4.7 4.9 5.1 5.3 5.5 5.7 5.9	81 82 83 84 85 86 87 88 89 90	79. 4 80. 4 81. 4 82. 4 83. 4 84. 3 85. 3 86. 3 87. 3	15.8 16.0 16.2 16.4 16.6 16.8 17.0 17.2 17.4 17.6	141 42 43 44 45 46 47 48 49 50	138, 3 139, 3 140, 3 141, 2 142, 2 143, 2 144, 2 145, 2 146, 1 147, 1	27. 5 27. 7 27. 9 28. 1 28. 3 28. 5 28. 7 28. 9 29. 1 29. 3	201 02 03 04 05 06 07 08 09 10	197, 1 198, 1 199, 1 200, 1 201, 1 202, 0 203, 0 204, 0 205, 0 206, 0	39. 2 39. 4 39. 6 39. 8 40. 0 40. 2 40. 4 40. 6 40. 8 41. 0	261 62 63 64 65 66 67 68 69 70	256. 0 257. 0 257. 9 258. 9 259. 9 260. 9 261. 9 262. 9 263. 8 264. 8	50. 9 51. 1 51. 3 51. 5 51. 7 51. 9 52. 1 52. 3 52. 5 52. 7
31 32 33 34 35 36 37 38 39 40	30. 4 31. 4 32. 4 33. 3 34. 3 35. 3 36. 3 37. 3 38. 3 39. 2	6. 0 6. 2 6. 4 6. 6 6. 8 7. 0 7. 2 7. 4 7. 6 7. 8	91 92 93 94 95 96 97 98 99 100	89. 3 90. 2 91. 2 92. 2 93. 2 94. 2 95. 1 96. 1 97. 1 98. 1	17.8 17.9 18.1 18.3 18.5 18.7 18.9 19.1 19.3 19.5	151 52 53 54 55 56 57 58 59 60	148. 1 149. 1 150. 1 151. 0 152. 0 153. 0 154. 0 155. 0 155. 9 156. 9	29. 5 29. 7 29. 8 30. 0 30. 2 30. 4 30. 6 30. 8 31. 0 31. 2	211 12 13 14 15 16 17 18 19 20	206. 9 207. 9 208. 9 209. 9 210. 9 211. 8 212. 8 213. 8 214. 8 215. 8	41. 2 41. 4 41. 6 41. 7 41. 9 42. 1 42. 3 42. 5 42. 7 42. 9	271 72 73 74 75 76 77 78 79 80	265, 8 266, 8 267, 8 268, 7 269, 7 270, 7 271, 7 272, 7 273, 6 274, 6	52.9 53.1 53.3 53.5 53.6 53.8 54.0 54.2 54.4 54.6
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	40, 2 41, 2 42, 2 43, 2 44, 1 45, 1 47, 1 48, 0 50, 0 51, 0 52, 0 53, 0 53, 9 54, 9 55, 9 56, 9 57, 9 58, 8	8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 9.9 10.1 10.3 10.7 10.9 11.1 11.3 11.5	101 - 02 - 03 - 04 - 05 - 06 - 07 - 08 - 09 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20	99, 1 100, 0 101, 0 102, 0 103, 0 104, 0 105, 9 106, 9 107, 9 108, 9 110, 8 111, 8 112, 8 114, 8 115, 7 116, 7	19. 7 19. 9 20. 1 20. 3 20. 5 20. 7 20. 9 21. 1 21. 3 21. 5 21. 7 21. 9 22. 2 22. 4 22. 6 23. 8 23. 2 23. 4	161 62 63 64 65 66 67 68 69 70 171 72 73 74 75 76 77 78 79 80	157, 9 158, 9 159, 9 160, 8 161, 8 162, 8 164, 8 165, 8 166, 7 167, 7 169, 7 170, 7 171, 6 172, 6 174, 6 175, 6 176, 5	31.4 31.6 31.8 32.0 32.2 32.4 32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.1 34.3 34.3 34.7 34.7 34.7 35.1	221 22 23 24 25 26 27 28 29 30 231 33 34 35 36 37 38 39 40	216, 8 217, 7 218, 7 229, 7 220, 7 221, 7 222, 6 223, 6 224, 6 225, 6 226, 5 227, 5 228, 5 231, 5 231, 5 231, 5 233, 4 233, 4 235, 4	43. 1 43. 3 43. 5 43. 7 43. 9 44. 1 44. 3 44. 5 44. 7 45. 1 45. 3 45. 5 46. 0 46. 2 46. 6 46. 8	281 82 83 84 85 86 87 88 89 90 291 92 93 94 95 96 97 98 99 300	275. 6 276. 6 277. 6 277. 6 278. 5 280. 5 281. 5 283. 4 284. 4 285. 4 286. 4 288. 4 289. 3 291. 3 291. 3 292. 3 294. 2	54. 8 55. 0 55. 2 55. 4 55. 6 55. 8 56. 2 56. 4 56. 6 57. 0 57. 2 57. 4 57. 7 57. 7 58. 3 58. 3 58. 5

Dist. | Dep. | Lat. | Dist. | Dep. | Lat. | Dist. | Dep. | Lat. | Dist. | Dep. | Lat. | Dist. | Dep. | Lat. | Dist. | Dep. | Lat. |

E. by S.

W. by N. W. by S.

[For 7 points.

Difference of Latitude and Departure for 11 Points.

[N.	by E.	E.	N	, by W	'. 1 W		S. by	E. 1	E.	S.	by W.	1 W.	
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.
1	1.0	0.2	61	59. 2	14.8	121	117. 4	29.4	181	175.6	44.0	241	233.8	58, 6
2	1.9	0.5	62	60.1	15. 1 15. 3	22 23	118.3	29.6	82	176.5	44.2	42	234. 7	58, 8
3	2.9	0.7	63	61.1	15.3	23	119.3	29.9	83	177.5	44.5 44.7	43 44	235, 7 236, 7	59, 0 59, 3
4	$\frac{3.9}{4.9}$	$\frac{1.0}{1.2}$	64 65	62. 1 63. 1	15.6 15.8	24 25	120.3 121.3	30.1 30.4	84 85	178.5 179.5	45.0	45	237, 7	59, 5
5 6	5.8	1.5	66	64.0	16.0	26	122. 2	30. 6	86	180, 4	45. 2	46	238, 6	59, 8
7	6.8	1.7	67	65.0	16. 3	27	123. 2	30.9	87	181. 4	45.4	47	239.6	60.0
8	7.8	1.9	68	66. 0	16.5	28	124. 2	31.1	88	182.4	45.7	48	240.6	60.3
9	8. 7 9. 7	2.2	-69	66, 9	16.8	29	125.1	31.3	89	183.3	45.9	49	241.5	60.5
10	9.7	2.4	70	67.9	17.0	_ 30	126.1	31.6	90_	184.3	46.2	50	242.5	60.7
11	10.7	2.7	71	68. 9	17.3	131	127.1	31.8	191	185.3	46.4	251	243. 5	61.0
12 13	11.6	2. 9 3. 2	72	69.8	17.5	32	128.0	32.1	92	186. 2	46.7	52	244.4	61.2
13	12.6	3.2	73	70.8	17.7	. 33 34	129.0	32.3	93	187. 2 188. 2	46.9 47.1	53 54	245. 4 246. 4	61.5
14	13.6	3.4	74	71.8	18.0 18.2	35	130.0 131.0	$32.6 \\ 32.8$	94 95	189. 2	47.4	55	247.4	62.0
15 16	14.6 15.5	3.6 3.9	75 76	72.8 73.7	18.5	36	131.0	33.0	96	190.1	47.6	56	248. 3	$62.0 \\ 62.2$
17	16.5	4.1	77	74.7	18.7	37	132.9	33. 3	97	191.1	47. 9	57	249.3	62. 4
18	17.5	4.4	78	75. 7	19.0	38	133. 9	33.5	98	192.1	48.1	58	250.3	62.7
19	18.4	4.6	79	76.6	19.2	39	134. S	33.8	99	193.0	48.4	59	251.2	62.9
20	19.4	4.9	80	77.6	19.4	40	135.8	34.0	200	194.0	48.6	_ 60	252. 2	63. 2
21	20.4	5.1	81	78.6	19.7	141	136.8	34. 3	201	195.0	48.8	261	253. 2	63. 4
22	21.3	5.3	82	79.5	19.9	42	137.7	34. 5	02	195.9	49.1	62	254.1	63.7
23	22.3	5.6	83	80.5	20. 2	43	138.7	34.7	03	196.9	49.3	63	255.1	63. 9
24 25	23.3 24.3	5.8	84 85	81.5	20. 4 20. 7	44 45	139.7 140.7	35. 0 35, 2	04 05	197. 9 198. 9	49.6 49.8	64 65	256. 1 257. 1	64. 1 64. 4
$\frac{25}{26}$	24. 3 25. 2	6.1 6.3	86 86	82. 5 83. 4	20.7	46	141.6	35. 5	06	199.8	50. 1	66	258.0	64.6
27	26. 2	6.6	87	84. 4	21.1	47	142.6	35. 7	07	200.8	50.3	67	259. 0	64. 9
28	27. 2	6.8	88	85. 4	21.4	48	143.6	36, 0	08	201.8	50.5	68	260.0	65. 1
29	28. 1	7.0	89	86. 3	21.6	49	144.5	36. 2	09	202.7	50.8	69	260.9	65. 4
30	29.1	7.3	90	87.3	21.9	50	145.5	36, 4	10	203.7	51.0	70	261.9	65.6
31	30.1	7.5	91	88, 3	22. I	151	146.5	36. 7	211	204.7	51.3	271	262, 9	65, 8
32	31.0	7.8	92	89. 2	22.4	52	147. 4	36, 9	12	205.6	51.5	72	263.8	66.1
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33 31.1 11.1 93 87.6 31.3 53 144.1 51.5 13 200.5 71.8 73 257.0 92.0 34 32.0 11.5 94 88.5 31.7 7 54 145.0 51.9 14 201.5 72.1 74 258.0 92.3 35 33.0 11.8 95 89.4 32.0 55 145.9 52.2 15 202.4 72.4 75 258.9 92.6 36 33.9 12.1 96 90.4 32.3 56 146.9 52.6 16 203.4 72.8 76 259.9 93.0 37 34.8 12.5 97 91.3 32.7 57 147.8 52.9 17 204.3 73.1 77 260.8 93.3 38 35.8 12.8 98 92.3 33.0 58 148.8 53.2 18 205.3 73.4 78 261.7 993.7 39 36.7 13.1 99 93.2 33.4 59 149.7 53.6 19 206.2 73.8 79 262.7 94.0 40 37.7 13.5 100 94.2 33.7 60 150.6 53.9 20 207.1 74.1 80 263.6 94.3 41 38.6 13.8 101 95.1 34.0 161 151.6 54.2 221 208.1 74.5 281 264.6 94.7 42 39.5 14.1 02 96.0 34.4 62 152.5 54.6 22 229.0 07.4 8 82 266.5 95.3 44 41.4 14.8 04 97.9 35.0 64 154.4 55.2 24 210.9 75.5 84 266.5 95.3 44 41.4 14.8 04 97.9 35.0 64 154.4 55.2 24 210.9 75.5 84 266.5 95.3 44 41.4 14.8 04 97.9 35.0 64 154.5 55.2 24 210.9 75.5 84 266.5 95.3 44 44.3 15.8 07 100.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 88 271.2 97.0 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 88 271.2 97.0 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 88 271.2 97.0 48 45.2 16.2 08 101.7 36.0 67 157.2 56.3 27 213.7 76.5 88 271.2 97.0 56.7 49.5 75.1 88.0 17.2 11 104.5 37.4 171 161.0 57.3 30 216.6 77.5 90 273.0 97.7 55 49.0 17.5 12 105.5 37.7 72 161.9 57.9 32 218.4 78.2 92 274.9 98.4 55 40.0 17.2 11.1 104.5 37.4 171 161.0 57.6 231 217.5 77.8 92 277.4 98.0 55 51.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 276.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 99 274.9 98.4 55 50.8 18.2 14 107.3 38.4 77 166.7 59.6 37 223.1 79.9 97 279.5 97.7 99.7 55 53.7 18.9 19.1 11.0 38.		30.1						142.2					79		
34 32.0 11.5 94 88.5 31.7 54 145.0 51.9 14 201.5 72.1 74 258.0 92.3 35 33.0 11.8 95 89.4 32.0 55 145.9 52.2 15 202.4 72.4 75 258.9 92.6 36 33.9 12.1 96 90.4 32.3 56 146.9 52.6 16 203.4 72.8 76 259.9 93.0 37 34.8 12.5 97 91.3 32.7 57 147.8 52.9 17 204.3 73.1 77 260.8 93.3 38 35.8 12.8 98 92.3 33.0 58 148.8 52.9 17 204.3 73.1 77 260.8 93.3 36.7 13.1 99 93.2 33.4 59 149.7 53.6 19 206.2 73.8 79 262.7 94.0 40 37.7 13.5 100 94.2 33.7 60 150.6 53.9 20 207.1 74.1 80 263.6 94.3 40 37.7 13.5 100 94.2 33.7 60 150.6 53.9 20 207.1 74.1 80 263.6 94.3 44 34.0 5 14.5 03 97.0 34.7 62 152.5 54.6 22 209.0 74.8 82 265.5 95.0 44.4 14.4 14.8 04 97.9 35.0 64 154.4 55.2 24 210.9 75.5 18 266.5 95.3 44 41.4 14.8 04 97.9 35.0 64 154.4 55.2 24 210.9 75.5 18 266.5 95.3 44 41.4 14.8 04 97.9 35.0 64 154.4 55.2 24 210.9 75.5 8 268.3 96.0 46 43.3 15.5 06 99.8 35.7 66 156.3 55.6 25 211.8 75.8 85 268.3 96.0 46 43.3 15.5 06 99.8 35.7 66 156.3 55.6 25 211.8 75.8 85 268.3 96.0 47 44.3 15.8 07 100.7 36.0 67 157.2 56.3 27 213.7 76.5 87 270.2 96.7 49 46.1 16.5 09 102.6 36.7 69 159.1 56.9 29 215.6 77.1 89 272.1 97.4 49 46.1 16.5 09 102.6 36.7 69 159.1 56.9 29 215.6 77.1 89 272.1 97.4 49 46.1 16.5 09 102.6 36.7 69 159.1 56.9 29 215.6 77.1 89 272.1 97.4 50 47.1 16.8 10 103.6 37.1 70 160.1 57.3 30 216.6 77.1 89 272.1 97.7 55 49.0 17.5 11 104.5 37.4 171 161.0 57.6 231 217.5 77.8 291 274.9 98.0 52 49.0 17.5 12 105.5 37.7 72 161.9 57.9 32 211.8 78.8 92.2 174.9 98.4 50 47.1 16.8 10 103.6 37.1 70 160.1 57.3 30 216.6 77.1 89 272.1 97.7 54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 274.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.7 54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 274.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.7 54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 274.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 32 213.7 76.8 89 272.1 99.4 55 54.6 19.5 18 111.1 39.8 78.8 78.8 167.6 60.0 38 221.1 79.5 79.5 92.7 79.6 100.1 58.5 56.5 20.2 20 113.0 40.4 80 168.5	33							144. 1	51.5		200.5		73		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		32.0	11.5			31.7		145.0					74		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				95	89.4	32.0		145. 9	52. 2		202.4	72.4	75	258. 9	92.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						32.3					203.4		76		93.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		34.8	12.5		91.3	32.7		147.8	52.9		204.3		77	260.8	93.3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								140. 5					78	201.7	93.7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		37. 7			94. 2	33. 7								263 6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								151.6		221					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	42	39.5	14.1	02	96.0	34.4	62	152.5	54.6	22	209.0	74.8	82	265.5	95. 0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			14.5			34.7		153. 5		23		75.1		266.5	95, 3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		41.4	14.8			35.0		154. 4	55.2	24		75.5			95. 7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		42.4	15. Z			35.4		156.4	55.6	25	211.8				96.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			15. 8			36.0	67	157 9	56.3	20	213. 7	76.5		270.9	96.4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			16. 2					158, 2		28	214.7				97. 0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	49	46.1	16.5	09	102.6	36.7	69	159. 1	56.9	29	215.6	77.1	89	272. 1	97.4
53 49.9 17.9 13 106.4 38.1 73 162.9 58.3 33 219.4 78.5 89 275.9 98.7 54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 276.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.4 56 52.7 18.9 16 109.2 39.1 76 165.7 59.3 36 222.2 79.5 96 278.7 99.7 57 53.7 19.2 17 110.2 39.4 77 166.7 59.6 37 223.1 79.8 97 279.6 100.1 58 54.6 19.5 18 111.1 39.8 78 167.6 60.0 38 224.1 80.2 98 280.6 100.4 59 55.6 19.9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.7 60 56.5 20.2 20 113.0 40.4 80 169.5 60.6 40 226.0 80.9 300 282.5 101.1 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.			16.8												
53 49.9 17.9 13 106.4 38.1 73 162.9 58.3 33 219.4 78.5 89 275.9 98.7 54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 276.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.4 56 52.7 18.9 16 109.2 39.1 76 165.7 59.3 36 222.2 79.5 96 278.7 99.7 57 53.7 19.2 17 110.2 39.4 77 166.7 59.6 37 223.1 79.8 97 279.6 100.1 58 54.6 19.5 18 111.1 39.8 78 167.6 60.0 38 224.1 80.2 98 280.6 100.4 59 55.6 19.9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.7 60 56.5 20.2 20 113.0 40.4 80 169.5 60.6 40 226.0 80.9 300 282.5 101.1 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.			17, 2			37.4			57, 6					274.0	
54 50.8 18.2 14 107.3 38.4 74 163.8 58.6 34 220.3 78.8 94 276.8 99.0 55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.4 56 52.7 18.9 16 109.2 39.1 76 165.7 59.3 36 222.2 79.5 96 278.7 99.4 57 53.7 19.2 17 110.2 39.4 77 166.7 59.6 37 223.1 79.8 97 279.6 100.1 58 54.6 19.5 18 111.1 39.8 78 167.6 60.0 38 224.1 80.2 98 290.6 100.1 59 55.6 19.9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.			17.5				72	161.9			218, 4	78.2		274.9	98.4
55 51.8 18.5 15 108.3 38.7 75 164.8 59.0 35 221.3 79.2 95 277.8 99.4 756 52.7 18.9 16 109.2 39.1 76 165.7 59.3 36 292.2 79.5 96 278.8 99.4 75 53.7 19.2 17 110.2 39.4 77 166.7 59.6 37 223.1 79.8 97 279.6 100.1 58 54.6 19.5 18 111.1 39.8 78 167.6 60.0 38 224.1 80.2 98 280.6 100.4 59 55.6 19.9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.7 60 56.5 20.2 20 113.0 40.4 80 169.5 60.6 40 226.0 80.9 300 282.5 101.1 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.			18. 2			38.4		163.8			220.3			276.8	
56 52.7 18.9 16 109.2 39.1 76 165.7 59.3 36 222.2 79.5 96 278.7 99.7 57 53.7 19.2 17 110.2 39.4 77 166.7 59.6 37 223.1 79.8 97 279.6 100.1 58 54.6 19.5 18 111.1 39.8 78 167.6 60.0 38 224.1 80.2 98 280.6 100.1 59 55.6 19.9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.7 60 56.5 20.2 20 113.0 40.4 80 169.5 60.6 40 226.0 80.9 300 282.5 101.1 Dist. Dep. Lat.							75								
57 53,7 19,2 17 110,2 39,4 77 166,7 59,6 37 223,1 79,8 97 279,6 100,1 58 54,6 19,5 18 111,1 39,8 78,7 167,6 60,0 38 224,1 80,2 98 280,6 100,4 59 55,6 19,9 19 112,0 40,1 79 168,5 60,3 39 225,0 80,5 99 281,5 100,7 60 56,5 20,2 20 113,0 40,4 80 169,5 60,6 40 226,0 80,9 300 282,5 101,1 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.	56	52.7	18.9	16	109.2	39. 1	76	165.7	59.3	36	222. 2	79.5	96	278.7	99.7
59 55,6 19,9 19 112.0 40.1 79 168.5 60.3 39 225.0 80.5 99 281.5 100.7 60 56,5 20.2 20 113.0 40.4 80 169.5 60.6 40 226.0 80.9 300 282.5 101.1 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.			19. 2		110.2		77	166.7	59.6	37				279.6	
60 56,5 20,2 20 113,0 40,4 80 169,5 60,6 40 226,0 80,9 300 282,5 101,1 Dist. Dep. Lat. Dist. Dep. Dep.												80.2			
Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. List. Dist. Dep. Lat. Dist. Dep. Lat.					112.0							80.5			
	00	30, 3	20.2	20	115.0	40.4	70	100.0	30, 0	10	220.0	10.0	300	202, 0	101.1
ENE. ‡ E. ESE. ‡ E. WNW. † W. WSW. ‡ W. [For 6] Points.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
		ENE. }	E.	ŀ	ESE. 1 1	E.	V	YNW. }	W.	١	VSW. 4	W.	[F	or 61 Pc	ints.

Page 522]

TABLE 1.

Difference of Latitude and Departure for 2 Points.

		NN	E.		NI	W.		S	SE.		SS	W.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.4	61	56. 4	23. 3	121	111.8	46. 3	181	167. 2	69.3	241	222. 7	92, 2
2	1.8	0.8	62	57.3	23.7	22	112.7	46.7	82	168.1	69.6	42	223.6	92.6
3	2.8	1.1	63	58. 2	24. 1	23	113.6	47.1	83	169.1	70.0	43	224.5	93.0
4 5	3.7 4.6	1.5 1.9	64 65	59, 1 60, 1	$24.5 \\ 24.9$	$\frac{24}{25}$	114.6 115.5	47.5 47.8	84 85	170.0 170.9	$70.4 \\ 70.8$	44	225. 4 226. 4	93. 4 93. 8
6	5.5	2.3	66	61.0	25.3	$\frac{26}{26}$	116. 4	48. 2	86	171.8	71.2	46	227. 3	94.1
7	6.5	2.7	67	61.9	25.6	27	117.3	48.6	87	172. 8 173. 7	71.6	47	228, 2	94.5
8	7.4	3.1	68	62.8	26.0	28	118.3	49.0	88	173.7	71.9	48	229. 1	94.9
9	$\frac{8.3}{9.2}$	3.4 3.8	69 70	63.7 64.7	$\begin{bmatrix} 26.4 \\ 26.8 \end{bmatrix}$	29 30	119. 2 120. 1	49. 4 49. 7	S9 90	174.6 175.5	72.3 72.7	49 50	230. 0 231. 0	95.3 95.7
11	10. 2	4.2	$-\frac{70}{71}$	65.6	27. 2	131	121.0	50. 1	191	176.5	73.1	251	231.9	96.1
12	11. 1	4.6	72	66.5	27.6	32	122, 0	50.5	92	177.4	73. 5	52	232.8	96. 4
13	12.0	5.0	73	67.4	27.9	33	122, 9	50.9	93	178.3	73.9	53	233. 7	96.8
14	12.9	5.4	74	68. 4	28.3	34	123.8	51.3	94 95	179. 2 180. 2	74.2	54 55	234. 7 235. 6	97. 2 97. 6
15 16	13. 9 14. 8	5, 7 6, 1	75 76	69.3 70.2	$\begin{bmatrix} 28.7 \\ 29.1 \end{bmatrix}$	35 36	124.7 125.6	51.7 52.0	96	181.1	74.6 75.0	56	236.5	98.0
17	15.7	6.5	76 77	71. 1	29.5	37	126.6	52.4	97	182.0	75. 4	57	237.4	98.3
18	16.6	6.9	78	72.1	29.8	38	127.5	52.8	98	182.9	75.8	58	238.4	98.7
19	17.6	7.3	79	73.0	30.2	39	128.4	53.2	99	183.9	76. 2	59	239.3	99.1
20	18.5	7.7	80	$\frac{73.9}{71.8}$	30, 6	40	129.3	53.6	$\frac{200}{201}$	184.8	$\frac{76.5}{76.9}$	$\frac{60}{261}$	240. 2	99.5
21	19. 4 20. 3	8.0 8.4	81 82	74. 8 75. 8	$\begin{vmatrix} 31.0 \\ 31.4 \end{vmatrix}$	141 42	130.3 131.2	54.3	02	185. 7 186. 6	77.3	62	242.1	100.3
23	21. 2	8.8	83	76. 7	31.8	43	132. 1	54.7	03	187.5	77.7	63	243.0	100.6
24	22.2	9.2	84	77.6	32.1	44	133.0	55. 1	04	188.5	78.1	64	243.9	101.0
25	23. 1	9.6	85	78.5	32.5 32.9	45 46	134. 0 134. 9	55. 5 55. 9	05 06	189. 4 190. 3	78.5 78.8	65 66	244. 8 245. 8	101. 4 101. 8
26 27	24.0 24.9	9.9	86 87	79.5 80.4	33. 3	47	135, 8	56.3	07	191. 2	79. 2	67	246. 7	102. 2
28	25. 9	10.7	88	81.3	33. 7	48	136. 7	56.6	08	192.2	79.6	68	247. 6	102.6
29	26.8	11.1	89	82. 2	34, 1	49	136. 7 137. 7	57.0	09	193.1	80.0	69	248.5	102.9
30	27.7	11.5	90	_83, 1	34.4	_50_	138.6	57. 1	10	194.0	80.4	70	249.4	103.3
31 32	28. 6 29. 6	11.9 12.2	91 92	84. 1 85. 0	34. 8 35. 2	$\frac{151}{52}$	139. 5 140. 4	57. 8 58. 2	211 12	194. 9 195. 9	80. 7 81. 1	271	250. 4 251. 3	103. 7 104. 1
33	30. 5	12.6	93	85. 9	35.6	53	141.4	58.6	13	196.8	81.5	72 73 74	252.2	104.5
34	31.4	13.0	94	86.8	36.0	54	142.3	58. 9	14	197.7	81.9	74	253. 1	104.9
35	32.3	13.4	95	87.8	36. 4	55	143. 2	59.3	15	198. 6 199. 6	82.3 82.7	75 76	254. 1 255. 0	105, 2 105, 6
36 37	33. 3 34. 2	13.8	96 97	88. 7 89. 6	36. 7 37. 1	56 57	144. 1 145. 0	59.7 60.1	16 17	200.5	83. 0	77	255. 9	106.0
38	35, 1	$\frac{14.2}{14.5}$	98	90.5	37.5	58	146.0	60. 5	18	201.4	83. 4	78	256.8	106. 4
39	36, 0	14.9	99	91.5	37. 9	59	146. 9	60.8	19	202.3	83.8	79	257.8	106.8
40	37.0	15. 3	100	92.4	38.3	-60	147.8	61.2	20	203.3	84.2	80	258.7	107. 2
41 42	37. 9 38. 8	15. 7 16. 1	101 02	93, 3 94, 2	38. 7 39. 0	161 -62	148, 7 $119, 7$	61. 6 62. 0	221 22	204. 2	84. 6 85. 0	281 82	259.6 260.5	107.5 107.9
43	39.7	16.5	03	95. 2	39.4	63	150.6	62.4	23	206. 0	85.3	83	261.5	108.3
44	40.7	16.8	04	96. I	39. 8	64	151.5	62. 8	24	206.9	85, 7	84	262. 4	108.7
45	41.6	17. 2	05	97.0	-10, 2	65	152.4	63. 1	25	207. 9	86.1	85	263.3	109, 1 109, 4
46 47	$\frac{42.5}{43.4}$	17. 6 18. 0	06 07	97. 9 98. 9	40.6	66 67	153, 4 154, 3	63. 5 63. 9	26 27	208. S 209. 7	86.5	86 87	264. 2 265. 2	109.4
48	44. 3	18, 4	08	99.8	41.3	68	155, 2	64.3	28	210.6	87.3	- 88	266, 1	110.2
49	45.3	18.8	- 09	100.7	41.7	69	156.1	64.7	29	211.6	87.6	89	267. 0	110.6
_50	$-\frac{46.2}{1000}$	19, 1	_10_	101.6	42.1	70	157.1	65.1	30	212.5	_88.0_	90	267.9	111.0
51 52	47. 1 48. 0	19, 5	111	102. 6 103. 5	42.5 42.9	171 72	158, 0 158, 9	65, 4 65, 8	231 32	213. 4 214. 3	88. 4 88. 8	291 92	268, 8 269, 8	111.4 111.7
53	49.0	20. 3	13	104.4	43. 2	73	159, 8	66. 2	33	215.3	89. 2	93	270.7	112.1
54	49, 9	20.7	14	105, 3	43.6	74	160. S	66, 6	34	216.2	89.5	94	271.6	112.5
55	50. 8	21.0	15	106, 2	14.0	75	161.7	67.0	35	217. 1 218. 0	89.9	95 96	272.5 273.5	112.9 113.3
56 57	51.7 52.7	21.4 21.8	16 17	107. 2 108. 1	44.4	76 77	162, 6 163, 5	67.4	36 37	218.0	90. 5	97	274. 4	113, 3
58	53, 6	99 9	18	109, 0	45, 2	78	164.5	68, 1	38	219.9	91. 1	98	275.3	114.0
59	51.5	22, 6	19	109, 9	45, 5	79	165, 4	68, 5	39	220.8	91.5	99	276. 2	114.4
60	55, 4	23, 0	20	110.9	45.9	80	166. 3	68, 9	40	221.7	91.8	300	277.2	114.8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat,	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	ENE.			ESE.			WNW	*		WSW		[F	or 6 Poi	nts.
١.														

Difference of Latitude and Departure for 21 Points.

		NNE.	<u>‡</u> Е.		NNW	. 1 W.		SSE.	ł E.		ssw.	} W.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.4	61	55.1	26, 1	121	109.4	51.7	181	163.6	77. 4 77. 8 78. 2	241	217. 9	103.0
2	1.8	0.9	62	56. 0 57. 0	26.5	22	110.3	52.2 52.6	82	164.5	77.8	42	218.8	103.5
3	2.7	1.3	63	57.0	26.9	23	111.2	52.6	83	165.4	78.2	43	219.7	103.9
4	3.6	1.7	64	57. 9 58. 8	27.4	24 25	112. 1 113. 0	53. 0 53. 4	84 85	166.3 167.2	78, 7 79, 1	44 45	220.6 221.5	104. 3 104. 8
5	$\frac{4.5}{5.4}$	$\frac{2.1}{2.6}$	65 66	59.7	$27.8 \\ 28.2$	96	113. 9	53. 9	86	168.1	79.5	46	222.4	105. 2
6 7	6.3	3.0	67	60.6	28.6	26 27	114.8	54.3	87	169. 0	80.0	47	223.3	105.6
8	7. 2	3.4	68	61.5	29.1	28	115.7	54.7	88	169.9	80.4	48	224.2	106.0
9	6. 3 7. 2 8. 1	3.8	69	62.4	29.5	29	116.6	55, 2	89	170.9	80.8	49	225.1	106.5
10	9.0	4.3	70	63.3	29.9	30	117.5	55, 6	90	171.8	81.2	50	226.0	106. 9
11	9. 9	4.7	71	64. 2	30.4	131	118.4	56, 0	191	172.7 173.6	81.7	251	226. 9	107.3
12	10.8	5. 1	72 73 74	65. 1	30.8	32	119.3	56.4	92	173.6	82. 1 82. 5	52 53	227.8 228.7	107.7
13	11. 8 12. 7	5. 6 6. 0	73	66. 9 67. 8	31. 2 31. 6	33 34	120.2 121.1	56.9	93 94	174.5	82.0	54	229.6	108. 2 108. 6
14 15	13. 6	6.4	75	67.8	32.1	35	192 0	57.3 57.7	95	176.3	82. 9 83. 4	55	230. 5	109.0
16	14.5	6.8	76	68.7	32. 5	36	$122.0 \\ 122.9$	58.1	96	175. 4 176. 3 177. 2	83.8	56	231.4	109.5
17	15. 4	7.3	77	69.6	32. 9	37	123.8	58.6	97	178.1	84.2	57	232. 3 233. 2	109.9
18	16.3	7.3	78	70.5	32. 5 32. 9 33. 3	38	124.8	59.0	98	179.0	84.7	58	233. 2	110.3
19	17. 2	8.1	79	71.4	33.8	39	125.7	59.4	99	179.9	85.1	59	234.1 235.0	110.7
20	18.1	8.6	80	72.3	34.2	40	126, 6	59.9	200	180. 8	85. 5	60		111.2
21 22	19.0 19.9	9. 0 9. 4	81 82	73. 2 74. 1	34. 6 35. 1	141 42	127. 5 128. 4	60.3 60.7	$\frac{201}{02}$	181. 7 182. 6	85. 9 86. 4	$\frac{261}{62}$	235. 9 236. 8	111.6 112.0
23	20. 8	9, 8	83	75. 0	35. 5	43	129.3	61.1	03	183.5	86.8	63	237. 7	112.4
24	21.7	10.3	84	75. 9	35, 9	44	130. 2	61.6	04	184. 4	87.2	64	238.7 239.6	112.9
24 25	22.6	10.7	85	76.8	26.2	45	131. 1	62.0	05	185.3	87.6	65	239.6	113.3
26	23.5	11.1	-86	76. 8 77. 7	36.8	46	132.0 132.9	62.4	- 06	186.2	88.1	66	240.5	113.7
27	24. 4	11.5	87	78.6	36.8 37.2 37.6	47	132. 9	62. 4 62. 9 63. 3	07	187.1	88.5	67	241.4	114.2 114.6
28 29	25, 3 26, 2	12.0 12.4	88 89	$79.6 \\ 80.5$	38.1	48 49	133. 8 134. 7	63. 7	08 09	188. 0 188. 9	88, 9 89, 4	68 69	242, 3 243, 2	115.0
30	27. 1	12.8	90	81.4	38, 5	50	135.6	64.1	10	189.8	89. 8	70	244.1	115. 4
31	28.0	13. 3	91	82.3	38. 9	151	136.5	64.6	211	190, 7	90.2	271	245.0	115.9
32	28. 9	13. 7	92	83. 2	39.3	52	137.4	65. 0	12	191.6 192.5	90.6	72 73	245.9	116.3
33	29. 8 30. 7	14.1	93 94	$84.1 \\ 85.0$	39, 8 $40, 2$	53 54	138.3 139.2	65, 4 65, 8	13 14	192.5	91.1 91.5	74	246. 8 247. 7	116. 7 117. 2
34 35	31.6	14.5 15.0	95	85, 9	40. 6	55	140. 1	66.3	15	194.4	91.9	75	248.6	117.6
36	32.5	15.4	96	86, 8	41.0	56	141.0	66, 7	16	195. 3	92, 4	76 77	249.5	118.0
37	32.5 33.4	15.8	97	87.7	41.5	57	141.9	67.1	17	196. 2	92.8	77	250.4	118.4
38	34.4	16. 2 16. 7	98	88.6	$\frac{41.9}{42.3}$	58	142. 8 143. 7	67. 6	18	197.1	93. 2	78	251.3	118.9
39	35.3	16.7	100	89.5	42.3 42.8	59 60	143. 7 144. 6	68. 0 68. 4	19 20	198. 0 198. 9	93, 6 94, 1	79 80	252. 2 253. 1	119.3 119.7
$\frac{40}{41}$	$\frac{36.2}{37.1}$	17.1	$\frac{100}{101}$	$\frac{90.4}{91.3}$	43. 2	161	145.5	68.8	221	199.8	94, 5	281	254. 0	120, 1
42	38. 0	18.0	02	92. 2	43.6	62	146. 4	69.3	22	200.7	94.9	82	254. 9	120.6
43	38.9	18.4	03	93.1	44.0	63	147.4	69.7	23	201.6	95. 3	83	255, 8	121.0
44	39, 8	18.8	04	94.0	44.5	64	148.3	70.1	24	202.5	95.8	84	256.7	121.4
45	40.7	19, 2	05	94.9	44.9	65	149.2	70.5	25	203.4	96.2	85	257.6	121.9
46	41.6	19. 7 20. 1	06 07	95. 8 96. 7	45.3	66 67	150. 1 151. 0	71.0 71.4	26 27	204. 3 205. 2	96.6 97.1	86 87	258.5 259.4	122.3 122.7
47 48	42.5 43.4	20. 1	08	97.6	45.7 46.2	68	151.9	71.8	28	206. 1	97.5	88	260.3	123. 1
49	44. 3	21.0	09	98. 5	46, 6	69	152.8	72.3	29	207. 0	97.9	89	261.3	123, 6
50	45.2	21.4	10	99.4	47.0	70_	153. 7	$72.3 \\ 72.7$	30	207.9	98.3	90	262, 2	124.0
51	46.1	21.8	111	100.3	47.5	171	154.6	73.1	231	208. 8	98.8	291	263. 1	124.4
52	47.0	22. 2 22. 7	12	101.2	47.9	72 73	155.5	73, 5 74, 0	32 33	209, 7 210, 6	99. 2 99. 6	92 93	264. 0 264. 9	124, 8 125, 3
53 54	47. 9 48. 8	23. 1	13 14	102. 2 103. 1	48.3 48.7	7.3	156. 4 157. 3	74.4	34	211.5	100.0	94	265.8	125. 7
55	49.7	23.5	15	104.0	49, 2	75	158. 2	74.8	35	212.4	100.5	95	266.7	126.1
56	50.6	23. 9	16	104.9	49.6	74 75 76	159.1	75, 2 75, 7	- 36	212. 4 213. 3 214. 2	100.9	96	267.6	126, 6
57	51.5	24.4	17	105.8	50.0	77	160.0	75.7	37	214.2	101.3	97	268.5	127.0
58	52.4	24.8	18	106, 7	50.5	78 79	160.9	76.1	38 39	215. 1 216. 1	101. 8 102. 2	98 99	269, 4 270, 3	127. 4 127. 8
59 60	53. 3 54. 2	25. 2 25. 7	19 20	107.6	50.9	80	$\begin{vmatrix} 161.8 \\ 162.7 \end{vmatrix}$	76.5 77.0	40	217.0	102.6	300	271. 2	128.3
				10.0										
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
ZI	E. by E	. 4 E.	81	S. by E.	1 E.	ZH	. by W	. 3 W.	811	. by W	. 3 W.	[For 5} 1	oints.

Page 524]

TABLE 1.

Difference of Latitude and Departure for 2½ Points.

NNE Lat. Dep. Dist. Lat. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dist. Lat. Dep. Dist. Lat. Dist. Dist. Lat. Dep. Dist. Lat. Dist. Dist. Lat. Dist. Dist. Dist. Lat. Dist. Dist	1				Differen				-		2½ Poin				
1	1		NNE	. ½ E.		NNW	. ½ W		SSE.	½ E.		SSW.	½ W.		
$ \begin{array}{c} 2 \\ 3 \\ 2 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6$	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
$ \begin{array}{c} 2 \\ 3 \\ 2 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6$,	0.0	0.5	e1	59 0	90 0	191	106 -	57.0	101	150 6	05.9	9 (1	010.5	119 0
5 4. 4 2.4 6.5 6.7 3.3 0.2 24 100.4 58.5 84 162.3 86.7 44 215.2 115.0 6 5.3 2.8 66 58.2 31.1 26 111.1 59.4 86 164.0 87.7 46 217.0 116.0 6 5.3 2.8 66 58.2 31.1 26 111.1 59.4 86 164.0 87.7 46 217.0 116.0 8 8 7.1 3 8 68 60.0 32.1 28 112.9 60.2 88 165.8 88.6 48 218.7 116.0 4 8 7.1 3 1.0 4.2 11.0 10 8.8 4.7 70 61.7 33.0 30 114.6 61.3 80 167.6 88.6 50 20.5 117.8 116.1 11.5 5 11.8 11 9.7 5.2 71 62.6 33.5 131 11.5 61.8 19 168.4 90.0 251 221.4 118.3 11 9.7 5.2 71 62.6 33.5 131 11.5 61.8 19 168.4 90.0 251 221.4 118.3 11.5 61.7 72 63.5 33.9 32 116.4 62.2 92 192 199.3 90.5 55 222.2 118.3 11.1 11.1 11.1 11.1 11.1 11.1 11.	9					90.0	99	100.7	57.5						1110.0
5 4. 4 2.4 6.5 6.7 3.3 0.2 24 100.4 58.5 84 162.3 86.7 44 215.2 115.0 6 5.3 2.8 66 58.2 31.1 26 111.1 59.4 86 164.0 87.7 46 217.0 116.0 6 5.3 2.8 66 58.2 31.1 26 111.1 59.4 86 164.0 87.7 46 217.0 116.0 8 8 7.1 3 8 68 60.0 32.1 28 112.9 60.2 88 165.8 88.6 48 218.7 116.0 4 8 7.1 3 1.0 4.2 11.0 10 8.8 4.7 70 61.7 33.0 30 114.6 61.3 80 167.6 88.6 50 20.5 117.8 116.1 11.5 5 11.8 11 9.7 5.2 71 62.6 33.5 131 11.5 61.8 19 168.4 90.0 251 221.4 118.3 11 9.7 5.2 71 62.6 33.5 131 11.5 61.8 19 168.4 90.0 251 221.4 118.3 11.5 61.7 72 63.5 33.9 32 116.4 62.2 92 192 199.3 90.5 55 222.2 118.3 11.1 11.1 11.1 11.1 11.1 11.1 11.	3					29.7	93	108.5	58.0	83		86.3			
5	4					30. 2	51		58.5		169 3	86.7			
Fig.	5		9.4									87 9			
Fig.	6	5.3	2.8					111.1			164. 0	87. 7		217 0	
11	7	6. 2	3.3		59. 1		27	112.0	59. 9		164. 9	88. 2		217. 8	
11		7. 1	3.8		60, 0	32.1	98	112.9	60.3		165. 8	88. 6		218.7	
11		7. 9	4.2		60.9	32.5	29	113, 8	60. S		166, 7	89.1		219.6	117. 4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	8, 8	4.7	70	61.7	33.0	30	114.6	61.3	90	167. 6	89.6	50	220.5	117.8
13	11	9.7	5. 2	71	62.6	33.5	131	115, 5	61.8	191	168. 4	90.0	251	221.4	118.3
13			5.7	72	63. 5	33. 9	32	116.4	62. 2		169.3	90.5		222. 2	118.8
16		11.5	6.1	73				117.3	62.7		170. 2	91.0		223. 1	119.3
16		12.3		74				118.2	63. 2		171.1	91.5		224.0	119.7
16		13.2	7.1		66, 1	35.4					172.0	91.9		224.9	120.2
18		14. 1	7. 5	76	67. 0				64.1		172. 9	92.4		225. 8	120. 7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		15.0	8.0						64.6		173.7	92.9		226. 7	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		10.9				36, 8								221.5	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					70.0	97.7						90.8			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															
24	21				71.4	38.2					170.3	94.8			
24	92	19.4			72.0			120. 2	67.4		170.0	05.7		201.1	
25	9.1				74 1			197.0				08.9		999 9	
26					75.0										
28	26	22.0	19 3		75.8			128 8	68.8			97.1		234 6	
30	27	23. 8	12. 7		76. 7			129. 6			182.6	97.6			
30	28		13. 2		77.6		48				183.4	98.1		236. 4	126.3
30	29	25.6	13.7		78.5		49		70. 2	-09	184.3	98.5		237. 2	126.8
33 29, 1 15, 6 93 82, 0 43, 8 53 134, 9 72, 1 13 187, 8 160, 4 73 240, 8 128, 7 34 30, 0 16, 5 95 83, 8 44, 8 55 136, 7 73, 1 15 189, 6 101, 4 75 242, 5 129, 6 36 31, 7 17, 0 96 84, 7 45, 3 56 137, 6 73, 5 16 190, 5 101, 8 76 243, 4 130, 1 37 32, 6 17, 4 97 85, 5 45, 7 57 138, 5 74, 0 17 191, 4 102, 3 77 244, 3 130, 1 38 33, 5 17, 9 98 86, 4 46, 2 58 139, 3 74, 5 18 192, 3 102, 8 78 244, 3 130, 1 40 35, 3 18, 9 100 88, 2 47, 1 60 141, 1 75, 4 20 194, 0 103, 7 80 246, 9 132, 0 41 36, 2 19, 3 101 89, 1 47, 6 161 142, 0 75, 9 221 194, 0 103, 7 80 246, 9 132, 5 42 37, 0 19, 8 02 90, 0 48, 1 62 142, 9 76, 4 22 195, 8 104, 7 82 248, 7 132, 9 43 37, 9 20, 3 03 90, 8 48, 6 63 143, 8 76, 8 23 196, 7 105, 16 84 250, 5 133, 4 44 38, 8 20, 7 04 91, 7 49, 0 64 144, 6 77, 3 24 197, 6 105, 6 84 250, 5 133, 4 45 39, 7 21, 2 05 92, 6 49, 5 65 145, 5 77, 8 25 198, 4 106, 1 85 251, 3 134, 3 46 40, 6 21, 7 06 93, 5 50, 0 66 146, 4 78, 3 26 199, 3 106, 5 86 252, 2 134, 8 47 41, 5 22, 2 07 94, 4 50, 4 67 147, 3 78, 7 27 200, 2 107, 0 87 253, 1 135, 3 48 42, 3 22, 6 08 95, 2 50, 9 68 148, 2 79, 2 28 201, 1 107, 5 88 254, 0 135, 8 49 43, 2 23, 1 09 96, 1 51, 4 69 149, 0 79, 7 29 202, 0 107, 0 87 253, 1 135, 3 49 43, 2 23, 1 09 96, 1 51, 4 69 149, 0 79, 7 29 202, 0 107, 0 87 253, 1 135, 3 40 41, 2 24, 5 12 98, 8 52, 8 72 151, 7 81, 1 32 204, 6 109, 4 92 257, 5 137, 6 51 45, 0 24, 5 12 98, 8 52, 8 72 151, 7 81, 1 32 204, 6 109, 4 92 257, 5 137, 6 52 45, 9 24, 5 12	30		14.1						70.7	10		99.0			
33 29, 1 15, 6 93 82, 0 43, 8 53 134, 9 72, 1 13 187, 8 160, 4 73 240, 8 128, 7 34 30, 0 16, 5 95 83, 8 44, 8 55 136, 7 73, 1 15 189, 6 101, 4 75 242, 5 129, 6 36 31, 7 17, 0 96 84, 7 45, 3 56 137, 6 73, 5 16 190, 5 101, 8 76 243, 4 130, 1 37 32, 6 17, 4 97 85, 5 45, 7 57 138, 5 74, 0 17 191, 4 102, 3 77 244, 3 130, 1 38 33, 5 17, 9 98 86, 4 46, 2 58 139, 3 74, 5 18 192, 3 102, 8 78 244, 3 130, 1 40 35, 3 18, 9 100 88, 2 47, 1 60 141, 1 75, 4 20 194, 0 103, 7 80 246, 9 132, 0 41 36, 2 19, 3 101 89, 1 47, 6 161 142, 0 75, 9 221 194, 0 103, 7 80 246, 9 132, 5 42 37, 0 19, 8 02 90, 0 48, 1 62 142, 9 76, 4 22 195, 8 104, 7 82 248, 7 132, 9 43 37, 9 20, 3 03 90, 8 48, 6 63 143, 8 76, 8 23 196, 7 105, 16 84 250, 5 133, 4 44 38, 8 20, 7 04 91, 7 49, 0 64 144, 6 77, 3 24 197, 6 105, 6 84 250, 5 133, 4 45 39, 7 21, 2 05 92, 6 49, 5 65 145, 5 77, 8 25 198, 4 106, 1 85 251, 3 134, 3 46 40, 6 21, 7 06 93, 5 50, 0 66 146, 4 78, 3 26 199, 3 106, 5 86 252, 2 134, 8 47 41, 5 22, 2 07 94, 4 50, 4 67 147, 3 78, 7 27 200, 2 107, 0 87 253, 1 135, 3 48 42, 3 22, 6 08 95, 2 50, 9 68 148, 2 79, 2 28 201, 1 107, 5 88 254, 0 135, 8 49 43, 2 23, 1 09 96, 1 51, 4 69 149, 0 79, 7 29 202, 0 107, 0 87 253, 1 135, 3 49 43, 2 23, 1 09 96, 1 51, 4 69 149, 0 79, 7 29 202, 0 107, 0 87 253, 1 135, 3 40 41, 2 24, 5 12 98, 8 52, 8 72 151, 7 81, 1 32 204, 6 109, 4 92 257, 5 137, 6 51 45, 0 24, 5 12 98, 8 52, 8 72 151, 7 81, 1 32 204, 6 109, 4 92 257, 5 137, 6 52 45, 9 24, 5 12	31	27. 3	14.6	91	80. 3	42.9	151	133. 2	71.2	211	186. 1	99.5	271	239.0	127.7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	32	28. 2	15. 1		81. 1	43. 4	- 52	134. 1	71.7	12	187. 0	99.9	72	239.9	128. 2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			15.6	93	82.0			134. 9	72.1	13	187. 8	100.4	73	240.8	128.7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			16.0		82. 9			135.8	72.6		188.7	100.9	74	241.6	129.2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			16.5					136. 7	73.1			101.4	75	242.5	129.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								137.6	73.5					243.4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		33. 3	17.9		86.4	40.2		139. 3	75.0			102.8			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		25 9	10.4		87.3	17 1		140.2	75.0		104.0	103. 2		240.1	131.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								142.0		99		104. 2			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								143 8	76.4	93	196.7			249.6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			20.7		91.7			144 6	77 3			105.6		250.5	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		39. 7	21. 2		92.6			145.5	77 8	25	198. 4	106, 1	85	251.3	
49, 43, 2, 23, 1, 09, 96, 1, 51, 4, 69, 149, 0, 79, 7, 29, 202, 0, 10, 9, 98, 294, 9, 136, 2, 50, 44, 1, 23, 6, 10, 97, 0, 51, 9, 70, 149, 9, 80, 1, 30, 202, 8, 108, 4, 90, 255, 8, 136, 7, 52, 45, 9, 24, 5, 12, 98, 8, 52, 8, 72, 151, 7, 81, 1, 32, 204, 6, 109, 4, 92, 257, 5, 137, 6, 53, 46, 7, 25, 0, 13, 99, 7, 53, 3, 73, 152, 6, 81, 6, 33, 205, 5, 109, 8, 93, 258, 4, 138, 1, 54, 47, 6, 25, 5, 14, 100, 5, 53, 7, 74, 153, 5, 82, 0, 34, 206, 4, 110, 3, 94, 259, 3, 138, 6, 55, 48, 5, 25, 9, 15, 101, 4, 54, 2, 75, 154, 3, 82, 5, 35, 207, 3, 111, 2, 96, 260, 2, 139, 1, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 52, 66, 17, 103, 2, 55, 2, 77, 156, 1, 83, 4, 37, 209, 0, 111, 2, 96, 261, 0, 139, 5, 56, 52, 12, 27, 3, 18, 104, 1, 55, 6, 78, 157, 0, 83, 9, 38, 209, 9, 112, 2, 98, 262, 8, 140, 5, 59, 52, 0, 27, 8, 19, 104, 9, 56, 1, 79, 157, 9, 84, 4, 39, 210, 8, 112, 7, 99, 263, 7, 140, 9, 60, 52, 9, 28, 3, 20, 20, 105, 8, 56, 6, 80, 158, 7, 84, 9, 40, 211, 7, 113, 1, 300, 264, 6, 141, 4, 2084, 30, 306, 306, 306, 306, 306, 306, 306,		40.6	21.7		93, 5	50.0		146, 4	78.3	26	199.3	106.5		252, 2	134.8
49, 43, 2, 23, 1, 09, 96, 1, 51, 4, 69, 149, 0, 79, 7, 29, 202, 0, 10, 9, 98, 294, 9, 136, 2, 50, 44, 1, 23, 6, 10, 97, 0, 51, 9, 70, 149, 9, 80, 1, 30, 202, 8, 108, 4, 90, 255, 8, 136, 7, 52, 45, 9, 24, 5, 12, 98, 8, 52, 8, 72, 151, 7, 81, 1, 32, 204, 6, 109, 4, 92, 257, 5, 137, 6, 53, 46, 7, 25, 0, 13, 99, 7, 53, 3, 73, 152, 6, 81, 6, 33, 205, 5, 109, 8, 93, 258, 4, 138, 1, 54, 47, 6, 25, 5, 14, 100, 5, 53, 7, 74, 153, 5, 82, 0, 34, 206, 4, 110, 3, 94, 259, 3, 138, 6, 55, 48, 5, 25, 9, 15, 101, 4, 54, 2, 75, 154, 3, 82, 5, 35, 207, 3, 111, 2, 96, 260, 2, 139, 1, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 52, 66, 17, 103, 2, 55, 2, 77, 156, 1, 83, 4, 37, 209, 0, 111, 2, 96, 261, 0, 139, 5, 56, 52, 12, 27, 3, 18, 104, 1, 55, 6, 78, 157, 0, 83, 9, 38, 209, 9, 112, 2, 98, 262, 8, 140, 5, 59, 52, 0, 27, 8, 19, 104, 9, 56, 1, 79, 157, 9, 84, 4, 39, 210, 8, 112, 7, 99, 263, 7, 140, 9, 60, 52, 9, 28, 3, 20, 20, 105, 8, 56, 6, 80, 158, 7, 84, 9, 40, 211, 7, 113, 1, 300, 264, 6, 141, 4, 2084, 30, 306, 306, 306, 306, 306, 306, 306,		41.5	22. 2		94.4	50.4		147.3	78. 7	27	200. 2	107.0	87	253. 1	135.3
49, 43, 2, 23, 1, 09, 96, 1, 51, 4, 69, 149, 0, 79, 7, 29, 202, 0, 10, 9, 98, 294, 9, 136, 2, 50, 44, 1, 23, 6, 10, 97, 0, 51, 9, 70, 149, 9, 80, 1, 30, 202, 8, 108, 4, 90, 255, 8, 136, 7, 52, 45, 9, 24, 5, 12, 98, 8, 52, 8, 72, 151, 7, 81, 1, 32, 204, 6, 109, 4, 92, 257, 5, 137, 6, 53, 46, 7, 25, 0, 13, 99, 7, 53, 3, 73, 152, 6, 81, 6, 33, 205, 5, 109, 8, 93, 258, 4, 138, 1, 54, 47, 6, 25, 5, 14, 100, 5, 53, 7, 74, 153, 5, 82, 0, 34, 206, 4, 110, 3, 94, 259, 3, 138, 6, 55, 48, 5, 25, 9, 15, 101, 4, 54, 2, 75, 154, 3, 82, 5, 35, 207, 3, 111, 2, 96, 260, 2, 139, 1, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 49, 4, 26, 4, 16, 102, 3, 54, 7, 76, 155, 2, 83, 0, 36, 208, 1, 111, 2, 96, 261, 0, 139, 5, 56, 52, 66, 17, 103, 2, 55, 2, 77, 156, 1, 83, 4, 37, 209, 0, 111, 2, 96, 261, 0, 139, 5, 56, 52, 12, 27, 3, 18, 104, 1, 55, 6, 78, 157, 0, 83, 9, 38, 209, 9, 112, 2, 98, 262, 8, 140, 5, 59, 52, 0, 27, 8, 19, 104, 9, 56, 1, 79, 157, 9, 84, 4, 39, 210, 8, 112, 7, 99, 263, 7, 140, 9, 60, 52, 9, 28, 3, 20, 20, 105, 8, 56, 6, 80, 158, 7, 84, 9, 40, 211, 7, 113, 1, 300, 264, 6, 141, 4, 2084, 30, 306, 306, 306, 306, 306, 306, 306,		42.3	22.6		95. 2	50.9		148. 2	79. 2	28	201.1	107.5		254.0	135. 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		43. 2	23. 1			51.4		149.0	79.7		202, 0	107. 9		254. 9	136.2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$												108. 4			
53 46, 7 25, 0 13 99, 7 53, 3 73 152, 6 81, 6 33 205, 5 109, 8 9 288, 4 138, 1 54 47, 6 25, 5 14 100, 5 53, 7 74 153, 5 82, 0 34 206, 4 10, 3 94 259, 3 138, 6 55 48, 5 25, 9 15 101, 4 54, 2 75 154, 3 82, 5 35 207, 3 110, 8 95 260, 2 139, 1 56 49, 4 28, 4 16 102, 3 54, 7 76 155, 2 83, 0 36 208, 1 111, 2 96 261, 0 139, 5 57, 50, 3 26, 9 17 103, 2 55, 2 77 156, 1 83, 4 37 209, 0 111, 7 97 261, 9 140, 0 58 51, 2 7, 3 18 104, 1 55, 6 78 157, 0 83, 9 38 209, 9 112, 2 98 262, 8 140, 5 59 52, 0 27, 8 19 104, 9 56, 1 79 157, 9 84, 4 39 210, 8 112, 7 99 263, 7 140, 9 60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 20.			24. 0			52.3	171	150. 8			203. 7			256.6	137. 2
54 47. 6 25. 5 14 100.5 53. 7 74 153. 5 82. 0 34 206. 4 110. 3 94 259. 3 138. 6 55 48. 5 25. 9 15 101. 4 54. 2 75 154. 3 82. 5 35 207. 3 110. 3 94 250. 2 138. 6 208. 1 111. 2 96 261. 0 139. 5 56 49. 4 26. 9 17 103. 2 55. 2 77 156. 1 83. 4 37 208. 0 111. 7 96 261. 0 139. 5 58 51. 2 27. 8 18 104. 1 55. 6 78 157. 9 84. 4 39 210. 9 111. 2 98 262. 8 140. 9 59 52. 0 27. 8 19 104. 9 56. 1 79 157. 9 84. 4 39 210. 8 112. 7 99 263. 7 140. 9 60 52. 9 28. 3 20 105. 8 56. 6			24.5			52.8	72	151. 7			204.6				
55 48, 5 25, 9 15 101, 4 54, 2 75 154, 3 82, 5 35 207, 3 110, 8 95 260, 2 139, 1 56 49, 4 28, 4 16 102, 2 54, 7 76 155, 2 83, 0 36 208, 1 12 96 261, 0 139, 5 57 156, 1 83, 4 37 209, 0 111, 7 97 261, 9 140, 0 58 51, 2 27, 3 18 104, 1 55, 6 78 157, 0 83, 9 38 200, 0 112, 2 98 262, 8 140, 5 59 52, 0 27, 8 19 104, 9 56, 1 79 157, 9 84, 4 39 200, 9 112, 2 98 263, 7 140, 5 60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat		46. 7	25. 0			53.3	73	152.6	81.6		205.5			258.4	
56 49, 4 28, 4 16 102.3 54, 7 76 155, 2 83, 0 36 208.0 1 111, 2 96 261, 0 139, 5 57 50.3 26, 9 17 103, 2 55, 2 77 156, 1 83, 4 37 209, 0 111, 7 97 261, 9 140, 0 58 51, 2 27, 8 18 104, 1 55, 6 78 157, 0 83, 9 38 200, 9 112, 2 98 262, 8 140, 0 59 52, 0 27, 8 19 104, 9 56, 1 79 157, 9 84, 4 39 210, 8 112, 7 99 263, 7 140, 9 60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. La			25. 5						82.0		200.4			209. 3	
57 50, 3 26, 9 17 103, 2 55, 2 77 156, 1 83, 4 37 209, 0 111, 7 97 261, 9 140, 0 58 51, 2 27, 3 18 104, 1 55, 6 78 157, 0 83, 9 38 209, 9 112, 2 98 262, 8 140, 5 59 52, 0 27, 8 19 104, 9 56, 1 79 157, 9 84, 4 39 210, 8 112, 7 99 263, 7 140, 9 60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat.					101.4							110.8			
58 51, 2 27, 3 18 104, 1 55, 6 78 157, 0 83, 9 38 209, 9 112, 2 98 262, 8 140, 5 69 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 - 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat.					102.3							111 7			
60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat.					103. 2	55 B		157 0				119 9			
60 52, 9 28, 3 20 105, 8 56, 6 80 158, 7 84, 9 40 211, 7 113, 1 300 264, 6 141, 4 Dist. Dep. Lat.			27.8		104.1						210.8	112.7		263. 7	
Dist, Dep. Lat. Dist. Dep. Lat.											211.7	113. 1			
	_														
NE, by E, ½ E, SE, by E, ½ E, NW, by W, ½ W, SW, by W, ½ W, [For 5½ Points.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	N1	E. by E.	$\frac{1}{2}$ E.	SI	E. by E.	½ E.	NW	, by W.	${\scriptstyle \frac{\lambda}{2} \ W},$	sw	by W.	$\frac{3}{2}$ W.	[1	For 5½ 1	oints.

Difference of Latitude and Departure for 23 Points.

	2	NNE. 3	E.		NNW.	3 W.		SSI	E. 3 E		SS	SW. 3	W.	
Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.5	61	52.3	31.4	121	103.8	$\frac{62.2}{62.7}$	181	155.2	93. 1	241	206.7	123, 9
2	1.7	1.0	62	53. 2	31. 9	22	104.6	62.7	82	156.1	93, 61	42	207.6	124.4
3	2.6	1.5	63	54.0	32. 4	23	105.5	63. 2	83	157.0	94. 1	43	208.4	124. 9
4	3.4	2.1	64	54. 9	32.9	24	106.4	63. 7	84	157.8	94.6	44	209.3 210.1	125.4
5	4.3	2.6	65	55, 8 56, 6	33, 4 33, 9	25 26	107. 2 108. I	64.3	85 86	158.7 159.5	95, 1 95, 6	45 46	211.0	126.0 126.5
$-\frac{6}{7}$	5. 1 6. 0	3.1	66	57.5	34. 4	26	108.4	64. 8 65. 3	87	160.4	96.1	47	211. 9	127. 0
8	6.9	4.1	68	58.3	35. 0	28	109. 8	65.8	88	161.3	96. 7	48	212. 7	127.5
9	7. 7	4.6	69	59. 2	35.5	29	110.6	66.3	89	162, 1		49	213. 6	128.0
10	8.6	5.1	70	60.0	36.0	30	111.5	66.8	90	163, 0	97.2 97.7	50	214.4	128.5
11	9.4	5, 7	71	60. 9	36. 5	131	112. 4	67.3	191	163. 8	-98.2	251	215.3	129.0
12	10.3	6. 2 6. 7	72	61. 8	37. 0 37. 5	32	113. 2	67. 9	92	164. 7	98.7	52	216.1	129.6
13	11. 2	6, 7	72 73	62. 6	37.5	33	114.1	68.4	93	165.5		53	217.0	130.1
14	12.0	7.2	74	63. 5	38.0	34	114.9	68.9	94	166.4	99.2 99.7	54	217. 9	130.6
15	12.9	7. 2	75	64.3	38.6	- 35	115.8	69.4	95	167.3	100.3	55	218.7	131. 1
16	13.7	8.9	- 76	65.2	39.1	36	116.7	69. 9	- 96	168.1	100.8	56	219.6	131.6
17	14.6	8.7	77	66.0	39. 6	37	117.5	70.4	97	169.0	101.3	57	220.4	132.1
18	15.4	9,3	78	66. 9	40.1	38	118.4	70.9	98	169.8	101.8	58	221.3	132.6
19	16.3	9.8	79	67.8	40.6	39	119. 2	71.5	99	170. 7	102.3	59	222. 2 223. 0	133. 2
_20	17.2	10.3	80	68, 6	41.1	40	120.1	72.0	200	171.5	102.8	60		133. 7
21	18.0	10.8	81	69. 5	41.6	141	120.9	72.5	201	172.4	103.3	261	223. 9	134. 2
22 23	18.9	11. 3	82	70.3	42.2	42	121.8	73.0	02	173.3	103. 8	62 63	224. 7 225. 6	134. 7 135. 2
	19.7	11.8	83	$71.2 \\ 72.0$	42. 2 42. 7 43. 2	43	122. 7 123. 5	73.5	03 04	174. 1 175. 0	104. 4 104. 9	64	226. 4	135. 2
24 25	20.6 21.4	12.3 12.9	84 85	72. 9	43.7	44	$123.3 \\ 124.4$	74.0 74.5	05	175.8	105. 4	65	227.3	136. 2
26	22.3	13.4	86	73.8	44. 2	46	125. 2	75.1	-06	176.7	105. 9	66	228. 2	136. 8
27	23. 2	13. 9	87	74.6	44. 7	47	126, 1	75.6	07	177.5	106.4	67	229.0	137.3
28	24.0	14.4	88	75. 5	45. 2	48	126.9	76.1	ő8	178.4	106.9	68	229.9	137.8
29	24. 9	14.9	89	76.3	45.8	49	127.8	76.6	-09	179.3	107.4	69	230.7	138.3
30	25. 7	15.4	90	77.2	46.3	50	128.7	77.1	10	180. 1	108.0	70	231.6	138.8
31	26. 6	15. 9	91	78.1	46.8	151	129.5	77. 6	211	181.0	108.5	271	232. 4	139.3
32	27.4	16, 5	92	78.9	47.3	52	130.4	78.1	12	181.8	109.0	72 73	233. 3	139.8
33	28.3	17. 0 17. 5	-93	79.8	47.8	53	131. 2	78.7	13	182.7	109.5	73	234. 2	140. 4
34	29. 2	17.5	94	80, 6	48.3	54	132.1	79. 2 79. 7	14	183. 6	110.0	74 75	235.0	140.9
35	30.0	18.0	95	81.5	48.8	55	132.9	79.7	15	184. 4	110.5	75	235. 9	141.4
36	30. 9	18.5	96	82.3	49.4	56	133.8	80. 2 80. 7	16	185.3	111.0	76	236.7	141.9
37	31.7	19.0	97	83. 2	49.9	57	134.7	80.7	17	186.1	111.6 112.1	77 78	237. 6 238. 4	142. 4 142. 9
38 39	32. 6 33. 5	19.5	98 99	84.1 84.9	50.4	58 59	135.5 136.4	81.7	18 19	187. 0 187. 8	112.6	79	239, 3	143.4
40	34.3	20. 1	100	85.8	51.4	60	137. 2	82.3	20	188.7	113.1	80	240. 2	143.9
41	35, 2	21.1	101	86, 6	51.9	161	138.1	82.8	221	189.6	113.6	281	241.0	144.5
42	36. 0	21. 6	02	87.5	52.4	62	139. 0	83.3	22	190.4	114.1	82	241.9	145.0
43	36. 9	22. 1	03	88.3	53, 0	63	139.8	83.8	23	191. 3	114.6	83	242.7	145.5
44	37. 7	22.6	04	89. 2	53.5	64	140.7	84.3	24	192.1	115, 2	84	243.6	146.0
45	38, 6	23. 1	05	90. 1	54.0	65	141.5	84.8	25	193.0	115, 7	85	244.5	146.5
46	39, 5	23.6	-06	90.9	54.5	-66	142.4	85.3	26	193.8	116. 2 116. 7	86	245.3	147.0
47	40, 3	$\frac{24.2}{24.7}$	-07	91.8	55, 0	67	143. 2	85.9	27	194.7	116.7	87	$246.2 \\ 247.0$	147.5
48	41.2	24.7	08	92.6	55.5	68	144.1	86.4	28	195.6	117.2	- 88	247.0	148.1
49	42.0	25. 2	-09	93, 5	56.0	69	145.0	86, 9	29	196.4	117.7	89	247. 9	148.6
_50	42.9	25.7	10	94.4	56.6	70	145.8	87.4	30	197.3	118.2	90	248.7	149.1
51	43.7	26. 2 26. 7	111	95, 2	57.1	171	146. 7	87.9	231	198.1	118.8	291	249.6	149.6
52	44.6	26.7	12	96.1	57.6	72	147.5	88.4	32	199. 0	119.3		250, 5	150.1
53	45.5	27. 2	13	96.9	58.1	73	148.4	88.9	33	199. 9 200. 7	119, 8	93	251.3 252.2	150, 6 151, 1
54 55	46.3	27. 8 28. 3	14 15	97. 8 98. 6	58, 6 59, 1	74 75	149. 2 150. 1	89.5	34	200.7	120.3 120.8	95	253, 0	151. 7
- 56 - 56	48.0	28.8	16	99.5	59, 6	76	151. 0	90.5	36	202. 4	121.3	96	253, 9	152. 2
57	48.9	29.3	17	100, 4	60. 2	77	151.8	91. 0	37	203. 3	121.8	97	254.7	152. 7
58	49.7	29.8	18	101.2	60, 2 60, 7	77 78	152, 7	91.5	38	204. 1	122. 4	98	255, 6	153. 2
59	50, 6	30. 3	19	102. 1	61. 2	79	153.5	92.0	39	205. 0	122. 9	99	256, 5	153. 2 153. 7
60	51.5	30.8	20	102.9	61. 2 61. 7	80	154.4	92.5	40	205.9	123. 4	300	257.3	154. 2
	1													
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
N	E. by E	. 1 E.	81	E, by E	. ‡ E.	NW	, by W	. ‡ W.	SW	', by W.	1 W.	[Fe	ir 5‡ Poi	nts.

Page 526]

TABLE 1.

Difference of Latitude and Departure for 3 Points.

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	241 42 43 44 45 46 47 48 49 251 52 53 54 55 56 57	200. 4 201. 2 202. 9 202. 9 203. 7 204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	Dep. 133. 9 134. 4 135. 0 135. 6 136. 1 136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	42 43 44 45 46 47 48 49 50 251 52 53 54 55 56	201. 2 202. 0 202. 9 203. 7 204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	134. 4 135. 0 135. 6 136. 1 136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	43 44 45 46 47 48 49 50 251 52 53 54 55 56	202. 0 202. 9 203. 7 204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	135. 0 135. 6 136. 1 136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	44 45 46 47 48 49 50 251 52 53 54 55 56	202. 9 203. 7 204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	135. 6 136. 1 136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	45 46 47 48 49 50 251 52 53 54 55 56 57	203. 7 204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	136. 1 136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	46 47 48 49 50 251 52 53 54 55 56 57	204. 5 205. 4 206. 2 207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	136. 7 137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	47 48 49 50 251 52 53 54 55 56 57	205 4 206, 2 207, 0 207, 9 208, 7 209, 5 210, 4 211, 2	137. 2 137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	48 49 50 251 52 53 54 55 56 57	206, 2 207, 0 207, 9 208, 7 209, 5 210, 4 211, 2	137. 8 138. 3 138. 9 139. 4 140. 0 140. 6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	49 50 251 52 53 54 55 56 57	207. 0 207. 9 208. 7 209. 5 210. 4 211. 2	138. 3 138. 9 139. 4 140. 0 140. 6
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	251 52 53 54 55 56 57	208. 7 209. 5 210. 4 211. 2	139. 4 140. 0 140. 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	52 53 54 55 56 57	209. 5 210. 4 211. 2	140. 0 140. 6
13 10.8 7.2 73 60.7 40.6 33 110.6 73.9 93 160.5 107.2 14 11.6 7.8 74 61.5 41.1 34 111.4 74.4 94 161.3 107.8	53 54 55 56 57	$210.4 \\ 211.2$	140.6
14 11.6 7.8 74 61.5 41.1 34 111.4 74.4 94 161.3 107.8	54 55 56 57	211.2	
	55 56 57		
	56 57		141.1
15 12.5 8.3 75 62.4 41.7 35 112.2 75.0 95 162.1 108.3 16 13.3 8.9 76 63.2 42.2 36 113.1 75.6 96 163.0 108.9	57	212.0	141.7
		212.9 213.7	142. 2 142. 8
17 14.1 9.4 77 64.0 42.8 37 113.9 76.1 97 163.8 109.4 18 15.0 10.0 78 64.9 43.3 38 114.7 76.7 98 164.6 110.0		214, 5	143.3
19 15.8 10.6 79 65.7 43.9 39 115.6 77.2 99 165.5 110.6	59	215. 4	143. 9
20 16.6 11.1 80 66.5 44.4 40 116.4 77.8 200 166.3 111.1	60	216. 2	144. 4
	261		145.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	62	217. 0 217. 8	145.6
23 19.1 12.8 83 69.0 46.1 43 118.9 79.4 03 168.8 112.8	63	218.7	146.1
24 20.0 13.3 84 69.8 46.7 44 119.7 80.0 04 169.6 113.3	64	219.5	146.7
25 20.8 13.9 85 70.7 47.2 45 120.6 80.6 05 170.5 113.9	65	220, 3	147.2
26 21.6 14.4 86 71.5 47.8 46 121.4 81.1 06 171.3 114.4	66	221.2	147.8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	67	222.0	148.3
28 23.3 15.6 88 73.2 48.9 48 123.1 82.2 08 172.9 115.6	68	222. 8 223. 7	148.9
29 24.1 16.1 89 74.0 49.4 49 123.9 82.8 09 173.8 116.1 30 24.9 16.7 90 74.8 50.0 50 124.7 83.3 10 174.6 116.7	69 70	223. 4	149.4 150.0
	271	225.3	150.6
31 25.8 17.2 91 75.7 50.6 151 125.6 83.9 211 175.4 117.2 32 26.6 17.8 92 76.5 51.1 52 126.4 84.4 12 176.3 117.8	271	226, 2	151.1
32 26.6 17.8 92 76.5 51.1 52 126.4 84.4 12 176.3 117.8 33 27.4 18.3 93 77.3 51.7 53 127.2 85.0 13 177.1 118.3 34 28.3 18.9 94 78.2 52.2 54 128.0 85.6 14 177.9 118.9	72 73	227.0	151.7
34 28.3 18.9 94 78.2 52.2 54 128.0 85.6 14 177.9 118.9	74	227.8	152. 2
35 29.1 19.4 95 79.0 52.8 55 128.9 86.1 15 178.8 119.4	75	228.7	152.8
36 29.9 20.0 96 79.8 53.3 56 129.7 86.7 16 179.6 120.0	76 77	229.5	153.3
37 30.8 20.6 97 80.7 53.9 57 130.5 87.2 17 180.4 120.6	77	230.3	153.9
38 31.6 21.1 98 81.5 54.4 58 131.4 87.8 18 181.3 121.1	78	231.1	154. 4
39 32.4 21.7 99 82.3 55.0 59 132.2 88.3 19 182.1 121.7	79	232.0	155.0
40 33.3 22.2 100 83.1 55.6 60 133.0 88.9 20 182.9 122.2	_80	232.8	155.6
41 34.1 22.8 101 84.0 56.1 161 133.9 89.4 221 183.8 122.8	281	233.6	156. 1
42 34.9 23.3 02 84.8 56.7 62 134.7 90.0 22 184.6 123.3 43 35.8 23.9 03 85.6 57.2 63 135.5 90.6 23 185.4 123.9	82 83	234.5 235.3	156. 7 157. 2
43 35,8 23,9 03 85,6 57,2 63 135,5 90,6 23 185,4 123,9 44 36,6 24,4 04 86,5 57,8 64 136,4 91,1 24 186,2 124,4	84	236.1	157. 8
45 37. 4 25. 0 05 87. 3 58. 3 65 137. 2 91. 7 25 187. 1 125. 0	85	237. 0	158.3
46 38.2 25.6 06 88.1 58.9 66 138.0 92.2 26 187.9 125.6	86	237. 8	158.9
47 39.1 26.1 07 89.0 59.4 67 138.9 92.8 27 188.7 126.1	87	238.6	159.4
48 39, 9 26, 7 08 89, 8 60, 0 68 139, 7 93, 3 28 189, 6 126, 7	88	239. 5	160.0
49 40.7 27.2 09 90.6 60.6 69 140.5 93.9 29 190.4 127.2	89	240.3	160.6
50 41.6 27.8 10 91.5 61.1 70 141.3 94.4 30 191.2 127.8	90	241, 1	161.1
51 42.4 28.3 111 92.3 61.7 171 142.2 95.0 231 192.1 128.3	291	242.0	161.7
52 43. 2 28. 9 12 93. 1 62. 2 72 143. 0 95. 6 32 192. 9 128. 9	92	242.8	162. 2
53 44.1 29.4 13 94.0 62.8 73 143.8 96.1 33 193.7 129.4 54 44.9 30.0 14 94.8 63.3 74 144.7 96.7 34 194.6 130.0	93 94	243. 6 244. 5	162. 8 163. 3
54 44.9 30.0 14 94.8 63.3 74 144.7 96.7 34 194.6 130.0 55 45.7 30.6 15 95.6 63.9 75 145.5 97.2 35 195.4 130.6	95	245.3	163. 3
56 46,6 31,1 16 96,5 64,4 76 146,3 97,8 36 196,2 131,1	96	246.1	164. 4
57 47.4 31.7 17 97.3 65.0 77 147.2 98.3 37 197.1 131.7	97	246. 9	165.0
58 48.2 32.2 18 98.1 65.6 78 148.0 98.9 38 197.9 132.2	98	247.8	165.6
59 49.1 32.8 19 98.9 66.1 79 148.8 99.4 39 198.7 132.8	99	218, 6	166.1
60 49.9 33.3 20 99.8 66.7 80 149.7 100.0 40 199.6 133.3	300	249. 4	166. 7
Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.	Dist.	Lep.	Lat.
NE, by E. SE, by E. NW, by W. SW, by W.	[F	or 5 Poi	nts.

Difference of Latitude and Departure for 31 Points.

	N	VE. 3 N		инеген	NW.		ie and 1	-	E. § S			sw.	₹ S.	
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.8	0.6	61	49.0	36, 3	121	97.2	72. 1 72. 7 73. 3	181	145.4	107. 8	241	195.6	143, 6
2	1.6	1.2	62	49.8	36, 9	22	98.0	72.7	82	146. 2	108.4	42	194.4	144. 2
3	2.4	1.8	63	50.6	37.5	23	98, 8	73.3	83	147.0	109.0	43	195. 2	144.8
4	3. 2 4. 0	2.4 3.0	64 65	51.4 52.2	38. 1 38. 7	24 25	99. 6 100. 4	73.9 74.5	84 85	147. 8 148. 6	109. 6 110. 2	44 45	196.0 196.8	145. 4 145. 9
5 6	4. 0	3, 6	66	53. 0	39.3	26	101. 2	75.1	86	149.4	110.8	46	197.6	146.5
7	5, 6	4, 2	67	53. 8	39.9	27	102.0	75, 1 75, 7	87	150. 2	111.4	47	198.4	147. 1
8	6.4	4.8	68	54.6	40.5	28	102.8	76.2	88	151.0	112.0	48	199.2	147.7
9	7.2	5.4	69	55. 4	41.1	29	103.6	76.8	89	151.8	112.6	49	200, 0	148.3
10	8, 0	6.0	70	56.2	41.7	30	104.4	77.4	90	152, 6	113. 2	50	200.8	148.9
11	8,8	6, 6	71	57. v	42.3	131	105.2	78.0	191	153.4	113.8	251	201.6	149.5
12	9.6	7.1	72	57.8	42.9	32	106.0	78.6	92	154.2	114.4	52	202.4	150.1
13	10.4	7.7	73	58.6	43.5	33	106.8	79. 2	- 93	155, 0	115, 0	53	203, 2	150.7
14	11. 2	8, 3	74	59.4	44.1	34	107.6	79.8	94	155.8	115, 6	54	204.0	151.3
15	12.0 12.9	8, 9 9, 5	75 76	60. 2 61. 0	44.7 45.3	35 36	108. 4 109. 2	80.4 81.0	95 96	156. 6 157. 4	116. 2 116. 8	55 56	204. 8 205. 6	151. 9 152, 5
16 17	13.7	10.1	77	61.8	45. 9	37	110.0	81.6	97	158. 2	117.4	57	206.4	153.1
18	14.5	10.7	78	62. 7	46.5	38	110.8	82. 2	98.	159.0	117.9	58	207. 2	153. 7
19	15. 3	10.7 11.3	79	63. 5	47.1	39	111.6	82.8	99	159.8	118.5	59	208.0	153.7 154.3
20	16.1	11.9	80	64.3	47.7	40	112.4	83.4	200	160.6	119.1	60	208.8	154.9
21 22	16.9	19.5	81	65.1	48.3	141	113.3	84.0	201	161 4	119.7	261	209.6	155.5
22	17. 7 18. 5	13. 1	82	65, 9	48.8	42	114.1	84. 6 85. 2	02	162. 2 163. 1 163. 9	120.3	62	210.4	156.1
23	18.5	13.7	83	66. 7 67. 5	49.4	43	114.9	85. 2	03	163.1	120.9	63	$211.2 \\ 212.0$	156. 7
24	19.3	14.3	84	67.5	50.0	44	115. 7	85.8	04	163.9	121.5	64	212.0	156. 7 157. 3 157. 9
25	20. 1	14.9	85	68.3	50.6	45	116.5	86.4	05	164.7	122.1	65	212.8	157.9
26	20. 9	15.5	86	69.1	51.2	46	117.3	87.0	06	165.5	122.7	66	213.7	158.5
27 28	21. 7 22. 5	16. 1 16. 7	87 88	69. 9 70. 7	51. 8 52. 4	47 48	118. 1 118. 9	87.6 88.2	07 08	166.3 167.1	123. 3 123. 9	67 68	214.5 215.3	159. 1 159. 6
29	23.3	17.3	89	71.5	53. 0	49	119.7	88.8	09	167.9	124.5	69	216. 1	160. 2
30	24, 1	17.9	90	72.3	53.6	50	120.5	89.4	10	168.7	125. 1	70	216.9	160. 8
31	24. 9	18, 5	91	73.1	54. 2	151	121.3	90.0	211	169.5	125.7	271	217.7	161. 4
32	25. 7	19.1	92	73.9	54.8	52	199 1	90.5	12	170.3	126.3	72	218.5	162.0
33	26.5	19.7	93	74.7	55.4	53	122. 9	91.1	13	171.1	126.9	73	219.3	162.6
34	27.3	20.3	94	75.5	56.0	54	123.7	91.7	14	171.9	127.5	74	220.1	163. 2
35	28.1	20.8	95	76.3 77.1	56. 6 57. 2 57. 8	55	124. 5 125. 3	92.3	15	172. 7 173. 5	128.1	75	220.9	163.8
36	28. 9	21. 4 22. 0	96	77.1	57.2	56	125.3	92.9	16	173.5	128.7	76 77	221.7	164.4
37 38	29. 7 30. 5	22.6	97 98	77. 9 78. 7	58.4	57 58	126. 1 126. 9	93.5 94.1	17 18	174.3 175.1	129.3 129.9	78	222. 5 223. 3	165. 0 165. 6
39	31.3	23. 2	99	79.5	59.0	59	127.7	94.7	19	175. 9	130.5	79	224.1	166. 2
40	32. 1	23. 8	100	80. 3	59.6	60	128.5	95. 3	20	176.7	131.1	80	224. 9	166.8
41	32. 9	24. 4	101	81. 1	60. 2	161	129.3	95.9		177.5	131.6	281	225. 7	167.4
42	33. 7	25.0	02	81. 9	60.8	62	130. 1	96.5	$\frac{221}{22}$	178.3	132. 2	82	226. 5	168.0
43	34.5	25.6	03	82.7	61.4	63	130.9	97.1	23	179.1	132.8	83	227.3	168.6
44	35. 3	26. 2	04	83.5	62.0	64	131.7	97.7	24	179.9	133.4	84	228.1	169.2
45	36.1	26, 8	05	84.3	62.5	65	132.5	98.3	25	180.7	134.0	85	228. 9	169.8
46	36. 9	27.4	06	85.1	63. 1	66	133.3	98. 9	26	181.5	134.6	86	229. 7	170.4
47 48	37. 8 38. 6	28.0	07 08	85. 9	63.7	67 68	134.1 134.9	99.5 100.1	27 28	182. 3 183. 1	135. 2 135. 8	87 88	230. 5 231. 3	171.0
48	38.6	28, 6 29, 2	08	86. 7 87. 5	64.3 64.9	69	134.9	100.1	28 29	183. 1	136. 4	88	231.3	171.6 172.2
50	40. 2	29.8	10	88.4	65.5	70	136.5	101.3	30	184.7	137. 0	90	232. 9	172.8
$\frac{-50}{51}$	41.0	30. 4	111	89. 2	66. 1	171	137.3	101.9	231	185.5	137.6	291	233. 7	173.3
52	41.8	31.0	12	90.0	66. 7	72	138. 2	102.5	32	186.3	138. 2	92	234. 5	173.9
53	42.6	31.6	13	90.8	66. 7 67. 3 67. 9	72 73	139.0	103.1	- 33	186.3 187.1	138.8	93	235.3	174.5
54	43.4	32. 2	14	91.6	67.9	74	139.8	103.7	34	188.0	139. 4	94	236. 1	175.1
55	44.2	32.8	15	92.4	68.5	75	140.6	104. 2	35	188.8	140.0	95	236. 9	175. 7
56	45.0	33, 4	16	93. 2	69.1	76	141.4	104.8	36	189.6	140.6	96	237.7	176.3
57	45.8	34.0	17	94.0	69.7	77	142.2	105. 4	37	190.4	141.2	97	238.6	176.9
58 59	46.6 47.4	34, 6 35, 1	18 19	94. 8 95. 6	70.3 70.9	78 79	143. 0 143. 8	106. 0 106. 6	38 39	191. 2 192. 0	141.8 142.4	98 99	239. 4 240. 2	177.5 178.1
60	48.2	35.7	20	96.4	71.5	80	144.6	107. 2	40	192. 8	143.0	300	241.0	178.7
1 00	10.2	35.1	l -~			"	111.0			102.0	1	000	2.11.0	1,0,,,
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	NE. 3	E.		SE. 3 E		N	W. 3 W.		SW	. 3 W.		[F	or 43 Pe	ints.

Page 528]

TABLE 1.

Difference of Latitude and Departure for 3½ Points.

		NE.		Differen		atitude and Departure for 3½ Points. .½ N. SE.½ S. SW.½ S.								
Dist.	Lat.	Dep.	Dist.	Lat.	Dep	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
<u> </u>		0.0	-01	47. 2	38. 7	101	93, 5	-0.0	181	139, 9	114.8	241	100.0	152, 9
$\frac{1}{2}$	0.8 1.5	0, 6 1, 3	61 62	47. 9	39, 3	121 22	94.3	76.8 77.4	82	140.7	115.5	42	186.3 187.1	153. 5
3	2. 3	1.9	63	48.7	40.0	23	95. 1	78. 0	83	141.5	116.1	43	187.8	154. 2
4	3. 1	2.5	64	49. 5	40.6	24	95. 9	78.7	84	142. 2	116.7	44	188, 6	154. 8
5	3. 9	2. 5 3. 2	65	50, 2	41.2	25	96.6	79.3	85	143.0	117.4	45	189.4	155, 4
6	4.6	3, 8	66	51.0	41.9	26	97.4	79.9	86	143.8	118.0	46	190. 2	156. 1
7	5.4	4.4	67	51.8	42.5	27	98. 2	80.6	87	144.6	118.6	47	190. 9	156.7
8 9	6. 2 7. 0	5. 1	68 69	52. 6 53. 3	43, 1 43, 8	28 29	98. 9 99. 7	81. 2 81. 8	88 89	145.3 146.1	119.3 119.9	48 49	191. 7 192. 5	157. 3 158. 0
10 :	7.7	5. 7 6. 3	70	54.1	44.4	30	100.5	82.5	90	146. 1	120.5	50	193.3	158.6
11	8.5	7.0	71	54. 9	45.0	131	101.3	83. 1	191	147. 6	121. 2	251		159.2
12	9.3	7.6	72	55.7	45.7	32	102.0	83.7	92	148.4	121.8	52	194.8	159. 9
13	10.0	8, 2	73	56.4	46.3	- 33	102.8	84.4	- 93	149. 2	122.4	53	195.6	160.5
14	10.8	8.9	74	57. 2	46.9	34	103.6	85.0	94	150.0	123.1	54	196.3	161.1
15	11.6	9.5	75	58. 0	47.6	35 36	104. 4 105. 1	85.6	95 96	150.7 151.5	123.7 124.3	55 56	197. 1 197. 9	161.8
16 17	12. 4 13. 1	10. 2 10. 8	76 77	58. 7 59. 5	48. 2 48. 8	37	105. 1	86. 3 86. 9	97	152.3	125. 0	57	197. 9	162.4 163.0
18	13. 9	11.4	78	60. 3	49.5	38	106. 7	87.5	98	153. 1	125. 6	58	199. 4	163. 7
19	14.7	12.1	79	61.1	50.1	39	107.4	88. 2	99	153.8	126. 2	59	200.2	164.3
20	15.5	12. 7	80	_61.8	50.8	40	108.2	88.8	200	154. 6	126, 9	60	201.0	164. 9
21	16, 2	13. 3	81	62. 6 63. 4	51.4	141	109.0	89. 4	201	155.4	127.5	261		165. 6
22	17.0	14.0	82	63, 4	52. 0 52. 7	42	109.8	90.1	02	156. 1 156. 9	128. 1 128. 8	62 63	202. 5 203. 3	166. 2
23 24	17. 8 18. 6	14. 6 15. 2	83 84	64. 2 64. 9	53. 3	43 44	110.5 111.3	91.4	04	157. 7	129.4	64	203.3	166. 8 167. 5
25	19. 3	15. 9	85	65. 7	53. 9	45	112.1	92.0	05	158.5	130. 1	65	204.8	168. 1
26	20. 1	16.5	86	66. 5	54.6	46	112.9	92.6	06	159. 2	130. 7	66	205.6	168. 7
27	20.9	17.1	87	67.3	55, 2	47	113.6	93.3	07	160.0	131.3	67	206.4	169.4
28	21.6	17.8	88	68.0	55.8	48	114.4	93.9	08	160.8	132.0	68	207. 2	170.0
29	22.4	18.4	89	68.8	56, 5	49	115.2	94.5	09	161.6	132.6	69 70	207. 9	170.7
30	23. 2	19.0	90	69.6	57.1	$-\frac{50}{151}$	116.0	95. 2	10	162.3	133. 2		208.7	171.3
31 32	24.0 24.7	19.7 20.3	91 92	70.3 71.1	57. 7 58. 4	$\frac{151}{52}$	116. 7 117. 5	95. 8 96. 4	211 12	163. 1 163. 9	133. 9 134. 5	271	210.3	171.9 172.6
33	25. 5	20. 9	93	71.9	59.0	53	118.3	97.1	13	164.7	135. 1	72 73 74 75 76 77 78	211.0	173. 2
34	26. 3	21.6	94	72.7	59.6	54	119.0	97, 7	14	165 4	135. 8	74	211.8	173, 8
35	27.1	22. 2 22. 8	95	72. 7 73. 4	60.3	55	119.8	98.3	15	166.2	136. 4	75	212. 6 213. 4	174.5
36	27.8	22.8	96	74. 2	60.9	56	120.6	99, 0	16	166. 2 167. 0 167. 7	137. 0 137. 7	76	213.4	175. 1
37	28.6	23.5	97	75. 0	61.5	57	121.4	99, 6	17 18	167.7	137.7	77	214. 1 214. 9	175. 7 176. 4
38 39	29. 4 30. 1	24.1 24.7	98 99	75. 8 76. 5	62. 2 62. 8	58 59	122. 1 122. 9	100.2 100.9	19	169.3	138.3 138.9	79	215. 7	177. 0
40	30. 9	25. 4	100	77.3	63. 4	60	123. 7	101.5	20	170.1	139.6		216.4	177.6
41	31.7	26, 0	101	78.1	64. 1	161	124.5	102. 1	221 22 23	170.8	140. 2 140. 8	281	217. 2	178.3
42	32.5	26, 6	02	78.8	64.7	62	125, 2	102.8	22	171.6	140.8	82	218.0	178.9
43	33. 2	27.3	-03	79.6	65.3	63	126. 0	103.4	23	172.4	141.5	- 83	218.8	179, 5
44	34.0	27. 9	04	80.4	66.0	64	126.8	104.0	24 25	173. 2	142. 1 142. 7	84	219.5	180, 2
45 46	34. 8 35. 6	28. 5 29. 2	05 06	81. 2 81. 9	66. 6 67. 2	65 66	127. 5 128. 3	104. 7 105. 3	$\frac{25}{26}$	173. 9 174. 7	143. 4	85 86	220.3 221.1	180, 8 181, 4
47	36.3	29. 8	07	82.7	67. 9	67	129. 1	105, 9		175.5	144. 0	87	221.9	182, 1
48	37. 1	30, 5	08	83, 5	68.5	68	129. 9	106, 6	28	176.2	144.6	88	222.6	182, 7
49	37, 9	31. 1	- 09	84.3	69.1	-69	130. 6	$107.2 \\ 107.8$	29	177. 0 177. 8	145.3	89	223.4	183, 3
50	38.7	31.7	10	85.0	69.8	70	131.4	107.8	30	177.8	145. 9	- 90	224. 2	184.0
51 52	39, 4 40, 2	32. 4 33. 0	111	85. 8 86. 6	70. 4 71. 1	171	132. 2 133. 0	108, 5 109, 1	231 32	178.6 179.3	146.5 147.2	291 92	224. 9 225. 7	184.6 185.2
53	40.2	33, 6	12 13	86. 6	71.7	72 73	133, 0	109, 1	33	180.1	147. 8	93	226. 7	185, 9
54	41.7	34. 3	14	88.1	72.3	74	134, 5	110, 4	34	180.9	148. 4	94	227. 3	186, 5
55	42, 5	34.9	15	88, 9	73.0	75	135, 3	111.0	35	181.7	149.1	95	228.0	187.1
56	43, 3	35, 5	16	89.7	73, 6	76	136, 0	111.7	36	$182.4 \\ 183.2$	149. 7	96	228, 8	187.8
57	44.1	36, 2	17	90, 4	74. 2	77	136. 8	112.3	37	183.2	150.4	97	229.6	188, 4
58 59	44.8	36, 8	18	91. 2 92. 0	74.9	78 79	137.6	112, 9 113, 6	38 39	184. 0 184. 7	151.0 151.6	98 99	230, 4 231, 1	189, 0 189, 7
60	45, 6 46, 4	37.4	19 20	92. 0	75, 5 76, 1	80	138, 4 139, 1	114.2	40	184.7	152.3	300	231. 1	190.3
	100		ļ								1			
Dist.	Dep.	Lat.	Dist.	Dep.		Dist.			Dist.			Dist.	Dep.	Lat.
	N.B. $\frac{1}{2}$	E.		SE. § E			W. 3 W			SW. 1	W.	[F	or 43 Pe	ints.
L _													-	

				Differen	ce of I.	atitud	le and D	epartui	e for	34 Point	ta.			
	NE	E. ‡ N			NW.	ł N.			SE. }	8.		SW	. † S.	
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.7	0.7	61	45, 2	41.0	121	89.7	81.3	181	134. 1	121.6	241	178.6	161.8
$\frac{2}{3}$	$\frac{1.5}{2.2}$	1.3	62 63	45. 9 46. 7	$\frac{41.6}{42.3}$	22 23	90. 4 91. 1	81. 9 82. 6	82 83	134. 9 135. 6	122, 2 122, 9	42 43	179, 3 180, 1	162, 5 163, 2
4	3. 0	2. 0 2. 7	64	47. 4	43.0	24	91. 9	83. 3	84	136, 3	123. 6	44	180. 8	163. 9
5	3. 7	3.4	65	48. 2	43.7	25	92.6	83.9	85	137. 1	124, 2	45	181.5	164.5
6 7	4. 4 5. 2	4.0 4.7	66 67	48. 9 49. 6	44.3 45.0	26 27	93. 4 94. 1	84.6 85.3	86 87	137. 8 138, 6	124.9 125.6	46 47	182.3 183.0	165. 2 165. 9
8	5. 9	5.4	68	50.4	45.7	28	94.8	86.0	88	139, 3	126.3	48	183.8	166.5
9	6.7	6.0	69	51.1	46.3	29	95.6	86.6	89	140.0	126.9	49	184.5	167.2
$\frac{10}{11}$	$\frac{7.4}{8.2}$	6.7	70	$\frac{51.9}{52.6}$	$\frac{47.0}{47.7}$	$\frac{30}{131}$	$\frac{96.3}{97.1}$	87.3 88.0	$\frac{90}{191}$	$\frac{140.8}{141.5}$	127.6 128.3	$\frac{50}{251}$	185. 2 186. 0	167. 9 168. 6
12 13	8.9	7. 4 8. 1 8. 7	71 72 73	53. 3	48.4	32	97.8	88.6	92	142.8	128.9	52	186, 7	169.2
13	9.6	8.7	73	54.1	49.0 49.7	33	98.5	89.3 90.0	93 94	143.0	129.6 130.3	53 54	187. 5 188. 2	169. 9
14 15	10. 4 :	9.4 10.1	74 75	54. 8 55. 6	50.4	34 35	99.3 100.0	90.7	95	143.7 144.5	131.0	55	188. 9	170.3
16	11.9	10.7	76	56.3	51.0	- 36	100.8	91.3	96	145.2	131.6	56	189.7	171.9
17 18	12. 6 13. 3	11.4 $12, 1$	77 78	57.1 57.8	51.7 52.4	37 38	101.5 102.3	92. 0 92. 7	97 98	146. 0 146. 7	132.3 133.0	57 58	190. 4 191. 2	170. 6 171. 2 171. 9 172. 6 173. 3
19	14.1	12.8	79	58.5	53.1	39	103.0	93. 3	99	147.4	133.6	59	191.9	170.0
20	14.8	13.4	80	59.3	53.7	40	103. 7	94.0	200	148. 2	134.3	60	192.6	174.6
21 22	15. 6 16. 3	14. 1 14. 8	81 82	60. 0 60. 8	54. 4 55. 1	$\frac{141}{42}$	104.5 105.2	94. 7 95. 4	201 02	148. 9 149. 7	135. 0 135. 7	$\frac{261}{62}$	193. 4 194. 1	175, 3 175, 9
23	17.0	15.4	83	61.5	55.7	43	106.0	96.0	03	150, 4	136.3	63	194.9	176.6
24 25	17.8	16.1	84 85	62. 2 63. 0	56. 4 57. 1	44 45	106. 7 107. 4	96.7 97.4	04 05	151. 2 151. 9	137.0 137.7	64 65	195. 6 196. 4	177.3 178.0
26	18.5 19.3	16.8 17.5	86	63.7	57. 8	46	108. 2	98.0	06	152.6	138.3	66	197.1	178.6
26 27	20.0	18.1	87	64.5	58.4	47	108.9	98.7	07	153. 4	139.0	67	197.8	179.3
28 29	20.7 21.5	18.8 19.5	88 89	65, 2 65, 9	59.1 59.8	48 49	109.7 110.4	99.4 100.1	08 09	154, 1 154, 9	139. 7 140. 4	68 69	198.6 199.3	180. 0 180. 6
30	22. 2	20.1	90	66. 7	60.4	50	111.1	100.7	10	155, 6	141.0	70	200.1	181.3
31	23.0	20.8	91	67.4	61, 1	151	111.9	101.4	211	156.3	141.7	271	200.8	182.0
32 33	23.7 24.5	21.5 22.2	92 93	68, 2 68, 9	61.8 62.5	52 53	112.6 113.4	102. 1 102. 7	12 13	157. 1 157. 8	142. 4 143. 0	72 73	201. 5 202. 3	182.7 183.3
34	25.2	22.8	94	69, 6	63, 1	54	114.1	103.4	14	158.6	143.7	74	203.0	184.0
35 36	25, 9 26, 7	23, 5 24, 2	95 96	70. 4 71. 1	63. 8 64. 5	55 56	114.8 115.6	104.1 104.8	15 16	159.3 160.0	144. 4 145. 1	75 76	203. 8 204. 5	184. 7 185. 4
37	27.4	24.8	97	71.9	65.1	57	116, 3	105.4	17	160.8	145.7	77	205. 2	186, 0
38	28, 2 28, 9	25, 5	98	72.6	65.8	58	117. 1 117. 8	106. 1 106. 8	18 19	161.5	146. 4 147. 1	78 79	206. 0 206. 7	186.7 187.4
39 40	28. 9 29. 6	26. 2 26. 9	99 100	73. 4 74. 1	66, 5 67, 2	59 60	117.8	100. 8	20	162. 3 163. 0	147.7	80	200.7	188.0
41	30.4	27.5	$\overline{101}$	74.8	67.8	161	119.3	108.1	221	163.8	148.4	281	208.2	188.7
42 43	31. 1 31. 9	28. 2 28. 9	02	75. 6 76. 3	68.5 69.2	62 63	120. 0 120. 8	108.8 109.5	22 23	164. 5 165. 2	149.1 149.8	82 83	208.9 209.7	189.4
44	32.6	29.5	03	77. I	69.8	64	121.5	110.1	24	166.0	150.4	84	210. 4	190.7
45	33. 3	30, 2	05	77. I 77. 8	70.5	65	122. 3 123. 0	110.8	25	166.7	151.1	85	211. 2	191.4
46 47	34, 1 34, 8	30. 9 31. 6	06 07	78, 5 ° 79, 3	71. 2 71. 9	66 67	$\begin{vmatrix} 123.0 \\ 123.7 \end{vmatrix}$	111.5 112.2	$\frac{26}{27}$	167. 5 168. 2 168. 9	151.8 152.4	86 87	211. 9 212. 7	192. 1 192. 7
48	35.6	32. 2	08	80.0	72. 5 73. 2	68	124.5	112. 2 112. 8 113. 5	28	168. 9	152, 4 153, 1	88	213, 4	193.4
49 50	36. 3 37. 0	32. 9 33. 6	09 10	80. 8 81, 5	73. 2 73. 9	69 70	125. 2 126. 0	113.5 114.2	29 30	169. 7 170. 4	153. 8 154. 5	89 90	214.1 214.9	194. 1 194. 8
$\frac{-50}{51}$	37.8	34. 2	111	82. 2	74.5	171	126. 7	114. 8	231	171. 2	155. 1	291	215.6	195. 4
52	38.5	34.9	12	83.0	75. 2	72 73	127.4	115.5	32	171.9	155. 8	92	216.4	196.1
53 54	39.3 40.0	35.6 36.3	13 14	83, 7 84, 5	75. 9 76. 6	73 74	128. 2 128. 9	116, 2 116, 9	33 34	172. 6 173. 4	156, 5 157, 1	93 94	217. 1 217. 8	196. 8 197. 4
55	40.8	36, 9	15	85. 2	77.2	75	129.7	117.5	35	174.1	157.8	95	218.6	198.1
56 57	41.5 42.2	37, 6 38, 3	16 17	86, 0 86, 7	77.9 78.6	76 77	130.4	118. 2 118. 9	36 37	174. 9 175. 6	158.5 159.2	96 97	219.3	198.8 199.5
58	42.2	39.0	18	87.4	79. 2	78	131.9	119.5	-38	176.3	159.8	98	220.8	200. I
-59	43. 7	39, 6	19	88. 2	79. 9	79	132.6	120. 2	39	177.1	160.5	99	221.5	200, 8
60	44.5	40. 3	20	88, 9	so. 6	80	133. 4	120. 9	40	177.8	161. 2	300	222. 3	201.5
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	NE. } I	3.	3	E, † E.		N	W. 1 W.		S	$W_{+} = W$		[F	or 41 Pe	ints.
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Difference of Latitude and Departure for 4 Points.

J		NE		Differe:	nce of NV		ide and	repari	SE.	r 4 Poin	us.	sw.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.7	0. 7	61	43.1	43.1	121	85. 6	85.6	181	128. 0	128.0	241	170.4	170.4
2	1.4	1.4	62	43.8	43.8	22 23	86.3	86.3	82	128.7	128.7	42	171.1	171.1
3	2, 1	2.1	63	44.5	44.5	23	87.0	87.0	83	129.4	129.4	43	171.8	171.8
5	2.8 3.5	2. 8 3. 5	64	45.3 46.0	45.3 46.0	$\frac{24}{25}$	87. 7 88. 4	87.7 88.4	84 85	130. 1 130. 8	130.1 130.8	44	172.5 173.2 173.9 174.7 175.4	172.5 173.2
6	4. 2	3. 5	65 66	46.7	46.0	26	89.1	89.1	86	130.8	130.8	45 46	173.2	173.9
67	4. 9	4.9	67	47.4	46. 7 47. 4	27	89.8	89.8	87	132. 2	132.2	47	174.7	174.7
- 8	5.7	4.2 4.9 5.7	68	48.1	48, 1	27 28	90.5	90.5	88	131.5 132.2 132.9	132.9	48	175.4	175.4
9	6.4	6.4	69	48.8	48.8	29	91. 2	91.2	89	133.6	133.6	49	110.1	176.1
10	7.1	7.1	70_	49.5	49.5	_30_	91, 9	91.9	_ 90	134. 4	134.4	_50_	176, 8	176.8
11	7.8	7.8	71 72 73	50.2	50. 2	131	92.6	92.6	191	135. 1	135.1	251	177.5	177.5
12	8, 5 9, 2	8.5	72	50.0	50. 9 51. 6	32 33	93. 3 94. 0	93.3 94.0	92 93	135.8	135.8	52 53	178. 2 178. 9 179. 6	178.2 178.9
14	9. 9	9. 2 9. 9	74	51. 6 52. 3 53. 0	52.3	34	94.8	94.8	94	136.5 137.2 137.9	136.5 137.2 137.9	54	179.6	179.6
15	10.6	10.6	75	53.0	52. 3 53. 0	35	95, 5	95.5	95	137. 9	137.9	55	180.3	180.3
16	11.3	11.3	76	53. 7	53. 7	36	96. 2	96.2	-96	138.6	138.6	56	181.0	181.0
17	12.0	12.0	77	54.4	54.4	37	96. 9	96.9	97	139.3	139.3	57	181.7	181.7
18	12.7	12.7	78	55, 2	55.2	38	97.6	97.6	98	140.0	140.0	58	182.4	182.4
19 20	13.4	13, 4	79 80	55, 9 56, 6	55. 9 56. 6	39 40	98.3 99.0	98.3 99.0	200	140. 7 141. 4	140.7 141.4	59 60	183. I 183. S	183.1 183.8
	$\frac{14.1}{11.0}$	14.1	81	57.3	57.3	141	99.7	99.7	201			261	184.6	
21 22	14. 8 15. 6	14. 8 15. 6	82	58. 0	58.0	42	100.4	100.4	02	$142.1 \\ 142.8$	142.1 142.8	62	185.3	184.6 185.3
23	16. 3	16.3	83	58.7	58.7	43	101.1	101.1	03	143.5	143.5	63	186. 0	186.0
24	17.0	17.0	84	59.4	59.4	44	101.8	101.8	-04	144. 2	144.2	64	186.7	186.7
25	17.7	17.7	85	60. 1	60.1	45	102.5	102.5	05	145.0	145.0	65	187.4	187.4
26	18.4	18.4	86	60.8	60.8	46	103. 2	103.2	-06	145, 7	145.7	66	188.1	188.1
27 28	19, 1 19, 8	19.1 19.8	87 88	61.5	61.5 62.2	47 48	103. 9 104. 7	103.9 104.7	07 08	146. 4 147. 1	146.4 147.1	67 68	188, 8 189, 5	188.8 189.5
28	20, 5	20.5	89	62.2	62.2	49	105.4	105.4	09	147. 5	147.8	69	190. 2	190.2
30	21. 2	21. 2	90	62. 2 62. 9 63. 6	62. 9 63. 6	50	106.1	106.1	10	148.5	148.5	70	190. 9	190.9
31	21. 9	21.9	91	64. 3	64.3	151	106.8	106.8	211	149. 2	149.2	271	191.6	191.6
32	22, 6	22.6	92	65. 1	65.1	52	107.5	107.5	12	149.9	149.9	72 73	192.3	192.3
33	23, 3	23, 3	93	65.8	65.8	53	108.2	108.2	13	150. 6	150.6	73	193.0	193.0
34 35	24. 0 24. 7	$24.0 \\ 24.7$	94 95	66. 5 67. 2	66.5	54 55	108. 9 109. 6	108.9 109.6	14 15	151.3 152.0	151.3 152.0	74 75	193. 7 194. 5	193.7 194.5
36	25. 5	25.5	96	67. 9	67. 2 67. 9	56	110.3	110.3	16	152.0	152.7	76	195. 2	195.2
37	26, 2	26. 2	97	68.6	68.6	57	111.0	111.0	17	152, 7 153, 4	153.4	77	195. 9	195.9
38	-26.9	26.9	98	69. 3	69.3	-58	111.0 111.7	$111.7 \\ 112.4$	18	154. 1 154. 9	154.1 154.9	78	196.6	196.6
39	27.6	27.6	- 99	70.0	70.0	59	112.4	112.4	19	154.9	154.9	79	197.3	197.3
40	28.3	28, 3	100	70.7	70.7	60	113. 1	113.1	20	155.6	155.6	80	198.0	198.0
41	29. 0 29. 7	$\frac{29.0}{29.7}$	101 02	71.4	71.4	161 62	113. 8 114. 6	113.8 114.6	221 22	156.3	156.3 157.0	281 82	198. 7 199. 4	198.7 199.4
42 43	30. 4	29.7	03	72. 1 72. 8 73. 5 74. 2	72. 1 72. 8 73. 5	63	115 3	115.3	23	157. 0 157. 7	157.7	83	200.1	200.1
44	31. 1	30. 4 31. 1	04	73.5	73.5	64	116.0	116.0	24	158.4	158.4	84	200.8	200.8
45	31. 8	31.8	05	74.2	74.2	65	116.7	116.7 117.4	25 26	159. 1 159. 8	159.1	85	901.5	201.5
46	32.5	$31.8 \\ 32.5$	06	70.0	75.0	66	116. 0 116. 7 117. 4 118. 1	117.4	26	159.8	159.8	86	202.2	202.2 202.9
47	33. 2	33. 2	07	75.7	75.7	67	118.1	118.1	27	160.5	160.5	87 88	202. 2 202. 9 203. 6	202.9
48 49	33. 9 34. 6	33. 9 34. 6	08 09	76. 4 77. 1	76. 4 77. 1	68 69	118. 8 119. 5	118.8 119.5	28 29	161. 2 161. 9	161.2 161.9	89	204. 4	203.6
50	35, 4	35.4	10	77.8	77.8	70	120. 2	120.2	30	162.6	162.6	90	205. 1	205.1
51	36. 1	36. 1	111	78.5	78.5	171	190.9	120.9	231	163. 3	163.3	291	205, 8	205.8
52	36, 8	36.8	12	-79.2	79.2	72	121. 6 122. 3 123. 0	121.6 122.3	32	164.0	164.0 164.8	92	206. 5	206.5
53	37.5	37.5	13	79.9	79.9	72 73	122.3	122.3	- 33	164.8	164.8	93	207. 2 207. 9	207.2
54	38, 2	38. 2	14	80.6	80.6	74	123.0	123.0	34	165.5	165.5 166.2	94 95	207. 9 208. 6	207.9 208.6
55 56	38, 9 39, 6	38, 9 39, 6	15 16	81.3 82.0	81.3 82.0	75 76	123. 7 124. 5	123.7 124.5	35 36	166. 2 166. 9	166.2	96 96	208.6	208.6
57	40.3	40.3	17	82.7	82.7	77	125, 2	125.2	37	167.6	167.6	97	210.0	210.0
58	41.0	41.0	18	83, 4	83.4	78	125. 9	125.9	38	168.3	168.3	-98	210.7	210.7
59	41.7	41.7	19	84. 1	84.1	. 79	126.6	126.6	39	169.0	169.0	99	211.4	211.4
60	42. 4	42.4	20	84.9	84. 9	80	127.3	127.3	40	169. 7	169.7	300	212. 1	212.1
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	NE.			NW.			SE.		811			[]	For 4 Pc	ints.
			_											



Page 532]

TABLE 2.

Difference of Latitude and Departure for 1° (179°, 181°, 359°).

														-
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.0	61	61.0	1.1	121	121.0	2.1	181	181.0	3. 2	241	241.0	4, 2
	2.0	0.0	62	62. 0	1.1	22	122.0	9.1	82	182.0	3. 2	42	242.0	1.2
2 3	3.0	0. I	63	63.0	1, 1	23	123.0	2. i	83	183.0	3. 2	43	243.0	4, 2 4, 2
4	4.0	0.1	64	64.0	1, 1	24	124.0	2. 1 2. 2	84	184.0	3.2	44	244.0	4.3
5	5.0	0.1	65	65.0	1.1	25	125.0	2. 2	85	185.0	3 2	45	245.0	4.3
6	6, 0	0.1	66	66.0	1.2	26	126.0	2. 2 2. 2 2. 2	86	186.0	3 2 3. 2	46	246.0	4.3
7	7.0	0, 1	67	67.0	1.2	27	127.0	2.2	87	187.0	3.3	47	247.0	4.3
8	8.0	0.1	68	68.0	1.2	28	128.0	2. 2 2. 3	88	188.0	3.3	48	248.0	4.3
. 9	9,0	0.2	69	69.0	1.2	29	129.0	2.3	89	189.0	3.3	49	249.0	4, 3
10	10.0	0.2	70	70.0	1.2	30	130.0	2. 3	90	190.0	3.3	_ 50	250, 0	4.4
11	11.0	0.2	71	71.0	1.2	131	131.0	2.3	191	191.0	3.3	251	251.0	4.4
12	12.0	0. 2	72	72.0	1.3	32	132.0	2. 3 2. 3	92	192.0	3.4	52	252.0	4.4
13	13.0	$0.2 \\ 0.2$	73	73.0	1.3	33	133.0	2.3	93	193.0	3.4	53	253.0	4.4
14 15	14.0	0.2	74 75	74.0	1.3 1.3	34 35	134.0	2, 3 2, 4	94 95	194.0	3.4	54	254.0	4.4
16	15. 0 16. 0	0.3	$\frac{76}{76}$	75. 0 76. 0	1.3	36	135, 0 136, 0	2.4	96	195. 0 196. 0	3. 4 3. 4	55 56	255. 0 256. 0	4.5 4.5
17	17.0	0.3	77	77.0	1.3	37	137.0	2.4	97	197.0	3.4	57	257. 0	4.5
18	18.0	0.3	78	78.0	1.4	38	138.0	2.4	98	198.0	3.5	58	258.0	4.5
19	19.0	0.3	79	79.0	1.4	39	139. 0	2.4	99	199.0	3, 5	59	259.0	4.5
20	20. 0	0.3	80	80.0	1.4	40	140.0	2.4	200	200.0	3.5	60	260.0	4.5
21	21.0	0.4	81	81.0	1.4	141	141.0	9.5	201	201.0	3, 5	261	261.0	4.6
22	22.0	0.4	82	82.0	1.4	42	142.0	2.5 2.5 2.5 2.5	02	202.0	3.5	62	262.0	4.6
23	23. 0	0.4	83	83.0	1.4	43	143.0	2.5	03	203. 0	3.5	63	263. 0	4.6
24	24.0	0.4	84	84.0	1.5	44	144.0	2.5	04	204.0	3.6	64	264. 0	4.6
25	25.0	0, 4	85	85.0	1.5	45	145.0	2.5	05	205.0	3.6	65	265.0	4.6
26	26. 0	0.5	86	86, 0	1.5	46	146.0	2.5	-06	206.0	3.6	66	266.0	4.6
27	27.0	0.5	87	87.0	1.5	47	147.0	2.6	-07	207.0	3.6	67	267.0	4.7
28	28.0	0.5	88	88.0	1.5	48	148.0	$\frac{2.6}{2.6}$	08	208. 0	3.6	68	268.0	4.7
29	29.0	0.5	89	89.0	1.6	49	149.0	2.6	09	209.0	3.6	69	269.0	4.7
-30	30, 0	0.5	90	90, 0	-1.6	_50_	150.0	2.6	10	210.0	3.7	70	270.0	4.7
31	31.0	0, 5	91	91.0	1.6	151	151.0	2. 6 2. 7	211	211.0	3. 7	271	271.0	4.7
32	32, 0	0.6	92	92.0	1.6	52	152.0	2. 7 2. 7	12 13	212.0	3. 7	72	272.0	
33 34	33, 0 34, 0	0.6	93 94	93. 0 94. 0	1.6	53 54	153.0 154.0	3. 7	11	213. 0 214. 0	3. 7	73 74	273.0 274.0	4.8
35	35, 0	0, 6	95	95.0	1.7	55	155. 0	2. 7 2. 7	15	215.0	3.8	75	275.0	4.8
36	36, 0	0, 6	96	96.0	1.7	56	156, 0	2.7	16	216.0	3.8	76	276, 0	4.8
37	37. 0	0, 6	97	97.0	1.7	57	157.0	2.7	17	217.0	3.8	77	277.0	4, 8
38	38. 0	0.7	98	98.0	1.7	58	158.0	2.7	18	218.0	3, 8	78	278.0	4.9
39	39, 0	0.7	- 99	99.0	1.7	59	159.0	2,8	19	219, 0	3.8	79	279.0	4.9
40	40, 0	0.7	100	100, 0	1.7	60	160, 0	2.8	20	220, 0	3.8	80	280, 0	4.9
41	41.0	0.7	101	101.0	1.8	161	161.0	2.8	221	221.0	3.9	281	281.0	4.9
42	-42.0	0.7	02	102.0	1.8	62	162.0	2.8	22	222. 0	3.9	82	282.0	4.9
43	43.0	0.8	-03	103.0	I.S	63	163.0	2.8	23	223. 0	3. 9	83	283.0	4.9
44	44.0	0, 8	04	104.0	1.8	64	164.0	2.9	24	224. 0	3.9	84	284.0	5.0
45	45, 0	0.8	05	105.0	1.8	65	165.0	2.9 2.9	25 26	225, 0 226, 0	3.9	85	285. 0 286. 0	5. 0 5. 0
46	46, 0	0, 8	06	106, 0 107, 0	1.8 1.9	66	166, 0 167, 0	2.9	27	226.0	3, 9 4, 0	86 87	286. 0	5, 0
47 48	47.0 48.0	0, 8	07 08	107.0	1.9	67 68	168. 0	2.9	28	228, 0	1.0	88	288.0	5.0
49	48.0	0.9	09	109.0	1.9	69	169. 0	2.9	29	229.0	4.0	89	289.0	5. 0
50	50.0	0, 9	10	110.0	1.9	70	170, 0	3.0	30	230, 0	4.0	90	290, 0	5.1
51	51.0	0. 9	111	111.0	1.9	171	171.0	3.0	231	231.0	4.0	291	291.0	5, 1
52	52. 0	0. 9	112	112.0	2.0	72	172.0	3.0	32	232. 0	4.0	92	292.0	5. 1
53	53. 0	0, 9	13	113.0	2.0	72 73	173. 0	3.0	33	233. 0	4. 1	93	293, 0	5.1
54	54, 0	0, 9	14	114.0	2.0	74	174.0	3.0	34	234. 0	4.1	94	294.0	5.1
55	55, 0	1.0	15	115, 0	2.0	75	175.0	3.1	35	235. 0	4.1	95	295, 0	5.1
- 56	56, 0	1.0	16	116, 0	2.0	76	176, 0	3, 1	36	236, 0	4.1	96	296, 0	5, 2
57	57, 0	1.0	17	117.0	2, 0	77	177.0	3.1	37	237.0	4.1	97	297, 0	5. 2
58	58, 0	1,0	18	. 118, 0	2, 1	78	178.0	3. 1	38	238, 0	4.2	98	298.0	5. 2
59	59, 0	1.0	19	119.0	2.1	79	179. 0	3.1	39	239, 0	4.2	99	299, 0	5.2
60	60, 0	1.0	20	120, 0	2.1	80	180, 0	3. 1	40	240, 0	4.2	300	300, 0	5.2
Tales	Thur	T*	Tales	- Luc	Lat	Dist.	Dom	Lat	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	•	Dep.	Lat.		Dep.	Latt.	Dast.	1 Deb	LALL
						89° (1°, 269°	°, 271°).					

Difference of Latitude and Departure for 1° (179°, 181°, 359°).

			Differ	ence of l	atitud	le and	Depart	ure for	1° (1	79°, 181°	°, 359°).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	301.0	5.3	361	360. 9	6, 3	421	420. 9	7.3	481	480, 9	8.4	541	540, 9	9, 5
02	302.0	5, 3	62	361.9	6.3	22	421.9	7.4	82	481, 9	8.4	42	541, 9	9.5
03	303.0	5.3	63	362.9	6.3	23	422.9	7.4	83	482, 9	8.5	43	542.9	9.5
04	304. 0 305. 0	5.3	64	363. 9	$6.4 \\ 6.4$	24 25	423. 9 424. 9	7.4 7.4 7.4	84 85	483, 9 484, 9	8, 5	44	543. 9 544. 9	9, 5 9, 5
05 06	305.0	5.3 5.3	65	364. 9 365, 9	6.4	$\frac{25}{26}$	424.9	7.4	86	485, 9	8.5 8.5	45 46	545.9	9.5
07	307.0	5.4	67	366. 9	6.4	97	426.9	7 4	87	486, 9	8, 5	47	546. 9	9.6
08	308.0	5.4	68	367.9	6.4	28	427.9	7.4	88	487. 9	8, 6	48	547.9	9,6
09	309.0	5, 4	69	368.9	6, 4	217 8 22 29	428, 9	7.5 7.5	89	488, 9	8, 6	49	548.9	9,6
10	310, 0	5.4	70	369, 9	6, 5	30	429, 9	7. 5	90	489, 9	8, 6	50	549, 9	9, 6
311	311.0	5.4	371	370.9	6.5	431	430, 9	7. 5 7. 5 7. 6 7. 6	491	490.9	8, 6	551	550, 9	9.6
12 13	312. 0 313. 0	5.4	72 73	371.9	6.5	32	431.9	7.5	92	491.9	8.6	52	551.9	9, 6
13	313.0	5.5	73	372. 9 373. 9	6.5	33	432, 9 433, 9	7.5	98	492, 9	8.7 8.7 8.7	53	552, 9 553, 9	9.7 9.7 9.7
14 15	314.0 315.0	5. 5 5. 5	74 75	374.9	$\frac{6.5}{6.5}$	34 35	434, 9	4, 6	94 95	493, 9 494, 9	0.7	54 55	554. 9	9.7
16	316.0	5.5	76	375.9	6, 6	36	435, 9	7.6	96	495, 9	8. 7	56	555, 9	9.7
17	317.0	5.5	77	376.9	6, 6	37	436.9	7. 6	97	496. 9	8.7	57	556.9	9.7
18	318.0	5.5	78	377.9	6.6	38	437.9	7.6	98	497.9	8.7	58	557.9	9. 7 9. 7
19	319.0	5.6	79	378.9	6, 6	39	438. 9	7.7	- 99	498, 9	8.8	59	558, 9	9, 8
20	320.0	_5,6	_ 80	379. 9	6.6	40	439, 9	7.7	500	499, 9	8, 8	- 60	559.9	9.8
321	321.0	5. 6	381	380, 9	6. 7	441	440.9	7.7	501	500. 9	8.8	561	560. 9	9, 8
22 23 24 25	322.0 323.0	5, 6	82 83	381. 9 382. 9	6. 7	42	441. 9 442. 9	7. 7 7. 7 7. 7	02	501, 9 502, 9	8.8	62	561. 9 562. 9	9.8
23	324.0	5, 6 5, 6	84	383.9	6.7	43 44	442. 9	7.7	03	503. 9	8.8	63 64	563.9	9, 8 9, 8
25	325.0	5.7	85	384.9	6.7	45	444.9	7.8	05	504.9	8.8	65	564. 9	9, 9
26	326.0	5. 7	86	385. 9	6.7	46	445. 9	7.8	06	505.9	8.9	66	565.9	9, 9
27	327.0	5.7	87	386.9	6.8	47	446. 9	7.8	-07	506.9	8.9	67	566.9	9.9
28	328.0	5. 7 5. 7 5. 7 5. 7	88	387.9	6.8	48	447.9	7.8	08	507.9	8, 9	68	567. 9	9, 9
29	329.0	5.7	89	388. 9	6.8	49	448.9	7. 8 7. 8 7. 8 7. 8	09	508.9	8.9	69	568. 9	9.9
30	330.0	5.8	90	389.9	6.8	50	449. 9	7.8	_10_	509.9	8.9	70	569. 9	9.9
331	331. 0 332. 0	5. 8 5. 8	391 92	390. 9 391. 9	6. 8 6. 8	451 52	450.9 451.9	7.9	511 12	510.9 511.9	9.0	571	570. 9 571. 9	10.0
32 33	333.0	5.8	93	392.9	6.9	53	452.9	7.9 7.9 7.9 7.9	13	512.9	9.0	72 73	572.9	10.0
34	333.9	5.8	94	393. 9	6.9	54	453. 9	7.9	14	513.9	9.0	74	572. 9 573. 9	10.0
35	334.9	5.8	95	394. 9	6.9	55	454.9	7.9	15	514.9	9.0	74 75	574.9	10.0
36	335.9	5. 9	96	395, 9	6.9	56	455, 9	8.0	16	515.9	9.0	76	575.9	10.0
37	336. 9	5.9	97	396.9	6. 9	57	456.9	8.0	17	516. 9	9. 1	77	576.9	10.1
38	337.9	5.9	98	397.9	6.9	58	457.9	8.0	18	517.9	9.1	78	577.9	10. 1
39 40	338. 9 339. 9	5. 9 5. 9	99 400	398.9 399.9	$\frac{7.0}{7.0}$	59 60	458. 9 459. 9	8. 0 8. 0	19 20	518.9 519.9	9.1 9.1	79 80	578.9 579.9	10. 1 10. 1
341	340.9	6.0	401	400.9	7.0	461	460. 9	8.0	521	520.9	$-\frac{3.1}{9.1}$	581	580. 9	10.1
42	341.9	6.0	02	401.9	7.0	62	461. 9	8.1	22	521.9	9.1	82	581.9	10. 1
43	342. 9	6.0	03	402.9	7.0	63	462.9	8.1	23	522. 9	9.2	83	582. 9	10.2
44	343.9	6.0	04	403. 9	7.1	64	463.9	8.1	24	523. 9	9, 2	84	583.9	10.2
45	344. 9	6.0	05	404.9	7.1	65	464.9	8.1	25	524. 9	9. 2	85	584.9	10. 2 10. 2 10. 2
46	345. 9	6.0	06	405.9	7.1	66	465. 9	8.1	26	525. 9	9.2	86	585.9	10.2
47	346.9	6.1	07	406. 9 407. 9	7.1	67	466. 9	8.1	27 28	526. 9 527. 9	9. 2 9. 2	87	586.9 587.9	10. 2 10. 2 10. 3
48	347. 9	6. 1 6. 1	08 09	408.9	7.1	68 69	467. 9 468. 9	8.2	28 29	528.9	9. 2	88 89		10, 2
49 50	348, 9 349, 9	6. 1	10	408.9	7. 0 7. 1 7. 1 7. 1 7. 1 7. 1 7. 1 7. 2	70	469.9	8. 2 8. 2 8. 2	30	529.9	9.3	90	588. 9 589. 9	10.3
351	350.9	6.1	411	410.9	7.2	471	470.9	8. 2	531	530.9	9.3	591	590. 9	10.3
52	351.9	6.1	12	411.9	7.2	72	471.9	8.2	32	531.9	9.3	92	591.9	10.3
5 3	352.9	6, 2	13	412.9	7. 2	72 73	472.9	8. 2 8. 3	33	532.9	9.3	93	592.9	10.3
54	353.9	6.2	14	413.9	7.2	74	473.9	8.3	34	533. 9	9.3	94	593.9	10.3
55	354.9	6. 2	15	414.9	7. 2 7. 2 7. 2 7. 2 7. 2 7. 2 7. 3	74 75 76	474.9	8.3	35	534.9	9.4	95	594. 9	10.4
56	355.9	6.2	16	415.9	7.3	76	475.9	8.3	36 37	535.9	9.4	96	595.9	10.4
57 58	356.9 357.9	6. 2 6. 2	17 18	416.9 417.9	7.3 7.3	77 78	476.9 477.9	8.3 8.3	38	536, 9 537, 9	9. 4 9. 4	97 98	596. 9 597. 9	10. 4 10. 4
59	358.9	6.2	19	418.9	7.3	79	477.9	8.4	39	538.9	9, 4	99	598. 9	10.4
60	359. 9	6, 3 6, 3	20	419.9	7.3 7.3	80	479.9	8.4	40	539.9	9.4	600	599.9	10.5
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat,	Dist.	Dep.	Lat.	Dist,	Dep.	Lat.
						89° (9	1°, 269°	, 271°)		'				

TABLE 2.

Difference of Latitude and Departure for 2° (178°, 182°, 358°).

			2.00	circo or			Dopuit	101	# (I	, 102	, 000	,.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.0	61	61.0	2. 1	121	120. 9	4.2	181	180. 9	6.3	241	240. 9	8.4
2 3	2.0	0.1	62	62.0	2. 1 2. 2	22	121.9	4. 2 4. 3	82	181.9	6.4	42	241.9	8.4
3	3.0	0.1	63	63.0	2.2	22 23	122.9	4.3 4.3	-83	182.9	6.4	43	242.9	8.5
4	4.0	0.1	64	64.0	2. 2 2. 2 2. 3 2. 3 2. 3 2. 4 2. 4	24	123. 9	4.3	84	183.9	6.4	44	243. 9	8.5
5 6	5.0	0.2	65	65. 0	2.3	25	124.9	4.4	85	184.9	6.5	45	244.9	8.6
6	6, 0	0.2	66	66.0	2.3	26	125.9	4.4	86	185.9	6.5	46	245. 9	8.6
7 8	7.0	0, 2	67 68	67. 0	2. 3	27 28	126.9	4.4	87 88	186. 9	6.5	47	246.8	8,6
9	$\begin{array}{c} 8.0 \\ 9.0 \end{array}$	0.3	69	68. 0 69. 0	2, 4	29	127, 9 128, 9	4.5	89	187, 9 188, 9	6, 6	48	247.8	8.7
10	10.0	0.3	70	70.0	2. 4	30	129, 9	4.5	90	189.9	6.6	49 50	248. 8 249. 8	8.7 8.7 8.7
11	11.0	-0.0	$\frac{-70}{71}$	71.0	9.5	131	130. 9	$-\frac{4.0}{4.6}$	191	190.9	6.7	251	250. 8	
12	12. 0	0.4	72	72.0	$\frac{2.5}{2.5}$	32	131. 9	4.6	92	191.9	6.7	52	251.8	8. 8 8. 8
12 13	13. 0	0.5	73	73.0	9.5	33	132. 9	4.6	93	192.9	6. 7 6. 7	53	252.8	8.8
14	14, 0	0.5	74	74.0	2.6 2.6 2.7	34	133. 9	4.7	94	193.9	6.8	54	253.8	8.9
15	15.0	0.5	74 75	75.0	2.6	35	134, 9	4.7 4.7	95	194.9	6.8	55	254.8	8.9
16	16.0	0.6	76	76.0	2. 7 2. 7 2. 7 2. 7 2. 8	36	135.9	4.7	96	195. 9	6.8	56	255. 8	8.9
17	17.0	0.6	77	77.0	2.7	37	136. 9	4.8	97	196.9	6. 9	57	256. 8	9.0
18	18.0	0.6	78	78.0	2, 7	38	137.9	4.8	-98	197. 9	6. 9	58	257.8	9.0
19	19.0	0.7	. 79	79.0	2.8	39	138. 9	4.9	- 99	198.9	6, 9	59	258.8	9.0
_ 20	20.0	0.7	80	80.0	2.8	40	139.9	4.9	200	199. 9	7.0	60	259.8	9, 1
21	-21.0	0.7	81	81.0	2, 8	141	140.9	4. 9	201	200.9	7, 0 7, 0 7, 1	261	260.8	9.1
22 23	22.0	0.8	82	82.0	2. 9 2. 9	42	141.9	5.0	02	201.9	7.0	62	261.8	9.1
23	23.0	0, 8	83	82. 9	2.9	43	142.9	5.0	-03	202.9	7.1	63	262. 8	9.2
24 25	24.0	0.8	84	83.9	2.9	44	143.9	5.0	04	203.9	7.1	64	263.8	9.2
25	25.0	0. 9	85	84.9	3.0	45	144.9	5. 1	05	204.9	7. 2	65	264, 8	9. 2 9. 2 9. 2 9. 3
26 27	$\frac{26.0}{27.0}$	0, 9	86	85, 9	3.0	46	145. 9	5. 1 5. 1	06	205.9	7.2	66	265.8	9.3
27	28. 0	1.0	87 88	86, 9 87, 9	3, 1	47 48	146. 9 147. 9	5 9	07 08	206.9 207.9	7.2	67 68	266. 8 267. 8	9.3 9.4
29	29. 0	1.0	89	88, 9	3, 1	49	148. 9	$5.2 \\ 5.2$	09	208.9	7.0	69	268.8	9, 4
30	30. 0	1.0	90	89. 9	3, 1	50	149. 9	5. 2	10	209.9	7. 1 7. 2 7. 2 7. 3 7. 3 7. 3	70	269.8	9.4
31	31, 0	1.1	91	90. 9	3. 2	151	150, 9	5, 3	211	210. 9		271 72 73 74 75	270.8	9.5
32	32. 0	1 1	92	91. 9	3. 2	52	151. 9	5.3	12	211. 9	7. 4 7. 4 7. 4 7. 5 7. 5 7. 5	7.9	271.8	9.5
33	33. 0	1. 2 1. 2 1. 2 1. 3	93	92. 9	3, 2	53	152. 9	5. 3	13	212.9	7.4	73	272.8	9.5
34	34.0	1.2	94	93. 9	3.3	54	153, 9	5.4	14	213.9	7.5	74	273. 8 274. 8	9.6
35	35.0	1.2	95	94. 9	3, 3	55	154. 9	5.4	15	214.9	7.5	75	274.8	9.6
36	36, 0	1,3	- 96	95, 9	3.4	-56	155. 9	5.4	16	215.9	7.5	10	275.8	9.6
37	37.0	1.3	97	96. 9	3.4	57	156, 9	5, 5	17	216. 9	7.6	77	276.8	9. 7 9. 7
38	38.0	1.3	98	97. 9	3, 4	58	157.9	5, 5	18	217. 9	7.6	78	277.8	9. 7
39	39, 0	1.4	99	98, 9	3, 5	59	158.9	5, 5	19	218.9	7. 6 7. 6 7. 7	79	278, 8	9, 7
40	40.0	1.4	100	99. 9	3.5	60	159, 9	5, 6	20	219, 9	- 1.1	80	279.8	9.8
-11	41.0	1.4 1.5	101	100, 9	3, 5	161	160, 9	5, 6	221	220. 9 221. 9	7.7	281	280, 8	9.8
42 43	42.0	1.5	02 03	101.9	3.6	62 63	161.9 162.9	5. 7 5. 7	22 23	221.9	7. 7 7. 8	82 83	281.8	9, 8
43	43. 0 44. 0	1.5	04	102, 9 103, 9	3.6	64	163. 9	5.7	9.1	223. 9	7.8	84	282. 8 283. 8	9. 9
45	45.0	1. 6	05	103. 9	3.5	65	164.9	5.8	95	224. 9	7.0	85	284.8	9.9
46	46.0	1, 6	06	105.9	3.7 3.7	66	165, 9	5.8	24 25 26	225. 9	7. 9 7. 9 7. 9 7. 9	86	285. S	10.0
47	47.0	1.6	07	106.9	3. 7	67	166. 9	5, 8	27	226, 9	7. 9	87	286, 8	10.0
48	48.0	1.7	08	107.9	3.8	68	167. 9	5.9	28	227.9	8.0	88	287.8	10.1
49	49.0	1.7 1.7	-09	108, 9	3.8	69	168.9	5, 9	29	228.9	8.0	89	288, 8	10.1
50	50.0	1.7	10	109.9	3.8	70	169, 9	5, 9	30	229. 9	8, 0	90	289, 8	10.1
51	51.0	1.8	111	110.9	3, 9	171	170, 9	6, 0	231	230. 9	8.1	291	290, 8	10.2
52	52, 0	1.8	12	111.9	3, 9	72 73	171.9	6, 0	32	231.9	8.1	92	291.8	10.2
53	53. 0	1.8	13	112.9	3.9	73	172. 9 173. 9	6, 0	- 33	232. 9	8.1	- 93	292, 8	10. 2
54	54.0	1.9	14	113, 9	4.0	74	173.9	6.1	34	233. 9	8.2	94	293, 8	10.3
55	55.0	1.9	15	114.9	4.0	75	174.9	6.1	35	234. 9	8. 2	95	294. 8	10.3
56	56, 0	2.0	16	115. 9	4.0	76	175. 9	6.1	36	235. 9	8. 2 8. 3	96	295, 8	10.3
57	57. 0	2.0	17	116.9	4. 1	77	176, 9 177, 9	6, 2	37 38	236, 9 237, 9	8.3	97 98	296, 8 297, 8	10.4
58	58, 0	2. 0 2. 1	18 19	117.9	4.1	78 79	178.9	6.2	38	238, 9	8, 3	99	297. 8	10.4
59 60	59, 0 60, 0	2.1	20	118.9 119.9	$\frac{4.2}{4.2}$	80	179. 9	6, 3	40	239, 9	8.4	300	299, 8	10.4
00	00, 0	2.1	20	110,0	7. 2	(30)	170.0	(1, .)	417	200.0	17, 7	(MA)	200.0	10.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
-						44° /0	2°, 268°							
						135	- , - 11.5	, - (-)						

Difference of Latitude and Departure for 2° (178°, 182°, 358°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	300.8	10.5	361	360. 8	12.6	421	420.8	14.7	481	480.7	16. 8	541	540.7	18.9
02	301.8	10.5	62	361. 8	12.6	22	421.8	14.7	82	481.7	16, 8	42	541.7	18.9
-03	302.8	10.6	63	361. 8 362. 8	12.6 12.7 12.7 12.7 12.7 12.8	22 23	421. 8 422. 8	14.7	-83	481.7 482.7 483.7	16.8	43	542.7	18. 9 18. 9 19. 0
04	303.8	10.6	64	1 363.8	12.7	24	423.8	14.8	84	483.7	16.9	44	543.7 544.7 545.7	19.0
05 06	304. 8 305. 8	10.6	65	364. 8 365. 8	12.7	25 26	$\frac{424.8}{425.7}$	14.8 14.9	85 86	484. 7 485. 7	16. 9 16. 9	45 46	515.7	19. 0 19. 0
07	306, 8	10.7 10.7	66 67	366.8		27	426.7	14.9	87	486.7	17.0	47	546.7	19. 1
08	307.8	10. 7	68	367.8	12.8	28	427.7	14. 9	88	487.7	17.0	48	546.7 547.7	19. 1
-09	308.8	10.8	69	368.8	12.9	29	428, 7	15.0	89	488.7	17.0	49	548.7	19. 1 19. 1
10	309.8	10.8	70	368. 8 369. 8	12. 8 12. 9 12. 9	30	429.7	15.0	90	489.7	17.1	50	549, 7	19, 2
311	310.8	10.8	371	370.8	12.9	431	430.7	15.0	491	490.7	17. 1 17. 1 17. 2 17. 2 17. 2 17. 3 17. 3	551	550.7	19. 2 19. 2
12 13	311.8	10.9	72 73 74	371.8 372.8 373.8	13.0	32	431. 7 432. 7 433. 7	15.1	92	491.7	17.1	52	551.7 552.7 553.7	19, 2
13	312. 8 313. 8	10.9	73	372.8	13.0	33	432.7	15. 1 15. 1	93 94	492. 7 493. 7	17.2	53	552.7	19.3 19.3
14 15	314.8	10.9	75	274 8	13.0	34 35	121 7	159	95	193.7	17.2	54 55	554.7	19.3
16	315.8	11.0 11.0	76	374.8 375.8	13. 1 13. 1	36	434. 7 435. 7 436. 7	15. 2	96	494. 7 495. 7	17.3	56	555.7	19. 4
17	316.8	11.0	76 77 78	376.8	13. 1	37	436.7	15, 2	97	496. 7 497. 7 498. 7	17.3	57	556 7	19. 4 19. 4
18	316.8 317.8	11.1	78	377.8	13. 2	38	437.7	15.3	98	497.7	17.3 17.4	58	557.7	19.4 19.5
19	318.8	11.1	79	376. 8 377. 8 378. 8	13. 1 13. 2 13. 2	39	438, 7	15. 2 15. 2 15. 3 15. 3	99	498.7	17.4	59	557. 7 558. 7 559. 7	19.5
20	319, 8	11.2	80	379.8	13.2	40	439.7	15.3	500	499.7	17.4	60	559.7	19.5
321	320. 8	11. 2 11. 2 11. 3 11. 3	381	380.8	13. 3 13. 3 13. 3 13. 4	441	440.7	15. 4	501	500. 7	17.5 17.5 17.5 17.6 17.6	561	560, 7 561, 7	19.5 19.6
22 23	321, 8 322, 8	11.2	82 83	381.8 382.8	13.3	42 43	441.7	15.4	02 03	501. 7 502. 7	17.5	62 63	569.7	19.6
94	323.8	11.3	84	383.8	13.1	44	442.7 443.7	15, 4 15, 5 15, 5	03	503 7	17.6	64	562. 7 563. 7	19. 6 19. 6 19. 7
24 25 26 27	324. S	11.3	85	384.8	13. 4	45	444.7	15.5	05	504. 7 505. 7 506. 7 507. 7	17.6	65	564. 7	19.7
26	$324.8 \\ 325.8$	11.3 11.4	86	384. 8 385. 8	13. 4 13. 5 13. 5	46	445, 7	15. 6 15. 6 15. 6	06	505. 7	17.6 17.7 17.7 17.7	-66	564. 7 565. 7	19. 7 19. 7 19. 7 19. 8 19. 8 19. 9
27	326.8	111.4	87	386.8	13, 5	47	446.7	15.6	07	506.7	17.7	67	566, 7 567, 7	19.7
28	327.8	11.4	88	387.8	13.5	48	447.7	15.6	08	507.7	17.7	68	567.7	19.8
29 30	328.8	11.5	89 90	388.8	13.6	49	448.7	1 15. (09	508.7	17. 7	69 70	568.7 569.7	19.8
	329.8	11.5		389.8	13.6	50	449.7	15.7	10	509.7	17.8		570.7	19. 9
331	330. 8 331. 8	11.5 11.6	391 92	390. 8 391. 8	13. 6 13. 7 13. 7 13. 7 13. 8 13. 8	451	450, 7 451, 7	15. 7 15. 8	$\frac{511}{12}$	510.7	17.8	571	570.7	19. 9 19. 9 20. 0 20. 0 20. 0 20. 1 20. 1
32 33 34	332.8	11.6 11.6 11.7 11.7	93	392.8	13. 7	52 53	452. 7 453. 7 454. 7 455. 7	15. 8 15. 8 15. 9 15. 9 15. 9	13	511. 7 512. 7 513. 7 514. 7 515. 7 516. 7 517. 7 518. 7	17. 8 17. 9 17. 9 17. 9 18. 0 18. 0	72 73 74	571. 7 572. 7 573. 6 574. 6 575. 6	20.0
34	332. 8 333. 8	11.6	94	392. 8 393. 8	13. 7	54	453.7	15. 8	14	513.7	17.9	74	573.6	20.0
35	334. 8 335. 8	11.7	95	394.8	13.8	55	454.7	15.9	15	514.7	17.9	75	574.6	20.0
36	335.8	11.7	96	395.8	13.8	56	455.7	15.9	16	515.7	18.0	76 77	575.6	20.1
37 38	336, 8 337, 8	11.7	97 98	396, 8 397, 8	13. 8 13. 9 13. 9	57 58	456. 7 457. 7 458. 7	15.9	17 18	516.7	18.0	77	576.6 577.6 578.6	20.1
39	338.8	11.8 11.8	99	398.8	13.9	59	158 7	16.0 16.0	19	518.7	18.1	78 79	578 6	$20.1 \\ 20.2$
40	339.8	11.9	400	399.8	13.9	60	459.7	16.0	20		18.1	80	579 6	20. 2
341	340.8	11.9	401	400.8	14.0	461	460.7	16. 1 16. 1 16. 1 16. 2 16. 2		520. 7 521. 7 522. 7	18.2	581	580.6 581.6 582.6 583.6 584.6 585.6	20. 2
42	341.8	11.9	02	401. 8 402. 8 403. 8	14.0	62	$\frac{461.7}{462.7}$	16.1	$\frac{521}{22}$	521.7	18. 2 18. 2	82	581.6	20. 2 20. 3
43	342. 8 343. 8	$\begin{array}{c c} 12.0 \\ 12.0 \end{array}$	03	402.8	14.0 14.1	63	462.7	16.1	23	522.7	18. 2 18. 3 18. 3 18. 4	83	582.6	20. 3 20. 3
44	343.8	12.0	04	403.8	14.1	64	463.7	16.2	24	023.1	18.3	84	583.6	20.3
45 46	344. 8 345. 8	12. 0 12. 1 12. 1	05 06	404. 8 405. 8	14.1	65 66	464. 7 465. 7	16.2	$\frac{25}{26}$	524. 7 525. 7	18.3	85 86	584.6	20. 4 20. 4
47	346.8	19 1	07	406.8	$14.2 \\ 14.2$	67	466.7	16. 2 16. 3	27	526. 7	18.4	87	586, 6	20.4
48	347.8	12, 1	08	407.8	11 9	68	467.7	16.3	28	527.7	18. 4	88	587, 6	20. 5
49	348.8	$12.2 \\ 12.2$	09	408.8	14.3	69	$\frac{468.7}{469.7}$	16.4	29	528.7	18.5	89	588, 6 589, 6	20. 5 20. 5
50	349, 8	12.2	_10	409.8	14.3	70	469.7	16.4	30	529.7	18.5	90	589, 6	20.5
351	350.8	12. 2 12. 3 12. 3 12. 3 12. 4	411	410.8	14.3	471	470.7	16.4	531	530.7	18.5	591	590.6	20. 6 20. 6
52	351.8	12.3	12	411.8 412.8 413.8	14. 4	72 73 74	471. 7 472. 7 473. 7	16.5	32	531, 7	18.6	92	591, 6 592, 6 593, 6	20.6
53 54	352, 8 353, 8	12.3	13 14	412.8	14.4	73	472.7	16.5 16.5	33 34	532. 7 533. 7	18.6 18.6	93 94	592. 6	20. 6 20. 7 20. 7
55	354.8	12.3	15	414.8	14.4 14.5	75	474.7	16. 6	35	534.7	18. 7	95	594 6	20.7
56	355.8	12.4	16	415.8	14.5	76	475.7	16.6	36	535. 7	18.7	96	594. 6 595. 6	20, 7
57	356.8	12.4	17	416.8	14.5	76 77	476 7	16, 6	37	536.7	18.7	97	596.6	20. 7 20. 8
58	357.8	12.5 12.5	18	417.8	14.6	78 79	477.7	16.7 16.7	38	537.7	18.8	98	597.6	20.8
59	358.8	12.5	19	418.8	14.6	79	478.7	16, 7	39	538.7	18. S	99	598.6	20.8
60	359.8	12.5	20	419, 8	14.6	80	479.7	16.7	40	539.7	18.8	600	599.6	20.9
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						88° (8	92°, 268°	, 272°).					

TABLE 2.

Difference of Latitude and Departure for 3° (177°, 183°, 357°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.1	61	60. 9	3. 2	121	120.8	6. 3	181	180. 8	9. 5	241	240. 7	12.6
2	2.0	0.1	62	61. 9	3, 2	22	121.8	6.4	82	181.8	9.5	42	241.7	12.7
3	3.0	0.2	63	62, 9	3.3	23	122.8	6.4	83	182, 7	9, 6	43	242.7	12.7
4	4.0	0.2	64	63.9	3.3	24	123.8	6.5	84	183. 7	9.6	44	243.7	12.8
5 6	5.0	0.3	65	64.9	3.4	25	124.8	6.5	85	184.7	9.7	45	244.7	12.8
7	6. 0 7. 0	0.3	66 67	65. 9 66. 9	3. 5 3. 5	26 27	125, 8 - 126, 8	6.6	86 87	185.7 186.7	9.7 9.8	46 47	245, 7 246, 7	12. 9 12. 9
8	8. 0	0, 4	68	67. 9	3.6	28	127.8	6.7	88	187. 7	9.8	48	247. 7	13. 0
ğ	9, 0	0.5	69	68, 9	3.6	29	128, 8	6, 8	89	188.7	9, 9	49	248.7	13.0
10	10.0	0, 5	70	69. 9	3.7	30	129, 8	6.8	90	189.7	9.9	50	249.7	13. 1
11	11.0	0.6	71	70.9	3.7	131	130, 8	6, 9	191	190.7	10.0	251	250, 7	13.1
12	12.0	0,6	72	71.9	3.8	32	131.8	6.9	92	191.7	10.0	52	251.7	13. 2
13	13.0	0.7	73	72.9	3.8	33	132.8	7.0	93	192.7	10.1	53	252.7	13, 2
14	14.0	0.7	74	73.9	3.9	34	133.8	7.0	94	193.7	10.2	54	253, 7	13.3
15 16	15. 0 16. 0	0.8 0.8	75 76	74.9 75.9	3.9	35 36	134. 8 135. 8	$\frac{7.1}{7.1}$	95 96	194. 7 195. 7	10.2	55	254. 7 255. 6	13.3
17	17. 0	0.9	77	76, 9	4.0	37	136.8	7.9	97	196.7	10.3	56 57	256, 6	13. 4 13. 5
18	18.0	0.9	78	77.9	4.1	38	137.8	7.2	98	197.7	10. 4	58	257.6	13.5
19	19.0	1.0	79	78.9	4.1	39	138, 8	7.3	99	198.7	10.4	59	258.6	13. 6
20	20, 0	1.0	80	79.9	4.2	40	139, 8	7.3	200	199.7	10.5	60	259, 6	13, 6
21	21.0	1.1	81	80.9	4.2	141	140. S	7.4	201	200.7	10.5	261	260, 6	13. 7
22	22.0	1, 2	82	81.9	4.3	42	141.8	7.4	- 62	201.7	10.6	62	261. 6	13.7
23	23.0	1. 2 1. 3	83	82.9	4.3	43	142.8	7.5	-03	202.7	10.6	-63	262.6	13.8
24	24.0	1.3	84	83.9	4.4	44	143.8	7.5	04	203.7	10.7	64	263.6	13.8
25 26	25. 0 26. 0	1.3	85 86	84. 9 85, 9	4.4	45	144. 8 145. 8	7.6	05 06	204.7	10.7	65	264.6	13.9
27	27. 0	1.4	87	86.9	4.5	46 47	146.8	7. 7	07	205. 7 206. 7	10.8 10.8	66 67	265, 6 266, 6	13. 9 14. 0
28	28. 0	1, 5	88	87.9	4.6	48	147.8	7. 7	08	207. 7	10. 9	68	267.6	14.0
29	29.0	1.5	89	88. 9	4.7	49	148, 8	7.8	09	208.7	10.9	69	268, 6	14.1
30	30.0	1.6	90	89.9	4.7	50	149, 8	7.9	10	209.7	11.0	70	269, 6	14.1
31	31.0	1.6	91	90, 9	4.8	151	150.8	7.9	211	210.7	11.0	$\frac{271}{72}$	270.6	14. 2
32	32.0	1.7	92	91.9	4.8	52	151.8	8.0	12	211.7	11, 1	72	271.6	14. 2
33	33.0	1.7	93	92. 9	4.9	53	152.8	8.0	13	212.7	11.1	73	272.6	14.3
34 35	34. 0 35. 0	1.8 1.8	94 95	93. 9 94. 9	4, 9 5, 0	54 55	153, 8 154, 8	8. 1 8. 1	14 15	213. 7 214. 7	11.2	74 75	273. 6 274. 6	14.3 14.4
36	36.0	1.9	96	95. 9	5.0	56	155.8	8.2	16	215. 7	11.3	76	275. 6	14.4
37	36, 9	1.9	97	96. 9	5.1	57	156, 8	8.2	17	216.7	11.4	77	276.6	14.5
38	37.9	2.0	98	97.9	5.1	58	157.8	8, 3	18	217.7	11.4	78	277.6	14.5
39	38, 9	-2.0	99	98, 9	5, 2	59	158.8	8.3	19	218, 7	11.5	79	278, 6	14.6
40	_39, 9	2, 1	100	99.9	5. 2	60	159, 8	8.4	20	219, 7	11.5	80	279.6	14.7
41	40.9	2. 1	101	100.9	5.3	161	160, 8	8, 4	221	220.7	11, 6	281	280, 6	14, 7
42	41.9	2. 2	02	101. 9	5.3	62	161.8	8,5	22 23	221. 7 222. 7	11.6	82	281.6	14.8
43 44	42. 9 43. 9	2.3	03 04	102. 9 103. 9	5. 4 5. 4	63 64	162. 8 163. 8	8, 5 8, 6	23 24	222. 7 223. 7	11.7	83 84	282. 6 283. 6	14. 8 14. 9
45	44.9	2. 3	05	103. 9 104. 9	5, 5	65	164.8	8.6	25	224. 7	11.8	85	284.6	14.9
46	45. 9	2.4	06	105, 9	5.5	66	165.8	8.7	26	225. 7	11.8	86	285, 6	15.0
47	46.9	2.5	07	106, 9	5.6	67	166.8	8.7	27	226. 7	11.9	87	286, 6	15.0
48	47.9	2.5	08	107.9	5.7	68	167. 8	8.8	28	227.7	11.9	- 88	287, 6	15, 1
49	48.9	2.6	09	108.9	5.7	69	168.8	8.8	29	228.7	12.0	89	288, 6	15. 1
_50	49.9	2.6	_10	109.8	5.8	70	169. 8	$\frac{8.9}{1}$	30	229.7	12.0	_90	289. 6	15. 2
51	50. 9	2.7	111	110.8	5.8	171	170.8	8.9	231	230. 7	12.1	291	290, 6	15. 2
52 53	51. 9 52. 9	$\frac{2.7}{2.8}$	12 13	111.8 112.8	5. 9 5. 9	72 73	$171.8 \\ 172.8$	9. 0 9. 1	32	231. 7 232. 7	12. 1 12. 2	92 93	291. 6 292. 6	15.3 15.3
54	53.9	2.8	14	113.8	6, 0	74	173.8	9. 1	34	233. 7	12. 2	94	293. 6	15. 4
55	54. 9	2. 9	15	114.8	6,0	75	174.8	9. 2	35	234. 7	12.3	95	294.6	15, 4
56	55. 9	2.9	16	115.8	6.1	76	175.8	9, 2	36	235.7	12.4	96	295, 6	15, 5
57	56.9	3.0	17	116, 8	6.1	77	176.8	9.3	37	236. 7	12.4	97	296, 6	15, 5
58	57.9	3.0	18	117.8	6. 2	78	177.8	9.3	38	237.7	12.5	98	297.6	15, 6
59	58, 9	3. 1	19	118.8	6.2	79 80	178.8	9.4	39	238.7	$12.5 \\ 12.6$	99 300	298.6	15.6
60	59. 9	3. 1	20	119.8	6.3	80	179.8	9, 4	40	239. 7	12.0	500	299, 6	15.7

Dep. 87° (93°, 267°, 273°).

Lat, Dist.

Lat. Dist.

Dist. Dep. Dep.

Lat. Dist.

Dep. Lat. Dist.

Difference of Latitude and Departure for 3° (177°, 183°, 357°).

			Inner	ence or	Latituc	ie and	Depart	ure for	3° (1	77°, 183	, 357).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	300, 6	15. 7	361	360.5	18.9	421	420, 4	22.0	481	480.3	25. 2	541	540. 2	28. 3
-02	301.6	15.8	62	361.5	19.0	22	421.4	22, 1 22, 2 22, 2	82	481.3	25. 2	42	541.2	28, 4
03	302, 6	15.9	63	362.5	19.0	23	422, 4 423, 4	22. 2	- 83	482.3	25.3	43	542. 2 543. 2	28.4
04	303.5	15.9	64	363. 5	19.1	24	423.4	22. 2	84	483.3	25.3	44	543.2	28. 5
05	304.5	16.0	65	364.5	19.1	25	424.4	22.3	85	484.3	25. 4	45	544.2	28.5
06	305, 5	16, 0	66	365, 5	19. 2	26 27	425, 4	22.3 22.4	86	485.3	25. 4 25. 5	46	545.2	28, 6 28, 6
07 08	306, 5 307, 5	$\frac{16.1}{16.1}$	67 68	366, 5 367, 5	19. 2 19. 3	$\frac{27}{28}$	426, 4 $427, 4$	22.4	87 88	486.3 487.3	25. 5	47 48	546. 2 547. 2	28. 6
09	308.5	16. 2	69	368.5	19.3	29	428.4	22.5	89	488.3	25, 6	49	548.2	28.7
10	309.5	16. 2	70	369. 5	19.4	30	429. 4	22, 5	90	489, 3	25, 6	50	549, 2	28, 8
311	310.5	16.3	371	370, 5	19, 4	431	430, 4	99 6	491	490, 3	25. 7	551	550.2	28.8
12	811.5	16.3	72 73	371.5	19, 5	32	431.4	90 B	92	491.3	25. 7	52	551. 2 552. 2	28.9
12 13	312.5	16.4	73	372.5	19.5	33	432.4	22. 7 22. 7	93	492.3	25.8	53	552. 2	28, 9
14	313.5	16.4	74	373.5	19.6	34	433.4	00 7	94	493, 3	25.9	54	553.2	29.0
15	314.5	16.5	75	374.5	19.6	35	434.4	22. 8 22. 8	95	494.3	25, 9	55	554.2	29, 1
16	315.5	16.6	76 77	375. 5	19.7	36	435.4	22.8	96	495, 3	26, 0	56	555, 2	29.1
17	316.5	16.6	46	376.5	19.8	37	436.4	22. 9 22. 9	97	496, 3	26, 0	57 58	556, 2	29, 2 29, 2
18 19	317. 5 318. 5	16. 7 16. 7	78 79	377. 4 378. 4	19.8 19.9	38 39	437, 4 438, 4	23. 0	98 99	497.3	26, 1 26, 1	59	557. 2 558. 2	29, 2
20	319.5	16. 8	80	379.4	19. 9	40	439, 4	23. 0	500	499.3	26, 2	60	559.2	29, 3
321	320. 5	16.8	381	380. 4	20.0	441	440, 4	23, 1	501	500.3	26, 2	561	560, 2	29, 4
20	321.5	16.9	82	381.4	20.0	42	441.4	93 1	02	501.3	26.3	62	561.2	29, 4
23	322.5	16.9	83	382, 4	20.1	43	442.4	23. 2	-03	502.3	26.3	63	562. 2 563. 2	29, 5
22 23 24 25	323.5	17. 0 17. 0	84	383, 4	20.1	44	442. 4 443. 4	23.3	- 04	503, 3	26.4	64	563.2	29.5
25	324, 5	17.0	.85	384.4	20, 2	45	444.4	23. 2 23. 3 23. 3	05	504.3	26.4	65	564.2	29, 6
26	325.5	17.1	86	385.4	20.2	46	445, 4	23, 4	-06	505.3	26, 5	66	565, 2	29, 6
27 28	326.5	17.1	87	386. 4	20.3	47	446.4	23, 4 23, 5	07	506.3	26.5	67	566, 2 567, 2	29. 7 29. 7
28	327, 5 ₁ 328, 5	17. 2 17. 2	88 89	387. 4 388. 4	20.3 20.4	48 49	447, 4	23.5	08 09	507.3	26.6 26.6	68 69	568.2	29. 8
30	329.5	17.3	90	389. 4	20. 4	50	449, 3	23.6	10	509.3	26. 7	70	569. 2	29, 8
331	330. 5	17. 3	391	390. 4	20. 5	451	450, 3	23. 6	511	510.3	26. 7	571	570.2	29. 9
32	331.5	17.4	92	391.4	20.5	52	451.3	23. 7	12	511.3	26.8	72	571.2	29, 9
33	332.5	17.5	93	392.4	20, 6	53	452.3	23.7	13	512.3	26.8	72 73	572.2	30.0
34	333. 5	17.5	94	393.4	20.6	54	453.3	23.8	14	513.3	26. 9	74	573.2	30.0
35	334.5	17.6	95	394. 4	20.7	55	454.3	23.8	15	514.3	27.0	75	574. 2 575. 2	30. 1
36	335.5	17. 6 17. 7 17. 7	96	395.4	20.7	56	455, 3	23. 9 23. 9	16	515.3	27. 0 27. 1 27. 1	76 77	575.2	30.1
37 38	336, 5 337, 5	17.7	97 98	396. 4 397. 4	$\frac{20.8}{20.8}$	57 58	456, 3 457, 3	24. 0	17 18	516, 3 517, 3	27.1	78	576, 2 577, 2	30, 2
39	338.5	17.8	99	398, 4	20. 9	59	458.3	24.0	19	518.3	27. 2	79	578.2	30. 1 30. 2 30. 2 30. 3
40	339. 5	17.8	400	399, 4	20. 9	60	459.3	24.1	20	519.3	27. 2	80	579.2	30.3
341	340, 5	17.9	401	400.4	21.0	461	460.3	94 1	521	520.3	27. 3	581	580. 2	30, 4
42	341.5	17. 9 17. 9	02	401.4	21.1	62	461.3	24. 1 24. 2	521 22 23	520. 3 521. 3 522. 3	$\frac{27.3}{27.3}$	82	581. 2 582. 2	30. 4
43	342.5	18.0	03	402, 4	21.1	63	462.3	24. 2	23	522.3	27. 4	-83	582, 2	30.5
44	343.5	18.0	()4	403, 4	21.2	64	463.3	24.3	24	523.3	27.4	84	583. 2	30, 5
45	344.5	18.1	05	404. 4	21.2	65	464.3	24.4	25	524.3	27.5	85	584.2	30.6
46	345.5	18.1	-06	405, 4	21.3	66	465.3	24.4	26	525, 3 526, 3	27.5	86	585, 2	30.6
47 48	346. 5 347. 5	18. 2	07 08	406. 4 407. 4	21.3 21.4	67 68	466.3	24.5 24.5	27 28	597 9	27. 6 27. 6 27. 7 27. 7	87 88	586. 2 587. 2	30. 7 30. 7
48	348.5	18, 2 18, 3	09	407. 4	21.4	69	467.3 468.3	24. 6	28 29	527.3 528.3	27.0	88 89	588 9	30. 7
50	349.5	18.3	10	409.4	21.5	70	469.3	24.6	30	529.3	27. 7	90	588, 2 589, 2	30.9
351	350.5	18. 4	411	410.4	21.5	471	470.3	24. 7	531	530. 3	27.8	591	590. 2	30. 9
52	351.5	18.4	12	411.4	21.6	72	471.3	24, 7	32	531.3	27. 8	92	591 2	31.0
53	352. 5 353. 5	18.5	13	412. 4 413. 4	21.6	73	472.3 473.3	24.8	- 33	532, 3 533, 3	27. 9 27. 9	93	592. 2 593. 2	31.0
54	353.5	18.5	14	413.4	21. 7 21. 7	72 73 74 75	473, 3	24.8	34	533. 3	27.9	94	593. 2	31. 1
55	354.5	18.6	15	414.4	21.7	75	474.3	24. 9	35	534.3	28.0	95	594.2	31.1
56	355.5	18.6	16	415.4	21, 8	76	475.3	24.9	36	535.3	28.1	96	595. 2	31. 2
57 58	356. 5 357. 5	18. 7 18. 8	17 18	416. 4 417. 4	$\frac{21.8}{21.9}$	77 78	476.3 477.3	25. 0 25. 0	37 38	536.3 537.3	28.1	97 98	596. 2 597. 2	31. 2 31. 3
59	358.5	18.8	19	418.4	21.9	79	477.3	25. 1	39	538.3	28, 2 28, 2	99	598. 2	31.3
60	359.5	18.9	20	419.4	22. 0	80	479.3	25. 1	40	539.3	28.3	600	599. 2	31.4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						87° (9	93°, 267°	°, 273°)).					
						-								

Page 538]

TABLE 2.

Difference of Latitude and Departure for 4° (176°, 184°, 356°).

			Dinere	ance or 1		e and	Departo			76-, 184-	-, 306-	١٠.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.1	61	60. 9	4.3	121	120. 7	8.4	181	180.6	12, 6	241	240. 4	16.8
9	2.0	0.1	62	61.8	4.3	22	121, 7	8.5	82	181.6	12.7	42	241.4	16.9
3	3.0	0.2	63	62, 8	4.4	23	122.7	8.6	83	182.6	12.8	43	242.4	17.0
4	4.0	0.3	64	63.8	4.5	21	123. 7	8.6	84 .	183, 6	12.8	44	243. 4	17.0
5 6	5, 0 ± 6, 0	0, 3 0, 4	65 66	64. 8 65. 8	4.5	25 26	124. 7 125. 7	8.7 8.8	85 86	184.5 185.5	12.9 13.0	45 46	244. 4 245. 4	17.1 17.2
$\frac{6}{7}$	6, 0 7, 0	0.4	66	66.8	4.7	26 27	125. 7 126. 7	8.8	86	186, 5	13.0	46 47	245. 4	17.2
ś	8, 0	0.6	68	67.8	4.7 4.7	28	127.7	8.9	88	187.5	13.1	48	247.4	17.3
9	9.0	0, 6	69	68.8	4.8	29	128.7	9.0	89	188.5	13.2	49	248.4	17.4
_10	10.0	0.7	70	69.8	4. 9	30	129, 7	9.1	90	189.5	13.3	50	249, 4	17.4
11	11.0	0.8	71	70.8	5.0	131	130. 7	9, 1	191	190.5	13.3	251	250. 4	17.5
12	12.0	0.8	72	71.8	5.0	32	131.7	9.2	92	191.5	13.4	52 53	251.4	17.6
13	13, 0 14, 0	0.9	73 74	72. 8 73. 8	5.1	33 34	132.7 133.7	9.3 9.3	93 94	192.5 193.5	13. 5 13. 5	53 54	252. 4 253. 4	17.6 17.7
14 15	14.0	1.0	74 75	73.8	5.5	34	134.7	9.3	94	193, 5	13. 5	55	254. 4 254. 4	17. 8
15	16. 0	1.1	76	75.8	5, 2 5, 2 5, 3	36	135, 7	9.5	- 96	195. 5	13.7	56	255.4	17.9
17	17.0	1.2	77	76.8	5.4	37	136. 7 137. 7	9.6	97	196. 5	13.7	57	256.4	17.9
18	18.0	1.3	78	77.8	5.4	38	137.7	9, 6	98	197.5	13.8	58	257.4	. 18.0
19	19.0	1.3	79	78.8	5, 5	39	138. 7	9.7	99	198.5	13.9	59	258.4	18.1
20	20.0	1.4	80	79.8	5.6	40	139.7	9.8	200	199.5	14.0	961	259. 4	18.1
21	20.9	1.5	81	80.8	5. 7	141	140, 7	9, 8	201	200.5	14.0	261	260.4 261.4	18, 2 18, 3
22 23	21. 9 22. 9	1.5 1.6	82 83	81. 8 82. 8	5.7 5.8	42 43	141.7 142.7	9, 9 10, 0	02 03	201.5	14. 1 14. 2	62 63	$261.4 \\ 262.4$	18.3
23 24	22. 9 ± 23. 9	1.7	83 84	82. 8 83. 8	5, 9	43	143. 6	10. 0	03	203.5	14, 2	64	263.4	18.4
24 25	24. 9	1.7	85	84.8	5, 9	45	144.6	10.1	05	204.5	14.3	65	264.4	18.5
26	25.9	1.8	86	85, 8	6.0	46	145, 6	10.2	06	205.5	14.4	-66	265, 4	18.6
27	26, 9	1.9	87	86, 8	6.1	47	146.6	10.3	07	206.5	14.4	67	266.3	18.6
28	27. 9	2.0	88	87.8	6.1	48	147. 6	10.3	08	207.5	14.5	68	267.3 268.3	18.7
29 30	28, 9 29, 9	$\frac{2.0}{2.1}$	89 90	88. 8 89. 8	6.2	49 50	148. 6 149. 6	10. 4 10. 5	09 10	208. 5 209. 5	14.6 14.6	69 70	268.3 269.3	18.8 18.8
$-\frac{30}{31}$		2.1		$\begin{bmatrix} -89.8 \\ -90.8 \end{bmatrix}$	6.3	$\frac{50}{151}$	149, 6 150, 6	10.5	211	210.5	14. 6	271	$\frac{269.3}{270.3}$	18.9
31 32	30. 9 31. 9	9 9 1	91 92	90. S 91. S	6, 3	151	151.6	10, 5	12	211.5	14. 7	72	271.3	19,0
33	32. 9	2, 2 2, 3	93	92.8	6, 5	53	152, 6	10.7	13	212.5	14.9	73	272.3	19.0
34	33. 9	2.4	94	93.8	6, 6	51	153. 6	10.7	14	213.5	14.9	74	273.3	19.1
35	34. 9	2.4	95	94.8	6, 6	-55	154, 6	10.8	15	214.5	15.0	75 (274.3	19.2
- 36	35, 9	9.5	96	95, 8	6.7	56 57	155, 6	10, 9	16	215.5	15.1	76	275.3 276.3	19.3 19.3
37	36, 9	2.6	97	96, 8 97, 8	6, 8 6, 8	57 58	156, 6 157, 6	11.0 11.0	17 18	216.5 217.5	15. 1 15. 2	77 78	276.3 277.3	19.3
38 39	37. 9 38. 9	2.6	98 99	97. 8 98. 8	6.8	58 59	157. 6 158. 6	11.0	18	217.5	15. 2	79	278.3	19. 4
39 40	39, 9	2. 4	100	98.8	7.0	60	159. 6	11.2	20	219.5	15.3	80	279, 3	19.5
- 41	$=\frac{39.9}{40.9}$	9 9	101	100.8	7.0	161		$-11.\frac{5}{2}$	221	220.5	15.4	281	280, 3	19.6
42	41.9	2.9	02		7.1	62	161.6	11.3	90	221.5	15, 5	82	281.3	19.7
13	42. 9	3.0	-03	101. 8 102. 7	7.2	-63	162. 6	11.4	23	222.5	15.6	83	282.3	19.7
-1-4	43.9	3.1	04	103. 7 104. 7	7. 1 7. 2 7. 3 7. 3	61	163.6	11.4	24	223, 5	15.6	84	283. 3	19, 8 19, 9
45	44.9	3, 1	05	104. 7	2.3	65 66	164, 6 165, 6	11.5 11.6	25 26	224.5 225.4	15. 7 15. 8	85 86	284.3 285.3	19, 9
46	15, 9 46, 9	3. 2 3. 3	06 07	105, 7 106, 7	7. 4 7. 5 7. 5 7. 6 7. 7	667	165, 6 166, 6	11.6	26 27	226.4 226.4	15.8	86	286.3	20, 0
47 48	47. 9	3. 3	07	107.7	7.5	68	167. 6	11.7	28	227.4	15, 9	88	287.3	20.1
19	48. 9	3.4	09	108.7	7.64	69	168, 6	11.8	29	228.4	16.0	89	288.3	20.2
50	49. 9	3, 5	10	109, 7	7.7	70	169, 6	11.9	30	229.4	16.0	- 90	289, 3	20, 2
51	50, 9	3.6	111	110.7	7.7	171	170.6	11.9	231	230, 4	16.1	291	290.3	20, 3
52	51.9	3, 6	12	111.7	7.8 7.9	72	171.6	12.0	32	231.4	16.2	92	291.3	20.4
-53	52. 9	3.7	13	112.7 113.7	1 7.9	73	172.6	12.1	33	232.4	16.3	93	292.3	20. 4
54	53, 9	3.8	14 15	113, 7 114, 7	8, 0 8, 0	74 75	173, 6 174, 6	12. 1 12. 2	34 35	233, 4 234, 4	16. 3 16. 4	94	293.3	$\begin{vmatrix} 20, 5 \\ 20, 6 \end{vmatrix}$
55 56	54. 9 55. 9	3.8	15	114.7	8, 0 8, 1	75 76	174. 6	12.3	36	234. 4	16. 4	96	295.3	20, 6
56	56, 9	3.9	17	116, 7	8.9	77	176.6	12.3	37	236, 4	16, 5	97	296.3	20.7
58	57. 9	4, 0	18	117.7	8, 2	78	177. 6	-12.4	38	237.4	16, 6	98	297.3	20, 8
59	58.9	1.1	19	118.7	8, 3	79	178, 6	12.5	- 39	238, 4	16.7	99	298, 3	20. 9
60	59, 9	4. 2	20	119.7	8.4	80	179, 6	12.6	-1()	239, 4	16.7	300	299.3	20, 9
		-				par a	1,	1	Dist.	Dep.	- Lat	Dist.	Dep.	Lat.
Dist.	Dep.	Lat.	Dist	Dep.	Let.	Dist.	-	Lat.	·		1.41	I met.	ercp.	astt.
					:	86°; (94°, 266	i°, 271°	').					

Difference of Latitude and Departure for 4° (176°, 184°, 356°).

301 02 03														
02	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.
02	300.3	21.0	361	360.1	25, 2	421	420.0	29, 4	481	479.8	33.5	541	539. 7	37.7
					25. 2	22			82			42		37. 8
03	301.3	21. 1	62	361.1	20.2	22	421.0	29, 4		480.8	33.6		540.7	
	302. 2	21.1	63	362. 1	25.3	23	422.0	29.5	83	481.8	33. 7	43	541.7	37. 9
04	303. 2	21. 2 21. 3	64	363. 1	25.4	24	423.0	29, 6	84	482.8	33. 7	44	542.7	37. 9
05	304. 2	21.3	65	364.1	25, 5	25	424.0	29, 6	85	483, 8	33.8	45	543.7	38, 0
06	305, 2	21.3	66	365, 1	25, 5	26	424.9	29.7	- 86	484.8	33, 9	46	544.7	38.1
07	306.2	21.4	67	366.1	25, 6	27	425, 9	29.8	87	485.8	33.9	47	545.7	38.1
08	307. 2	21.5	68	367.1	25, 7	28	426.9	29, 9	- 88	486, 8	34.0	48	546.7	38, 2
09	308.2	21.6	69	368, 1	25.7	29	427.9	29, 9	89	487.8	34.1	49	547.7	38, 3
10	309, 2	21.6	70	369.1	25, 8	30	428.9	30.0	90	488, 8	34, 2	50	548.7	38, 3
311	310. 2	21.7	371	370. 1	25. 9	431	429, 9	30, 1	491	489, 8	34. 2	551	549.7	38.4
12	311. 2	21.8	57.	371.1	25. 9	32	430, 9	30.1	92	490.8	34.3	52	550.7	38, 5
13	312. 2	21.8	72 73	970.1	26, 0	33	431. 9	30. 2	93	491.8	34.4	53	551.7	38, 5
	012.2		(3)	372.1			432.9	30.3	94	492, 8				38.6
14	313. 2	21.9	74	373. 1	26. 1	34	432.9				34.4	54	552. 7	
15	314.2	22.0	75	374.1	26. 2	35	433.9	30.3	95	493, 8	34.5	55	553, 6	38, 7
16	315.2	22. 1	76	375. 1	26. 2	36	434. 9	30.4	96	494.8	34.6	56	554, 6	38.7
17	316. 2 317. 2	22.1	77 78	376, 1	26, 3	37	435, 9	30, 5	97	495, 8	34, 6	57	555, 6	38.8
18	317.2	22.2	78	377.1	26.4	38	436.9	30.6	98	496, 8	34.7	58	556, 6	38, 9
19	318.2	22.3	79	378.1	26, 4	39	437.9	30, 6	-99	497.8	34.8	59	557.6	38. 9
20	319. 2	22.3	80	379.1	26.5	40	438.9	30, 7	500	498, 8	34.8	60	558.6	39.0
	320, 2	22, 4	381	380.1	26, 6	441	439. 9	30, 8	501	499.8	34. 9	561	559.6	39, 1
321 22	321. 2	22.5	82	381.1	26, 6	42	440. 9	30.8	02	500.8	35.0	62	560.6	39. 2
23	322. 2	22.5	83	382. 1	26. 7	43	441.9	30. 9	03	501.8	35.0	63	561.6	39. 2
24	323. 2	22.6	84	383. 1	26.8	44	442.9	31.0	03	502.8	35.1	64	562.6	39.3
25	324, 2	22.7	85	384. 0	26. 9	45	443. 9	31.0	05	503, 8	35. 2	65	563.6	39. 4
20	325. 2	22.7	86		26. 9	46	444.9	31.1	06	504.8	35. 2	66	564. 6	39, 4
26 27	323. 2			385. 0				31. 2	07	505.8	35.3	67	565, 6	39.5
21	326. 2	22.8	87	386. 0	27.0	47	445. 9					68		
28	327. 2	22, 9	88	387.0	27.1	48	446.9	31.2	08	506.8	35.4		566.6	39.6
29	328. 2	23.0	89	388.0	27. 1	49	447.9	31.3	09	507.8	35.5	69	567. 6	39.7
30	329. 2	23.0	90	389.0	27. 2	_50_	448.9	31, 4	10	508.8	35, 6	_70	568.6	39.8
331	330. 2	23. 1	391	390.0	27.3	451	449, 9	31.5	511	509.8	35.6	571	569.6	39. 8
32	331.2	23. 2	92	391.0	27.3	52	450.9	31.5	12	510.8	35.7	72	570.6	39.9
33	332. 2	23, 2	93	392.0	27.4	- 53	451.9	31.6	13	511.8	35.8	73	571.6	40.0
34	333. 2	23.3	94	393.0	27. 5 27. 6	54	452.9	31. 7 31. 7	14	512. 7 513. 7 514. 7	35.8	74 75	$572.6 \\ 573.6$	40.0
35	334. 2	23.4	95	394.0	27.6	55	453.9	31.7	15	513.7	35, 9	75	573.6	40.1
36	335. 2	23.4	- 96	395.0	27.6	- 56	454.9	31.8	16	514.7	36.0	76	574.6	40.2
37	336. 2	23.5	97	396.0	27. 7	57	455. 9	31.9	17	515.7	36.0	77	575.6	40.2
38	337. 2	23.6	98	397.0	27.8	58	456.9	31.9	18	516.7	36.1	78	576.6	40.3
39	338. 2	23.6	99	398.0	27.8	59	457.9	32.0	19	517.7	36, 2	79	577.6	40.4
40	339. 2	23.7	400	399.0	27.9	60	458.9	32. 0 32. 1	20	517. 7 518. 7	36.2	80	578.6	40.5
341	340. 2	23.8	401	400.0	28.0	461	459.9	32. 2	521	519.7	36. 3	581	579.6	40.5
42	340.2	23. 9	02	401.0	28. 0	62	460.9	32. 2	22	520. 7	36.4	82	580.6	40.6
43	341. 2 342. 2	23. 9	03	402.0	28. 1	63	461.9	32. 3	23	521.7	36.4	83	581.6	40.7
49	343.1	$\frac{25.9}{24.0}$	03	403.0	28. 1	64	462.9	32. 4	24	522.7	36, 5	84	582.6	40.7
		24.0	05	404.0	28. 2	65	463. 9	32.4	25	523.7	36.6	85	583.6	40.8
45 46	344.1	24.1	06	405. 0	28. 2	66 66	464.9	32. 4	26 26	524. 7	36.7	86	584. 6	40. 9
47	345.1	24.1			40.0			32. 6	26 27	525.7				
	346.1	24. 2 24. 8	07	406.0	28.4	67	465.8	32.0	21	500 7	36.8	87	585.6	40.9
	347.1	24.3	0S 09	407.0	28.5	68	466.8	32.6	28	526.7	36.8	88	586.6	41.0
48				408.0	28.5	69	467.8	32.7	29	527. 7	36.9	89	587.6	41.1
48 49	348.1				00.0		468.8	32.8	30	528.7	37.0	90	588.6	41.2
48 49 50	349.1	24.4	10	409.0	28, 6	_70_		-						
48 49 50 351	349.1 350.1	24.4 24.5	10 411	$\frac{409.0}{410.0}$	28.7	471	469.8	32. 9	531	529.7	37.0	591	589.6	41.3
$ \begin{array}{r} 48 \\ 49 \\ 50 \\ \hline 351 \\ 52 \\ \end{array} $	349. 1 350. 1 351. 1	24. 4 24. 5 24. 6	$\frac{10}{411}$ 12	$\frac{409.0}{410.0}$ 411.0	$\frac{28.7}{28.7}$	$\frac{471}{72}$	469. 8 470. 8	32. 9 32. 9	32	529. 7 530. 7	37.1	92	590.6	41.3
$ \begin{array}{r} 48 \\ 49 \\ 50 \\ \hline 351 \\ 52 \\ 53 \end{array} $	349. 1 350. 1 351. 1 352. 1	24. 4 24. 5 24. 6 24. 6	$ \begin{array}{r} 10 \\ \hline 411 \\ 12 \\ 13 \end{array} $	409. 0 410. 0 411. 0 412. 0	28.7 28.7 28.8	471 72 73	469. 8 470. 8 471. 8	32. 9 32. 9 33. 0	32 33	529. 7 530. 7 531. 7	37.1 37.2	92 93	590, 6 591, 6	41.3 41.4
48 49 50 351 52 53 54	349. 1 350. 1 351. 1	24.4 24.5 24.6 24.6 24.7	10 411 12 13 14	409.0 410.0 411.0 412.0 413.0	28.7 28.7 28.8 28.9	471 72 73 74	469. 8 470. 8 471. 8	32. 9 32. 9 33. 0 33. 1	32 33 34	529. 7 530. 7 531. 7 532. 7	37.1 37.2 37.2	92 93 94	590, 6 591, 6 592, 6	41. 3 41. 4 41. 5
$ \begin{array}{r} 48 \\ 49 \\ 50 \\ \hline 351 \\ 52 \\ 53 \end{array} $	349. 1 350. 1 351. 1 352. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8	$ \begin{array}{r} 10 \\ \hline 411 \\ 12 \\ 13 \end{array} $	409. 0 410. 0 411. 0 412. 0	28.7 28.7 28.8	471 72 73 74 75	469. 8 470. 8 471. 8	32. 9 32. 9 33. 0 33. 1 33. 1	32 33	529. 7 530. 7 531. 7 532. 7 533. 7	37. 1 37. 2 37. 2 37. 3	92 93	590, 6 591, 6	41.3 41.4
48 49 50 351 52 53 54 55	349. 1 350. 1 351. 1 352. 1 353. 1 354. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8	10 411 12 13 14	409.0 410.0 411.0 412.0 413.0 414.0	28. 7 28. 7 28. 8 28. 9 28. 9 29. 0	471 72 73 74 75	469. 8 470. 8 471. 8 472. 8 473. 8	32. 9 32. 9 33. 0 33. 1	32 33 34	529. 7 530. 7 531. 7 532. 7 533. 7	37. 1 37. 2 37. 2 37. 3	92 93 94	590, 6 591, 6 592, 6	41. 3 41. 4 41. 5
48 49 50 351 52 53 54 55 56	349. 1 350. 1 351. 1 352. 1 353. 1 354. 1 355. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8	10 411 12 13 14 15 16	409.0 410.0 411.0 412.0 413.0 414.0 415.0	28. 7 28. 7 28. 8 28. 9 28. 9 29. 0	471 72 73 74 75 76	469, 8 470, 8 471, 8 472, 8 473, 8 474, 8	32. 9 32. 9 33. 0 33. 1 33. 1 33. 2	32 33 34 35 36	529. 7 530. 7 531. 7 532. 7	37. 1 37. 2 37. 2 37. 3 37. 4	92 93 94 95	590, 6 591, 6 592, 6 593, 6 594, 6	41.3 41.4 41.5 41.5
48 49 50 351 52 53 54 55	349. 1 350. 1 351. 1 352. 1 353. 1 354. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9	10 411 12 13 14 15	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0	28. 7 28. 7 28. 8 28. 9 28. 9	471 72 73 74 75 76 77	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8	32. 9 32. 9 33. 0 33. 1 33. 1	32 33 34 35	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7	37. 1 37. 2 37. 2 37. 3	92 93 94 95 96	590, 6 591, 6 592, 6 593, 6	41. 3 41. 4 41. 5 41. 5 41. 6
48 49 50 351 52 53 54 55 56 57 58	349. 1 350. 1 351. 1 352. 1 353. 1 354. 1 355. 1 356. 1 357. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9 25. 0	10 411 12 13 14 15 16 17 18	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0 417. 0	28.7 28.7 28.8 28.9 28.9 29.0 29.1 29.2	471 72 73 74 75 76 77 78	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8 476. 8	32. 9 32. 9 33. 0 33. 1 33. 1 33. 2 33. 3 33. 3	32 33 34 35 36 37 38	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7 535. 7 536. 7	37. 1 37. 2 37. 2 37. 3 37. 4 37. 5 37. 5	92 93 94 95 96 97 98	590, 6 591, 6 592, 6 593, 6 594, 6 595, 6 596, 6	41. 3 41. 4 41. 5 41. 5 41. 6 41. 7 41. 7
48 49 50 351 52 53 54 55 56 57 58 59	349, 1 350, 1 351, 1 352, 1 353, 1 354, 1 355, 1 356, 1 357, 1 358, 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9 25. 0 25. 0	10 411 12 13 14 15 16 17 18 19	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0 417. 0 418. 0	28. 7 28. 7 28. 8 28. 9 28. 9 29. 0 29. 1 29. 2 29. 2	471 72 73 74 75 76 77 78 79	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8 476. 8 477. 8	32. 9 32. 9 33. 0 33. 1 33. 2 33. 3 33. 3 33. 3	32 33 34 35 36 37 38 39	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7 535. 7 536. 7 537. 7	37. 1 37. 2 37. 2 37. 3 37. 4 37. 5 37. 5	92 93 94 95 96 97 98	590, 6 591, 6 592, 6 593, 6 594, 6 595, 6 596, 6 597, 6	41. 3 41. 4 41. 5 41. 5 41. 6 41. 7 41. 7 41. 8
48 49 50 351 52 53 54 55 56 57 58	349. 1 350. 1 351. 1 352. 1 353. 1 354. 1 355. 1 356. 1 357. 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9 25. 0	10 411 12 13 14 15 16 17 18	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0 417. 0	28.7 28.7 28.8 28.9 28.9 29.0 29.1 29.2	471 72 73 74 75 76 77 78	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8 476. 8	32. 9 32. 9 33. 0 33. 1 33. 1 33. 2 33. 3 33. 3	32 33 34 35 36 37 38	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7 535. 7 536. 7	37. 1 37. 2 37. 2 37. 3 37. 4 37. 5 37. 5	92 93 94 95 96 97 98	590, 6 591, 6 592, 6 593, 6 594, 6 595, 6 596, 6	41. 3 41. 4 41. 5 41. 5 41. 6 41. 7 41. 7
48 49 50 351 52 53 54 55 56 57 58 59 60	349, 1 350, 1 351, 1 352, 1 353, 1 354, 1 355, 1 356, 1 357, 1 358, 1 359, 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9 25. 0 25. 0 25. 1	10 411 12 13 14 15 16 17 18 19 20	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0 417. 0 418. 0 419. 0	28. 7 28. 7 28. 8 28. 9 28. 9 29. 0 29. 1 29. 2 29. 2 29. 3	471 72 73 74 75 76 77 78 79 80	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8 476. 8 477. 8 478. 8	32. 9 32. 9 33. 0 33. 1 33. 2 33. 3 33. 3 33. 4 35. 5	32 33 34 35 36 37 38 39 40	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7 535. 7 536. 7 537. 7 538. 7	37. 1 37. 2 37. 2 37. 3 37. 4 37. 5 37. 5 37. 6 37. 7	92 93 94 95 96 97 98 99 600	590, 6 591, 6 592, 6 593, 6 594, 6 596, 6 597, 6 598, 6	41. 3 41. 4 41. 5 41. 5 41. 6 41. 7 41. 7 41. 8 41. 9
48 49 50 351 52 53 54 55 56 57 58 59	349, 1 350, 1 351, 1 352, 1 353, 1 354, 1 355, 1 356, 1 357, 1 358, 1	24. 4 24. 5 24. 6 24. 6 24. 7 24. 8 24. 8 24. 9 25. 0 25. 0	10 411 12 13 14 15 16 17 18 19	409. 0 410. 0 411. 0 412. 0 413. 0 414. 0 415. 0 416. 0 417. 0 418. 0	28, 7 28, 7 28, 8 28, 9 28, 9 29, 0 29, 1 29, 2 29, 2 29, 3 Lat.	471 72 73 74 75 76 77 78 79 80	469. 8 470. 8 471. 8 472. 8 473. 8 474. 8 475. 8 476. 8 477. 8	32. 9 32. 9 33. 0 33. 1 33. 1 33. 2 33. 3 33. 3 33. 4 35. 5	32 33 34 35 36 37 38 39 40 Dist.	529. 7 530. 7 531. 7 532. 7 533. 7 534. 7 535. 7 536. 7 537. 7	37. 1 37. 2 37. 2 37. 3 37. 4 37. 5 37. 5	92 93 94 95 96 97 98	590, 6 591, 6 592, 6 593, 6 594, 6 595, 6 596, 6 597, 6	41. 3 41. 4 41. 5 41. 5 41. 6 41. 7 41. 7 41. 8

Page 540]

TABLE 2.

Difference of Latitude and Departure for 5° (175°, 185°, 355°).

							1			,	,			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.1	61	60.8	5, 3	121	120.5	10, 5	181	180.3	15.8	241	240.1	21.0
2	2.0	0. 2	62	61.8	5.4	22	121.5	10.6	82	181.3	15.9	42	241.1	21.1
3	3.0	0. 2	63	62.8	5.5	22 23	122.5	10.7	83	182.3	15.9	43	242.1	21.2
4)	4.0	0.3	64	63. 8	5, 6	24	123, 5	10.8	84	183.3	16.0	44	243.1	21.3
5 (5, 0	0.4	65	64.8	5.7	25	124.5	10.9	85	184.3	16.1	45	244.1	21.4
6 7	6.0	0.5	- 66	65, 7	5,8	26	125.5	11.0	86	185, 3	16, 2	46	245. 1	21.4
7	7, 0	0.6	67	66. 7 67. 7	5, 8	27	126, 5	11.1	87	186, 3	16.3	47	246. 1	21.5
- 8	8, 0	0.7	68	67. 7	5, 9	28	127. 5	11.2	88	187.3	16.4	48	247.1	21.6
9	9.0	0.8	69	68, 7	6, 0	29	128.5	11.2	89	188.3	16.5	49	248. 1	21.7
10	10.0	0.9	70	69.7	6, 1	30	129, 5	11.3	90	189.3	16.6	50	249.0	21.8
11	11.0	1.0	71	70.7	6.2	131	130, 5	11.4	191	190.3	16, 6	251	250. 0	21.9
12	12. 0 13. 0	1.0	72 73	71. 7 72. 7 73. 7	6, 3	32	131.5	11.5	92	191.3	16.7	52	251.0	22. 0
-13	13.0	1.1	73	72.7	6.4	33	132, 5	11.6	93	192, 3	16.8	53	252. 0 253. 0	22 1
14	13, 9	1, 2	74	73. 7	6, 4	34	133, 5	11.7	94	193, 3	16.9	54	253, 0	22.1
15	14.9	1.3	75	74. 7	6,5	35	134.5	11.8	95	194. 3	17.0	55	254.0	22. 2
16	15.9	1.4	76	75. 7	6, 6	36	135.5	11.9	96	195.3	17.1	56	255, 0	22.3
17	16, 9	1.5	77	76.7	6, 7	37	136, 5	11.9	97	196.3	17.2	57	256. 0	22.4
18	17.9	1.6	78	77. 7 78. 7	6, 8	38	137.5	12.0	98	197. 2 198. 2	17.3	58	257.0	22. 5 22. 6
19	18.9	1.7	79	18.7	6.9	39	138. 5	12.1	99	198.2	17.3	59 60	258, 0	22.6
20	19. 9	1.7	80	79.7	7.0	40	139.5	12.2	200	199.2	17.4		259, 0	
21	20.9	1.8	81	80. 7 81. 7 82. 7 83. 7	7.1	141	140.5	12. 3 12. 4 12. 5	201	200. 2 201. 2	17. 5	261	260, 0	22. 7
22	21.9	1.9	82	81.7	7.1	42	141.5	12.4	02	201.2	17.6 17.7	62	261.0	22.8
23	22. 9	2. 0 2. 1	83	82. 7	7. 2 7. 3	43	142.5	12.5	03	202. 2	17.7	63	262.0	22. 9
24	23. 9	2, 1	84	83. 7	7.3	44	143.5	12, 6	04	203. 2	17.8	64	263, 0	23.0
25	24. 9	2. 2	85	84.7	7.4	45	144.4	12.6	05	204. 2	17.9	65	264. 0	23. 1
26	25, 9	2. 2 2. 3 2. 4	86	85.7	7. 4 7. 5 7. 6 7. 7	46	145, 4	$12.7 \\ 12.8$	06	205. 2 206. 2	18.0	66	265. 0	23. 2 23. 3
27	26. 9	2.4	87	86.7	7.6	47	116.4	12.8	07	206.2	18.0	67	266. 0 267. 0	23. 3
28	27. 9	2.4	88	87.7	1.1	48 49	117.4	12.9	08 09	207. 2	18.1 18.2	68 69	268, 0	23. 4
29	28. 9	$\frac{2.5}{2.6}$	89 90	88. 7 89. 7	7.8 7.8	50	148, 4 149, 4	13. 0 13. L	10	208.2	18.3	70	269, 0	23. 5
_30	29, 9											271	270. 0	23.6
31	30. 9	2. 7	91	90, 7	7.9	151	150, 4	13. 2 13. 2	211 12	210. 2 211. 2	18.4 18.5	$\frac{271}{72}$	271.0	23, 7
32	31, 9	$\frac{2.8}{2.9}$	92	91.6	8.0	52	151.4		13	212. 2	18.6	73	272.0	23, 8
33	32, 9	3.0	93	92. 6 93. 6	8. 1 8. 2	53 51	152.4 153.4	13. 3 13. 4	14	213. 2	18. 7	74	273. 0	23, 9
34	33, 9 34, 9	3.1	94 95	94, 6	8.3	55	154. 4	13, 5	15	214. 2	18. 7	75	274.0	24. 0
35 36	35. 9	3.1	96	95, 6	8.4	56	155. 4	13, 6	16	215. 2	18.8	76	274. 9	24, 1
37	36. 9	3. 2	97	96, 6	8.5	57	156. 4	13. 7	17	216. 2	18.9	77	275. 9	24. 1
38	37. 9	3, 3	98	97. 6	8.5	58	157. 4	13.8	is	217. 2	19.0	78	276.9	24. 2
39	38, 9	3. 4	99	98.6	8.6	59	158. 4	13. 9	19	218. 2	19, 1	79	277. 9	24.3
40	39.8	3.5	100	99.6	8.7	60	159. 4	13. 9	20	219.2	19. 2	80	278.9	24.4
41	40,8	3, 6	101	100.6	8, 8	161	160. 4	14.0	221	220, 2	19, 3	281	279. 9	24.5
42	41.8	3.5	02	101.6	8.9	62	161.4	14. 1	22	221. 2	19.3	82	280, 9	24.6
48	42.8	3.7 3.7	03	102.6	9.0	63	162. 4	14.9	23	200 0	19, 4	83	281.9	24.7
44	43.8	3.8	0.1	103. 6	9.1	64	163. 4	14. 2 14. 3	24	223. 1	19.5	84	282.9	24.8
45	44. 8	3.9	05	104.6	9. 2	65	164. 4	14. 4	25	224.1	19. 6	85	283, 9	24. 8
46	45, 8	4.0	06	105, 6	9.2	66	165, 4	14.5	96	225.1	19, 7	86	284. 9	24.9
47	46, 8	4.1	07	106.6	9.3	67	166, 4	14.6	27 28	226.1	19, 8	87	285.9	25, 0
48	47.8	4. 2	08	107.6	9.4	68	167.4	14.6	28	227. 1	19, 9	88	286. 9	25.1
49	48.8	4.3	-09	108.6	9.5	69	168. 4	14.7	29	228. 1	20.0	89	287. 9	25.2
50	49, 8	4.4	10	109.6	9.6	70	169.4	14.8	30	229, 1	20.0	90	288.9	25, 3
51	50, 8	4.4	111	110.6	9.7	171	170.3	14. 9	231	230.1	20. 1	291	289.9	25.4
52	51.8	4.5	12	111.6	9, 8	72	171.3 172.3	15. 0	32	231. 1	20, 2	92	290.9	25, 4
53	52. 8	4.6	13	112.6	9.8	73	172.3	15. 1	- 33	232. 1	20.3	93	291. 9	25. 5
54	53, 8	4.7	14	113, 6	9, 9	74	173, 3	15. 2	34	233. 1	20, 4	94	292, 9	25. 6
- 55	54.8	4.8	15	114.6	10.0	75	.174.3	15.3	35	234. 1	20, 5	95	293, 9	25. 7
56	55, 8	4.9	16	115.6	10.1	76	175.3	15. 3	36	235, 1	20.6	96	294. 9	25.8
57	56.8	5.0	17	116.6	10. 2 10. 3	77	176.3	15.4	37	236. 1	20.7	97	295. 9	25. 9
58	57.8	5.1	18	117.6	10.3	78	177.3	15.5	38	237. 1	20.7	98	296. 9	26.0
59	58, 8	5.1	19	118.5	10.4	79	178.3	15, 6	39	238. 1	20.8	99	297. 9	26, 1
60	59, 8	5, 2	20	119.5	10, 5	80	179.3	15. 7	40	239. 1	20, 9	300	298. 9	26, 1
l									-					
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
-	-					850 /	95°, 265	9750)					
1						on (:	, 200	, -10	<i>j</i> •					

Difference of Latitude and Departure for 5° (175°, 185°, 355°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	299. 9	26. 2	361	359, 6	31.5	421	419. 4	36, 7	481	479. 2	41.9	541	538. 9	47. 2
02	300.8	26.3	62	360.6	31.6	22	420.4	36, 8	82	480. 2	42.0	42	539. 9	47.3 47.4
03 04	301. 8 302. 8	26. 4 26. 5	63 64	361.6	31.6 31.7	$\frac{23}{24}$	421. 4 422. 4	36. 9 37. 0	83 84	481. 2	42. 1 42. 2	43 44	540. 9 541. 9	47.4
05	303. 8	26.6	65	362, 6 363, 6	31.8	25	423. 4	37. 0 37. 1	85	482, 2 483, 2	42.3	45	542.9	47.6
-06	304.8	26.7	66	364.6	31.9	26	424.4	37.1	86	484.1	42.4	46	542. 9 543. 9	47. 6 47. 7
07	305, 8	26, 8	67	365, 6	32.0	27	425. 4	37.2	87	485.1	42.4	47	544. 9	47.7
08	306. 8 307. 8	26.9	68 69	366. 6 367. 6	32. 1 32. 2	28 29	426, 4 427, 4	37. 3 37. 4	88 89	486. 1 487. 1	42.5 42.6	48 49	545, 9 546, 9	47.8 47.9
09 10	308.8	$ \begin{array}{c c} 26.9 \\ 27.0 \end{array} $	70	368.6	32. 3	30	428. 4	37.5	90	488.1	42.7	50	547. 9	48.0
311	309.8	27. 1	371	369.6	32. 3	431	429. 4	37.6	491	489.1	42.8	551	548.9	48. 1
12	310.8	27. 2	72	370 6	32. 3 32. 4	32	430, 4	37.7	92	490.1	42.9	52	549.9	48. 2 48. 3
13	311. 8 312. 8	27.3	72 73 74 75	371. 6 372. 6 373. 6	32. 5 32. 6 32. 7	33	431.3	37.7	93	491.1	43.0	53	550.9	48.3
14	312.8	27.4	74	372.6	32.6	34 35	432, 3	37. 8 37. 9	94 95	492. 1 493. 1	43.1	54	551, 9 552, 9	48.4
15 16	313.8 314.8	$27.5 \\ 27.5$	76	374.6	32. 8	36	433, 3 434, 3	38.0	96	494.1	43. 1 43. 2	55 56	553.9	48. 4 48. 5
17	315.8	27.6	77	375.6	32, 9	37	435.3	38. 1	97	495. 1	43.3	57	554.9	48.6
18	316.8	27. 7	78	376.6	33.0	38	436, 3	38. 2	98	496.1	43.4	58	555.9	48. 6 48. 7
19	317.8	27. 8 27. 9	79	$377.6 \\ 378.6$	33.0	39	437. 3 438. 3	38.3	99	497. 1 498. 1	43.5	59	556. 9	48. 8 48. 8
20	318.8		80		33, 1	40		38.4	500		43.6	60	557.9	48.8
321	319. 8 320. 8	28. 0 28. 1	381 82	379.5 380.5	33. 2 33. 3	441 42	439. 3 440. 3	38. 4 38. 5	501 02	499. 1 500. 1	43. 7 43. 8	$\frac{561}{62}$	558.8 559.8	48. 9 49. 0
22 23	321. 8	28. 2	83	381.5	33.4	43	441.3	38.6	03	501. 1	43.8	63	560.8	49.1
24	322.8	28. 2 28. 2	84	381. 5 382. 5	33. 4 33. 5	44	442.3	38.7	04	502.1	43. 9	64	561.8	49. 2
25	323.8	28.3	85	383.5	33. 6 33. 7 33. 7	45	443.3	38.8	05	503.1	44.0	65	562.8	49.3
26	$324.8 \\ 325.8$	28, 4 28, 5	86 87	384. 5 385. 5	33.7	46 47	444.3 445.3	38. 9 39. 0	06 07	504. 1 505. 1	44. 1 44. 2	66 67	563. 8 564. 8	49. 4 49. 5
27 28	326.7	28.6	88	386.5	33. 8	48	446.3	39.1	08	506.1	44.3	68	565.8	49.6
29	326. 7 327. 7	28. 7	89	387.5	33. 9	49	447.3	39. 1	09	507.1	44. 3 44. 4	69	566. 8 567. 8	49.7
30	328.7	28.8	90	388.5	34.0	_50	448.3	39.2	10	508.1	44.5	70	567. 8	49.7
331	329.7	28. 9	391	389. 5	34.1	451	449.3	39.3	511	509.0	44.5	571	568. 8	49.8
32	330. 7 331. 7	28.9	92	390, 5 391, 5	34, 2 34, 3	52	450.3 451.3	39. 4 39. 5	12	510. 0 511. 0	44.6	72 73	569. 8 570. 8	49. 9 50. 0
33 34	332.7	29. 0 29. 1	93 94	392.5	34.3	53 54	452.3	39.6	13 14	512.0	44.7 44.8	74	571.8	50.0
35	333. 7	29. 2	95	393.5	34, 4	55	453. 3	39.7	15	513.0	44.9	75	572.8	50. 1 50. 2 50. 3
36	334.7	29.3	96	394, 5	34.5	56	454.3	39.8	16	514.0	44. 9 45. 0	76 77	573.8	50.3
37 38	335.7	29.4	97 98	395.5	34.6	57 58	455, 3	39.8 39.9	17 18	515.0	45.1	77	574.8	50. 4 50. 4
39	336. 7 337. 7	29. 5 29. 6	99	396. 5 397. 5	34. 7 34. 8	58 59	456.3 457.3	40.0	19	516.0 517.0 518.0	45. 2 45. 2	78 79	574. 8 575. 8 576. 8 577. 8	50.5
40	338. 7	29.6	400	398.5	34. 9	60	458. 2	40.1	20	518.0	45.3	80	577.8	50.6
341		29.7	401	399.5	35.0	461	459. 2	40. 2	521	519.0	45, 4	581	578, 8 579, 8	50.7
42	339.7 340.7	29.8	02	400.5	35.0	62	460. 2	40.3	22 23	520.0	45.5	82	579.8	50.8
43	341.7	29.9	03	401.5	35. 1	63	461. 2 462. 2	40.4	23	521.0	45.6	83	580.8	50.9
44 45	342.7 343.7	30. 0 30. 1	04 05	402.5 403.5	35. 2 35. 3	64 65	463. 2	40. 4 40. 5	24 25	522. 0 523. 0	45.7 45.8	84 85	581.8 582.8	50. 9 51. 0
46	344.7	30. 2	06	404.5	35. 4 35. 5 35. 6 35. 7	66	464. 2	40.6	26	524.0	45.9	86	583. S	1 51.1
47	345. 7 346. 7	30.3	07	405.4	35.5	67	$\frac{465.2}{466.2}$	40.7	27 28 29	525.0	45.9	87	584. 8 585. 8	51. 2 51. 3
48	346. 7	30.3	08	406.4	35.6	68	466.2	40.8	28	526.0	46.0	88	585.8	51.3
49 50	347. 7 348. 7	30. 4 30. 5	09 10	407.4 408.4	35.7	69 70	467. 2 468. 2	40.9 41.0	30	527. 0 528. 0	46.1 46.2	89 90	586. 8 587. 8	51.4 51.5
351	349.7	30, 6	411	409.4	35, 8	471	469. 2	41.1	531	529. 0	46.3	591	588 7	51.6
52	350.7	30.7	12	410.4	35.9	72	470. 2	41.1	32	530.0	46.4	92	588, 7 589, 7	51.6
53	351.7	30.8	13	411.4 412.4	36.0	73	471.2	41.2	33	531.0	46.5	93	590. 7 591. 7	51.7
54	352.6	30. 9	14	412.4	36. 1	74	472. 2 473. 2	41.3	34	532.0	46.6	94	591.7	51.8
55 56	353. 6 354. 6	30, 9 31, 0	15 16	413.4	36, 2 36, 3	75 76	474 9	$\frac{41.4}{41.5}$	35 36	533. 0 533. 9	46.6 46.7	95 96	592.7 593.7	51.9 52.0
57	355.6	31.1	17	414.4 415.4	36.4	76 77	474. 2 475. 2	41.6	37	533. 9 534. 9	46.8	97	593. 7 594. 7	52. 0 52. 1
58	356, 6	31.2	18	416.4	36.4	78	476.2	41.7	38	535, 9	46.9	98	595, 7	52.2
59	357.6	31, 3	19	417.4	36.5	79	477.2	41.8	39	536. 9	47.0	99	596. 7	52.3
60	358, 6	31, 4	20	418.4	36. 6	80	478. 2	41.8	40	537.9	47.1	600	597.7	52. 3
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						85° (8	95°, 265°	, 275°).					
L														

TABLE 2.

Difference of Latitude and Departure for 6° (174°, 186°, 354°).

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											<u> </u>				
$ \begin{array}{c} 2 \\ 3 \\ 3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist,	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	2.0	0.2	62	61. 7 62. 7	6. 5 6. 6	22 23	121.3 122.3	12.8 12.9	82	181.0	19.0	42	240. 7 241. 7	25. 2 25. 3 25. 4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5	5.0	0.5	65	64.6	6.8	25	124.3	13.1	85	184.0	19.3	45	242. 7 243. 7	25. 5 25. 6 25. 7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 8	7. 0 8. 0	0.7 0.8	67 68	66. 6 67. 6	7. 0 7. 1	27 28	126.3 127.3	13.3 13.4	87 88	186. 0 187. 0	19.5 19.7	47 48	245. 6 246. 6	25. 8 25. 9 26. 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	9.9	1.0	70	69, 6	7.3	30	129.3	13.6	90	189.0	19.9	50	248, 6	26. 1 26. 2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14	11. 9 12. 9 13. 9	1.3 1.4 1.5	72 73 74	72.6 73.6	7.5	33 34	132, 3 133, 3	13. 8 13. 9 14. 0	93 94	191. 9 192. 9	20. 1 20. 2 20. 3	52 53 54	250, 6 251, 6 252, 6	26. 3 26. 4 26. 6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16 17	15. 9 16. 9	$\frac{1.7}{1.8}$	76 77	75.6 76.6	7. 9 8. 0	36 37	135.3 136.2	14. 2 14. 3	96 97	194. 9 195. 9	20, 5 20, 6	56 57	254. 6 255. 6	26. 7 26. 8 26. 9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	19 20	18. 9 19. 9	$\frac{2.0}{2.1}$	79 80	78. 6 79. 6	8, 3 8, 4	39 40	$138.2 \\ 139.2$	14.5 14.6	$\frac{99}{200}$	197. 9 198. 9	$\frac{20.8}{20.9}$	59 60	257. 6 258. 6	27. 1 27. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 23	21. 9 22. 9	2. 3 2. 4	82 83	81.6 82,5	8. 6 8. 7	42 43	141. 2 142. 2	14.8 14.9	02 03	200. 9 201. 9	21. 1 21. 2	62 63	260, 6 $261, 6$	27. 3 27. 4 27. 5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25 26	24. 9 25, 9	$\frac{2.6}{2.7}$	85 86	84.5 85.5	8. 9 9. 0	45 46	$144.2 \\ 145.2$	15. 2 15. 3	05 06	203. 9 204. 9	$\frac{21.4}{21.5}$	65 66	263, 5 264, 5	27. 7 27. 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 29	27. 8 28. 8	2. 9 3. 0	88 89	87.5 88.5	$9.2 \\ 9.3$	48 49	147. 2 148. 2	15, 5 15, 6	08 09	206. 9 207. 9	21.7 21.8	68 69	266, 5 $267, 5$	28. 0 28. 1 28. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	31 32	30. 8 31. 8	3. 2	$\frac{91}{92}$	90. 5 91. 5	9.6	52	150. 2 151. 2	15. 9	12	209. 8 210. 8	22. 1 22. 2	$\frac{271}{72}$	269. 5 270. 5	28. 3 28. 4 28. 5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34 35 36	33, 8 34, 8	3, 6 3, 7	94 95	93. 5 94. 5 95. 5	9.8	54 55	153. 2 154. 2 155. 1	16. 1 16. 2 16. 3	14 15 16	212. 8 213. 8 214. 8	22. 4 22. 5 22. 6	74 75 76	272.5 273.5 274.5	28. 6 28. 7 28. 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	38 39	37. 8 38. 8	4.0 4.1	98 99	97.5 98.5	10. 2 10. 3	58 59	157. 1 158, 1	16.5 16.6	$\frac{18}{19}$	$216.8 \\ 217.8$	22.7 22.8 22.9	78 79	276. 5 277. 5	29. 0 29. 1 29. 2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	41 42	40.8 41.8	4.3 4.4	$\begin{array}{c} 101 \\ 02 \end{array}$	100, 4 101, 4	10, 6 10, 7	$\frac{161}{62}$	160, 1 161, 1	16. 8 16. 9	221 22	219. 8 220. 8	$\frac{23.1}{23.2}$	$\frac{281}{82}$	279. 5 280. 5	29. 4 29. 5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	44 45	43.8 44.8	4. 6 4. 7	04 05	103. 4 104. 4	10. 9 11. 0	64 65	163.1 164.1	$17.1 \\ 17.2$	24 25	222. 8 223. 8	23.4 23.5	84 85	282. 4 283. 4	29. 7 29. 8 29. 9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	48 49	46. 7 47. 7 48. 7	5. 0 5. 1	08 09	106. 4 107. 4 108. 4	11.3 11.4	68 69	167.1 168.1	17.5 17.6 17.7	28 29	226, 8 227, 7	23. 8 23. 9	88 89	286. 4 287. 4	30, 0 30, 1 30, 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	51 52	50. 7 51. 7	5. 3 5. 4	$\begin{array}{c c} \hline 111 \\ 12 \end{array}$	110.4 111.4	11, 6 11, 7	$\frac{171}{72}$	170.1 171.1	17. 9 18. 0	$\frac{231}{32}$	$\frac{229.7}{230.7}$	$24.1 \\ 24.3$	291 92	289. 4 290. 4	30. 4 30. 5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	54 55	53. 7 54. 7	5. 6 5. 7	14 15	113. 4 114. 4	$11.9 \\ 12.0$	74 75	173. 0 174. 0	18. 2 18. 3	34 35	232. 7 233. 7	$24.5 \\ 24.6$	94 95	292, 4 293, 4	30. 7 30. 8
60 59,7 6,3 20 119,3 12,5 80 179,0 18,8 40 238,7 25,1 300 298,4 31.	57 58	56. 7 57. 7	6, 0 6, 1	17 18	$\frac{116.4}{117.4}$	$12.2 \\ 12.3$	77 78	176. 0 177. 0	18, 5 18, 6	37 38	235. 7 236. 7	24.8 24.9	97 98	295, 4 $296, 4$	31. 0 31. 1 31. 3
ther Den Lat Dist Den Lat Dist Den Lat Dist Den Lat Dist Den Lat			6. 3									25, 1			31. 4
84° (96°, 264°, 276°).	Dist.	Dep.	Lat	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

TABLE 2.

Difference of Latitude and Departure for 6° (174°, 186°, 354°).

Dist.	Let.	Dep.	Tal. A	-										
		Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lut.	Dep.
301	299.3	31.5	361	359.0	37.7	421	418.7	44.0	481	478.4	50, 3	541	538, 0	56, 5
02	300.3	31.6	62	360.0	37.8	22	419.7	44.1	82	479.4	50.4	42	539, 0	56.6
03	301.3	31.7	63	361.0	37.9	23	420.7	44.2	83	480.4	50.5	43	540.0	56.7
04	302.3	31.8	64	362, 0	38.0	24	421.7 422.7	44.3	84	481, 3	50, 6	44	541.0	56, 8
05	303, 3	31.9	65	363. 0	38.1	25	422, 7	44.4	85	482, 3	50.7	45	542.0	56. 9
06	304.3	32.0	66	364.0	38.3	26	423, 7	44.5	86	483.3	50.8	46	543.0	57.0
07	305.3	32.1	67	365.0	38.4	27	424.7	44.6	87	484.3	50.9	47	544.0	57. 1 57. 2
08	306.3 307.3	32. 2 32. 3	68	366.0	38, 5 38, 6	28 29	425. 7 426. 6	44.7 44.8	88 89	485.3	$51.0 \\ 51.1$	48 49	545. 0 546. 0	57.3
09		32. 4	69 70	367. 0 368. 0	38.7	30	427.6	44.9	90	486.3 487.3	51.2	50	547.0	57.4
10	308.3				38.8		428.6			488.3	51.3	551	548.0	57.5
311	309.3	32, 5 32, 6	371	369, 0 370, 0	38.9	$\frac{431}{32}$	429, 6	45. 0 45. 2	491 92	489.3	51.4	52	549.0	57 6
12 13	310.3 311.3	32.7	72 73	371.0	39.0	33	430.6	45. 3	93	490.3	51.5	53	550.0	57.7
14	312.3	32.8	74	371. 9	39, 1	34	431.6	45.4	94	491.3	51, 6	54	551.0	57.9
15	313.3	32. 9	75	372. 9	39. 2	35	432.6	45.5	95	492.3	51.7	55	552. 0	58.0
16	314.3	33.0	76	373.9	39.3	36	433.6	45.6	96	493.3	51.8	56	553. 0	58.1
17	315.3	33.1	76 77	374.9	39.4	37	434.6	45.7	97	494.3	51.9	57	554.0	58. 2
18	316.3	33, 2	78	375.9	39.5	38	435, 6	45.8	98	495.3	52.0	58	555.0	58.3
19	317.3	33.3	79	376.9	39.6	39	436, 6	45.9	99	496.3	52.1	59	556.0	58.4
20	318.2	33, 4	80	377.9	39. 7	_40	437.6	46, 0	500	497.3	52.3	60	556. 9	58.5
321	319. 2	33.6	381	378.9	39. 8	441	438, 6	46.1	501	498.3	52.4	561	557.9	58.6
22	320.2	33. 7	82	379.9	39.9	42	439, 6	46.2	02	499.3	52.5	62	558.9	58.7
23	321.2	33.8	83	380.9	40.0	43	440.6	46.3	03	500. 2	52.6	63	559.9	58.8
24 25	322. 2 323. 2	33. 9	84	381.9	40.1	44	441.6	46.4	04	501.2	52.7	64	560.9	59.0
25	323. 2	34.0	85	382.9	40.2	45	442.6	46.5	05	502. 2	52.8	65	561. 9 562. 9	59.1
26	$324.2 \\ 325.2$	34.1 34.2	86 87	383.9 384.9	40.3	46 47	443.6 444.5	46.6 46.7	06 07	503. 2 504. 2	52. 9 53. 0	66 67	563. 9	59. 2 59. 3
27	326.2	34. 3	88	385.9	40.6	48	445.5	46. 8	08	505.2	53.1	68	564. 9	59.4
29	327.2	34. 4	89	386.9	40.7	49	446.5	46.9	09	506. 2	53. 2	69	565. 9	59.5
30	328. 2	34.5	90	387.9	40.8	50	447.5	47.0	10	507. 2	53.3	70	566. 9	59.6
331	329. 2	34.6	391	388.9	40.9	451	448.5	47.1	511	508. 2	53. 4	571	567.9	59.7
32	330.2	34. 7	92	389.9	41.0	52	449.5	$\frac{47.2}{47.3}$	12	509. 2 510. 2	53.5	72 73	568.9	59.8
33	331.2	34.8	93	390.8	41.1	53	450.5	47.3	13	510.2	53.6	73	569.9	59, 9
34	332.2	34.9	94	391.8	41.2	54	451.5	47.5	14	511.2	53. 7	74	570.9	60.0
35	333. 2	35.0	95	392.8	41.3	55	452.5	47.6	15	512. 2	53.8	75	571.9	60.1
36	334. 2	35.1	96	393.8	41.4	56	453.5	47.7	16	513. 2	53.9	76	572. 9 573. 9	60. 2
37	335. 2	35. 2	97	394.8	41.5	57	454.5	47.8	17	514.2	54.0	77	573.9	60. 3
38	336. 1 337. 1	35.3	98	395.8	$\frac{41.6}{41.7}$	58 59	455. 5 456. 5	47.9 48.0	18 19	515. 2 516. 2	$54.1 \\ 54.2$	78 79	574.9 575.8	60. 4 60. 5
39	338.1	35. 4 35. 5	400	396.8 397.8	41.8	60	457.5	48.1	20	517.2	54.3	80	576.8	60.6
341	339.1	35, 6	401	398.8	41.9	461	458.5	48. 2	521	518.1	54.5	581	577.8	60.7
42	340. 1	35.7	02	399.8	42.0	62	459.5	48.3	22	519.1	54.6	82	578.8	60.8
43	341.1	35.8	03	400.8	42.1	63	460.5	48.4	23	520.1	54, 7	83	579.8	60.9
44	342.1	36.0	04	401.8	42.2	64	461.5	48, 5	24	521.1	54.8	84	580.8	61.1
45	342. 1 343. 1	36. 1	05	402.8	42.2 42.3	65	462.5	48.6	25	522. 1	54.9	85	581.8	61.2
46	344.1	36.2	. 06	403.8	42.4	66	463.4	48.7	26	523.1	55.0	86	582.8	61.3
47	345.1	36. 3	07	404.8	42, 5	67	464.4	48.8	27	524.1	55, 1	87	583. 8	61.4
48	346. 1	36.4	- 08	405.8	42.6	68	465.4	48.9	28	525.1	55.2	88	584.8	61.5
49	347.1	36.5	09	406.8	42.7	69	466.4	49.0	29	526.1	55.3	89	585. 8	61.6
50	348, 1	36.6	_10_	407.8	42.9	_70_	467.4	49.1	30	527.1	55, 4	90	586.8	61.7
351	349.1	36. 7	411	408.7	43.0	471	468.4	49. 2	531	528. 1	55.5	591	587.8	61.8
52	350.1	36.8	12 13	409.7	43.1	72 73	469.4	49.3	32	529.1	55.6	92	588, 8	61.9
53	351.1	36.9	13	410.7	43.2	73	470.4	49.4	33	530.1	55.7	93	589.8	62.0
54 55	352. 1 353. 1	37. 0 37. 1	14 15	411.7 412.7	43, 3 43, 4	74 75	471. 4 472. 4	49.5 49.6	34 35	531. 1 532. 1	55. 8 55. 9	94 95	590. 8 591. 8	62. 1 62. 2
56 56	354.0	37. 2	16	413.7	43.5	76	473.4	49. 6	36	533.1	56.0	96	592.8	62. 2
57	355.0	37.3	17	414.7	43.6	77	474.4	49.8	37	534.1	56.1	97	593. 8	62. 4
58	356.0	37.4	18	415.7	43.7	78	475.4	50.0	38	535, 1	56.2	98	594.7	62.5
59	357. 0	37.5	19	416.7	43.8	79	476.4	50.1	39	536.1	56.3	99	595.7	62.6
60	358. 0	37.6	20	417.7	43. 9	80	477.4	50. 2	40	537.1	56.4	600	596. 7	62. 7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

84° (96°, 264°, 276°).

Page 544]

TABLE 2.

Difference of Latitude and Departure for 7° (173°, 187°, 353°).

							- cpure		. (1.	0,107	, 000				
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
1	1.0	0.1	61	60, 5	7.4	121	120.1	14.7	181	179.7	22.1	241	239. 2	29. 4	
2	2.0	0.2	62	61.5	7.6	22	121.1	14.9	82	180.6	22, 2	42	240. 2	29.5	
3	3.0	0.4	63	62, 5	7.6 7.7 7.8 7.9	23	122.1	15.0	83	181.6	22.3	43	241, 2	29.6	
4	4.0	0.5	64	63. 5	7.8	24	123.1	15, 1	84	182.6	22.4	44	242.2	29.7	
5	5.0	0,6	65	64.5	7.9	25	124.1	15.2	85	183.6	22.5	45	243.2	29. 9	
6	6, 0	0.7	66	65, 5	8.0	26	125. 1	15.4	86	184.6	22.7	46	244.2	30.0	
7	6.9	0.9	67	66, 5	8, 2	27	126. 1	15.5	87	185.6	22.8	47	245.2	30.1	
8	7.9	1.0	68	67. 5	8.3	28	127.0	15.6	88	186.6	22.9	48	246.2	30. 2	
9	8.9	1.1	69 70	68. 5	8.4 8.5	29 30	128. 0	15.7	89 90	187.6	23.0	49	247.1	30.3	
10	9,9			69.5			129.0	15.8		188.6	23. 2	50	248.1	30.5	
11	10. 9 11. 9	1.3	$\frac{71}{72}$	70.5 71.5	S. 7 S. 8	131 32	130. 0 131. 0	16.0	191 92	189.6	23. 3 23. 4	251	249.1	30.6	
12 13	12. 9	1.5	73	72.5	8.9	33	132. 0	16. 1 16. 2	93	190.6 191.6	23. 5	52 53	250. 1 251. 1	30.7	
14	13. 9	1.7	74	73. 4	9.0	34	133. 0	16.3	94	192.6	23. 6	54	252. 1	31.0	
15	14. 9	1.8	75	74.4	9, 1	35	134.0	16.5	95	193.5	23. 8	55	253. 1	31. 1	
16	15. 9	1.9	76	75.4	9.3	36	135.0	16.6	96	194.5	23. 9	56	254. 1	31. 2	
17	16. 9	2.1	77	76.4	9.4	37	136.0	16.7	97	195.5	24.0	57	255.1	31, 3	
18	17.9	2.2	78	77.4	9.5	38	137.0	16.8	98	196.5	24.1	58	256.1	31, 4	
19	18.9	2.3	79	78.4	9.6	39	138.0	16.9	99	197.5	24.3	59	257.1	31.6	
20	19.9	2.3 2.4	80	79.4	9.7	40	139.0	17.1	200	198.5	24.4	60	258.1	31.7	
21	20, 8	2.6	81	80.4	9.9	141	139. 9	17.2	201	199.5	24.5	261	259.1	31.8	
22	21.8	2.7	82	81.4	10.0	42	140.9	17.3	02	200.5	24.6	62	260.0	31.9	
23	24 23.8 2.9 84 83.4 10.2 44 142.9 17.5 04 202.5 24.9 64 262.0 32.5														
24	$25 \mid 24.8 \mid 3.0 \mid 85 \mid 84.4 \mid 10.4 \mid 45 \mid 143.9 \mid 17.7 \mid 05 \mid 203.5 \mid 25.0 \mid 65 \mid 263.0 \mid 32.3 \mid 25.0 \mid 2$														
26 25.8 3.2 86 85.4 10.5 46 144.9 17.8 06 204.5 25.1 66 264.0 32.4															
$oxed{27}$ $oxed{26.8}$ $oxed{3.3}$ $oxed{87}$ $oxed{86.4}$ $oxed{10.6}$ $oxed{47}$ $oxed{145.9}$ $oxed{17.9}$ $oxed{07}$ $oxed{205.5}$ $oxed{25.2}$ $oxed{67}$ $oxed{265.0}$ $oxed{32.5}$															
$oxed{28}$ $oxed{27.8}$ $oxed{3.4}$ $oxed{88}$ $oxed{87.3}$ $oxed{10.7}$ $oxed{48}$ $oxed{146.9}$ $oxed{18.0}$ $oxed{08}$ $oxed{206.4}$ $oxed{25.3}$ $oxed{68}$ $oxed{266.0}$ $oxed{32.7}$															
$oxed{29} \mid 28.8 \mid 3.5 \mid 89 \mid 88.3 \mid 10.8 \mid 49 \mid 147.9 \mid 18.2 \mid 09 \mid 207.4 \mid 25.5 \mid 69 \mid 267.0 \mid 32.8$															
29 28.8 3.5 89 88.3 10.8 49 147.9 18.2 09 207.4 25.5 69 267.0 32.8 30 29.8 3.7 90 89.3 11.0 50 148.9 18.3 10 208.4 25.6 70 268.0 32.9															
30 29.8 3.7 90 89.3 11.0 50 148.9 18.3 10 208.4 25.6 70 268.0 32.9 31 30.8 3.8 91 90.3 11.1 151 149.9 18.4 211 209.4 25.7 271 269.0 33.0															
31 30.8 3.8 91 90.3 11.1 151 149.9 18.4 211 209.4 25.7 271 269.0 33.0															
32 31.8 3.9 92 91.3 11.2 52 150.9 18.5 12 210.4 25.8 72 270.0 33.1 33.8 4.0 93 92.3 11.3 53 151.9 18.6 13 211.4 26.0 73 271.0 33.3															
34 33.7 4.1 94 93.3 11.5 54 152.9 18.8 14 212.4 26.1 74 272.0 33.4															
34 33, 7 4, 1 94 93, 3 11, 5 54 152, 9 18, 8 14 212, 4 26, 1 74 272, 0 33, 4 35 34, 7 4, 3 95 94, 3 11, 6 55 153, 8 18, 9 15 213, 4 26, 2 75 273, 0 33, 5															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
37	36, 7	4, 5	97	96, 3	11.8	57	155.8	19. 1	17	215.4	26. 4	77	274.9	33, 8	
38	37.7	4.6	98	97.3	11.9 12.1	58	156.8	19.3	18	216.4	26.6	78	275.9	33.9	
39	38.7	4.8	99	98.3	12.1	59	157.8	19. 4	19	217.4	26.7	79	276.9	34.0	
40	39.7	4.9	100	99.3	12.2	60	158.8	19,5	20	218.4	26.8	80	277.9	34.1	
41	40.7	5.0	101	100.2	12.3	161	159. 8	19.6	221	219. 4	26, 9	281	278.9	34. 2	
42 43	$\frac{41.7}{12.7}$	5.1	02	101, 2 102, 2	12.4 12.6	62 63	160. S	19, 7 19, 9	22 23	220, 3	27. 1 27. 2	82 83	279. 9	34, 4	
44	42. 7 43. 7	5, 4	03	103. 2	12. 6	64	162.8	20, 0	23	222.3	27.3	83	280. 9 281. 9	34.6	
45	44.7	5, 5	05	103.2	12. 7	65	163.8	20.0	24	223.3	27. 4	85	281. 9	34.7	
46	45.7	5, 6	06	105. 2	12. 9	66	164.8	20. 2	26	224 3	27.5	86	283. 9	34. 9	
47	46.6	5.7	07	106. 2	13.0	67	165, 8	20.4	27	225. 3	27. 7	87	284. 9	35, 0	
48	47.6	5.8	08	107.2	13. 2	68	166, 7	20.5	28	226.3	27.8	88	285, 9	35.1	
49	48, 6	6, 0	(99	108, 2	13.3	69	167.7	20, 6	29	227.3	27. 9	89	286, 8	35. 2	
50	49.6	6. 1	10	109.2	13.4	70	168.7	20.7	30	228.3	28.0	90	287.8	35, 3	
51	50.6	6, 2	111	110.2	13.5	171	169.7	20, 8	231	229.3	28. 2	291	288. 8	35.5	
52	51.6	6.3	12	111.2	13.6	72	170.7	21.0	32	230.3	28.3	92	289, S	35, 6	
53	52, 6	6, 5	13	112.2	13.8	73	171.7	21.1	33	231.3	28, 4	93	290, 8	35. 7	
54	53, 6	6, 6	14	113. 2	13.9	74	172.7	21.2	34	232.3	28.5	94	291.8	35.8	
55	54.6	6.7	15	114. I	14.0	75	173. 7	21.3	35	233, 2	28.6	95	202. 8	36, 0	
56	55, 6 56, 6	6, 8	16 17	115. I 116. I	14.1	76 77	174. 7 175. 7	21.4	36 37	234, 2 235, 2	28. 8 28. 9	96 97	293. 8 294. 8	36, 1 36, 2	
57 58	57.6	7.1	18	117. 1	14. 4	78	176. 7	21. 6	38	236, 2	28.9	98	294. 8 295. 8	36.3	
59	58.6	7.2	19	118.1	14. 4	79	177.7	21.8	39	237. 2	29. 1	99	296, 8	36. 4	
60	59, 6	7.3	20	119.1	14.6	80	178.7	21. 9	40	238. 2	29. 2	300	297.8	36, 6	
'''		,,	1 -"	1 1 1	1	1		1	l "					,,,,,	
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lut,	Dist.	Dep.	Lat.	
	1 12			1.414	.,	•		_		2.10	,				
Į .						83° (97°, 263	°, 277°).						
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TABLE 2.

Difference of Latitude and Departure for 7° (173°, 187°, 353°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.
-		01.5	0.01	050.0		101	417.0	51.0	403	177 1	50.0		595.0	45.0
301	298. 7	36.7	361	358.3	44.0	421 22	417.9	51.3	481	477.4	58. 6 58. 7	541 42	537. 0 537. 9	65. 9 66. 0
02	299.7	36, 8 36, 9	62 63	359.3 360.3	44.1 44.2	23	$418.8 \\ 419.8$	51.4 51.5	82 83	$478.4 \\ 479.4$	58.8	43	538. 9	66. 2
04	300. 7 301. 7 302. 7	37. 0	64	361.3	44.4	91	420.8	51.7	84	480.4	59.0	44	539, 9	66.3
05	302.7	37. 2	65	362.3	44.5	24 25	421.8	51.8	85	481.4	59.1	45	540.9	66.4
06	303.7	37.3	66	363.3	44.6	26	422. 8	51.9	86	482. 4	59. 2	46	541.9	66, 6
07	304. 7	37.4	67	364. 3	44.7	27	423. 8	52.0	87	483. 4	59.4	47	542. 9	66. 7
08	305.7	37.5	68	365, 2	44.8	28	424.8	52. 2	88	484.3	59.5	48	543. 9	66.8
- 09	306.7	37.7	69	366. 2	45.0	29	425.8	52, 3	89	485.3	59, 6	49	544.9	66. 9
10	306. 7 307. 7	37. 7 37. 8	70	366. 2 367. 2	45.1	30	426.8	52, 3 52, 4	90	486.3	59.7	50	545.9	67.0
311	308.7	37. 9	371	368. 2	45. 2	431	427.8	52.5	491	487.3	59.8	551	546, 9	67. 1
12 13	309.7	38.0	72 73	369. 2	45. 3 45. 5	32	428, 8	$52.6 \\ 52.8$	92	488.3	59.9	52	547.9	67. 2
13	310.7	38. 1	73	370. 2 371. 2	45.5	33	429.8	52.8	93	489.3	60.1	53	548.9	67. 4
14	311.7	38.3	74	371. 2	45, 6	34	430, 8	52.9	94	490.3	60.2	54	549, 9	67. 5
15	312.6	38, 4	75	372.2	45.7	35	431.7 432.7	53.0	95	491.3	60.3	55	550, 8	67.6
16	313.6	38.5	76 77	373. 2	45.8	36	432. 7	53.1	96	492.3	60.5 60,6	56 57	551.8 552.8	$\begin{array}{c}+67.8\\+67.9\end{array}$
17	314.6	38. 6 38. 7	45	275 9	45.9 46.1	37 38	433, 7 434, 7	53.3	97	493.3 494.3	60.7	58	553. 8	68. 0
18 19	315. 6 316. 6	38. 9	78 79	374. 2 375. 2 376. 2	46. 2	39	435. 7	53. 4 53. 5	99	495.3	60. s	59	554.8	68.1
20	317.6	39. 0	80	377.2	46, 3	40	436.7	53.6	500	496.3	61.0	60	555. 8	68, 3
321	318.6	39. 1	381	378.1	46. 4	441	437.7	53. 7	501	497. 2	61.1	$\frac{561}{}$	556. 8	68, 4
22	319.6	39. 2	82	379.1	46.5	42	438. 7	53. 9	02	198 9	61. 9	62	557.8	68, 5
23	320.6	39, 4	83	380. 1	46.7	43	439. 7	54.0	03	498. 2 499. 2	61. 2 61. 3	63	557. 8 558. 8	68. 6
24	321.6	39. 5	84	381. 1	46.8	44	440.7	54.1	04	500. 2	61.4	64	559. 8	68, 7
25	322.6	39.6	85	382. 1	146 9	45	441.7	54.2	05	501.2	61.5	65	560.8	68, 9
26	323.6	39. 7	86	383. 1	47.0	46	442.7	54. 2 54. 3	06	501. 2 502. 2	61.6	- 66	561.8	69. 0
26 27	324.6	39.8	87	384.1	47. 0 47. 2 47. 3	47	442. 7 443. 7	54.5	07	503. 2 504. 2	61.8	67	562. 8 563. 8	69, 1
28	325, 5	40.0	- 88	385.1	47.3	48	444.7	54.6	-08	504.2	61.9	68	563. 8	69, 2
29	326.5	40.1	89	386.1	47.4	49	445.6	54.7	09	505. 2	62.0	69	564. 8 565. 8	69. 3
30	327.5	40, 2	90	387.1	47.5	_50	446.6	54.8	10	506.2	62, 1	70		69.4
331	328, 5	40.3	391	388.1	47.6	451	447.6	55.0	511	507. 2	62. 3	571	566. 7	69. 6
32	329.5	40.5	92	389. 1	47.8 47.9	52	448.6 449.6	55.1	12	508, 2	62, 4	72	567.7	69. 7
33	330.5	40.6	93	390. 1	47.9	53	449.6	55. 2 55. 3	13	509. 2	62.5	73	568, 7 569, 7	69.8
34 35	331.5	40.7	94 95	391. 1 392. 0	48. 0 48. 1	54 55	450. 6 451. 6	55.4	14 15	510. 2 511. 1	62.6	74 75	570.7	69. 9 70. 1
36	332.5 333.5	40. 8 40. 9	96	393. 0	48.3	56	452.6	55.6	16	512. 1	62. 7 62. 9	76	571.7	70. 2
37	334.5	41.1	97	394.0	48.4	57	453 6	55.7	17	513.1	63. 0	77	572. 7	$70.2 \\ 70.3$
38	335.5	41.9	98	395.0	48.5	58	453, 6 454, 6	55.8	18	514.1	63. 1	78	573. 7	70.4
39	336.5	41.3	99	396.0	48.6	59	455.6	55.9	19	515.1	63. 2	79	570. 7 571. 7 572. 7 573. 7 574. 7	70. 4 70. 5
40	337.5	41.4	400	397.0	48.7	60	456.6	56.1	20	516.1	63.4	80	575.7	70. 7
341	338, 4	41.6	401	398, 0	48. 9	461	457.6	56. 2	521	517.1	63.5	581	576.7	70.8
42	339.4	41.7	-02	399.0	49.0	62	458.5	56.3	22	518.1	63.6	82	577.6	70. 9
43	340.4	41.8	03	400.0	49. 1 49. 2	63	459. 5 460. 5	56.4	23	519.1	63. 7	83	578.6	+71.0
44	341.4	141.9	04	401.0	49. 2	64	460.5	56.5	24	520.1	63. 8	84	579.6	$71.2 \\ 71.3$
45	342.4	42.0	05	402.0	49.4	65	461.5	56. 4 56. 5 56. 7	25	521.1	64.0	85	580.6	71.3
46	343.4	42.2	06	403.0	49.5	66	462.5	56.8	26	522.1	64.1	86	581.6	71. 4 71. 5
47	344.4	42.3	07	404.0	49.6	67	463.5	56.9	27	523.1	64.2	87	582.6	71.5
48	345.4	42.4	08 09	405.0 405.9	49.7 49.8	68 69	464.5 465.5	57. 0 57. 2 57. 3	28 29	524. 1 525. 0	64.3 64.5	88 89	583. 6 584. 6	71. 6 71. 8
49 50	346. 4 347. 4	42.6	10	406.9	50.0	70	466.5	57.2	30	526.0	64.6	90	585.6	71. 9
351	348. 4	42.8	411	407. 9	50. 0	171	467.5	57.4	531	527.0	64. 7	591	586.6	72.0
591	349.4	42.8	19	407. 9	50.1	471 72 73	467. 5	57.5	32	528.0	64.7	92	587 B	72.1
52 53	350.4	42.9 43.0	12 13	409.9	50. 2 50. 3	73	469.5	57. 5 57. 6 57. 8 57. 9	33	528. 0 529. 0	64. 8 64. 9	93	587. 6 588. 6	72. 1 72. 2 72. 4
54	351. 4	43.1	14	410.9	50.4	74	470.5	57.8	34	530.0	65.1	94	589.6	72.4
55	352.3	43.3	15	411.9	50.6	75	471.5	57.9	35	531.0	65. 2	95	590.6	72.5
56	353, 3	43.4	16	: 412.9	50.7	76	472.4	58.0	36	532.0	65. 3	96	591.5	$72.5 \\ 72.6$
57	354.3	43.5	17	413. 9 414. 9	50.8	77	472. 4 473. 4	58.1	37	533.0	65.4	97	592, 5 593, 5	72.7
58	355.3	43.6	18	414.9	50.9	78	474.4	58.2	38	534.0	65, 6	98	593.5	72.9
	$59 \mid 356, 3 \mid 43, 7 \mid 19 \mid 415, 9 \mid 51, 1 \mid 79 \mid 475, 4 \mid 58, 4 \mid 39 \mid 535, 0 \mid 65, 7 \mid 99 \mid 594, 5 \mid 73, 0 \mid$													
60	357.3	43.9	20	416.9	51.2	80	476.4	58.5	40	536.0	65.8	600	595, 5	73. 1
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Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						83° (9 7° , 263	°, 277°).					

Page 546]

TABLE 2.

Difference of Latitude and Departure for 8° (172°, 188°, 352°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
		<u>-</u>										_		<u> </u>
1	1.0	0.1	61	60.4	8.5	121	119.8	16.8	181	179. 2	25, 2	241	238.7	33. 5
2	2.0	0.3	62	61.4	8.6	22	120.8	17.0	82	180. 2	25. 3	42	239.6	33.7
3	3.0	0.4	63	62.4	8, 8	23	121.8	17.1	83	181. 2	25.5	43	240.6	33.8
4	4. 0	0.6	64	63. 4	8, 9	24	122.8	17. 1 17. 3	84	182. 2	25. 6	44	241.6	-34.0
5	5, 0	0.7	65	64.4	9, 0	25	123.8	17.4	- 85	183.2	25. 7	45	242.6	34.1
6	5. 9	0, 8	- 66	65.4	9. 2	26	124.8	17.5	-86	184. 2	25.9	46	243.6	34.2
7 .	6.9	1.0	67	66, 3	9.3	27	125.8	17.7	87	185, 2	26.0	47	244.6	34.4
8	7.9	1.1	68	67.3	9, 5	28	126.8	17.8	-88	186, 2	26.2	48	245.6	34.5
9	8.9	1, 3	69	68.3	9.6	29	127.7	18.0	89	187, 2	26.3	49	246.6	34.7
10	9, 9	1.4	70	69.3	9. 7	30	128.7	18.1	90	188, 2	26.4	50	247.6	34.8
11	10.9	1.5	71	70.3	9. 9	131	129.7	18. 2	191	189. 1	26. 6	251	248.6	34.9
12	11.9	1. 7	79	71.3	10.0	32	130, 7	18.4	92	190. I	26. 7	52	249. 5	35.1
13	12.9	1.8	72 73	79.3	10.9	33	131.7	18.5	93	191. 1	26. 9	53	250. 5	35, 2
14	13. 9	1.9	74	72.3 73.3	10.2 10.3	34	132. 7	18.6	94	192.1	27. 0	54	251.5	35. 3
15	14.9	2. 1	75	74.3	10.4	35	133. 7	18, 8	95	193. 1	27. 1	55	252. 5	35. 5
16	15.8	2. 2	76	75. 3	10. 6	36	134. 7	18.9	96	194. 1	27. 3	56	253, 5	35. 6
17	16.8	2.4	77	76. 3	10. 7	37	135. 7	19. 1	97	195, 1	27. 4	57	254. 5	35. 8
18	17.8	9.5	78	77. 2	10. 9	38	136. 7	19. 2	98	196, 1	27. 6	58	255, 5	35. 9
19	18.8	$\frac{2.5}{2.6}$	79	78. 2	11, 0	39	137. 7	19.3	99	196. 1	27. 7	59	256. 5	
20	19.8	2.8	80	79. 2	11. 1	40			200	197.1	97.7	60		36.0
							138.6	19.5			27.8		257.5	36. 2
21	20.8	2. 9 3. 1	81	80. 2	11.3	141	139, 6	19.6	201	199. 0	28. 0	261	258. 5	36. 3
22	21.8	3.1	82	81.2	11.4	42	140, 6	19, 8	02	200. 0	28. 1	62	259.5	36.5
23	22.8	3.2	83	82. 2	11.6	43	141.6	19.9	-03	201.0	28, 3	63	260. 4	36.6
24	23. 8	3.3	84	83. 2	11.7	44	142.6	20.0	04	202.0	28, 4	64	261.4	36. 7
25	24.8	3.5	85	84. 2	11.8	45	143.6	20. 2	05	203.0	28. 5	65	262. 4	36.9
26	25.7	3, 6	86	85.2	-12.0	46	144.6	20.3	-06	204.0	28.7	-66	263.4	37.0
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					12.8						29, 5			37.9
33	32.7	4.6	93	92.1	12.9	53	151.5	21.3	13	210.9	29.6	73	270.3	38.0
34	33. 7	4.7	94	93.1	13.1	54	152.5	21.4	14	211.9	29.8	74	271.3	38. 1
35	34.7	4.9	95	94.1	13, 2	55	153.5	21.6	15	212.9	29.9	75	272.3	38.3
36	35. 6	5, 0	96	95. 1	13.4	56	154.5	21.7	16	213.9	30. 1	76	273.3	38, 4
37	36, 6	5.1	97	96.1	13.5	57	155.5	21.9	17	214.9	30. 2	77	274.3	38.6
38	37.6	5.3	98	97.0	13. 6	58	156.5	22.0	18	215. 9	30.3	78	275.3	38, 7
39	38.6	5, 4	99	98.0	13. 8	59	157.5	22, 1	19	216. 9	30. 5	79	276.3	38.8
40	39, 6	5. 6	100	99. 0	13. 9	60	158. 4	22. 3	20	217. 9	30.6	80	277.3	39.0
41	40, 6	5.7	101	100.0	14. 1	161	159. 4	22.4	221	218. 8	30.8	281	278.3	39. 1
42	41.6	5.8	02	100.0	14. 2	62	160. 4	22. 4	221	219. 8	30. 8	82	279.3	39. 2
43	42.6	6.0	03	102. 0	14. 3	63	161.4	22. 7	23	220. 8	31. 0	83	280. 2	39. 4
44	43, 6	6. 1	03	103. 0	14. 5	64	162. 4	22. 7	24	221.8	31. 2	84	281, 2	39.5
45	44.6	6, 3	05	103. 0	14. 6	65	163. 4	23. 0	25	222.8	31. 3	85	282. 2	39. 7
46 !	45, 6		05 06		14. 8	- 66	164. 4	23. 0	26	223.8	31.5	86	283. 2	39. 8
47	46.5	6.4		105. 0 106. 0	14. 8	67	165. 4	23, 1	27	224.8	31.6	87	284. 2	39. 9
	46. 5	6.5	07		15.0	68		23, 2	28	224. 8 225. 8	31. 7	88	285. 2	40.1
48		6.7	08	106. 9			166. 4		28	226. 8 226. 8		89	286. 2	40.1
49	48.5	6.8	09	107.9	15. 2	69	167.4	23.5		997 0	31.9	90		
50	49.5	7.0	10	108. 9	15.3	_70_	168.3	23.7	30	227.8	32.0		287.2	40. 4
51	50. 5	7.1	111	109.9	15, 4	171	169.3	23. 8	231	228, 8	32. 1	291	288, 2	40.5
52	51.5	7. 2	12	110. 9	15. 6	72	170.3	23. 9	32	229. 7	32. 3	92	289. 2	40.6
53	52, 5	7.4	13	111.9	15, 7	73	171.3	24.1	33	230. 7	32. 4	93	290. I	40.8
54	53, 5	7.5 7.7	14	112. 9 113. 9	15.9	74	172.3 173.3	24. 2	34	231. 7	32. 6	94	291. I	40.9
55	54, 5	7.7	15	113.9	16.0	75	173.3	24.4	35	232.7	32. 7	95	292. 1	41.1
56	55, 5	7.8	16	114. 9	16. 1	76	174.3	24.5	36	233, 7	32.8	96	293, 1	41.2
57	56, 4	7.9	17	115.9	16.3	77	175.3	24.6	37	234. 7	33.0	97	294.1	41.3
58	57.4	8. 1	18	116.9	16.4	78	176.3	24.8	38	235. 7	33. 1	98	295. 1	41.5
59	58.4	8, 2	19	117.8	16.6	79	177.3	24. 9	39	236.7	33. 3	- 89	296.1	41.6
60	59, 4	8, 4	20	118.8	16, 7	80	178.2	25.1	40	237.7	33.4	300	297. I	41.8
								_						
60 59,4 8,4 20 118,8 16,7 80 178,2 25,1 40 237,7 33,4 300 297,1 41,8													Lat.	

Difference of Latitude and Departure for 8° (172°, 188°, 352°).

			Differ	rence of	Latitue	ie and	t Depart	ture for	. 80 (172°, 18	8°, 352	٠).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	298, 0	41.9	361	357. 5	50. 2	421	416. 9	58.6	481	476.3	66. 9	541	535. 7	75, 2
02	299, 0	42.0	62	358.5	50.4	22	417.9	58.7	82	477.3	67, 1	42	536. 7	75.4
03	300.0	42.2	63	359, 4	50.5	23	418.9	58.9	83	478.3	67, 2	43	537.7	75, 5
04	301.0	42.3	6-1	360.4	50.7	24	419.8	59.0	84	479.3	67.4	44	538. 7	75. 7
05	302.0	42.5	65	361.4	50.8	25	420.8	59. 2	85	480.3	67.5	45	539.7	75.8
06	303, 0	42.6	- 66	362. 4 363. 4	50.9	26	421.8	59.3	86	481. 2 482. 2	67.6	46	540.6	75.9
07	304.0	42.7	67	363.4	51.1	27	422.8	59.4	87	482.2	67.8	47	541.6	76, 1
08	305.0	42.9	68	364.4	51.2	28	423.8	59.6	88	483, 2	67.9	48	542.6	76. 2
09	306.0	43.0	69	365.4	51.4	29	424.8	59.7	89	484.2	68. 1	49	543.6	76, 4
10	307.0	43.1	70	366, 4	51.5	_30	425, 8	59.8	90	485.2	68.2	_ 50_	514.6	76.5
311	307. 9	43.3	371	367.4	51.6	431	426.8	60.0	491	486.2	68.3	551	545.6	76.6
12 13	308.9 309.9	43.4	72 73 74	368. 4 369. 3	51.8 51.9	32 33	427.8 428.8	60.1	92 93	487. 2 488. 2	68.5 68.6	52 53	546, 6 547, 6	76.8
14	310.9	43. 6 43. 7	7.1	370.3	52, 1	34	429.8	60.4	93	489.2	68, 8	54	548.6	76. 9 77. 1
15	311.9	43.8	75	371.3	52. 2	35	430.7	60.5	95	490. 2	68. 9	55	549.6	77. 2
16	312.9	44.0	76	372.3	52.3	36	431.7	60.7	96	491. 2	69.0	56	550.6	77 4
17	313.9	44.1	77	373.3	52.5	37	432.7	60.8	97	492, 1	69. 2	57	551.5	77.4 77.5
18	314.9	44.3	78	374.3	52.5 52.6	38	432. 7 433. 7	61.0	98	493.1	69.3	58	552.5	77.6
19	315.9	44.4	79	375.3	52.7	39	434.7	61.1	99	494.1	69.5	59	553.5	77.8
20	316.9	44.5	80	376, 3	52, 9	40	435.7	61.2	500	495, 1	69.6	60	554.5	77.9
321	317.9	44.7	381	377.3	53. 0	441	436.7	61.4	501	496.1	69.7	561	555.5	78.1
22	318.8	44.8	82	378.3	53. 2	42	437.7	61.5	02	497.1	69.9	62	556.5	78, 2
23	319.8	45.0	83	379.2	53.3	43	438.7	61.7	-03	498.1	70.0	63	557.5	78.3
24	320.8	45.1	84	380.2	53.4	44	439.7	61.8	04	499.1	70.2	64	558.5	78.5
25	321.8	45. 2	85	381.2	53.6	45	440.6	61. 9	05	500.1	70.3	65	559.5	78, 6
26	322.8	45.4	86	382.2	53.7	46	441.6	62.1	06	501.0	70.4	66	560.5	78.8
27 28	323, 8 324, 8	45.5 45.7	87 88	383. 2 384. 2	53. 9 54. 0	47 48	442.6 443.6	62, 2	07 08	502, 0 503. 0	70, 6 70, 7	67 68	561.5	78. 9 79. 0
29	325, 8	45.8	89	385. 2	54.1	49	444.6	62, 4 62, 5	09	504.0	70.8	69	562. 5 563. 5	79.1
30	326, 8	45.9	90	386. 2	54.3	50	445.6	62.6	10	505. 0	70.9	70	564.5	79.3
331	327.8	46. 1	391	387. 2	54. 4	451	446.6	62.8	511	506.0	71.1	571	565. 4	79.4
32	328.7	46. 2	92	388. 2	54.6	52	447.6	62.9	12	507.0	71.2	72	566. 4	79.6
33	329.7	46.3	93	389.1	54.7	53	448.6	63.0	13	508.0	71.4	73	567.4	79.7
34	330. 7	46, 5	94	390.1	54.8	54	449.6	63.2	14	509.0	71.5	74	568.4	79.8
35	331.7	46, 6	95	391.1	55.0	55	450.5	63. 3 63. 5	15	510.0	71.6	75	569.4	80.0
36	332.7	46.8	96	392. 1	55. 1	56	451.5	63, 5	16	510.9	71.8	76	570.4	80.1
37	333.7	46.9	97	393.1	55.3	57	452.5	63.6	17	511.9	71.9	77	571, 4 572, 4	80. 2
38 39	334. 7 335. 7	47.0 47.2	98 99	394.1 395.1	55.4 55.5	58 59	453.5 454.5	63. 7 63. 9	18 19	512. 9 513. 9	72.0	78 79	573.4	80. 4 80. 5
40	336.7	47.3	400	396.1	55.7	60	455.5	64.0	20	514.9	$72.2 \\ 72.3$	80	574.4	80.6
341	337.7	47.5	401	397.1	55.8	461	456.5	64.2	521	515. 9	72.4	581	575.4	80.8
42	338.6	47.6	02	398. 1	56.0	62	457.5	64.3	99	516. 9	72.6	82	576.4	80. 9
43	339.6	47.7	03	399.1	56.1	63	458. 5	64.4	22 23	517.9	72.8	83	576.4 577.4	81.1
44	340.6	47.9	04	400.0	56.2	64	459.5	64.6	24	518.9	73.0	84	578.4	81.3
45	341.6	48.0	05	401.0	56.4	65	460.4	64.7	25	519.9	73.1	85	578.4 579.4	81.4
46	342.6	48.2	06	402.0	56.5	66	461.4	64.9	26	520.9	73.2	86	580.3	81.6
47	343.6	48.3	07	403.0	56.6	67	462.4	65.0	27	521.8	73.4	87	581.3	81.7
48	344.6	48.4	08	404.0	56.8	68	463.4	65.1	28	522.8	73.5	88	582.3	81.8
49	345.6	48.6	09 10	405. 0 406. 0	56.9	69 70	464. 4 465. 4	65.3	29 30	523. 8 524. 8	73.7	89	583.3	82. 0 82. 1
50	346.6	48.7		407.0	57.1 57.2			65.4			73.8	90	584.3	
351 52	347.6 348.5	48. 9 49. 0	411 12	407.0	57.3	471 72	466. 4 467. 4	65. 6 65. 7	531 32	525. 8 526. 8	$73.9 \\ 74.1$	591 92	585.3 586.3	82, 2 82, 4
53	349.5	49.1	13	409.0	57.5	73	468.4	65.8	33	527.8	74. 2	93	587.3	82.5
54	350.5	49, 3	14	409. 9	57.6	74	469.4	66.0	34	528.8	74. 3	94	588.3	82.6
55	351.5	49. 4	15	410.9	57.8	75	470.4	66.1	35	529.8	74.5	95	589.3	82.8
56	352.5	49.5	16	411.9	57, 9	76	471.3	66.2	36	530.8	74.6	96	590.3	83.0
57	353.5	49.7	17	412.9 413.9	58.0	77	472.3 473.3	66.4	37	531.7 532.7	74.7	97	591 2	83.1
58	354.5	49.8	18	413.9	58. 2	78	473.3	66.5	38	532.7	74.9	98	592. 2	83, 2
59	355.5	50.0	19	414.9	58.3	79	474.3	66.7	39	533, 7	75.0	99	593.2	83.3
60	356. 5	50.1	20	415.9	58.5	80	475. 3	66.8	40	534.7	75. 1	600	594. 2	83.5
						Po /						-		
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

82° (98°, 262°, 278°).

TABLE 2.

Difference of Latitude and Departure for 9° (171°, 189°, 351°).

										, , 200	,	·		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0, 2	61	60.2	9.5	121	119, 5	18, 9	181	178, 8	28, 3	241	238.0	37. 7
2	2.0	0.3	62	61.2	9.7	22	120. 5	19.1	82	179.8	28, 5	42	239. 0	37.9
3 -	3.0	0.5	63	62.2	9.9	23	121.5	19.2	83	180.7	28, 6	43	240.0	38.0
-4	4.0	0.6	64	63. 2	10.0	24	122.5	19.4	84	181.7	28, 8	44	241.0	38. 2
5	4.9	0.8	-65	64. 2	10.2	25	123.5	19.6	85	182.7	28, 9	45	242, 0	38.3
- 6	5.9	0, 9	-66	65, 2	10.3	26	124.4	19.7	-86	183.7	29. 1	46	243.0	38.5
7	6, 9	1.1	67	66, 2	10.5	27	125, 4	19, 9	87	184.7	29.3	47	244.0	38.6
8	7. 9	1.3	68	67. 2	10, 6	28	126.4	20, 0	88	185.7	29.4	48	244. 9	38.8
9	8, 9	1.4	69	68, 2	10, S	29	127. 4	20, 2	89	186.7	29, 6	49	245, 9	39. 0
10_	9,9	1.6	_70_	69.1	_11.0_	_30_	128.4	20.3	90	187.7	29. 7	50	246. 9	39.1
11	10.9	1.7	74	70.1	11, 1	131	129, 4	20.5	191	188. 6	29, 9	251	247. 9	39, 3
. 12	11.9	1.9	72	71.1	11.3	32	130. 4	20, 6	92	189, 6	30.0	52	248.9	39.4
13 14	12.8	2. 0 2. 2	73	72.1	11.4	33	131.4	20.8	93	190.6	30.2	53	249.9	39.6
15	13. 8 14. 8	2. 2	74 75	73, 1	11.6	34	132.4	21.0	94	191.6	30.3	54	250. 9	39.7
16	15, 8	2.5	76	74. 1 75. 1	11. 7 11. 9	35	133. 3	21.1	95 oc	192.6	30.5	55	251.9	39. 9
17	16.8	2.7	77	76.1	12.0	36 37	134.3 135.3	21.3 21.4	96 97	193, 6 194, 6	30. 7 30. 8	56 57	252. 8 253. 8	40.0
18	17.8	9 8	78	77. 0	12. 2	38	136, 3	21.6	98	195, 6	31.0	58	254. 8	40. 4
19	18.8	2. 8 3. 0	79	78.0	12. 4	39	137.3	21.7	99	196.5	31.1	59	255. 8	40.5
20	19. 8	3, 1	80	79.0	12.5	40	138. 3	21.9	200	197.5	31.3	60	256.8	40.7
21	20.7	3, 3	$-\frac{1}{81}$	80.0	12. 7	141	139. 3		201	198. 5	31.4	261	257.8	40.8
22	21.7	3. 4	82	81. 0	12. 8	42	140.3	22. 1 22. 2	02	199, 5	31. 6	62	258.8	41.0
23	22. 7	3, 6	83	82.0	13. 0	43	141.2	22, 4	03	200.5	31.8	63	259.8	41.1
24	23. 7	3.8	84	83. 0	13, 1	44	142. 2	22.5	04	201.5	31.9	64	260. 7	41.3
25	24.7	3, 9	85	84. 0	13.3	45	143. 2	22. 7	05	202.5	32, 1	65	261.7	41.5
26	25, 7	4.1	-86	84.9	13.5	46	144.2	22, 8	-06	203. 5	32. 2	-66	261. 7 262. 7	41.6
27	26. 7	4.2	87	85.9	13, 6	47	145.2	23. 0	07	204.5	32.4	67	263.7	41.8
28	27.7	4.4	88	86, 9	13.8	48	146.2	23. 2	-08	205. 4	32.5	-68	264. 7	41.9
29	28, 6	4.5	89	87.9	13. 9	49	147.2	23.3	- 09	206, 4	32. 7	69	265.7	42.1
30	29.6	_4.7	90	$_{-88.9}$	14. 1	_50_	148, 2	23, 5	_10_	207.4	32, 9	_70_	266. 7	42.2
31	30. 6	4.8	91	89. 9	14. 2	151	149, 1	23, 6	214	203.4	33, 0	271	267. 7	42.4
32	31. 6	5, 0	92	90.9	14, 4	52	150. 1	23, 8	12	209. 4	33. 2	72	268.7	42.6
33	32.6	5, 2 5, 3	93	91.9	14.5	53	151.1	23, 9	13	210.4	33, 3	73	269, 6	42.7
34 35	33. 6 34. 6	5.5	94 95	92, 8 93, 8	14. 7 14. 9	54 55	152.1	24, 1 24, 2	14 15	211.4	33.5	74 75	270.6	42.9
36	35, 6	5, 6	96	95. 8	15, 0	- 56	153. 1 154. 1	24. 2	16	213. 3	33. 6 33. 8	76	271.6 272.6	43. 0 43. 2
37	36.5	5.8	97	95.8	15, 2	57	155. 1	24. 6	17	214.3	33, 9	77	273.6	43.3
38	37. 5	5. 9	98	96, 8	15. 3	58	156, 1	24.7	18	215.3	34. 1	78	274.6	43, 5
39	38, 5	6, 1	99	97.8	15. 5	59	157. 0	24. 9	19	216.3	34. 3	79	275.6	43, 6
40	39. 5	6.3	100	98, 8	15, 6	60	158.0	25, 0	20	217. 3	34. 4	80	276.6	43. 8
41	40.5	6, 4	101	-99.8°	15, 8	161	159.0	25. 2	221	218.3	34. 6	281	277.5	44.0
42	41.5	6, 6	02	100.7	16, 0	62	160, 0	25. 3	22	219.3	34. 7	82	278.5	44. 1
43	42, 5	6.7	-03	101.7	16, 1	-63	161.0	25. 5	23	220. 3	34. 9	83	279.5	41.3
-14	43, 5	6.9	04	102.7	16, 3	64	162.0	25. 7	24	221.2	35, 0	84	280.5	44.4
45	44.4	7.0	05	103.7	16, 4	65	163, 0	25, 8	25	222, 2	35, 2	85	281.5	44, 6
46	45, 4	7.2	06	104.7	16.6	66	164, 0	26.0	26	223. 2	35.4	86	282.5	44.7
47	46.4	7.4	07	105.7	16.7	67	164.9	26.1	27	224. 2	35.5	87	283.5	44.9
18	47.4	7.4 7.5 7.7	08	106.7	16. 9	68	165, 9	26.3	28	225, 2 226, 2	35.7	88	284.5	45, 1
49 50	48.4	7. 8	- 09 - 10	107. 7 108, 6	17. 1	69	166, 9	26, 4	29 30	226, 2	35, 8 36, 0	89 90	285. 4 286. 4	45, 2 45, 4
	49, 4				17.2	70	167. 9	26.6				291		
51	50, 4	8, 0	111	109, 6	17. 4	171	168, 9	26.8	231	228. 2	36. 1 36. 3	92	287, 4 288, 4	45. 5 45. 7
52 53	51.4 52.3	8.1	13	110, 6 111, 6	17.5 17.7	72 73	169, 9 170, 9	26.9 27.1	32 33	229. 1 230. 1	36, 4	93	289.4	45, 8
54	53, 3	8.4	14	112.6	17.8	74	171.9	27.1	34	231, 1	36, 6	94	290, 4	46.0
55	54. 3	8, 6	15	113.6	18. 0	75	172.8	27.4	35	232. 1	36, 8	95	291.4	46. 1
56	55.3	8, 8	16	114.6	18, 1	76	172, 8 173, 8	27.5	36	233. 1	36, 9	96	292.4	46.3
57	56, 3	8, 9	17	115.6	18.3	77	174.8	27.7	37	234.1	37.1	97	293, 3	46.5
58	57.3	9.1	18	116,5	18, 5	78	175, 8	27.8	38	235, 1	37.2	98	294. 3	46.6
59	58, 3	9, 2	19	117.5	18.6	79	176.8	28, 0	39	236, 1	37.4	- 99	295, 3	46, 8
- 60	59, 3	9.4	20	118, 5	18, 8	80	177. 8	28.2	10	237. 0	37.5	300	296.3	46.9
				-			-							
Dist.	Dep.	Lat.	Dist	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	. '					-						·		

81° (99°, 261°, 279°).

TABLE 2.

Difference of Latitude and Departure for 9° (171°, 189°, 351°).

Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Dep. Dist. Dep. Dist. Lat. Dep. Dist. Dep.

[Page 549

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	297.3	47.1	361	356, 6	56. 5	421	415, 8	65, 9	481	475. 1	$75.2 \\ 75.3$	541	534. 4	84.6
02	298.3	47. 2	62	357.5	56, 7 56, 8	22 23	416, 8 417, 8	66. 0	82 83	476. 1 477. 1	75. 3 75. 5	42 43	535, 4 536, 3	84. 7 84. 9
03 04	299, 3 300, 3	47. 4 47. 6	63 64	358, 5 359, 5	56.9	23	417.8	66, 2 66, 3	84	478.0	75.6	44	537. 3	85. 1
05	301. 2	47.7	65	360.5	57.1	25	419.8	66.5	85	479.0	75.8	45	538.3	85.3
06	309-9	47. 9	66	361.5	57.3	26	420.8	66, 6	86	480.0	75.9	46	539.3	85, 4
07	303. 2 304. 2	48, 0	67	362. 5 363. 5	57.4 57.6	27	421 7	66, 8	87	481.0	76.1	47	540.3	85. 6
08	304.2	48.2	68	363.5	57.6	28	422. 7 423. 7	67. 0 67. 1	88	482,0 $483,0$	76, 2	48	541.3	85.7
-09	305.2	48.3	69	364.5	57.7	29	423. 7	67. 1	89	483.0	76.4	49	542.3 543.3	85. 9
10	306, 2	48, 5	70	365, 4	57. 9	30	424.7	67.3	90	484.0	76.5	50	544.3	86.0
311	307, 2 308, 2	48.7 48.8	371 72 73	366, 4 367, 4	58, 1	431 32	425.7	67, 4	$\frac{491}{92}$	485. 0 485. 9	76. 7 76. 8	551 52	545, 2	86. 2 86. 3
12 13	309. 1	49. 0	73	368. 4	58, 2 58, 4	33	$\frac{426.7}{427.7}$	67. 6 67. 7 67. 9	93	486. 9	77. 0 77. 1 77. 3 77. 5	53	546. 2	86, 5
14	310. I	49. 1	74	369, 4	58, 5	34	428.7	67, 9	94	486. 9 487. 9 488. 9	77.1	54	546, 2 547, 2 548, 2	86 6
15	311.1	49.3	75	370.4	58, 7	35	429.6	68, 1	95	488.9	77.3	55	548.2	86.8
16	312.1	49.4	76 77	371.4	58, 8	- 36	430, 6	68, 2	96	489. 9	77.5	56	549, 2	86. 8 87. 0 87. 1 87. 3
17	313. 1	49, 6	77	372.4	59.0	37	431.6	68.4	97	490. 9	11.6	57	550, 2	87.1
18	314. 1	49.8	78	373.3	59.1	38	432.6	68, 5	98 99	491. 9 492. 9	77. 9 78. 0	58 59	551, 2 $552, 2$	87.4
19 20	315, 1 316, 1	49, 9 50, 1	79 80	374, 3 375, 3	59. 3 59. 5	39 40	433, 6 434, 6	68, 7 68, 8	500	493.8	78.2	60	553.1	87.6
321	317.0	50, 2	381	376.3	59, 6	441	435. 6	69, 0	501	494.8	78 4	561	554. 1	
22	318.0	50.4	82	377.3	59.8	42	436.6	69, 1	02	495.8	78.5	62	555, 1	87. 7 87. 9
22 23 24	319.0	50, 5	83	378.3	59. 9	43	437.5	69.3	-03	496.8	78. 5 78. 7 78. 8	-63	556, 1	88, 0
24	320.0	50.7	84	379.3	60, 1	44	438, 5 439, 5	69, 5	04	497.8	78.8	64	557.1	88, 2 88, 3
25	321.0	50.8	85	380.3	60. 2	45	439, 5	69.6	05	498.8	79.0	65	558. 1	88.3
26 27	322, 0	51.0 51.2	86 87	381. 2 382. 2	60. 4 60. 5	46 47	440.5 441.5	69. 8 69. 9	06 07	499. 8 500. 8	79. 1 79. 2	66 67	559, 1 560, 1	88, 5 88, 6
28	323, 0 324, 0	51.3	88	383. 2	60.7	48	449.5	70. 1	08	501.7	79.4	68	561.0	88.8
29	324. 9	51.5	89	384.2	60.9	49	$442.5 \\ 443.5$	70. 2	09	502.7	79.5	69	562.0	88, 9
30	325.9	51.7	90	385. 2	61.0	50	444.5	70.4	10	503. 7	79.7	70	563.0	89.1
331	326. 9	51.8	391	386.2	61. 2	451	445, 4	70.6	511	504.7	79.8	571 72 73	564, 0	89, 2
32	327.9	51.9	92	387.2	61.3	52	446. 4	70.7	12	505. 7	80. 1	72	565.0	89.4
33	328. 9	52, 1	93	388.2	61.5	53	447.4	70.9	13	506. 7	80. 2 80. 3	73	566. 0 567. 0	89, 5 89, 7
34 35	329, 9 330, 9	52, 3 52, 4	94 95	389. 1 390. 1	61.6	54 55	448, 4 449, 4	$71.0 \\ 71.2$	14 15	507. 7 508. 7	80.5	74 75	568.0	89. 9
36	331. 9	52.6	96	391, 1	62. 0 62. 1 62. 3	56	450. 4	71.3	16	509.6	80.6	76	568. 9	90.1
37	332. 8	52. 6 52. 7	97	392. 1	62. 1	57	451.4	71.5 71.7	17	510.6	80.8	77 78 79	569 9	90. 2
38	333, 8	52.9	98	393. 1	62.3	58	452.4	71.7	18	511.6	80.9	78	570.9	90.3
39	334, 8	53.0	99	394.1	62.4	59	453.3	71.8	19	512.6	81.1	79	571.9	90.5
40	335.8	53.2	400	395.1	62.6	60	454.3 455.3	72.0	20	$\frac{513.6}{514.6}$	81.3	$\frac{80}{581}$	572, 9 573, 9	90.7
341 42	336. 8 337. 8	53. 3 53. 5	$\frac{401}{02}$	397.0	62. 7 62. 9 63. 0	461 69	456.3	72.1 72.3 72.4	521 22 23	515.6	81. 6	82	574.9	91.0
43	338.8	53. 7	03	398.0	63.0	62 63	456.3 457.3	72.4	23	516.6	81.8	83	574. 9 575. 9	91. 2
44	339.8	53, 8	04	399.0	63.2	64	1 458.3	72.6	24	517. 6	81.9	84	576.9	91.3
45	340.8	54.0	05	400.0	63.4	65	459.3 460.3	72.7	25	518.6	82.1	85	577.9	91.5
46	341.7	54.1	06	401.0	63. 5 63. 7	66	460.3	72. 9 73. 1	$\frac{26}{27}$	519.5	82.3	86	578.8	91.7
47 48	342. 7 343. 7	54.3 54.4	07 08	402. 0 403. 0	63.6	67 68	461.2	73.1	27 28	520. 5 521. 5	82.4 82.6	87 88	579. 8 580. 8	91. 8 92. 0
48	344. 7	54. 6	09	404.0	63. 8 64. 0	69	462. 2 463. 2	73. 2 73. 4	29	522.5	82.7	89	581.8	92.1
50	344.7 345.7	54.8	10	405.0	64.1	70	464. 2	73.5	30	522. 5 523. 5	82. 7 82. 9	90	582.8	92. 1 92. 2
351	346. 7	54.9	411	405.9	64.3	471	465. 2	73.7	531	524.5	83. 1	591	583.8	92.4
52	347.7 348.7	55.1	12 13	406.9	64. 5	72 73 74	466. 2	73.8	32	525. 5	83, 2	92	584.8	92.5
53	348.7	55.2		407. 9 408. 9	64.6	73	467.2	74.0	33	526. 5 527. 5	83.4	93	585. 7	92.7 92.9
54 55	349. 6 350. 6	55, 4 55, 5	14 15	408, 9	64. 8 64. 9	74 75	468, 2 469, 2	74. 2 74. 3	34 35	527.5	83.5 83.7	94 95	586. 7 587. 7	92. 9 93. 1
56	351.6	55. 7	16	410. 9	65.1	76	470.1	74.5	36	529.4	83, 8	96	588.7	93. 2
57	352.6	55.9	17	411.9	65, 2	77	471.1	74.6	37	530.4	84. 0	97	589.7	93.4
58	353.6	56.0	18	412.9	65.4	78	472.1	74.8	38	531.4	84.1	98	590.7	93. 5
59	354.6	56. 2	19	413, 8	65.6	79	473. 1	74.9	39	532.4	84.3	99	591.7	93.7
60	355, 6	56, 3	20	414.8	65. 7	80	474.1	75, 0	40	533.4	84. 4	600	592. 6	93.8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						81° (99°, 261	°, 279°).					
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Page 550]

TABLE 2.

Difference of Latitude and Departure for 10° (170°, 190°, 350°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0. 2	61	60, 1	10.6	121	119.2	21.0	181	178.3	31.4	241	237.3	41.8
3	2.0	0.3	62	61. 1	10.8	22	120, 1	21.2	82	179.2	31.6	42	238.3	42.0
3 4	3. 0 3. 9	0.5	63	62. 0 63. 0	10.9 11.1	23 24	121. 1 122. 1	21.4 21.5	83 84	180. 2 181. 2	31. 8 32. 0	43 44	239.3 240.3	42. 2 42. 4
5	4.9	0.9	64 65	64.0	11.3	25	123.1	21. 7	85	182. 2	32. 1	45	241.3	42.5
6	5.9	1.0	66	65.0	11.5	26	124.1	21.9	- 86	183, 2	32.3	46	242.3	42.7
7	6.9	1.2	67	66.0	11.6	27	125. 1	22.1	87	184.2	32.5	47	243.2	42.9
8 9	7.9	1.4	68	67.0	11.8	28 29	126. 1 127. 0	22. 2 22. 4	88	185.1	32. 6 32. 8	48 49	244. 2 245. 2	43. 1 43. 2
10	8, 9 9, 8	1.7	69 70	68. 0 68. 9	12. 0 12. 2	30	128.0	22.6	89 90	186. 1 187. I	33.0	50	246.2	43. 4
11	10.8	1.9	$\frac{70}{71}$	69. 9	12.3	131	129.0	22.7	191	188, 1	33. 2	251	247. 2	43.6
12	11.8	2.1	72	70.9	12.5	32	130.0	22.9	92	189.1	33. 3	52	248. 2	43.8
13	12.8	2.3	73	71.9	12.7	33	131.0	23. 1	93	190.1	33. 5	53	249. 2	43.9
14 15	13. 8 14. 8	2, 4 2, 6	74 75	72.9 73.9	12.8 13.0	34 35	132. 0 132. 9	23. 3 23. 4	94 95	191. 1 192. 0	33. 7 33. 9	54 55	250. 1 251. 1	44.1
16	15.8	2.8	76	74.8	13. 2	36	133.9	23, 6	96	193.0	34.0	56	252. 1	44.5
17	16. 7	3.0	77	75. 8	13. 4	37	134.9	23.8	97	194.0	34. 2	57	253. 1	44.6
18	17.7	3.1	78	76.8	13.5	38	135.9	24.0	98	195.0	34. 4	58	254.1	44.8
19	18.7	3.3	79	77.8	13.7	39 40	136.9	24.1	99	196.0	34.6	59 60	255.1	45.0
20	$\frac{-19.7}{20.7}$	$\frac{3.5}{3.6}$	80	$-^{78, 8}_{79, 8}$	$\frac{13.9}{14.1}$	$\frac{40}{141}$	137.9	$24.3 \\ 24.5$	$\frac{200}{201}$	$\frac{197.0}{197.9}$	$\frac{34.7}{34.9}$	$\frac{60}{261}$	$\frac{256.1}{257.0}$	45. 3
21 22	21. 7	3.8	81	80.8	14. 1	42	138.9	24. 5	02	197.9	35.1	62	258.0	45. 5
23	22.7	4.0	83	81.7	14.4	43	140.8	24.8	03	199.9	35.3	63	259. 0	45. 7
24	23. 6	4.2	84	82.7	14.6	44	141.8	25, 0	0.1	200.9	35.4	64	260.0	45.8
25	24. 6	4.3	85	83. 7	14.8	45	142.8	25. 2	05	201.9	35.6	65	261.0	46.0
26 27	25. 6 26. 6	4.5	86 87	84. 7 85. 7	14. 9 15. 1	46 47	143. S 144. S	25, 4 25, 5	06 07	202. 9 203. 9	35. 8 35. 9	66 67	262. 0 262. 9	46, 2
28	27. 6	4.9	88	86. 7	15. 3	48	145.8	25, 7	08	204.8	36, 1	68	263. 9	46.5
29	28. 6	5.0	89	87.6	15.5	49	146.7	25, 9	-09	205, 8	36, 3	69	264. 9	46.7
30	29. 5	5. 2	- 90	88, 6	15.6	50	147.7	26, 0	_ 10	206, 8	36, 5	70	265. 9	46, 9
31	30. 5	5.4	91	89, 6	15.8	151	148.7	26, 2	211	207.8	36, 6	271	266. 9	47.1
32 33	31.5 32.5	5.6	92 93	90, 6 91, 6	16. 0 16. 1	52 53	1 19, 7 150, 7	26, 4 26, 6	12 13	208, 8 209, 8	36, 8 37, 0	72 73	267, 9 268, 9	47. 2
34	33. 5	5.9	94	92.6	16.3	54	151.7	26.7	14	210.7	37. 2	74	269.8	47.6
35	34.5	6.1	95	93, 6	16.5	55	152.6	26, 9	15	211.7	37.3	75	270.8	47.8
36	35, 5	6, 3	96	94. 5	16.7	56	153, 6	27.1	16	212.7	37.5	76	271.8	47. 9
37 38	36. 4 37. 4	6, 4	97 98	95, 5 96, 5	16. 8 17. 0	57 58	154. 6 155. 6	27.3 27.4	17 18	213. 7 214. 7	37.7 37.9	77 78	272. 8 273. 8	48. 1 48. 3
39	38. 4	6.8	99	97.5	17. 2	59	156, 6	27.6	19	215. 7	38.0	79	274.8	48. 4
40	39.4	6.9	100	98, 5	17.4	60	157.6	27.8	20	216.7	38, 2	80	275. 7	48.6
41	40.4	7.1	101	99, 5	17.5	161	158, 6	28.0	221	217.6	38.4	281	276.7	48.8
42	41.4	7.3	02	100, 5	17.7	62	159.5	28, 1	22	218.6	38, 5	82	277.7	49.0
43 44	42. 3 43. 3	7. 5 7. 6	03 04	101.4 102.4	17. 9 18. 1	63 64	160.5 161.5	28, 3 28, 5	23 24	219, 6 220, 6	38.7	83 84	278. 7 279. 7	49. 1
45	44.3	7.8	05	103, 4	18. 2	65	162.5	28.7	25	221.6	39. 1	85	280. 7	49, 5
46	45.3	8.0	-06	104.4	18, 4	- 66	163, 5	28, 8	26	222.6	39. 2	86	281.7	49.7
47	46.3	8, 2	07	105.4	18, 6	67	164.5	29, 0	27	223.6	39. 4	87	282, 6	49, 8
48	47.3	8,3	08	106.4	18, 8 18, 9	68 69	165, 4 166, 4	29. 2 29. 3	28 29	224. 5 225. 5	39, 6	88 89	283, 6 284, 6	50, 0 50, 2
49 50	48, 3 49, 2	8.5 8.7	10 09	107, 3 108, 3	19.1	70	167. 4	29.5	30	226.5	39, 9	90	285, 6	50, 4
51	50.2	8.9	Tiii.	109.3	19.3	371	168, 4	29.7	231	227. 5	40. 1	291	286, 6	50, 5
52	51.2	9, 0	12	110, 3	19.4	72	169, 4	29, 9	32	228, 5	40.3	92	287. 6	50.7
53	52. 2	9, 2	13	111, 3	19.6	73	170.4	30, 0	33	229.5	40.5	93	288, 5	50.9
54 55	53, 2 54, 2	9,4	14 15	112, 3	19, 8 20, 0	74 75	171.4 172.3	30, 2 30, 4	34 35	230, 4	40, 6 40, 8	94 95	289, 5 290, 5	51.1
56	55.1	9. 7	16 16	114.2	20.0	76	173.3	30, 4	36	232, 4	41.0	96	291, 5	51, 4
57	56, 1	9.9	17	115, 2	20.3	77	174.3	30, 7	37	233, 4	41.2	97	292.5	51.6
58	57.1	10, 1	18	116, 2	20, 5	78	175.3	30, 9	38	234.4	11.3	98	293, 5	51.7
59 60	58, 1 59, 1	10, 2	19 20	117. 2 118. 2	20, 7 20, 8	79 80	176.3 177.3	31.1	39 40	235, 4 236, 4	41.5	99 300	294. 5 295. 4	51. 9 52. 1
1 00	- 115. I	10, 4	-211	115.2	20.8		111.0	01.0	10		41.7	1,55,57	27/11/19	./ /
Dist.	Dep.	Lat.	Dist.	Dep	Lat.	Dist.	19-16	1 · t.	Det.	Dep.	1.00	Dist	Dep.	Lat.
			•			4			•					

80° (100°, 260°, 280°).

Difference of Latitude and Departure for 10° (170°, 190°, 350°)

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								z-cpare		10 (,	,			
$ \begin{array}{c} 02 & 297. 4 & 52.5 \\ 03 & 298.4 & 52.6 \\ 03 & 398.5 & 52.6 \\ 04 & 299.4 & 52.8 \\ 04 & 299.4 & 52.8 \\ 04 & 299.4 & 52.8 \\ 04 & 299.4 & 52.8 \\ 04 & 299.4 & 52.8 \\ 06 & 301.4 & 53.0 \\ 05 & 300.4 & 53.0 \\ 06 & 301.4 \\ 07 & 302.3 \\ 03.3 & 53.1 \\ 06 & 306.3 \\ 06 & 301.4 \\ 07 & 302.3 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 07 & 361.4 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.4 \\ 08 & 303.3 \\ 08 & 303.4 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.3 \\ 08 & 303.4 \\ 08 & 303.3 \\ 08 & 303.4 \\ 08 & 303.3 \\ 0$	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	. Lat.	Dep.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	201	206 4	59 3	361	355.5	89.7	121	414 6	73.1	481	173 7	83.5	541	532.8	93.9
03 298.4 52.6 63 337.5 63.0 23 416.6 73.5 83 475.7 83.9 43 5			59.5						73 3		474 7			533, 8	94.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			52 6	63	357.5	63.0	23		73.5	83	475.7	83 9	43	534, 8	94.3
65 300.4 53.0 65 359.5 63.4 25 418.5 73.8 85 477.6 84.2 45 2 06 301.4 53.1 6 304.1 63.7 27 420.5 74.2 87 479.6 84.6 46 47 8 08 303.3 53.5 76 381.4 63.7 27 420.5 74.2 87 479.6 84.6 47 5 09 303.3 53.7 99 383.4 64.1 29 422.5 74.5 89 482.6 84.7 49 482.6 85.1 50 5 51.5 50 55 55 75 18 88 480.6 842.9 482.5 85.1 55 55 55 55 55 55 55 55 55 55 55 55 55 57 30.8 36.3 36.0 33 427.4 75.0 92 484.5 <td< td=""><td></td><td></td><td></td><td></td><td>358.5</td><td></td><td>24</td><td></td><td>73.6</td><td></td><td>476.6</td><td></td><td></td><td>535. 7</td><td>94.5</td></td<>					358.5		24		73.6		476.6			535. 7	94.5
06 301.4 53.1 66 360.4 68.6 26 419.5 74.0 86 478.6 84.4 46 67 80 303.3 53.3 67 361.4 68.7 27 420.5 74.2 87 479.6 84.6 47 88 68 308.3 353.5 68 362.4 68.7 7 27 420.5 74.5 89 481.6 84.9 49 68 40 308.3 353.5 68 362.4 68.7 92 422.5 74.5 89 481.6 84.9 49 68 40 68 303.3 53.5 7 69 363.4 64.1 29 422.5 74.5 89 481.6 84.9 49 68 40 68 303.3 353.8 70 364.4 64.3 30 423.5 74.7 90 482.6 85.1 50 50 50 50 50 50 50 50 50 50 50 50 50							25	418.5			477 6	84.9		536.7	94, 6
07 302.3 53.3 67 361.4 68.7 27 420.5 74.2 87 479.6 84.6 47 88 60 304.3 53.5 68 362.4 68.9 28 421.5 74.5 89 481.6 84.9 49 50 10 305.3 53.8 70 364.4 64.1 20 422.5 74.5 89 481.6 84.9 49 50 10 305.3 53.8 70 364.4 64.1 30 423.5 74.7 90 482.6 85.1 50 50 50 11 305.3 53.8 70 364.4 64.3 30 423.5 74.7 90 482.6 85.1 50 50 50 11 306.3 54.0 371 365.4 64.4 431 424.5 74.9 491 483.5 85.2 55.1 50 50 50 11 300.3 54.0 371 365.4 64.4 431 424.5 74.9 491 483.5 85.2 55.1 50 50 50 11 300.2 54.5 74 368.3 65.0 34 427.4 75.4 9 44 486.5 85.4 52.5 56.5 63 56 51 53 50 50 50 50 50 50 50 50 50 50 50 50 50							26							537. 7	94.8
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18 313.2 55.2 78 372.3 65.6 38 431.3 76.1 98 490.4 86.5 58 59 19 314.2 55.4 79 373.2 66.0 40 433.3 76.2 99 491.4 86.6 59 5 20 315.1 55.8 88 375.2 66.2 441 434.3 76.6 500 492.4 86.8 60 7 22 317.1 55.8 381 375.2 66.5 43 436.3 76.8 00 494.4 87.2 26 25 23 318.1 56.1 83 377.2 66.5 43 436.3 76.8 00 494.4 87.7 26 25 320.1 56.6 48 35 379.2 66.7 44 437.2 77.3 05 497.3 87.7 65 52 323.0 56.6 88 380.1 67.0 46 439.2 77.5 06 498.3 87.7 65 52 32 322.0 56.8 87		311.2	54.9	76	370.3						488.5			547.5	96. 5 96. 7
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20 315.1 55.6 80 374.2 66.0 40 433.3 76.4 500 492.4 86.8 60 561 5321 316.1 55.8 381 375.2 66.2 441 434.3 76.6 501 493.4 87.2 62 561 522 317.1 55.9 82 376.2 66.3 42 435.3 76.8 02 494.4 87.2 62 56 561 5318.1 55.6 1 83 377.2 66.5 43 436.3 76.9 03 495.3 87.3 63 52 44 419.1 56.3 84 378.2 66.7 44 437.3 77.1 04 496.3 87.5 64 52 5320.1 56.4 85 379.2 66.9 45 438.2 77.3 05 497.3 87.7 65 52 52 320.1 56.4 85 379.2 66.9 45 438.2 77.3 05 497.3 87.7 65 52 52 320.1 56.8 8 380.1 67.0 46 430.2 77.5 06 498.3 87.9 66 52 27 322.0 56.8 8 58.3 81.1 67.2 47 440.2 77.5 06 498.3 87.9 66 52 28 323.0 57.0 88 382.1 67.4 48 441.2 77.8 08 500.3 88.2 66 7 52 32 324.0 57.3 89 382.1 67.6 49 442.2 78.0 99 501.3 88.4 69 53 33 325.0 57.3 89 384.1 67.7 50 443.2 78.2 10 502.2 88.6 70 53 33 325.0 57.7 89 383.1 67.9 451 442.2 78.0 99 501.3 88.4 69 53 33 327.9 57.8 93 387.0 68.2 53 445.1 78.5 12 504.2 88.9 72 53 33 327.9 57.8 93 387.0 68.2 53 446.1 78.5 12 504.2 88.9 72 53 33 327.9 57.8 93 387.0 68.2 53 4447.1 78.8 14 506.2 89.1 75 502.2 89.4 75 53 33 329.9 58.2 95 380.0 68.4 54 447.1 78.8 14 506.2 89.2 74 53 33 32.9 58.5 94 388.0 68.4 54 447.1 78.8 14 506.2 89.1 74 53 33 32.9 58.5 94 388.0 68.4 54 447.1 78.8 14 506.2 89.1 75 53 39.9 58.7 98 392.0 68.6 55 448.1 79.0 15 507.2 89.4 75 53 39.3 383.9 58.5 97 391.0 68.9 57 450.1 79.4 17 509.1 89.8 77 5 53 39.3 383.9 58.9 99 392.9 69.8 64 447.1 79.0 15 507.2 89.4 75 53 39.3 383.9 58.9 99 392.9 69.3 59 452.0 79.7 19 511.1 90.1 89.8 77 5 53 39.3 383.9 58.9 99 392.9 69.8 64 450.0 79.7 19 511.1 90.6 82 54 44 33 34.8 59.1 400 393.9 69.5 60 453.0 79.9 20 512.1 90.3 80.4 44 384.3 59.2 40 395.9 70.3 65 457.9 80.8 25 517.0 91.2 89.4 75 55 344.7 60.3 90.8 70.7 67 459.9 81.1 27 519.0 91.5 87 55 344.7 60.8 10 408.8 70.7 67 459.9 81.1 27 519.0 91.5 87 55 344.7 60.8 10 408.8 70.7 67 459.9 81.1 27 519.0 91.5 87 55 344.7 60.8 10 408.8 70.7 71.6 74.4 68.8 82.0 32 523.9 92.1 92.9 59.5 55 344.7 60.8 10 408.8 70.7 71.7 71.9 74 466.8 82.3 34 552.9 92.5 92.7 94 55 55 346.6 61.3 14 407.7 71.9 74 466.8 82.3 34 552.9 92.5 92.7 94 55	18	313.2	55.2	78	372.3									549.5	96.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		314.2	55.4	79	373.2	65.8		432.3						550.5	97.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		315. 1	55.6	80	374.2	66, 0	40	433.3	76.4	_500	492.4	86.8	60	551.5	97. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21	316.1	55.8	381		66.2	441	434.3	76.6	501	493.4	87.0	561	552.5	97.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22	317.1	55.9	82	376. 2	66.3	42	435.3	76.8	02	494.4	87, 2	62	553.5	97.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23	318.1	56.1	83	377. 2	66.5		436, 3	76.9		495, 3	87.3		554.4	97.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24				378. 2	66.7	44	437.3	77.1	04	496.3		64	555.4	97.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25				379.2	66. 9	45	438, 2	77.3	05		87.7	65	556.4	98, 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	26	321.0	56.6			67.0		439. 2				87.9		557.4	98. 3
28 323.0 57.0 58 383.1 67.6 48 441.2 77.8 08 500.3 88.2 68 59 323.0 57.1 50 38 383.1 67.6 49 442.2 78.0 09 501.3 88.4 68 53 53 32 327.0 57.7 92 386.0 68.1 52 445.1 78.5 12 504.2 88.6 70 53 53 52 57.8 93 387.0 68.1 52 445.1 78.5 12 504.2 88.9 72 53 53 327.9 57.8 93 387.0 68.2 53 446.1 78.7 13 505.2 89.1 73 53 329.9 58.2 95 389.0 68.4 54 447.1 78.8 14 506.2 89.2 74 56 53 330.9 58.2 95 389.0 68.6 55 448.1 79.0 15 506.2 89.2 74 56 56 33 333.9 58.2 95 389.0 68.9 57 450.1 79.4 17 509.1 89.8 88 77 58 58 59 58.5 97 391.0 68.9 57 450.1 79.4 17 509.1 89.9 78 58 59 382.9 69.3 59 452.0 79.7 19 511.1 90.1 79 79 79 79 79 79 79 7	27				381.1	67. 2		440.2			499.3			558.4	98.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28	323 0	57.0		382.1	67.4		441.2	77.8		500.3	88. 2		559.4	98.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			57 1		383.1	67.6		449 9	78.0					560.3	98.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			57.3		384.1	67.7		443, 2			502, 2			561.3	99.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	31		57.5					444.2	78.3				571	562. 3 563. 3	99.1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		327.0							78.5		504, 2		72	563.3	99.3
34 328, 9 58, 0 94 388, 0 68, 4 54 447, 1 78, 8 14 506, 2 89, 2 774 58 58, 9 95 58, 9 09 390, 0 68, 8 56 449, 1 79, 2 16 508, 2 89, 6 76 58 58 58, 5 97 391, 0 68, 9 57 450, 1 79, 4 17 509, 1 89, 8 77 78 58 59, 1 40 393, 9 69, 5 69, 1 58 451, 0 79, 5 18 510, 1 89, 9 78 58 58 69 69, 1 58 451, 0 79, 5 18 510, 1 89, 9 78 58 58 69 69, 1 58 451, 0 79, 5 18 510, 1 89, 9 78 58 58 69 69, 1 58 451, 0 79, 5 18 510, 1 89, 9 78 58 58 69 69, 1 58 451, 0 79, 9 20 512, 1 90, 1 79 58 58 59 40 334, 8 59, 1 40 393, 9 69, 5 60 453, 0 79, 9 20 512, 1 90, 3 80 58 42 336, 8 59, 4 02 395, 9 69, 8 62 455, 0 80, 2 22 514, 1 90, 6 82 42 336, 8 59, 4 02 395, 9 69, 8 62 455, 0 80, 2 22 514, 1 90, 6 82 43 337, 8 59, 6 03 396, 9 70, 0 63 456, 0 80, 4 23 515, 1 90, 6 82 45 339, 8 59, 9 05 398, 9 70, 2 64 457, 0 80, 6 24 516, 0 91, 0 88 35 45 339, 8 59, 9 05 398, 9 70, 3 65 457, 9 80, 8 25 517, 0 91, 2 85 56 48 342, 7 60, 4 60, 8 70, 7 67 459, 9 81, 1 27 519, 0 91, 5 87 49 343, 7 60, 6 60 402, 8 71, 0 69 461, 9 81, 5 29 521, 0 91, 5 87 52 346, 7 61, 0 411 404, 8 71, 4 411 463, 8 81, 8 531 522, 9 92, 2 591 53 345, 7 61, 0 411 404, 8 71, 4 411 463, 8 81, 8 531 522, 9 92, 1 92, 0 90, 5 53 349, 6 61, 5 14 407, 7 71, 9 74 463, 8 82, 1 33 524, 9 92, 2 591 55 53 346, 6 61, 5 14 407, 7 72, 1 75 466, 8 82, 5 35 526, 9 92, 9 91, 5 55 58 352, 6 62, 0 17 410, 7 72, 1 75 466, 8 82, 5 35 526, 9 92, 9 91, 5 55 56 350, 6 61, 8 16 409, 7 72, 2 76 468, 8 82, 5 35 526, 9 92, 9 91, 5 55 56 35	33	327.9	57.8	93			53	446.1		13	505.2		73	564.3	99.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34	328.9	58.0	94	388.0		54	447.1	78.8	14	506.2		74	565.3	99. 5 99. 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	35	329, 9		95	389.0	68.6	55	448.1			507. 2		75	566, 3	99.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36	330.9		- 96	390.0	68.8		449.1			508.2		76	567. 2	100.0
38 332.9 58.7 98 392.0 69.1 55 451.0 79.5 18 510.1 89.9 78.9 392.0 69.1 59 452.0 79.7 71 71 511.1 90.1 78 5 40 334.8 59.1 400 393.9 69.5 60 453.0 79.9 20 512.1 90.3 80 5 42 336.8 59.2 401 394.9 69.6 62 455.0 80.2 222 514.1 90.5 68 62 455.0 80.2 222 514.1 90.6 68 62 455.0 80.2 222 514.1 90.6 88 62 455.0 80.2 222 514.1 90.6 88 5 80.2 222 514.1 90.6 88 5 80.8 23 515.1 90.8 83 516.0 90.0 83 90.0 80.6 24 516.0 91.0 84 45 <td>37</td> <td>331.9</td> <td>58.5</td> <td>97</td> <td>391.0</td> <td>68.9</td> <td>57</td> <td>450.1</td> <td>79.4</td> <td>17</td> <td>509.1</td> <td>89.8</td> <td>77</td> <td>568, 2</td> <td>100.2</td>	37	331.9	58.5	97	391.0	68.9	57	450.1	79.4	17	509.1	89.8	77	568, 2	100.2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	38	332.9	58, 7	98	392.0	69, 1	58	451.0	79.5	18	510.1	89.9	78	569.2	100.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	39	333. 9	58.9	99		69.3	59	452.0	79.7		511.1	90.1	79	569. 2 570. 2	100.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40 :	334.8	59.1	400	393, 9	69.5	60	453.0	79.9	20	512.1	90.3	80	571. 2	100.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41			401	394.9	69.6	461		80.1	521		90. 5	581	572.2	100.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										99			82	573. 2	101.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13	337.8	59.6		396.9			456 0		23	515 1		83	574 1	101. 2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					397. 9	70. 2				24				574.1 575.1	101.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					398 9	70.3	65	457.9		25	517.0			576 1	101.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						70.5		458 9		26	518.0			576. 1 577. 1	101.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		341 7			400.8	70.7		459 9		27	519.0			578.1	101.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		319 7			401.8			160.0	81.2	99	520.0			579.1	102. 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		212 7			105 6	71.0				20	521.0			580. 0	102.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		244.7						169 0		20	591.0			581.0	102. 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$											500.0				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		345.7				11.4	471		81.8	531	522.9			582.0 583.0	102.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		346. 7		12	405. 7	41.6	72	464, 8	82.0	32	523. 9	92.4		583.0	102.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					406. 7		13							584.0	102.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					407.7		74	466. S	82, 3		525.9			585.0	103.1
58 352.6 62.2 18 411.7 72.6 78 470.7 83.0 38 529.8 93.4 98 5 59 353.5 62.4 19 412.6 72.8 79 471.7 83.2 39 530.8 93.6 99 5 60 354.5 62.5 20 413.6 72.9 80 472.7 83.4 40 531.8 93.8 600 5						72.1	75	467.8	82.5		526.9			586. 0	103.3
58 352.6 62.2 18 411.7 72.6 78 470.7 83.0 38 529.8 93.4 98 5 59 353.5 62.4 19 412.6 72.8 79 471.7 83.2 39 530.8 93.6 99 5 60 354.5 62.5 20 413.6 72.9 80 472.7 83.4 40 531.8 93.8 600 5					409.7	72.2	76	468.8	82.7		527.9			586. 9	103.5
58 352.6 62.2 18 411.7 72.6 78 470.7 83.0 38 529.8 93.4 98 5 59 353.5 62.4 19 412.6 72.8 79 471.7 83.2 39 530.8 93.6 99 5 60 354.5 62.5 20 413.6 72.9 80 472.7 83.4 40 531.8 93.8 600 5	57					72.4	77		82.8		528.8	93. 2		587.9	103.6
59 333.5 62 4 19 412.6 72.8 79 471.7 83.2 39 530.8 93.6 99 5 60 354.5 62.5 20 413.6 72.9 80 472.7 83.4 40 531.8 93.8 600 5	58				411.7	72.6	78				529.8			588.9	103.8
60 354.5 62.5 20 413.6 72.9 80 472.7 83.4 40 531.8 93.8 600 5		353.5	62 4		412.6	72.8	79	471.7	83. 2			93.6		589.9	104.0
Dist. Dep. Lat. Dist.			62.5		413.6	72.9	80	472.7	83.4					590.9	104.2
Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist.							_								
	ist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
\$0° (100° 980° 980°)							009 (1	000 000	0 0000	`					

80° (100°, 260°, 280°).

Page 552]

TABLE 2.

Difference of Latitude and Departure for 11° (169°, 191°, 349°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
<u> </u>	1.0	0.0	0.	50.0	11.0	101	110.0	00.		100.0	0		224.2	
$\frac{1}{2}$	1.0 2.0	0. 2	61 62	59, 9 60, 9	11.6	$\frac{121}{22}$	118.8 119.8	23. 1 23. 3	181 82	177.7 178.7	34.5	241 42	236. 6 237. 6	46.0
3	2.0	0.6	63	61.8	12.0	23	120, 7	23.5	83	179.6	34.9	43	238.5	46.4
4	3. 9	0.8	64	62.8	12.2	24	121.7	23.7	84	180.6	35, 1	44	239, 5	46.6
5	4.9	1.0	65	63.8	12.4	25	122.7	23.9	85	181.6	35. 3	45	240.5	46.7
6	5. 9	1.1	-66	64.8	12.6	26	123.7	24.0	86	182, 6	35, 5	46	241.5	46.9
7	6.9	1.3	67	65.8	12.8	27	124.7	24. 2	87	183, 6	35. 7	47	242.5	47.1
8	7.9	1.5	68	66.8	13.0	28	125, 6	24.4	- 88	184.5	1 35. 9	48	243.4	47.3
9	8.8	1.7	69	67. 7	13. 2	29	126.6	24.6	89	185.5	36.1	49	244.4	47.5
_10	9, 8	1.9	70	68.7	13, 4	30	127.6	24.8	90	186.5	36, 3	50	245. 4	47.7
$\frac{11}{12}$	10. 8 11. 8	$\frac{2.1}{2.3}$	71	69. 7	13.5 13.7	131 32	128.6	25.0	191	187.5	36. 4	251	246.4	47.9
13	12, 8	9.5	72 73	70. 7 71. 7	13. 7	33	129. 6 130. 6	25. 2 25. 4	92 93	188.5 189.5	36.6 36.8	52 53	247. 4 248. 4	48. 1 48. 3
14	13.7	$\frac{2.5}{2.7}$	74	72.6	14.1	34	131.5	25.6	94	190.4	37.0	54	249. 3	48.5
15	14.7	2.9	75	73.6	14.3	35	132.5	25.8	95	191.4	37.2	55	250.3	48.7
16	15. 7	3.1	76	74.6	14.5	36	133.5	26.0	96	192, 4	37.4	56	251.3	48.8
17	16. 7	3. 2	77	75. 6	14.7	37	134.5	26, 1	97	193.4	37.6	57	252, 3	49.0
18	17.7	3.4	78	76.6	14.9	38	135.5	26, 3	98	194.4	37.8	58	253, 3	49.2
19	18.7	3.6	79	77.5	15.1	39	136.4	26.5	99	195.3	38.0	59	254, 2	49.4
_20	19, 6	3.8	-80	78.5	15.3	40	137. 4	26.7	200	196.3	38.2	60	255.2	49.6
21	20, 6	4.0	81	79.5	15, 5	I41	138.4	26. 9	201	197.3	38. 4	261	256.2	49.8
22	21.6	4.2	82	80.5	15.6	42	139.4	27.1	02	198.3	38.5	62	257. 2	50.0
23 24	22.6	4.4	83	81.5	15.8	43	140.4	27. 3	03	199.3	38.7	63	258.2	50.2
25	23.6 - 24.5	4.6	84 85	82.5	16.0	44	141 4	27.5	04	200.3	38.9	64	259.1	50.4
$\frac{25}{26}$	25, 5	4.8 5.0	86 86	83. 4 84. 4	16. 2	45 46	142.3	27. 7 27. 9	05 06	201. 2 202. 2	39.1	65 66	260.1 261.1	50.6 50.8
27	26.5	5.0	87	85.4	16, 4 16, 6	47	143, 3	28. 0	07	203. 2	39.5	67	262. 1	50.8
28	27.5	5. 2 5. 3	88	86.4	16.8	48	145.3	28. 2	08	204. 2	39.7	68	263. 1	51.1
29	28.5	5.5	89	87. 4	17.0	49	146.3	28. 4	09	205, 2	39.9	69	264. 1	51.3
30	29.4	5.7	90	88, 3	17.2	50	147.2	28, 6	10	206, 1	40.1	70	265.0	51.5
31	30. 4	5.9	91	89. 3	17.4	151	148.2	28.8	211	207.1	40.3	271	266.0	51.7
32	31.4	6.1	92	90.3	17.6	52	149.2	29.0	12	208, 1	40.5	72	267. 0	51.9
33	32, 4	6.3	93	91.3	17.7	53	150. 2	29. 2	13	209, 1	40, 6	73 74	268.0	52.1
34	33. 4	6.5	94	92, 3	17.9	54	151.2	29.4	14	210.1	40, 8	74	269.0	52.3
35	34.4	6.7	95	93, 3	18.1	55	152. 2	29.6	15	211.0	41.0	75	269. 9	52.5
36 37	35. 3 36. 3	$\frac{6.9}{7.1}$	96 97	94. 2 95. 2	18.3 18.5	56 57	153, 1 154, 1	29. 8 30. 0	16 17	212. 0 213. 0	41, 2	76 77	270.9 271.9	52.7 52.9
38	37. 3	7.3	98	96. 2	18.7	58	155.1	30.1	18	214.0	41.6	78	272. 9	53.0
39	38.3	7.4	99	97. 2	18.9	59	156. 1	30. 3	19	215.0	41.8	79	273.9	53.2
40	39.3	7.6	100	98. 2	19.1	60	157, 1	30, 5	20	216.0	42.0	80	274.9	53.4
41	40. 2	7.8	101	99. 1	19.3	161	158.0	30. 7	221	216.9	42.2	281	275.8	53.6
42	41.2	8. 0	02	100, 1	19.5	62	159.0	30.9	22 23	217, 9	42.4	82	276.8	53.8
43	42. 2	8, 2	-03	101.1	19.7	63	160.0	31, 1	23	218.9	42.6	83	277.8	54.0
44	43, 2	8.4	04	102.1	19.8	64	161.0	31.3	24	219. 9	42.7	84	278.8	54.2
45	44. 2	8.6	05	103.1	20.0	65	162.0	31.5	25	220.9	42.9	85	279.8	54, 4
46	45. 2	8.8	06	104.1	20.2	66	163.0	31.7	26	221.8	43.1	86	280. 7	54.6
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51	50. I	9.7	111	109.0	21. 2	171	167. 9	32.6	231	226.8	44.1	291	285. 7	55. 5
52	51.0	9. 9	12	109.9	21, 4	72	168.8	32.8	32	227. 7	44.3	92	286 6	55.7
53	52.0	10, 1	13	110.9	21.6	73	169.8	33.0	33	228, 7	44.5	93	287.6	55.9
54	53.0	10.3	14	111.9	21.8	74	170.8	33. 2	34	229. 7	44.6	94	288, 6	56.1
55	54.0	10.5	15	112.9	21.9	75	171.8	33.4	35	230. 7	44.8	95	289.6	56.3
56	55.0	10.7	16	113.9	22. 1	76	172.8	33, 6	36	231. 7	45.0	96	290.6	56.5
57	56.0	10.9	17	114.9	22.3	77	173. 7	33, 8	37	232.6	45. 2	97	291.5	56.7
58	56.9	11. I	18	115.8	22.5 22.7	78	174.7	34.0	38	233. 6	45, 4	98 99	292.5	56, 9
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79° (101°, 259°, 281°).

Difference of Latitude and Departure for 11° (169°, 191°, 349°).

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54 347.5 67.5 14 406.4 79.0 74 465.3 90.4 34 524.2 101.8 94 583.1 113.3 55 348.4 67.7 15 407.3 79.2 75 466.2 90.6 35 525.1 102.0 95 584.0 113.5 56 349.4 67.9 16 408.3 79.4 76 467.2 90.8 36 526.1 102.2 96 585.0 113.7 57 350.4 68.1 17 409.3 79.6 77 468.2 91.0 37 527.1 102.4 97 586.0 113.7 58 351.4 68.3 18 410.3 79.8 78 469.2 91.2 38 528.1 102.6 98 587.0 114.1 59 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.3 60 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dep. Lat. Dist. Dep. Lat.											592 9			501.1		
55 348.4 67.7 15 407.3 79.2 75 466.2 90.6 35 525.1 102.0 95 584.0 113.5 56 349.4 67.9 16 408.3 79.4 76 467.2 90.8 36 526.1 102.2 96 585.0 113.7 57 350.4 68.1 17 409.3 79.6 77 468.2 91.0 37 527.1 102.4 97 586.0 113.7 58 351.4 68.3 18 410.3 79.8 78 469.2 91.0 37 527.1 102.4 97 586.0 113.9 59 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.1 59 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.		340.0						165 9	90.3		594 9	101. 7		582 1	110.2	
56 349.4 67.9 16 408.3 79.4 76 467.2 90.8 36 526.1 102.2 96 585.0 113.7 57 350.4 68.1 17 409.3 79.6 77 468.2 91.0 37 527.1 102.4 97 556.0 113.9 58 351.4 68.3 18 410.3 79.8 78 469.2 91.2 38 528.1 102.6 98 587.0 114.1 59 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.3 60 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dist. Dep. Lat.			67.7		107.9		75	405, 5			595 1			584.0		
57 350.4 68.1 17 469.3 79.6 77 468.2 91.0 37 527.1 102.4 97 586.0 113.9 58 351.4 68.3 18 410.3 79.8 78 469.2 91.2 38 528.1 102.6 98 587.0 114.1 59 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.3 60 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.			67.0		407. 5			460.2				102.0				
55 351.4 68.3 18 410.3 79.8 78 469.2 91.2 38 528.1 102.6 98 587.0 114.1 56 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.3 60 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.								168 2								
59 352.4 68.5 19 411.3 80.0 79 470.2 91.4 39 529.1 102.8 99 588.0 114.3 60 353.4 68.7 20 412.3 80.1 80 471.1 91.6 40 530.1 103.0 600 589.0 114.5 Dist. Dep. Lat.																
60 353,4 68,7 20 412,3 80,1 80 471,1 91,6 40 530,1 103,0 600 589,0 114,5 Dist. Dep. Lat.								170 9								
Dist, Dep. Lat.					411.0									589.0		
	00	300. 4	00.7	-0	414.0	00.1		*****	31.0	10	500. 1	1147.0	1 000	500,0	111.0	
	Diet	Don	Lat	Diet	Don	Let	Dist	Don	Lat	Trist	Den	Lat	Dist	Den	Lat	
79° (101°, 259°, 281°).	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	rep.	Lat.	1	Dep.	Dat.	
							79° (1	01°, 259	9°, 281°).					- 1	

TABLE 2.

Difference of Latitude and Departure for 12° (168°, 192°, 348°).

Dist.	Lat.	Dep	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0. 2	61	59. 7	12.7	121	118.4	25. 2	181	177.0	37.6	241	235. 7	50.1
2	2.0	0.4	62	60.6	12.9	22	119.3	25. 4	82	178.0	37.8	42	236.7	50.3
3	2.9	0.6	63	61.6	13.1	23	120.3	25, 6	83	179.0	38.0	43	237. 7	50.5
4	3.9	0.8	64	62, 6	13.3	24 25	121.3 122.3	25. 8 26. 0	84 85	180. 0 181. 0	38.3 38.5	44 45	238. 7 239. 6	50. 7 50. 9
5 6	4.9 5.9	1.0	65 66	63. 6 64. 6	13. 5 13. 7	26	123. 2	26. 2	86	181.0	38.7	46	240.6	51.1
7	6.8	1.5	67	65. 5	13. 9	27	124. 2	26, 4	87	182.9	38.9	47	241.6	51.4
8	7.8	1.7	68	66.5	14, 1	$\tilde{2}$ s	125. 2	26. 6	88	183. 9	39. 1	48	242.6	51.6
9 -	8.8	1.9	69	67.5	14.3	29	126.2	26.8	89	184.9	39.3	49	243.6	51.8
10	9.8	2.1	70	68.5	14.6	30	127. 2	27. 0	90	185.8	39.5	_50_	244.5	52.0
11	10.8	2. 3	71	69. 4	14.8	131	128, 1	27. 2	191	186. 8	39. 7	251	245.5	52. 2
12	11. 7	2.5	72	70.4	15.0	32	129. 1	27.4	92	187.8	39.9	52	246.5 247.5	52.4
13	12. 7 13. 7	2, 7 2, 9	73 74	$71.4 \\ 72.4$	15, 2 15, 4	33	130. 1 131. 1	27. 7 27. 9	93 94	188. 8 189. 8	40. 1 40. 3	53 54	247. 5	52. 6 52. 8
15	14. 7	3.1	75	73.4	15.6	35	132. 0	28. 1	95	190.7	40.5	55	249. 4	53.0
16	15. 7	3.3	76	74.3	15.8	36	133. 0	28.3	96	191.7	40.8	56	250. 4	53, 2
17	16.6	3.5	76 77	75.3	16.0	37	134.0	28.5	97	192.7	41.0	57	251.4	53.4
18	17.6	3.7	78	76. 3	16.2	38	135, 0	28.7	98	193. 7	41. 2	58	252. 4	53.6
19	18.6	4.0	79	77. 3	16.4	39	136.0	28. 9	99	194.7	41.4	59	253.3	53.8
-20	19.6	4.2	80	78.3	16.6	40	136. 9	29.1	200	195.6	41.6	60	254.3	54.1
21 22	20, 5 21, 5	4.4	81 82	79. 2 80. 2	16.8	141 42	137. 9 138. 9	29. 3 29. 5	201 02	196. 6 197. 6	$\frac{41.8}{42.0}$	$\frac{261}{62}$	255. 3 256. 3	54.3 54.5
23	$\frac{21.0}{22.5}$	$\frac{4.6}{4.8}$	83	81. 2	17.0 17.3	43	139. 9	29. 7	03	198.6	42. 2	63	257.3	54.7
24	23.5	5.0	84	82. 2	17.5	44	140. 9	29. 9	04	199.5	42.4	64	258, 2	54.9
25	24.5	5. 2	85	83. 1	17.7	45	141.8	30. 1	05	200.5	42.6	65	259, 2	55, 1
26	25, 4	5.4	86	84.1	17.9	46	142, 8	30.4	-06	201.5	42.8	66	260, 2	55, 3
27	26. 4	5, 6	87	85.1	18.1	47	143.8	30.6	07	202. 5	43.0	67	261. 2	55, 5
28	27.4	5.8	88	86.1	18.3	48 49	144. 8 145. 7	30.8	08 09	203.5 204.4	43. 2 43. 5	68 69	262, 1 263, 1	55.7 55.9
29 30	28. 4 29. 3	6. 0 6. 2	89 · 90	87. 1 88. 0	18.5 18.7	50	146. 7	31. 2	10	205. 4	43. 7	70	264. 1	56.1
-31	$-\frac{20.3}{30.3}$	6. 4	-91	89.0	18.9	151	147. 7	31.4	211	206. 4	43, 9	271	265. 1	56, 3
32	31.3	6. 7	92	90.0	19.1	52	148.7	31. 6	12	207. 4	44. 1	72	266. 1	56. 6
33	32, 3	6, 9	93	91.0	19.3	53	149.7	31.8	13	208.3	44.3	73	267.0	56.8
34	33, 3	7.1	94	91.9	19.5	54	150.6	32.0	14	209.3	44.5	74	268. 0	57.0
35	34. 2	7.3	95	92. 9	19.8	55	151.6	32. 2 32. 4	15 16	210.3 211.3	44.7	75 76	269. 0 270. 0	57. 2 57. 4
36 37	35, 2 36, 2	7.5 7.7	96 97	93. 9 94. 9	20, 0 20, 2	56 57	152.6 153.6	32. 4	17	212.3	45.1	77	270.0	57.6
38	37 0	7.9	98	95. 9	20. 4	58	154. 5	32. 9	18	213. 2	45.3	78	271.9	57.8
39	37. 2 38. 1	5.1	99	96, 8	20, 6	59	155, 5	33. 1	19	214. 2	45.5	79	272. 9 273. 9	58.0
40	39, 1	8.3	100	97.8	20, 8	60	156, 5	33, 3	20	215.2	45.7	80		58, 2
41	40.1	8, 5	101	98, 8	21.0	161	157. 5	33. 5	221	216. 2	45.9	281	274.9	58.4
42	41.1	8.7	02	99. 8	21. 2	62	158, 5	33, 7	22	217.1	46. 2	82	275. 8	58.6
43	42.1	8, 9 9, 1	03 04	100. 7 101. 7	21.4 24.6	63 64	159, 4 160, 4	33. 9 34. 1	23 24	218, 1 219, 1	46. 4 46. 6	83 84	276. 8 277. 8	58. 8 59. 0
44 45	43. 0 44. 0	9, 4	05	101. 7	21.8	65	161.4	34.3	25	220. 1	46, 8	85	278.8	59.3
46	15, 0	9, 6	06	103. 7	22.0	66	162. 4	34.5	26	221.1	47.0	86	279.8	59, 5
47	46.0	9, 8	07	104.7	22, 2	67	163.4	34. 7	27	222.0	47. 2	87	280.7	59. 7
48	47.0	10.0	-08	105. 7	22, 5	68	164. 3	34. 9	28	223.0	47.4	88	281. 7	59, 9
49	47.9	10.2	-09	106.6	22.7	69	165, 3	35.1	29	224. 0	47.6	89 90	282. 7 283. 7	60.1
50	48, 9	10.4	-10	107.6	22. 9	70	166.3	35. 3 35. 6	30	$\frac{225.0}{226.0}$	48.0	291	281. 6	60.3
51 52	49, 9 50, 9	10, 6 10, 8	111 12	108, 6 109, 6	23, 1 23, 3	$\frac{171}{72}$	167.3 168.2	35, 8	231 32	226. 0 226. 9	48. 2	92	285, 6	60, 7
53	51.8	11.0	13	110, 5	23. 5	73	169. 2	36, 0	33	227.9	48. 4	93	286, 6	60.9
54	52. 8	11. 2	14	111.5	23. 7	74	170.2	36. 2	34	228.9	48.7	94	287.6	61.1
- 55	53. S	11.4	15	112.5	23, 9	75	171.2	36, 4	35	229, 9	48. 9	95	288, 6	61.3
56	54. 8	11.6	16	113.5	24.1	76	172. 2	36, 6	36	230.8	49.1	-96	289, 5	61, 5
57	55, S 56, 7	11.9	17	114.4	24.3	77 78	173. 1 174. 1	36, 8 37, 0	37 38	231. 8 232. 8	49.3	97 98	290, 5 291, 5	61. 7 62. 0
58 59	57.7	12. 1 12. 3	18 19	115, 4 116, 1	24.5 24.7	79	174. 1	37. 2	39	232. 8	49.7	99	292.5	62. 2
60	58.7	12.5	20	117.4	24.9	80	176. 1	37.4	40	234. 8	49.9	300	293.4	62.4

Dist, Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep.

78° (102°, 258°, 282°).

Lat.

Difference of Latitude and Departure for 12° (168°, 192°, 348°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Di∘t.	Lat.	Dep.	Dist.	Lat.	Dep.
301	294. 4	62.6	361	353, 1	75.0	421	411.8	87.5	481	470, 5	100. 0	541	529, 2	112, 5
02	295.4	62.8	62	354.1	75. 2	22	412.8	87.7	82	471.5	100.2	42	530. 2	112, 7
03	296.4	63, 0	63	355.1	75. 4	23	413.8	87.9	83	472.5	100.4	43	531, I	112.9
04	297. 4	63, 2	64 65	356.0	75. 7	$\frac{24}{25}$	414.7 415.7	88. 1 88. 3	84 85	473.4	100. 6 100. 8	44 45	532. I 533. I	113. 1 113. 3
05 06	298.3 299.3	63. 4 63. 6	66	357. 0 358. 0	$75.9 \\ 76.1$	$\frac{25}{26}$	416.7	88.6	86	474. 4 475. 4	101.0	46	534. I	113.5
07	300.3	63.8	67	359.0	76. 3	27	417.7	88, 8	87	476.4	101. 2	47	535. I	113.7
0S	301.3	64.0	68	360.0	76.5	28	418.6	89.0	88	477.3	101.4	48	536.0	113.9
- 09	302.2	64.2	69	360.9	76. 7	29	419.6	89. 2	89	478.3	101.6	49	537.0	114.1
10	303. 2	64.4	70	361.9	76. 9	30	420.6	89.4	90	479.3	101.9	_50	538.0	114.4
311	304. 2	64.6	$\frac{371}{72}$	362.9	77.1	431	421.6 422.6	89.6	491 92	480.3	102. 1 102. 3	551	538. 9 539. 9	114.6 114.8
12 13	305. 2 306. 2	64. 8 65. 1	73	363. 9 364. 8	77.3 77.5	32 33	422.6	89. 8 90. 0	93	481. 2 482. 2	102. 5	52 53	540.9	115.0
14	307.1	65. 3	74	365.8	77.7	34	424.5	90. 2	94	483. 2	102. 7	54	541.9	115.2
15	308. 1	65, 5	75	366.8	77.9	35	425.5	90.4	95	484.2	102.9	55	542.9	115.4
16	309.1	65.7	75 76	367.8	78. 2	36	426, 5	90.6	96	485. 2	103.1	- 56	543.8	115.6
17	310. 1	65. 9	77	368.8	78.4	37	427.5	90.8	97	486.1	103.3	57	544.8	115.8
18 19	311. 1 312. 0	66.1	78 79	369. 7 370. 7	78.6 78.8	38 39	428. 4 429. 4	91.0	98 99	487. 1 488. 1	103. 5 103. 8	58 59	545, 8 546, 8	116.0 116.2
20	313. 0	66.3	80	371.7	79.0	40	430.4	91.5	500	489.1	104. 0	60	547.8	116. 4
321	314.0	66. 7	381	372.7	79.2	441	431.4	91.7	501	490.0	104. 2	561	548.7	116.6
22	315.0	66. 9	82	373. 7	79. 4	42	432.3	91.9	02	491.0	104. 4	62	549.7	116.8
22 23	315.9	67.1	83	374.6	79.6	43	433.3	92. 1	03	492.0	104.6	63	550.7	117.0
24	316.9	67.3	84	375.6	79.8	44	434.3	92.3	04	493.0	104.8	64	551.7	117.2
25	317.9	67.6	85	376.6	80.0	45	435, 3	92.5	05	494.0	105.0	65	552.7	117.4
26 27	318.9 319.9	67. 8 68. 0	86 87	377.6 378.5	80. 2 80. 4	46 47	436.3 437.2	92. 7 92. 9	06 07	495, 0 495, 9	105. 2 105. 4	66 67	553. 7 554. 6	117.6 117.8
28	320. 8	68.2	88	379.5	80.7	48	438. 2	93, 1	08	496.9	105. 6	68	555.6	118.0
29	321.8	68.4	89	380.5	80. 9	49	439, 2	93, 3	09	497.9	105.8	69	556.6	118.2
30	322.8	68, 6	90	381.5	81. I	50	440.2	93, 5	10	498. 9	106.0	70	557, 5	118, 5
331	323.8	68. 8	391	382.5	81.3	451	441.1	93. 7	511	499.8	106.2	571	558, 5	118.7
32	324. 7	69.0	92	383.4	81.5	52	442.1	93. 9	12	500.8	106.4	72	559.5	118.9
33 34	325. 7 326. 7	69, 2 69, 4	93 94	384. 4 385. 4	81. 7 81. 9	53 54	443. 1 444. 1	94, 1 94, 4	13 14	501.8 502.8	106. 6 106. 8	73 74	560. 5 561. 5	119.1 119.3
35	327. 7	69.6	95	386. 4	82. 1	55	445.1	94.6	15	503.7	107. 0	75	562.4	119.5
36	328.7	69.8	96	387.3	82, 3	56	446.0	94.8	16	504.7	107. 2	76	563.4	119.7
37	329.6	70.0	97	388.3	82.5	57	447.0	95.0	17	505.7	107.4	77	564.4	119.9
38	330.6	70.3	98	389.3	82.7	58	448.0	95, 2	18	506. 7	107.6	78	565.4	120. 1
39 40	331. 6 332. 6	70. 5 70. 7	99 400	390.3 391.3	82, 9 83, 1	59 60	449, 0 450, 0	95.4 95.6	19 20	507. 7 508. 7	107. 8 108. 1	79 80	566. 4 567. 4	120.3 120.6
341	333, 5	70.7	$\frac{400}{401}$	392.2	83. 4	461	450. 9	95, 8	521	509.6	108.3	581	568, 3	120.8
42	334, 5	71.1	02	393. 2	83.6	62	451. 9	96.0	22	510.6	108.5	82	569.3	121.0
43	335. 5	71.3	03	394. 2	83.8	63	452.9	96. 2	23	511.6	108.7	83	570.3	121. 2
44	336, 5	71.5	04	395. 2	84.0	64	453.9	96.5	24	512.5	108.9	84	571.2	121.4
45	337.5	71.7	05	396. 2	84. 2	65	454.8	96.7	25 26	513.5	109.2	85	572. 2 573. 2	121.6
46 47	338.4	71.9	06 07	397. 1 398. 1	84.4	66 67	455.8	96.9	26 27	514.5 515.5	109. 4 109. 6	86 87	573, 2 $574, 2$	121. 8 122. 0
48	339. 4 340. 4	72.1	05	399.1	84. 6 84. 8	68	456, 8 457, 8	97. 1 97. 3	28	516.5	109. 8	88	575.2	122.0
49	341.4	72.5	09	400.1	85. 0	69	458, 8	97.5	29	517.5	110.0	89	576. 2	122.4
50	342.4	72.7	10	401.0	85. 2	70	459.7	97.7	30	518.4	110.2	90	577.1	122.6
351	343.3	73.0	411	402.0	85.4	471	460.7	97.9	531	519, 4	110.4	591	578.1	122.8
52	344.3	73. 2	12	403. 0	85.6	72 73	461. 7	98.1	32	520, 4	110.6	92	579, 1	123.0
53	345, 3	73.4	13	404.0	85.8	73	462.7	98.3	33	521.3	110.8	93 94	580.0	123. 2 123. 4
54 55	346.3 347.2	73.6 73.8	14 15	405.0 405.9	86.1 86.3	74 75	463. 6 464. 6	98, 5 98, 7	34 35	522, 3 523, 3	$111.0 \\ 111.2$	94 95	581. 0 582. 0	123. 4
56	348. 2	74.0	16	406.9	86, 5	76	465, 6	98, 9	36	524.3	111. 4	96	583.0	123. 9
57	349. 2	74.2	17	407.9	86.7	76 77	466, 6	99.1	37	525, 3	111.6	97	584.0	124.1
58	350, 2	74.4	18	408, 9	86.9	78	467.6	99, 4	38	526, 2	111.8	98	584.9	124.3
59	351.2	74.6	19	409.8	87.1	79	468, 5	99.6	39	527. 2	112.0	99	585, 9	124.5
60	352, 1	74, 8	20	410.8	87.3	80	469, 5	99, S	40	528. 2	112.3	600	586, 9	124, 7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
1						~UO /1	000 050	0 0000	1					

78° (102°, 258°, 282°).

Page 556]

TABLE 2.

Difference of Latitude and Departure for 13° (167°, 193°, 347°).

									(-	, ,	,	,.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.2	61	59.4	13. 7	121	117.9	27.2	181	176. 4	40. 7	241	234. 8	54. 2
2	1.9	0.4	62	60.4	13. 9	22	118.9	27.4	82	177.3	40.9	42	235, 8	54.4
3	2.9	0.7	-63	61.4	14. 2	23	119.8	27.7	83	178.3	41.2	43	236. 8	54.7
4	3, 9	0.9	64	62.4	14.4	24	120.8	27.9	84	179.3	41.4	44	237.7	54.9
5	4.9	1.1	65	63.3	14.6	25	121.8	28.1	85	180.3	41.6	45	238.7	55.1
6	5, 8	1.3	- 66	64. 3	14.8	26	122.8	28.3	- 86	181. 2	41.8	46	239. 7	55, 3
7	6, 8	1.6	67	65.3	15, 1	27	123, 7	28.6	87	182.2	42.1	47	240.7	55.6
8	7.8	1.8	68	66.3	15.3	28	124.7	28.8	- 88	183. 2	42.3	48	241.6	55.8
9	8, 8	2. 0 2. 2	69	67. 2	15, 5	29	125. 7	29.0	-89	184. 2	42.5	49	242.6	56.0
10	9. 7	2.2	70	68. 2	15.7	30	126.7	29, 2	90	185, 1	42.7	50	243.6	56.2
11	10.7	2.5	71	69.2	16.0	131	127.6	29, 5	191	186.1	43.0	251	244.6	56, 5
12	11.7 12.7	2. 7 2. 9	72	70. 2	16. 2	32	128.6	29.7	92	187.1	43. 2	52	245.5	56.7
13	12.7	2.9	73	71.1	16, 4	33	129.6	29.9	93	188.1	43.4	53	246.5	56. 9
14	13.6	3.1	74	72.1	16, 6	34	130, 6	30. 1	94	189. 0	43.6	54	247.5	57.1
15	14. 6	3.4	75	73. 1	16, 9	35	131.5	30. 4	95	190.0	43.9	55	248, 5	57.4
16	15.6	3.6	76	74.1	17.1	36	132.5	30.6	96	191, 0	44.1	56	249.4	57.6
17	16, 6	3, 8	77	75.0	17.3	37	133, 5	30.8	97	192.0	44.3	57	250. 4	57.8
18	17.5	4.0	78	76.0	17.5	38	134, 5	31.0	98	192.9	44.5	58	251.4	58.0
19	18.5	4.3	79	77.0	17.8	39	135, 4	31.3	- 99	193.9	44.8	59	252, 4	58, 3
20	19, 5	4.5	80	77.9	18.0	40	136. 4	31.5	200	194.9	45.0	60	253, 3	58, 5
21	20. 5	4.7	81	78.9	18.2	141	137.4	31.7	201	195. 8	45, 2	261	254. 3	58.7
22	21.4	4, 9	82	79. 9	18.4	42	138. 4	31.9	02	196, 8	45. 4	62	255, 3	58.9
23	22.4	5, 2	83	80.9	18.7	43	139.3	32. 2	03	197.8	45.7	63	256. 3	59. 2
24	23. 4	5.4	84	81.8	18.9	44	140.3	32. 4	04	198. 8	45.9	64	257. 2	59.4
25	24. 4	5, 6	85	82, 8	19, 1	45	141.3	32.6	05	199. 7	46.1	65	258, 2	59.6
26	25. 3	5.8	86	83, 8	19.3	46	142.3	32.8	06	200. 7	46.3	66	259, 2	59.8
27	26. 3	6.1	87	84.8	19, 6	47	143, 2	33. 1	07	201. 7	46, 6	67	260. 2	60.1
28	27. 3	6.3	88	85.7	19.8	18	144. 2	33. 3	08	202. 7	46. 8	68	261. 1	60.3
29	28, 3	6, 5	89	86. 7	20.0	49	145. 2	33, 5	09	203. 6	47.0	69	262.1	60.5
30	29.2	6. 7	90	87.7	20. 2	50	146, 2	33. 7	10	204.6	47. 2	70	263. 1	60.7
31	30. 2	7.0	91	88.7	20, 5	151	147.1	34.0	211	205. 6	47.5	271	264. 1	61.0
32	31. 2	7. 2	92	89. 6	20. 7	52	148.1	34. 2	12	206. 6	47.7	7.0	265, 0	61. 2
33	32. 2	7.4	93	90.6	20. 9	53	149.1	34. 4	13	207.5	47. 9	72 73	266. 0	61.4
34	33. 1	7.6	94	91.6	21. 1	54	150. 1	34.6	14	208.5	48. 1	74	267.0	61.6
35	34.1	7.9	95	92.6	21.4	55	151.0	34.9	15	209. 5	48.4	75	268. 0	61. 9
36	35. 1	8.1	96	93.5	21.6	56	152.0	35. 1	16	210.5	48.6	76	268.9	62.1
37	36, 1	8.3	97	94.5	21.8	57	153.0	35.3	17	211. 4	48.8	77	269. 9	62. 3
38	37. 0	8, 5	98	95, 5	22.0	58	154.0	35. 5	18	212. 4	49.0	78	270. 9	62.5
39	38. 0	8.8	99	96.5	22. 3	59	154. 9	35, 8	19	213. 4	49.3	79	271.8	62.8
40	39. 0	9.0	100	97.4	22.5	60	155. 9	36.0	20	214. 4	49.5	80	272.8	63.0
41	39, 9	9. 2	101	98.4	22. 7	161	156. 9	36. 2	221	215.3	49.7	281	273.8	63. 2
42	40. 9	9. 4	02	99. 4	22. 9	62	157. 8	36. 4	22	216.3	49.9	82	274.8	63. 4
43	41. 9	9.7	03	100. 4	23. 2	63	158.8	36. 7	23	217. 3	50. 2	83	275. 7	63. 7
44	42. 9	9. 9	04	101.3	23. 4	64	159. 8	36. 9	24	218.3	50. 4	84	276. 7	63.9
45	43. 8	10. 1	05	102.3	23.6	65	160. 8	37. 1	25	219.2	50.6	85	277. 7	64. 1
46	44. 8	10.3	06	103. 3	23.8	66	161. 7	37. 3	26	220. 2	50.8	86	278.7	64.3
47	45. 8	10.6	07	104.3	24. 1	67	162.7	37.6	27	221.2	51.1	87	279.6	64.6
48	46.8	10.8	08	105. 2	24.3	68	163. 7	37.8	28	222. 2	51.3	88	280. 6	64.8
49	47. 7	11.0	09	106, 2	24.5	69	164. 7	38.0	29	223. 1	51.5	89	281.6	65. 0
50	48. 7	11.2	10	107. 2	24.7	70	165, 6	38. 2	30	224.1	51.7	90	282.6	65. 2
51	49.7	11.5	111	108, 2	25.0	171	166, 6	38, 5	231	225. 1	52.0	291	283.5	65. 5
52	50. 7	11.7	12	109. 1	25. 2	72	167.6	38.7	32	226. 1	52. 2	92	284.5	65. 7
53	51.6	11.9	13	110. 1	25. 4	73	168, 6	38. 9	33	227. 0	52. 4	93	285. 5	65. 9
54	52.6	12.1	14	111.1	25, 6	74	169, 5	39. 1	34	228. 0	52. 6	94	286, 5	66.1
55	53.6	12. 1	15	112. 1	25. 9	75	170.5	39, 4	35	229. 0	52, 9	95	287. 4	66.4
56	54.6	12. 6	16	113. 0	26. 1	76	171.5	39, 6	36	230.0	53. 1	96	288, 4	66.6
57	55, 5	12. 8	17	114. 0	26. 3	77	172.5	39, 8	37	230. 0	53. 3	97	289, 4	66, 8
58	56, 5	13. 0	18	115.0	26.5	78	173. 4	40.0	38	231.9	53.5	98	290. 4	67.0
59	57.5	13. 3	19	116.0	26. 8	79	174. 4	40. 0	39	232. 9	53.8	99	291.3	67.3
60	58, 5	13, 5	20	116. 0	27. 0	80	175, 4	40. 5	40	233, 8	54. 0	300	292.3	67.5
00	00.0	10.0	20	110. 9	27.0		110.4	10. 0	.1()	200, 8	01.0	500	20 mi 0	37.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	277 [75	Apert.	17156.	12.15	i are c.	1 1/100	1.11.	DATE:		2.4 [5.			1.17	
						77° (1	03°, 257	°. 283°).					

77° (103°, 257°, 283°).

TABLE 2.

Difference of Latitude and Departure for 13° (167°, 193°, 347°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	293. 3	67.7	361	351.8	81.2	421	410. 2	94.7	481	468, 7	108. 2	541	527.2	121.7
02	294.3	67.9	62	352.7	81.4	22	411.2	94. 9	82	469.7	108. 4	42	528.1	121.9
03	295. 2	68.1	63	353. 7	81.6	23	412.2	95. 1	83	470.6	108.6	43	529.1	122, 1
	296. 2		64	354.7	81.9	24	413. 1	95. 3	84	471.6	108. 8	44	530, 1	122. 3
04	200. 2	68.4		355, 6	82.1	25	414.1	95. 6	85	472.6	109.0	45	531.1	122.5
05	297. 2	68.6	65		82. 3	26	415.1	95. 8	86	473.6	109.3	46	532. 0	122. 8
06	298, 2	68.8	66	356, 6		27				474.5	109.5	47	533.0	123. 0
07	299. 1	69. 0	67	357.6	82.5		416.1	96, 0	87					
08	300.1	69. 3	68	358, 6	82.8	28	417.0	96. 2	88	475.5	109.7	48	534.0	123. 2
09	301.1	69, 5	69	359. 5	83.0	29	418.0	96.5	89	476.5	109.9	49	535.0	123.4
10	302.1	69.7	70 1	360. 5	83. 2	30	419.0	96. 7	90	477.5	110.1	_50_	535. 9	123.7
311	303.0	69, 9	371	361.5	83.4	431	420.0	96. 9	491	478.4	110.4	551	536, 9	123.9
12 13	304.0	70. 2 70. 4	72 73	362.5	83. 7	32	420.9	97.1	92	479.4	110.6	-52	537. 9	124.1
13	305.0	70.4	73	363. 4	83.9	33	421.9	97.4	93	480.4	110.9	53	538. 9	124.4
14	306.0	70.6	74	364.4	84.1	34	422.9	97.6	94	481.4	111.1	54	539.8	124.6 124.9
15	306.9	70.8	75	365.4	84.3	35	423.9	97.8	95	482.3	111.3	55	540.8	124.9
16	307.9	71.1		366.4	84.6	36	424.8	98.0	96	483.3	111.5	56	541.8	125, 1
17	308.9	71.3	76 77	367.3	84.8	37	425.8	98.3	97	484.3	111.8	57	542.8 543.7	125.3
18	309. 9	71.5	78	368.3	85.0	38	426.8	98.5	98	485, 3	112.0	58	543.7	125.5
19	310.8	71.7	79	369.3	85. 2	39	427. 8	98.7	99	486. 2	112.2	59	544.7	125.8
20	311.8	72.0	80	370.3	85.5	40	428.7	98. 9	500	487. 2	112.4	60	545.7	126.0
20		72.0										561	546. 7	126. 2
321 22 23	312. 8 313. 8	72. 2 72. 4 72. 6 72. 9	381	371.2	85.7	441	429.7	99.2	501	488 2	112.6			
22	313, 8	72.4	82 83	$372.2 \\ 373.2$	85. 9	42	430.7	99, 4	02	489. 2	112.9	62	547.6	126. 4
23	314.7 315.7	72.6	83	373.2	86.1	43	431.6	99.6	03		113.1	63	548.6	126. 7
24 25	315, 7	72.9	84	374.2	86.4	44	432.6	99.8	04	491.1	113.3	64	549.6	126. 9
25	316.7	73. 1	85	375.1	86.6	45	433.6	100.1	- 05	492.1	113.5	65	550.6	127. 1
26	317.6	73.3	86	376.1	86.8	46	434.6	100.3	- 06	493.1	113.8	66	551.5	127.3
27 28	318.6	73, 5	87	377.1	87.0	47	435.5	100, 5	07	494.0	114.0	67	552.5	127.6
28	319.6	73. S	88	378.1	87.3 87.5	48	$436.5 \\ 437.5$	100.7	08	495.0	114.2	68	553, 5	127.8
29	320.6	74.0	89	379.0	87.5	49	437.5	101.0	-09	496, 0	114.5	69	554.5	128.0
30	321.5	74.2	90	380.0	87.7	50	438.5	101.2	10	496.9	114.7	70	555.4	128.3
331	322.5	74.4	391	381.0	87.9	451	439.4	101, 4	511	497.9	114.9	571	556, 4	128.5
32	323.5	74. 7	92	382.0	88. 2	52	440.4	101.6	12	498.9	115. 1	72 73	557.4	128.7
33	324.5	74.9	93	382.9	88. 4	53	441.4	101.9	13	499, 9	115.4	73	558.4	128.9
34	325.4	75. 1	94	383. 9	88.6	54	442.4	102.1	14	500.8	115.6	74	559.3	129.2
35	326, 4	75.3	95	384.9	88.8	55	443. 3	102.3	15	501.8	115.8	75	560.3	129. 4
36	327. 4	75.6	96	385.9	89.1	56	444.3	102.5	16	502.8	116.0	76	561.3	129.6
		75. S	97	386.8	89.3	57	445. 3	102.8	17	503.8	116.3	76 77	562. 3	129.8
37	328.4		98	387.8	00.5		446.3	103. 0	18	504.7	116.5	78	563. 2	130.0
38	329.3	76.0			89.5	58			19	505.7	116. 7	79	564. 2	130. 2
39	330.3	76.2	99	388.8	89.7	59	447. 2	103.2			110.7	80	565. 2	130. 4
40	331.3	76.5	400	389.8	90, 0	60	448, 2	103.4	20	506. 7	116.9			
341	332.3	76.7	401	390.7	90. 2	461	449. 2	103. 7	521 22	507.7	117.2	581	566. 2	130.7
42	333. 2	76.9	02	391.7	90.4	62	450. 2	103. 9	22	508.6	$117.2 \\ 117.5$	82	567.1	131.0
43	334, 2	77.1	-03	392.7	90.6	63	451.1	104.1	23	509.6	117.7	83	568.1	131. 2
44	335. 2	77. 4 77. 6 77. 8	04	393.6	90.8	64	452.1	104.3	24	510.6	117.9	84	569. 1	131.4
45	336. 2 337. 1	77.6	-05	394.6	91. 1	65	453, 1	104.6	25	511.6	118.1	85	570.1	131.6
46	337.1	77.8	-06	395.6	91.3	66	454.1	104.8	26 27 28	512.5 513.5	118, 3	86	571.0	131.8
47	338.1	78, 0	07	396.6	91. 5 91. 7	67	455.0	105.0	27	513.5	118, 5	87	572. 0 573. 0	132. 0 132. 3
48	339.1	78.3	08	397.5	91.7	68	456.0	105. 2	28	514.5	118.7	- 88	573.0	132.3
49	340.1	78, 5	09	398.5	92.0	69	457.0	105.5	29	515.5	119.0	89	573.9	132.5
50	341.0	78.7	10	399.5	92.2	70	458.0	105.7	30	516.4	119.2	90	574.9	132.8
351	342.0	78.9	411	400.5	92.4	471	458. 9	105. 9	531	517.4	119. 4	591	575. 9	133. 0
52	343.0	79. 2	12	401.4	92.6	72	459. 9	106. 1	32	518. 4	119.6	92	576.9	133. 2
53	344.0	79. 4	13	402. 4	92. 0	73	460, 9	106. 4	33	519. 4	119. 9	93	577.8	133. 4
	344.9	79. 6		403.4	93. 1	74	461. 9	106. 6	34	520.3	120. 1	94	578.8	133. 6
54			14	404.4	93. 3		462.8	106. 8	35	520.3	120. 1	95	579.8	133. 8
55	345.9	79.8	115	105.0		75	102.8	105.8	35 36	500 0	120. 5	96	580.8	134, 0
56	346.9	80.1	16	405, 3	93.5	76	463.8	107.0	30	522.3 523.3				191.9
57	347.9	80.3	17	406.3	93.8	77	464.8	107.3	37	023.3	120. 8	97	581.7	134.3
58	348.8	80.5	18	407.3	94.0	78	465.8	107.5	38	524. 2	121.0	98	582.7	134. 5
59	349.8	80.7	19	408.3	94. 2	79	466, 7	107.7	39	525. 2	121. 2	99	583.7	134.8
60	350, 8	81,0	20	409. 2	94. 4	80	467.7	107.9	40	526. 2	121.5	600	584.6	135.0
l					·									
			1	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
Dist.	Dep.	Lat.	Dist	Dep.	Late U.		1,01,	17000	4	A.C.P.	A 2 (A 4)	171.00.	rich.	A.Sta Ci

Page 558]

TABLE 2.

Difference of Latitude and Departure for 14° (166°, 194°, 346°).

				nce of 1	zititud.	e and	Departu	Te Ioi	17 (1	00 , 174	, 540	<i>)</i> ·		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	$\begin{array}{c} 0.2 \\ 0.5 \\ 0.7 \end{array}$	61	59. 2	14.8	121	117.4	29.3	181	175. 6	43.8	241	233. 8	58. 3
3	1.9	0.5	62 63	60. 2	15.0	22 23	117. 4 118. 4	29, 5	82 83	176.6	44.0	42	234. 8 235. 8	58.5
3	2.9	0.7	-63	61.1	15. 2 15. 5	23	119.3	29, 8	-83	177.6	44.3	43	235.8	58.8
4	3.9	1.0	64	62. 1 63. 1	15.5	24	120.3	30.0	84	178, 5	44.5	44	236, 8	59.0
5	4.9	1. 2	65	63. 1	15. 7	25	121.3	30. 2	85	179.5	44.8	45	237. 7	59.3
6	5.8	1.5	66	64. 0	16, 0	26	122.3 123.2	30.5	86	180.5	45.0	46	238. 7	59, 5
7 8	6.8	1. 7 1. 9	67	65. 0	16.2	27 28	123. 2 124. 2	30.7	87	181.4	45. 2	47	239.7	59.8
9	7. 8 8. 7	2. 2	68 69	66. 0 67. 0	16, 2 16, 5 16, 7	29	124. 2	31.0 31.2	88 89	182. 4 183. 4	45.5 45.7	48 49	240, 6 241, 6	60. 0 60. 2
10	9. 7	2. 4	70	67. 9	16. 9	30	126. 1	31.4	90	184.4	46.0	50	242.6	60. 5
t 11	$\frac{0.7}{10.7}$	7		68. 9	17 9	131	127 1	31. 7	191	185, 3	46. 2	$\frac{60}{251}$	243. 5	60.7
12	11.6	2. 7 2. 9	71 72	69. 9	17. 2 17. 4 17. 7 17. 9	32	127. 1 128. 1	31. 9	92	186, 3	46. 4	52	244.5	61.0
13	12, 6	3. 1	73	70.8	17. 7	33	129.0	32. 2	93	187.3	46, 7	53	245.5	61. 2
14	13.6	3.4	74	71.8	17.9	34	130.0	32.4	94	188, 2	46.9	54	246.5	61.4
15	14.6	3, 4	75	72. 8 73. 7 74. 7 75. 7	18. 1	35	131.0	32. 7	95	189, 2	47. 2 47. 4	55	247. 4	61.7
16	15.5	3, 9	76	73.7	18.4	36	132. 0 132. 9	32.9	-96	190. 2	47.4	56	248.4	61.9
17	16. 5	4. 1	77	74.7	18, 6	37	132. 9	33. 1	97	191.1	47.7	57	249.4	62. 2
18	17.5	4.4	78	75. 7	18. 9	38	133. 9	33.4	98	192.1	47. 9	58	250. 3	62.4
19	18. 4	4.6	79	76. 7	19.1	39	134. 9	33, 6	99	193. 1	48.1	59	251. 3 252. 3	62.7
20	19.4	$-\frac{4.8}{5.3}$	80	77.6	19. 4	40	135, 8	33, 9	200	194.1	48.4	60	253. 2	62.9
21 22	20. 4	5. 1 5. 3	81 82	78. 6 79. 6	19.6 19.8	141 42	136. 8 137. 8	34. 1 34. 4	$\frac{201}{02}$	195, 0 196, 0	48, 6 48, 9	261 62	254. 2	63. 1 63. 4
23	21.3 22.3	5, 6	83	80.5	20, 1	43	138, 8	34, 6	03	195.0	49.1	63	255. 2	63. 6
24	23. 3	5.8	84	81.5	20, 3	44	139. 7	34.8	03	197.9	49. 4	64	256, 2	63. 9
25	24. 3	6.0	85	82.5	20, 6	45	140.7	35. 1	05	198.9	49. 6	65	257. 1	64. 1
26	24.3 25.2	6.3	86	82. 5 83. 4	20.8	46	141.7	35. 1 35. 3	-06	199, 9	49.8	66	258.1	64. 4
27	26.2	6, 5	87	84. 4	21.0	47	142.6	35, 6	-07	200. 9	50. 1	67	259, 1	64.6
28	27.2	6.8	88	85, 4	21.3	48	143.6	35, 8	08	201.8	50, 3	68	260.0	64.8
29	28. 1	7.0	89	86.4	21, 5	49	144.6	36. 0	- 09	202.8	50.6	69	261.0	65, 1
30	29. 1	7.3	90	87.3	21.8	50	145, 5	36, 3	10	203.8	50, 8	70	262.0	65.3
31	30. 1	7. 5 7. 7	91	88.3	22. 0 22. 3	151	146.5	36. 5	211	204. 7	51. 0 51. 3	271	263, 0 263, 9	65. 6
32	31.0 32.0	8, 0	92 93	89.3 90.2	22. 5	52 53	147. 5 148. 5	36.8	12 13	205. 7 206. 7	51.5	72 73	264. 9	65. 8 66. 0
34	33. 0	8 9	94	91 9	99 7	54	149, 4	37. 0 37. 3 37. 5	14	207.6	51.8	74	265. 9	66, 3
35	34. 0	8. 2 8. 5	95	91, 2 92, 2	22. 7 23. 0	55	150. 4	37. 5	15	208.6	52.0	74 75	266. 8	66. 5
36	34. 9	8.7	96	93. 1	23. 2	56	151.4	37.7	16	209, 6	52. 0 52. 3	76	266, 8 267, 8	66.8
37	35. 9	9.0	97	94.1	23.5 23.7	57	152.3	38.0	17	210.6	52.5	77	268.8	67.0
38	36. 9	9. 2	98	95. I	23.7	58	153, 3	38. 2	18	211.5	52.7	78	269.7	67.3
39	37.8	9.4	- 99	96.1	24, 0	59	154.3	38.5	19	212.5	53.0	79	270, 7	67.5
40	_38, 8	9.7	100	97.0	24. 2	60	155, 2	38.7	20	213.5	53, 2	80	271.7	67.7
41	39, 8	9. 9	101	98, 0	24.4	161	156, 2	38. 9	221	214.4	53, 5	281	272. 7 273. 6	68.0
42	40.8	10.2	02	99, 0	24. 7 24. 9	62 63	157. 2	39, 2 39, 4	22 23	215, 4 216, 4	53, 7 53, 9	82 83	274.6	68, 2 68, 5
43 44	41.7 42.7	10. 4 10. 6	03 04	99, 9 100, 9	25, 2	64	158, 2 159, 1	39. 7	24	217. 3	54. 2	84	275.6	68, 7
45	43.7	10. 6	05	101.9	25. 4	65	160. 1	39. 9	25	218.3	54. 4	85	276.5	68, 9
46	44. 6	11. 1	06	102.9	25. 6	66	161.1	40.2	26	219.3	54.7	86	277.5	69, 2
47	45.6	11.4	07	103.8	25, 9	67	161.1 162.0	40.4	27	220, 3	54.9	87	278.5 279.4	69, 4
48	46.6	11.6	-08	104. 8 105. 8	26. 1	68	163.0	40, 6	28	221. 2	55, 2	88	279.4	69. 7
49	47.5	11.9	-09	105.8	26, 4	69	164.0	40.9	29	222. 2 223. 2	55, 4	89	280. 4	69. 9
50	48, 5	12. 1	10	106.7	26, 6	70	165, 0	41.1	30	223. 2	55.6	90	281. 4	70.2
51	49. 5	12.3 12.6 12.8	111	107.7	26. 9	171	165.9	41.4	231	224.1	55, 9	291	282.4	70. 4
52	50.5	12.6	12	108.7	$\frac{27.1}{27.3}$	72 73	166. 9 167. 9	41.6	32	225. 1	56. 1 56. 4	92 93	283, 3 284, 3	70, 6 70, 9
53	51. 4 52. 4	13.1	13 14	109, 6 110, 6	27. 6	74	168.8	$\frac{41.9}{42.1}$	33 34	$226.1 \\ 227.0$	56. 6	94	285. 3	71. 1
54 55	53.4	13. 1	15	111.6	27.8	75	169.8	42.3	35	228.0	56. 9	95	286. 2	71.4
56	54.3	13. 5	16	112.6	28. 1	76	170.8	42.6	36	229.0	57.1	96	287. 2	71.6
57	55.3	13. 8	17	112.6 113.5	28.3	77	171.7	42.8	37	230.0	57.3	97	288. 2	71.9
58	56.3	14.0	18	114.5	28. 5	78 79	172. 7 173. 7	42. 8 43. 1	38	230.9	57.6	98	-289.1	72.1
59	57.2	14.3	19	115.5	28.8	79	173.7	43.3	39	231. 9	57.8	99	290. 1	72. 1 72. 3 72. 6
60	58.2	14.5	20	116. 4	29.0	80	174.7	43.5	40	232. 9	58.1	300	291, 1	72. 6
_			701.4	-		701.0	71	Y	Dist	Dep.	Lat.	Dist.	Dep.	Lat.
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	April C
1						76° (1	04°, 256	°, 284°).					

Difference of Latitude and Departure for 14° (166°, 194°, 346°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	292.0	72.8	361	350.2	87.3	421 22 23	408.5	101.8	481	466, 7	116.3	541	525, 0	130. 9
02	293.0	73.0	62	351. 2 352. 2	87.6	20	409. 4 410, 4	102, 1 102, 3	82 83	467. 7	116. 6 116. 8	42	525, 9 526, 9	131.2
03 04	294. 0 294. 9	73.3 73.5	63 64	353. 2	87. 8 88. 0	23	410.4	102.3	83 84	468, 6 469, 6	116.8	43 44	526.9	131, 4 131, 6
05	295. 9	73.8	65	354. 1	99 3	24 25 26 27	411. 4	102.6	85	470 6	117. 1 117. 3 117. 6	45	527. 9 528. 8 529. 8	131. 6
06	296. 9	74. 0	66	355, 1	88.5	26	412.3 413.3	102. S 103. 0	86	470. 6 471. 5 472. 5 473. 5	117.6	46	529. 8	132. 1
07	297.8	74.2	67	356.1	88.8	27	414.3	103.3	87	472.5		47	530, 8	132.3
08	298. 8	74.5	68	357.0	89.0	28	414.3 415.3	103, 5	-88	473.5	118.0	48	531.7	-132.6.
09	299. 8 300. 8	74.7	69	358.0	89. 2	29	416 9	103.8	89	4/4.5	118.0 118.3	49	532.7 533.7	132.8
10	300.8	75. 0	70	359.0	89.5	_30	417. 2	104.0	90	475.4	118.5	50		133.0
311	301. 7 302. 7 303. 7	75. 2 75. 5 75. 7	371	359. 9	89.7	431	418, 2	104. 2 104. 5	491	476. 4 477. 4 478. 3	118.8	551	534.6	133. 3
12 13	202.7	10.0	72 73	360.9	90.0	32 33	419.1 420.1	104. 5	92 93	170 9	119. 0 119. 2	52 53	535.6	133.6 133.8
14	304, 6	75, 9	74	361, 9 362, 9	90. 2 90. 5 90. 7	34	420.1	104. 7 105. 0 105. 2	94	479.3	119.5	54	536, 6 537, 5	134.0
15	305.6	76. 2	75	363.8	90.7	35	$421.1 \\ 422.0$	105. 2	95	480.3	119.7	55	538.5	134, 3
16	306.6	76.4	76	S 138	un a	36	423, 0 424, 0 425, 0	105, 5	96	481 3	120.0	56	539 5	134.5
17	307. 6 308. 5	76.7	76 77 78	365. 8	91. 2 91. 4 91. 7	37	424.0	105.7	97	482. 2 483. 2 484. 2	120. 2 120. 4	57	540. 5 541. 4 542. 4	134.8
18	308.5	$\frac{76.9}{77.2}$	78	366. 7 367. 7	91.4	38	425.0	105.9	98	483.2	120. 4	58	541.4	135.0
19	309.5	77. 2	79	367.7	91.7	39	425.9	106.2	99	484.2	120.7	59	542.4	135. 2
20	310.5	77.4	80	368.7	91.9	40	426, 9	106, 4	500	485.1	121.0	60	543. 4	135.5
321 22 23 24 25	311.4	77. 6 77. 9 78. 1	381	369.6	92. 2 92. 4 92. 6	441	427.9	106.7	501 02	486, 1 487, 1 488, 0	121. 2 121. 4 121. 7 122. 0 122. 1 122. 4 122. 6	561 62	544.3 545.3 546.3 547.2 548.2 549.2 550.1	135. 7 135. 9 136. 2 136. 5 136. 6 136. 9
22	313 4	78 1	82 83	370.0	92. 4 99. 6	42 43	428. 8 429. 8	100.9	03	488 0	121.4	63	540.3	136.9
24	312. 4 313. 4 314. 3	78. 4	84	370. 6 371. 6 372. 6 373. 5	92. 9	44	430.8	106. 9 107. 1 107. 4 107. 6 107. 9	04	489.0	122.0	64	547. 2	136. 5
25	315. 3 316. 3	78.6	85	373.5	93. 1	45	431.7	107. 6	05	490.0	122.1	65	548. 2	136.6
26	316.3	78.8	86	374.5	93, 4	46	431.7 432.7	107.9	-06	491.0	122.4	- 66	549.2	136.9
26 27 28 29 30	317.3	79.1	87	375.5	93. 6	47	433. 7	108.1	07	491.9	122.6	67	550.1	
28	318. 2	79.3	88	376. 4 377. 4	93, 8	48	434.7 435.6	108. 4	08	492.9	1244.91	68		137.4 137.6
29	319, 2 320, 2	79.6	89	377.4	94.1	49	435.6	108.6	09	493. 9 494. 9	123.1	69	552. 1 553. 1	137.6
30	320. 2	79.8	90	378.4	94, 3	50	436.6	108.8	10		123, 4	70		137.9
331 32 33 34 35	321.1	80. 1 80. 3	391 92	379. 4 380. 3	94.6 94.8	$\frac{451}{52}$	437.6	109. 1 109. 3	511 12	495. 8 496. 8	123. 6 123. 8	571	554. 0 555. 0	138.1
33	322. 1 323. 1	80.5	93	381, 3 382, 3 383, 2 384, 2 385, 2	95.1	53	$438.5 \\ 439.5$	109.6	13	497.8	124. 1 124. 3 124. 6 124. 8 125. 0	72 73 74	556. 0 557. 0 557. 9 558. 9	138. 3 138. 6 138. 8 139. 1
34	324. 0 325. 0	80, 8 81, 0	94	382.3	95. 1 95. 3 95. 5	54	440.5	109.8	14	498. 7	124.3	74	557. 0	138.8
35	325.0	81.0	95	383.2	95.5	54 55	441.5	110. 1 110. 3	15	498. 7 499. 7	124.6	75	557.9	139.1
36 [$326.0 \\ 327.0$	81.3	96	384.2	95.8	56	442. 4 443. 4 414. 4	110.3	16	500.7	124.8	76	558, 9	139.3
37	327.0	81.5 81.7	97	385. 2	96.0	57	443. 4	110.5	17	501.7	125. 0	77	559. 9	139. 5 139. 8
38 39	327.9	81.7	98	586. I	96.3	58	414.4	110.8	18	502.6	125. 3	78	559. 9 560. 9 561. 8	139, 8
40	$328.9 \\ 329.9$	82. 0 82. 2	99 400	387. 1 388. 1	96, 5 96, 7	59 60	445.3 446.3	111.0 111.3	19 20	503. 6 504. 6	125, 6 125, 8	79 80	562.8	140.0 140.3
341	330 8	82.5	401	280 1	97.0	461	417.3	111 5	521 22 23 24	505.5	126. 0	581	563 8	140.5
42	331. 8 332. 8 333. 7	82.5 82.7	02	390.0	97. 2	62	448. 2	111.7	22	506. 5 507. 5 508. 4	126. 2	82	564. 7 565. 7 566. 7	140.8 141.0 141.3
42 43	332.8	83. 0 83. 2	03	391.0	97. 2 97. 5 97. 7	63	448, 2 449, 2 450, 2	112.0	23	507.5	126. 2 126. 5	83	565.7	141.0
44	333.7	83.2	04	399 0	97.7	64	450.2	112. 2	24	508.4	1196 81	84	566.7	141.3
45	334.7	83.4	05	392.9	98.0	65	451.2	112.5		509.4	127.0	85	567. 6	141.5
46	335.7	83. 4 83. 7 83. 9	06	392. 9 393. 9 394. 9	98.2	66	452. 1 453. 1	111. 7 112. 0 112. 2 112. 5 112. 7 113. 0	26 27	510.4	[127, 2]	86	568.6	141. 5 141. 8 142. 0
47 48	334. 7 335. 7 336. 7 337. 6	84.2	07 08	394. 9	98. 0 98. 2 98. 4 98. 7	67 68	453. 1 454. 1	113.0	27 28	511. 4 512. 3 513. 3	127. 0 127. 2 127. 5 127. 8	87 88	570 6	142.0 142.3
49	338.6	84.4	09	396.8	98.9	69	455. 0	113. 4	28 29	513.3	127.8	88 89	571.5	142. 5
50	339.6	84.7	10	397.8	99. 2	70	456.0	113. 7	30	514.3	128, 2	90	566. 7 567. 6 568. 6 569. 6 570. 6 571. 5 572. 5	142. 5 142. 8
351	340.5 341.5 342.5 343.5 344.4	84.9	411	398.8			457.0	113.9		515.3	128.5	591	573. 5	143.0
-52	341.5	85.1	12	399.7	99. 4 99. 7	471 72	457. 0 457. 9	114.2	$\frac{531}{32}$	515.3 516.2	128.8	92	574 4	143.3
53	342.5	85.4	13	400.7	99. 9	73	458. 9	114.4	33	517. 2	129.0	93	575. 4	143.5
54	343. 5	85.6	14	401.7	99. 9 100. 1 100. 4 100. 6	74 75	459. 9 460. 9	114.6	34	518. 2 519. 1	129. 2	94	575. 4 576. 4 577. 3	143.8
55 56	344. 4 345. 4	85. 9 86. 1	15 16	402.6	100.4	75 76	460.9	114. 9	35	519. 1 520. 1	129. 4 129. 7	95	577.3	144.0
57	346.4	86.3	16	403. 6 404. 6	100.6	70	461.8 469.8	115.1 115.4	36 37	520. I 521. I	129.7	96 97	578.3 579.3	$144.2 \\ 144.5$
58	347.3	86, 6	18	405.5	101.1	77 78	462. 8 463. 8	115. 6	38	522. 1	130. 2	98	579.3 580.3	144.7
58 59	348.3	86.8	19	406.5	101.3	79	464.7	115.9	39	522, 1 523, 0	130. 4	99	581.2	144. 9
60	349. 3	87.1	20	407.5	101. 6	80	465. 7	116. 1	40	524. 0	130. 6	600	582. 2	145.1
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						76° (1	04°, 256	°, 284°).					

Page 560]

TABLE 2.

Difference of Latitude and Departure for 15° (165°, 195°, 345°).

l							. [,	, ,			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1 2 3	1. 0 1. 9	0.3	61 62	58, 9 59, 9	15. 8 16. 0	121 22	116.9 117.8	31.3	181 82	174. 8 175. 8	46. 8 47. 1	241 42	232. 8 233. 8	62. 4 62. 6
3 4	2. 9 3. 9	0, S 1, 0	63 64	60. 9 61. 8	16.3 16.6	23 24	118.8 119.8	31, 8 32, 1	83 84	176. 8 177. 7	47. 4 47. 6	43 44	234. 7 235. 7	62. 9 63. 2
5	4.8	1.3	65	62.8	16.8	25	120.7	32, 4	85	178.7	47.9	45	236, 7	63.4
$\frac{6}{7}$	5, 8	1.6	66	63. 8 64. 7	17.1 17.3	26 27	121.7 122.7	32, 6 32, 9	86 87	179. 7 180. 6	48. 1 48. 4	46 47	237, 6 238, 6	63.7
8	6. 8 7. 7	$\frac{1.8}{2.1}$	67 68	65.7	17.6	28	123, 6	33.1	88	181.6	48.7	48	239. 5	63.9 64.2
9	8, 7	2.3	69	66, 6	17.9	29	124.6	33,4	89	182.6	48.9	49	240.5	64, 4
10	9.7	2.6	_70	67.6	18.1	30	125.6	33.6	90	183.5	49. 2	50	241.5	64.7
11	10.6 11.6	2. 8 3. 1	71 72	68. 6 69. 5	18.4 18.6	131 32	126.5 127.5	33. 9 34. 2	$\frac{191}{92}$	184. 5 185, 5	49.4	251 52	242. 4 243. 4	65, 0 65, 2
12 13	12.6	3, 4	72 73	70.5	18.9	33	128.5	34.4	93	186.4	50.0	53	244.4	65, 2 65, 5
14	13, 5	3, 6	74	71.5 72.4	19. 2 19. 4	34 35	129.4	34. 7 34. 9	94 95	187. 4 188. 4	50, 2 50, 5	54 55	245.3 246.3	65.7
15 16	$14.5 \\ 15.5$	3, 9 4, 1	75 76	73. 4	19.7	36	130. 4 131. 4	35, 2	96	189. 3	50. 7	56	247.3	66, 0 66, 3
17	16.4	4.4	76 77	74.4	19, 9	37	132.3	35, 5	97	190.3	51.0	57	248.2	66.5
18 19	17. 4 18. 4	4.7	78 79	75.3 76.3	20, 2 20, 4	38 39	133, 3 134, 3	35. 7 36. 0	98 99	191, 3 192, 2	51. 2 51. 5	58 59	249. 2 250. 2	66, 8
20	19.3	5. 2	80	77.3	20. 7	40	135, 2	36. 2	200	193, 2	51.8	60	251.1	67.3
21	20.3	5, 4	81	78. 2	21.0	141	136, 2	36. 5	201	194. 2	52, 0	261	252.1	67.6
22	21.3	5.7	82	79. 2 80. 2	21. 2 21. 5	42	137. 2	36.8	02	195, 1	52.3	62	253.1	67.8
23 24	22. 2 23. 2	6, 0 6, 2	83 84	81.1	21. 5	43 44	138, 1 139, 1	37.0 37.3	03	196, 1 197, 0	52. 5 52. 8	63 64	254. 0 255. 0	68. 1 68. 3
25	24. 1	6.5	85	82.1	92.0	45	140.1	37.5	05	198.0	53, 1	65	256.0	68.6
26	25. I	6.7	86	83.1	22. 3 22. 5	46	141.0	37.8	06	199.0	53, 3	66	256, 9	68, 8
27 28	26, 1 27, 0	7. 9	87 88	84. 0 85. 0	22.8	47 48	142. 0 143. 0	38. 0 38. 3	07	199, 9 200, 9	53, 6 53, 8	67 68	257, 9 258, 9	69. 1 69. 4
29	-28.0	7. 0 7. 2 7. 5	89	86.0	23.0	49	143.9	38. 6	-09	201.9	54.1	-69	259. 8	69.6
30	29.0	7.8	90	86.9	23.3	50	144.9	38.8	10	202, 8	51.4	70	260.8	69.9
31 32	29, 9 30, 9	8, 0	91 92	87. 9 88, 9	23, 6 23, 8	151 52	145. 9 146. 8	39. 1 39. 3	211 12	203. 8 204. 8	54. 6 54. 9	271 79	261. 8 262. 7	70. 1 70. 4
33	31.9	8.5	93	89, 8	24. 1	53	147.8	39. 6	13	205, 7	55.1	72 73	263. 7	70.7
34	32.8	8.8	94	90, 8	24.3	54	148.8	39. 9	14	206. 7	55.4	74	264. 7 265. 6	70.9 71.2
35 36	33, 8 34, 8	9.1	95 96	91. 8 92. 7	24.6 24.8	55 56	149. 7 150. 7	40, 1	15 16	207. 7 208. 6	55, 6 55, 9	75 76	266, 6	71.4
37	35.7	9, 6	97	93.7	25, 1	57	151.7	40, 6	17	209, 6	56, 2	77	267.6	71.7
38	36. 7 37. 7	9.8	98 99	94. 7 95, 6	25.4 25.6	58 59	152. 6 153. 6	$ 40.9 \\ 41.2 $	18 19	210.6 211.5	56. 4 56. 7	78 79	268.5 269.5	72.0 72.2
40	38, 6	10.4	100	96, 6	25, 9	60	154, 5	41.4	20	212.5	56, 9	80	270.5	72.5
41	39, 6	10.6	101	97.6	26. 1	161	155, 5	41.7	221	213.5	57. 2	281	271.4	72. 7 73. 0
42	40.6	10.9	02	98, 5 99, 5	26. 4 26. 7	62 63	156.5	41, 9 42, 2	22 23	214, 4 215, 4	57. 5 57. 7	82 83	272.4 273.4	73. 0 73. 2
43 44	41.5 42.5	11.1	03 04	100.5	26. 9	64	157, 4 158, 4	42.4	24	216, 4	58.0	84	274.3	73. 5
45	43, 5	11.6	0.5	101.4	27. 2	65	159, 4	42.7	25	217. 3	58, 2	85	275, 3	73, 8
46 47	44. 4 45. 4	11. 9 12. 2	06 07	102, 4 103, 4	27.4 27.7	66 67	160, 3 161, 3	43, 0 43, 2	26 27	218.3 219.3	58, 5 58, 8	86 87	276.3 277.2	74.0 74.3
48	46, 4	12.4	08	101.3	28.0	68	162.3	43.5	28	220.2	59. 0	88	278. 2	74.5
49	47.3	12.7	- 69	105.3	28.2	69	163, 2	43.7	29	221. 2	59.3	89	279.2	74.8
$\frac{50}{51}$	$\begin{bmatrix} 48, 3 \\ 49, 3 \end{bmatrix}$	$\frac{12.9}{13.2}$	$\frac{10}{111}$	106.3	28.5 28.7	$\frac{70}{171}$	$\begin{bmatrix} 164.2 \\ 165.2 \end{bmatrix}$	44.0	231	222, 2	59, 5 59, 8	$\frac{90}{291}$	$\frac{280.1}{281.1}$	75.1
51 52	50. 2	13. 5	111	108, 2	29, 0	72	166. I	44.5	32	224.1	60.0	92	282. 1	75.6
-53	51.2	13. 7	13	109, 1	29, 2	73	167.1	44.8	- 33	225. I	60.3	93	283, 0	75.8
54 55	52. 2 53, 1	14. 0 14. 2	11	110.1	29. 5 29. 8	74 75	168, 1 169, 0	45. 0 45. 3	34 35	226. 0 227. 0	60, 6	94 95	284.0 284.9	76. 1 76. 4
- 56	54, 4	14.5	16	112. 0 113. 0	30, 0	76	170.0	45.6	36	228, 0	61. 1	96	285.9	76, 6
57	55. 1	14.8	17	113, 0	30.3	77	171.0	45, 8	37	228.9	61.3	97	286. 9 287. 8	76. 9
58 59	56. 0 57. 0	$+\frac{15.0}{15.3}$	18 19	114.0	30, 5	78 79	171.9 172.9	46, 1	38 39	229, 9 230, 9	61, 6	98 99	287.8	77. 1 77. 4
60	58, 0	15, 5	20	115, 9	31.1	80	173. 9	46, 6	40	231.8	62. 1	300	289, 8	77.6
Dist.	Dep.	Lat	- Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						75° (105°, 25	5°, 285	٥).					

TABLE 2.

[Page 561

Difference of Latitude and Departure for 15° (165°, 195°, 345°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	900.7	77.9	361	348. 7	93, 4	421	406, 6	109.0	481	464. 6	124. 5	541	522, 6	140, 0
02	290. 7 291. 7	78. 2	62	349.6	93. 7	22	407.6	109.2	82	465, 6	124.8	42	523. 5	140. 3
03	292. 7	78.4	63	350, 6	94.0	23	408.6	109.5	83	466. 5	125.0	43	524.5	140.5
0.5	293.6	78.7	64	351.6	94.2	24	409.5	109.7	84	467.5	125.3	44	525. 5	140.8
05	294. 6	78.9	65	352.5	94.5	25	410, 5	110.0	85	468. 5	125, 6	45	526. 4	141. 1
06	295. 6	79. 2	66	353. 5	94.7	26	411.5	110.3	86	469, 4	125. 8	46	527. 4	141.4
07	296.5	79.5	67	354.5	95.0	27	412.4	110.5	87	470.4	126. 1	47	528, 4	141, 6
08	297.5	79. 7	68	355. 4	95.3	28	413.4	110.8	88	471.4	126, 4	48	529.3	141.9
09	298. 4	80.0	69	356. 4	95. 5	29	414.4	111.0	89	472.3	126. 6	49	530. 3	142. 1
10	299. 4	80. 2	70	357.4	95. 8	30	415.3	111.3	90	473.3	126.9	50	531. 3	142. 4
311	300. 4	80.5	371	358, 3	96.0	431	416.3	111.6	491	474.3	127. 1	551	532. 2	142.6
12	301. 3	80.8	011	359, 3	96.3	32	417.3	111.8	92	475. 2	127. 4	52	533. 2	142. 9
13	302.3	81.0	72 73	360.3	96.5	33	418.2	112.1	93	476. 2	127. 6	53	534. 2	143. 1
14			74					112. 3	94	177 9				
15	303. 3 304. 2	81.3		361. 2 362. 2	96.8	34 35	419. 2 420. 2	112. 6	95	477. 2	127. 9	54	535. 1	143.4
	304.2	81.5	75	302.2	97.1					478.1	128.1	55	536.1	143.7
16 17	305, 2 306, 2	81.8	76 77	363. 2	97.3 97.6	36	421. 1 422. 1	112.9 113.1	96 97	479.1	128.4	56 57	537.1	143. 9
	307.1	82. 1 82. 3	78	364. 1	97.8	37	422. 1	113. 4		480.1	128.6		538.0	144.2
18				365. 1		38			98	481.0	128.9	58	539.0	144.4
19	308. 1	82.6	79	366. 1	98.1	39	424.0	113.6	99	482.0	129.1	59	540.0	144.7
20	309.1	82.8	80	367.0	98.4	40	425, 0	113. 9	500	483.0	129.4	60	540, 9	144.9
321	310.0	83. 1	381	368, 0	98, 6	441	426.0	114.1	501	483. 9	129.7	561	541.9	145. 2
22	311.0	83.3	82	369.0	98.9	42	426. 9	114.4	02	484.9	129.9	62	542. 9	145, 4
23	312.0	83.6	83	369, 9	99. 1	43	427, 9	114.7	03	485. 9	130. 2	63	543.8	145.7
24	312.9	83, 9	84	370.9	99, 4	44	428, 8	114.9	04	486.8	130, 4	64	544.8	146.0
25	313.9	84.1	85	371.9	99.6	45	429.8	115.2	05	487.8	130.7	65	545.8	146. 2
26	314.9	84.4	86	372.8	99. 9	46	430.8	115.4	06	488.8	131.0	66	546. 7	146.5
27	315.8	84.6	87	373.8	100, 2	47	431.7	115.7	07	489.7	131, 2	67	547.7	146, 7
28	316.8	84.9	88	374.8	100.4	48	432.7	116.0	08	490.7	131.5	68	548. 7	147.0
29	317.8	85.1	89	375.7	100.7	49	433. 7	116.2	-09	491.7	131. 7	69	549.6	147.2
30	318. 7	85.4	90	376.7	100, 9	_50	434.6	116. 5	10	492.6	132.0	70	550, 6	147.5
331	319.7	85.7	391	377. 7	101, 2	451	435. 6	116.7	511	493. 6	132.3	571	551.6	147.8
32	320, 7	85, 9	92	378.6	101.5	52	436. 6	117.0	12	494.5	132, 5	72	552. 5	148.0
33	321.6	86, 2	93	379.6	101.7	53	437.5	117.3	13	495. 5	132.8	73	553. 5	148.3
34	322, 6	86.5	94	380.6	102.0	54	438.5	117.5	14	496, 5	133.0	74	554.4	148.5
35	323.6	86.7	95	381.5	102.2	55	439.5	117.8	15	497.4	133, 3	75	555, 4	148.8
36	324.5	87.0	96	382.5	102.5	56	440.4	118.0	16	498.4	133.5	76	556.4	149.0
37	325.5	87. 2 87. 5	97	383.4	102.8	57	441.4	118.3	17	499.4	133.8	77	557.3	149.3
38	326, 5	87.5	98	384. 4	103.0	58	442.4	118.5	18	500.3	134.0	78	558.3	149.5
39	327.4	57.7	- 99	385, 4	103.3	59	443.3	118.8	19	501.3	134.3	79	559, 3	149.8
40	328.4	88, 0	400	386.3	103.5	60	444.3	119.1	20	502.3	134.6	80	560. 2	150.1
341	329, 4	88.3	401	387.3	103, 8	461	445.3	119.3	521	503. 2	134.8	581	561.2	150.3
42	330.3	88, 5	02	388, 3	104.1	62	446.2	119.6	22	504.2	135.1	82	562. 2	150, 6
43	331.3	88, 8	-03	389. 2	104.3	63	447.2	119.8	23	505. 2	135.3	83	563.1	150.8
44	332, 3	89, 0	04	390. 2	104.6	64	448.2	120.1	24	506.1	135.6	84	564.1	151.1
45	333.2	89, 3	05	391.2	104.8	65	449.1	120.4	25	507.1	135.9	85	565.1	151.4
46	334.2	89.6	-06	392. 1	105.1	-66	450. 1	120.6	26	508.1	136.1	86	566.0	151.6
47	335, 2	89, 8	07	393.1	105, 3	67	451.1	120.9	27	509. 0	136.4	87	567.0	151.9
48	336.1	90, 1	-08	394.1	105.6	68	452.0	121.1	28	510.0	136.6	88	568. 0	152, 2
49	337.1	90.3	-09	395.0	105. 9	69	453.0	121.4	29	511.0	136. 9	89	568.9	152.4
50	338.1	90, 6	10	396.0	106.1	70	454.0	121.7	30	511.9	137.2	90	569, 9	152, 7
351	339, 0	90, 9	411	397.0	106.4	471	454.9	121.9	531	512.9	137.4	591	570.9	153.0
52	340.0	91, 1	12	397. 9	106, 6	72	455, 9	122, 2	32	513.9	137.7	92	571.8	153. 2
53	340.9	91.4	13	398, 9	106. 9	73	456, 9	122.4	33	514.8	137. 9	93	572.8	153.5
54	341.9	91.6	14	399, 9	107. 2	74	457. 8	122.7	34	515. 8	138, 2	94	573.8	153. 7
55	342.9	91.9	15	400.8	107.4	75	458.8	122, 9	35	516.8	138. 4	95	574.7	154.0
56	343.8	92. 1	16	401.8	107.7	76	459.8	123, 2	36	517.7	138, 7	96	575. 7	154. 2
57	344.8	92.4	17		107.9	77	460, 7	123, 5	37	518.7	139, 0	97	576.7	154, 5
58	345. 8	92.7	18		108.2	78	461.7	123, 7	38	519.7	139. 2	98	577.6	154, 8
59	346, 7	92, 9	19	404.7	108.5	79	462.7	124.0	39	520, 6	139.5	99	578.6	155, 0
60	347.7	93.2	20	405.7	108, 7	80	463.6	124. 2	40	521, 6	139, 7	600	579.5	155, 3
Dist.	Dep.	Lac	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	-									F-			~ · F ·	
						770 /7:		0.000						- 1

75° (105°, 255°, 285°).

TABLE 2.

Difference of Latitude and Departure for 16° (164°, 196°, 344°).

- I			I									/'.		1
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0, 3	61	58, 6	16.8	121	116.3	33.4	181	174.0	49.9	241	231. 7	66, 4
2	1. 9	0.6	62	59, 6	17.1	22	117.3	33. 6	82	174.9	50, 2	42	232.6	66.7
3	2.9	0, 8	-63	60.6	17.4	23	118.2	33.9	83	175. 9	50.4	43	233, 6	67.0
4	3, 8	1.1	64	61.5	17. 6	24	119.2	34. 2	84	176. 9	50.7	44	234.5	67.3
5	4.8	1.4	65	62. 5	17. 9	25	120. 2	34. 5	85	177.8	51.0	45	235, 5	67. 5
6	5.8	1.7	66	63, 4	18. 2	26	121. 1	34. 7	86	178.8	51.3	46	236, 5	67.8
7	6. 7	1.9	67	64. 4	18.5	27 28	122.1	35, 0	87	179.8	51.5	47	237.4	68.1
8 9	7. 7	2. 2 2. 5	68	65. 4	18.7	28	123.0	35. 3	88	180.7	51.8	48	238. 4	68, 4
10	8, 7 9, 6	2. 8	69	66.3	19, 0	30	124.0	35.6	89 90	181.7	52.1	49	239, 4	68.6
			70	67.3	19, 3		125.0	35.8		182, 6	52.4	50	240.3	68, 9
11	10. 6	3.0	71	68. 2	19.6	131	125. 9	36. 1	191	183, 6	52. 6	251	241.3	69, 2
12	11.5	3, 3	72	69. 2	19. 8 20. 1	32	126. 9	36.4	92	184.6	52.9	52	242. 2	69. 5
13 14	12. 5 13. 5	3.6	73 74	70. 2 71. 1	20. 1	33	127. 8 128. 8	36.7	93	185, 5	53. 2	53	243, 2 244, 2	69.7
15	13. 5	4.1	75	72.1	20. 4	34 35	128.8	36. 9	94 95	186.5	53.5	54 55		70.0
16	15, 4	4.1	76	73. 1	20. 7	36	130. 7	37. 2 37. 5	96	187. 4 188. 4	53. 7 54. 0	56	245. 1 246. 1	70.3
17	16, 3	4.7	77	74. 0	21. 2	37	131. 7	37. S	97	189, 4	54. 3	57	247. 0	70. 6 70. 8
18	17.3	5.0	78	75. 0	21.5	38	132.7	. 38. 0	98	190, 3	54.6	55	248. 0	71.1
19	18.3	5, 2	79	75, 9	21.8	39	133. 6	38, 3	99	191. 3	54.9	59	249. 0	71.4
20	19, 2	5, 5	80	76. 9	22. 1	40	134. 6	38, 6	200	192.3	55.1	60	249, 9	71. 7
	$=\frac{10.2}{20.2}$	5, 8	81	77. 9	22. 3	141	135, 5	38, 9	201	193. 2	55, 4	261	250. 9	71.9
21 22	21. 1	6, 1	82	78.8	22, 6	42	136, 5	39. 1	02	194. 2	55, 7	62	251. 9	72. 2
23	22. 1	6.3	83	79.8	22. 9	43	137.5	39. 4	03	195. 1	56. 0	63	252.8	72.5
24	23, 1	6, 6	84	80. 7	23. 2	44	138. 4	39. 7	04	196. 1	56. 2	64	253. 8	72.8
25	24, 0	6, 9	85	81. 7	23. 4	45	139, 4	-10, 0	05	197. 1	56, 5	65	254. 7	73. 0
26	25, 0	7. 2	86	82.7	23. 7	46	140, 3	40. 2	06	198, 0	56, 8	66	255. 7	73.3
27	26. 0	7.4	87	83, 6	24. 0	47	141. 3	10.5	07	199. 0	57.1	67	256. 7	73.6
28	26, 9	7.7	88	84.6	24. 3	48	142.3	40.8	08	199. 9	57. 8	68	257. 6	73. 9
29	27. 9	8, 0	89	85, 6	24, 5	49	143. 2	41.1	09	200.9	57.6	69	258, 6	74.1
30	28.8	8.3	-90	86, 5	24, 8	50	144. 2	41.3	10	201.9	57. 9	70	259, 5	74.4
31	29.8	8.5	91	87.5	25, 1	151	145, 2	41.6	211	202. 8	58, 2	271	260, 5	74.7
32	30, 8	8.8	92	88, 4	25, 4	52	146, 1	41.9	12	203.8	58, 4	72	261.5	75.0
33	31.7	9.1	-93	89, 4	25, 6	53	147.1	42. 2	13	204.7	58.7	72 73	262.4	75, 2
34	32. 7	9.4	94	90.4	25. 9	54	148.0	42.4	14	205. 7	59.0	74	263.4	75.5
35	33. 6	9, 6	95	91.3	26. 2	55	149.0	42.7	15	206.7	59.3	75	264.3	75.8
36	34.6	9, 9	96	92.3	26, 5	- 56	150.0	43.0	16	207. 6	59, 5	76	265.3	76. 1
37	35, 6	10. 2	97	93, 2	26. 7	57	150.9	43.3	17	208.6	59. S	77	266, 3	76.4
38	36, 5	10.5	98	94, 2	27.0	58	151.9	43.6	18	209.6	60. 1	78	267. 2	76.6
39	37. 5	10. 7	- 99	95, 2	27.3	59	152. 8	43.8	19	210.5	60. 4	79	268. 2	76. 9
40	_38, 5	11.0	100	96.1	27.6	60	153.8	44.1	20	211. 5	60, 6	80	269. 2	77. 2
41	39. 4	11.3	101	97. 1	27.8	161	154, 8	44. 4	221	212.4	60. 9	281	270.1	77.5
42	40. 4	11.6	02	98, 0	28.1	62	155. 7	44.7	22	213, 4	61. 2	82	271.1	77. 7
43	41.3	11.9	-03	99.0	28.4	63	156, 7	44. 9	23	214. 4	61.5	83	272.0	78.0
44	42.3	12.1	04	100.0	28.7	64	157, 6	45. 2	24	215.3	61.7	84	273. 0	78.3
45	43. 3	12.4	05	100, 9	28, 9	65	158, 6	45.5	25 26	216.3	62.0	85	274. 0 274. 9	78.6
46	44. 2	12.7	06	101.9	29. 2	66	159, 6	45.8		217. 2 218. 2	62.3	86		78.8
47	$\frac{45.2}{46.1}$	13.0	07	102.9	29.5	67 68	160. 5	46. 0 46. 3	27 28	219. 2	62. 6 62. 8	87 88	275. 9 276. 8	79.4
48 49	40. 1	13. 2 13. 5	08 - 09	103. 8 104. 8	29. 8 30. 0	69	161. 5 162. 5	46.6	28	220. 1	63. 1	89	277.8	79.7
50	$\frac{47.1}{48.1}$	13. 8	10	105. 7	30. 3	70	163, 4	46. 9	30	221.1	63. 4	90	278.8	79.9
						171			231	222.1	63. 7	291	279. 7	80. 2
51 52	49, 0 50, 0	14. 1 14. 3	111 12	106. 7 107. 7	30. 6 30. 9	72	164, 4 165, 3	47. 1 47. 4	32	223. 0	63, 9	92	280. 7	80. 5
53	50, 0	14. 6	13	108.6	31. 1	73	166. 3	47.7	33	224. 0	64. 2	93	281.6	80.8
54	51. 9	14. 9	14	109. 6	31.4	74	167.3	48.0	34	224. 9	64. 5	94	282.6	81.0
55	52. 9	15, 2	15	110, 5	31. 7	75	168, 2	48. 2	35	225, 9	64.8	95	283. 6	81.3
56	53, S	15, 4	16	111, 5	32.0	76	169. 2	48.5	36	226. 9	65. 1	96	284.5	84.6
57	54. 8	15. 7	17	112.5	32. 2	77	170. 1	48, 8	37	227. 8	65, 3	97	285, 5	81.9
58	55, 8	16, 0	18	113. 4	32. 5	78	171.1	49, 1	38	228.8	65, 6	98	286, 5	82.1
59	56, 7	16.3	19	114. 1	32. 8	79	172, 1	49.3	39	229.7	65, 9	99	287.4	82.4
60	57. 7	16.5	20	115. 4	33, 1	80	172. 1 173. 0	49, 6	40	230. 7	66, 2	300	288, 4	82.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
				2.1					-			-	- :	

74° (106°, 254°, 286°).

Difference of Latitude and Departure for 16° (164°, 196°, 344°).

_							2.				. , , , , , ,			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	289.3	82.9	361	347. 0	99.5	421	404.7	116, 0	481	462.4	132.5	541	520. 1	149. 1
02	290.3	83. 2	62	348.0	99.7	22	405.6	116.3	82	463. 3	132. 8	42	521.0	149. 4
03	291.2	83.5	63	348, 9	100.0		406, 6	116, 6		464.3	133. 1	43	522.0	149.7
04	292, 2	83.8	64	349, 9	100, 3		407.6	116.8		465. 2	133. 4	44	523.0	150.0
05	293, 2	84. 0	65	350, 8	100.6		408.5	117. 1	85	466, 2	133.6	45	523.9	150. 2
- 06	294.1	84.3	- 66	351.8	100.8	26	409.5	117.4	86	467.2	133.9	46	524.9	150.4
07	295.1	84.6	67	352.8	101.1	27	410.4	117.7	87	468.1	134.2	47	525.9	150.7
08	296, 0	84. 9	68	353.7	101.4	28	411.4	117.9		469.1	134.5	48	526, 8	151.0
09	297.0	85. 1	69	354.7	101.7	29	412.4	118.2	89	470.1	134. 8	49	527.8	151.3
10	298.0	85, 4	_ 70_	355. 6	101.9	30	413.3	118, 5	90	471.0	135.0	_ 50	528.7	151, 6
311	298.9	85.7	371	356. 6	102. 2	431	414.3	118, 8	491	472.0	135. 3	551	529.7	151.9
12	299. 9	86.0	72 73	357.6	102.5	32	415, 2	119.0	92	472.9	135. 6	52	530, 6	152.2
13	300.9	86.2	73	358.5	102.8	33	416. 2	119.3	93	473.9	135, 9	53	531.6	152, 5
14	301.8	86, 5	74	359.5	103. I	34	417.2	119.6	94	474.9	136. 2	54	532.6	152.8
15	302.8	86, 8	75	360. 4	103.3	35	418.1	119.9	95	475.8	136. 4	55	533.5	153, 0
16	303.7	87.1	76	361.4 362.4	103, 6	36	$419.1 \\ 420.0$	120. 1 120. 4	96	476. 8 477. 7	136.7	56	534.5	153. 2
17 18	305.7	87.3	77 78	363, 3	103, 9 104, 2	37 38	421.0	120. 4	97 98	478.7	137. 0	57	535.4	153.5
19	306.6	87. 6 87. 9	79	364, 3	104. 2	39	422.0	121.0	99	479.7	137.3 137.5	58 59	536, 4 537, 4	153, 8 154, 1
20	307.6	88. 2	80	365.3	104. 7	40	422.9	121. 2	500	480.6	137. 8	60	538.3	154.4
321	308.5	88.4	381	366. 2	105, 0	441	423. 9	121.5	501	481.6	138. 1	561	539, 3	154.7
22	309.5	88.7	82	367.2	105. 3	42	424, 9	121.8	02	482.6	138. 3	62	540.3	154.9
23	310.5	89.0	83	368.1	105.5	43	425.8	122. 1	03	483.5	138. 6	63	541.2	155, 2
24	311.4	89.3	84	369.1	105.8	44	426. 8	122. 3	04	484.5	138. 9	64	542, 2	155. 4
24 25	312.4	89.5	85	370.1	106.1	45	427.7	122.6	05	485. 4	139. 2	65	543. 1	155. 7
26	313.3	89.8	86	371.0	106.4	46	428.7	122.9	06	486, 4	139. 4	66	544.1	156.0
27 28	314, 3	90.1	87	372.0	106.6	47	429.7	123. 2	07	487.3	139.7	67	545, 1	156.3
28	315.3	90.4	- 88	372.9	106.9	48	430.6	123.4	08	488.3	140.0	68	546.0	156.6
29	316.2	90.6	89	373.9	107. 2	49	431.6	123.7	-09	489.3	140.3	-69	547.0	156, 9
30	317.2	90.9	90	374.9	107.5	50	432.6	124.0	10	490, 2	140.6	_ 70	547. 9	157. 1
331	318.2	91.2	391	375, 8	107. 7	451	433.5	124.3	511	491.2	140.8	571	548.9	157. 3
32	319. 1	91.5	92	376.8	108.0	52	434.5	124.6	12	492.1	141.1	72	549.8	157. 6
33	320. 1	91.8	93	377. S	108.3	53	435. 4	124.8	13	493. 1	141.4	73	550.8	157. 9
34	321.0	92.0	94	378. 7	108.6	54	436. 4	125. 1	14	494.1	141.7	74	551.8	158. 2
35 36	322.0 323.0	92.3 92.6	95	379. 7	108.8	55	437.4	125. 4	15	495.0	141.9	75	552.7	158.4
37	323. 9	92. 6	96 97	380. 6 381. 6	109. 1 109. 4	56 57	438.3 439.3	125, 7 $125, 9$	16 17	496.0	142.2	76	553.7	158.7
38	324. 9	93.1	98	382.6	109. 7	58	440.2	126.9 126.2	18	496. 9 497. 9	142.5 142.8	77 78	554. 6 555. 6	159.0
39	325. 8	93.4	99	383.5	109.9	59	441. 2	126.5	19	498.9	143.0	79	556.5	159.3 159.5
40	326. 8	93.7	400	384.5	110. 2	60	442, 2	126.8	20	499.8	143.3	80	557.5	159.8
341	327. 8	94.0	401	385. 4	110.5	461	443.1	127.0	521	500.8	143.6	581	558. 4	160. 1
42	328. 7	94.2	02	386.4	110.8	62	444.1	127. 3	22	501.7	143. 9	82	559.4	160. 1
43	329. 7	94.5	03	387.4	111.0	63	445. 0	127.6	23	502. 7	144.1	83	560. 4	160. 4
44	330. 7	94.8	04	388.3	111.3	64	446.0	127. 9	24	503. 7	144.4	84	561.3	161.0
45	331.6	95.1	-05	389.3	111.6	65	447.0	128, 1	25	504.6	144.7	85	562.3	161.3
46	332.6	95.3	-06	390.2	111.9	66	447.9	128, 4	26	505.6	145.0	86	563.2	161.6
47	333. 5	95.6	07	391.2	112.1	67	448.9	128, 7	27	506.6	145.3	87	564.2	161.8
48	334.5	95. 9	08	392.2	112.4	68	449.8	129.0	28	507. 5	145.6	88	565.2	162.1
49	335.5	96. 2	09	393.1	112.7	69	450, 8	129. 2	29	508.5	145.8	89	566.1	162.4
50	336.4	96. 4	10	394.1	113.0	70	451.8	129.5	30	509, 4	146.1	90	567.1	162.7
351	337.4	96.7	411	395.1	113.3	471	452. 7	129.8	531	510.4	146. 4	591	568.1	162.9
52	338.3	97. 0	12	396.0	113.5	72	453.7	130. 1	32	511.4	146. 7	92	569.0	163. 2
53 54	339.3 340.3	97.3 97.5	13 14	397. 0 397. 9	113, 8	73	454.7 455.6	130.3	33	512.3 513.3	146.9	93	570.0	163, 5
55	341.2	$\frac{97.5}{97.8}$	15	398, 9	114. 1 114. 4	74 75	456.6	130. 6 130. 9	34 35	514.3	147.2 147.5	94 95	571.0 571.9	163.8
56	342.2	98.1	16	399. 9	114.4	76	457.5	131. 2	36	515.2	147. 8	96	572.9	164. 0 164. 3
57	343. 1	98.4	17	400.8	114.9	77	458.5	131. 4	37	516.2	148. 0	97	573.9	164. 6
58	344.1	98.6	18	401.8	115, 2	78	459.5	131.7	38	517. 2	148, 2	98	574.8	164. 9
59	345.1	98. 9	19	402.7	115.5	79	460.4	132.0	39	518.1	148, 5	99	575.8	165. 1
60	346.0	99. 2	20	403.7	115.8	80	461.4	132.3	40	519.1	148.8	600	576.8	165. 4
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Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
								!			1			

TABLE 2.

Difference of Latitude and Departure for 17° (163°, 197°, 343°).

	Difference of Landade and Peparture for 17 (105, 177, 545).													
Dist.	Lat.	Dep.	Dist,	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0.3	61	58.3	17.8	121	115. 7	35, 4	181	173.1	52.9	241	230. 5	70.5
2	1.9	0.6	62	59.3	18.1	22	116.7	35.7	82	174.0	53, 2	42	231.4	70.8
3	2.9	0.9	63	60.2	18.4	23	117.6	36.0	83	175.0	53, 5	43	232.4	71.0
4	3.8	1.2	64	61.2	18.7	24	118.6	36, 3	84	176.0	53.8	44	233. 3	71.3
5	4. 8 5. 7	1, 5	65	62. 2	19.0	25 26	119.5	36.5	85	176.9	54.1	45	234.3	71.6
6 7	5. 7 6. 7	$\frac{1.8}{2.0}$	66 67	63. 1 64. 1	19.3 19.6	26 27	120.5 121.5	36.8	86 87	177.9 178.8	54.4	46 47	235.3 236.2	$71.9 \\ 72.2$
8	7.7	2.0	68	65. 0	19, 9	28	122. 4	37.1 37.4	88	179.8	54.7 55.0	48	237. 2	72.5
9	8.6	2.6	69	66.0	20, 2	29	123. 4	37.7	89	180.7	55.3	49	238. 1	72.8
10	9.6	2. 9	70	66. 9	20, 5	30	124.3	38, 0	90	181.7	55.6	50	239. 1	72. 8 73. 1
11	10.5	3.2	71	67. 9	20.8	131	125.3	38, 3	191	182.7	55.8	251	240.0	73. 4
12	11.5	3.5	72 73	68. 9	21.1	32	126, 2	38, 6	92	183.6	56.1	52	241.0	73.7
13	12.4	3.8	73	69.8	21.3	- 33	127. 2	38, 9	93	184.6	56, 4	53	241.9	74.0
14	13. 4	4.1	74	70.8	21.6	34	128.1	39. 2	94	185.5	56.7	54	242.9	74.3
15	14.3	4.4	75	71.7	21.9	35	129. 1	39.5	95	186.5	57.0	55	243.9	74.6
16 17	15.3	4. 7 5. 0	76 77	72. 7 73. 6	$22.2 \\ 22.5$	36 37	130. 1 131. 0	39. 8 40. 1	96 97	187.4 188.4	57.3	56 57	244. 8 245. 8	74. 8 75. 1
18	16.3 17.2	5.3	78	74.6	22. 8	38	132.0	40. 1	98	189.3	57.6 57.9	58	246.7	75.4
19	18. 2	5, 6	79	75.5	23. 1	39	132.9	40.6	99	190.3	58. 2	59	247.7	75.7
20	19. 1	5, 8	80	76.5	23, 4	40	133. 9	40, 9	200	191.3	58, 5	60	248.6	76.0
21	20.1	6, 1	81	77.5	23. 7	141	134.8	41.2	201	192. 2	58, 8	261	249.6	76.3
22 23	21.0	6, 4	82	78.4	24, 0	42	135.8	41.5	02	193. 2	59.1	62	250.6	76.6
23	22.0	6.7	83	79.4	24.3	43	136.8	41.8	03	194.1	59.4	63	251.5	76.9
24	23.0	7. 0 7. 3 7. 6	84	80.3	24.6	44	137. 7	42.1	04	195.1	59, 6	64	252. 5 253. 4	77. 2 77. 5
25	23. 9	7.3	85	81.3	24. 9	45	138.7	42.4	05	196, 0	59.9	65	253.4	77.5
26 27	24. 9 25. 8	7.9	86 87	82. 2 83. 2	25, 1 25, 4	46 47	139.6 140.6	42.7 43.0	06 07	197, 0 198, 0	60.2	66 67	254. 4 255. 3	77. 8 78, 1
28	26.8	8.2	88	84. 2	25.7	48	141, 5	43, 3	08	198, 9	60, 8	68	256.3	78.4
29	27. 7	8.5	89	85. 1	26, 0	49	142.5	43.6	09	199.9	61. 1	69	257. 2	78.6
30	28.7	8.8	90	86.1	26, 3	50	143. 4	43.9	10	200, 8	61.4	70	258, 2	78.9
31	29, 6	9.1	91	87.0	26, 6	151	144.4	44.1	211	201. 8	61.7	271	259, 2	79. 2 79. 5
- 32	30, 6	9.4	92	88.0	26, 9 27, 2 27, 5	52	145, 4	44.4	12 13	202.7	62.0	72 73	260.1	79.5
33	31.6	9, 6	93	88, 9	27. 2	53	146.3	44.7		203. 7	62.3	73	261. 1	79.8
34	32.5	9.9	94	89. 9	27.5	54	147.3	45.0	14	204. 6	62.6	74	262. 0	80.1
35 36	33, 5 34, 4	10.2 10.5	95 96	90. 8 91. 8	27, 8 28, 1	55 56	148, 2 149, 2	45, 3 45, 6	15 16	205, 6 206, 6	62. 9 63. 2	75 76	263. 0 263. 9	80, 4
37	35. 4	10.8	97	92.8	28. 4	57	150. 1	45. 9	17	207. 5	63, 4	1 77	264. 9	81.0
38	36, 3	11, 1	98	93.7	28. 7	58	151. 1	46. 2	18	208.5	63. 7	76 77 78	265, 9	81.3
39	37.3	11.4	99	94.7	28, 9	59	152.1	46.5	19	209.4	64.0	79	266. 8	81.6
40	38, 3	11.7	100	95, 6	29, 2	60	153, 0	46, 8	20	210.4	64.3	80	267.8	81.9
-41	39, 2	12.0	101	96, 6	29.5	161	154.0	47.1	221	211.3	64. 6	281	268. 7	82, 2
42	40.2	12.3	02	97.5	29, 8	62	154. 9	47.4	22 23	212.3	64. 9	82	269. 7	82, 4
43	41.1	12.6	03	98, 5	30, 1	63	155.9	47.7	23	213.3	65. 2	83	270.6	82.7
44 45	42. 1 43. 0	12.9 13.2	04 05	99, 5 100, 4	30. 4 30. 7	64 65	156, 8 157, 8	47. 9 48. 2	24 25	214. 2 215. 2	65, 5 65, 8	84 85	271, 6 272, 5	83. 0
46	44, 0	13, 4	06	100, 4	31.0	66	158.7	48, 5	26	216. 1	66, 1	86	273.5	83, 6
40	44. 9	13. 7	07	102.3	31, 3	67	159. 7	48.8	27	217. 1	66, 4	87	274.5	83, 9
48	45. 9	14. 0	08	103, 3	31.6	68	160, 7	49.1	28	218.0	66. 7	88	275.4	84. 2
49	46. 9	14.3	- 09	104.2	31.9	-69	161, 6	49.4	29	219.0	67.0	- 89	276.4	84.5
50	47.8	14.6	10	105, 2	32, 2	70	162.6	49, 7	30	220.0	67.2	_90	277.3	84, 8
51	48. 8	14. 9	111	106, 1	32.5	171	163, 5	50, 0	23 E	220, 9	67.5	291	278.3	85, 1
52	49.7	15.2	12	107.1	32.7	72 73	164.5	50, 3	32	221.9	67. 8	92	279, 2	85, 4
53 54	50.7 51.6	15, 5 15, 8	13 14	108, 1	33, 0	74 74	165, 4 166, 4	50, 6 50, 9	33 34	222. 8 223. 8	68. 1 68. 4	93 94	280, 2 281, 2	85, 7
55	52, 6	16, 1	15	110, 0	33, 6	75	167.4	51.2	35	224. 7	68. 7	95	282. 1	86, 2
56	53, 6	16, 4	16	110, 9	33.9	76	168.3	51.5	36	225. 7	69, 0	96	283, 1	86.5
57	54, 5	16, 7	17	. 111.9	34. 2	76 77	169. 3	51.7	37	226, 6	69, 3	97	284. 0	86, 8
58	55, 5	17.0	18	112.8	34, 5	78	170.2	52, 0	38	227.6	69, 6	-98	285, 0	87.1
59	56. 1	17. 2 17. 5	19	113, 8	34.8	79	171.2	52, 3	39	228.6	69, 9	99	285. 9	87.4
60	57.4	11.5	20	114.8	35, 1	80	172. 1	52, 6	40	229, 5	70, 2	300	286, 9	87. 7
Dist.	There	Lat.	1,5.1	Thur.	Lat.	Dist.	Dep.	Let.	Dist.	Drp.	Lat.	Dist.	Dep.	Lat.
IFINI.	Dep.	Lat.	Dist.	Dep.	LALL.	Dist.	Dieb:	D'U.	Dist.	10.16	Latt.	Luce.	Dep.	Late,

73° (107°, 253°, 287°).

TABLE 2.

[Page 565

Difference of Latitude and Departure for 17° (163°, 197°, 343°).

										(,	, ,	. ,.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.
301	287. 8	88.0	361	345, 2	105, 5	421	402.6	123, 1	481	460, 0	140, 6	541	517.3	158, 2
02	288.8	88.3	62	346. 1	105. 8	22	403. 5	123. 4		460. 9	140. 9		518.3	158. 5
03	289.7	88.6	63	347. 1	106. 1	23	404.5	123. 7	83	461.9	141. 2	43	519.2	158, 8
04	290. 7	88.9	64	348. 1	106. 4	24	405. 4	124.0		462.8	141.5		520. 2	159.1
05	291.6	89. 2	65	349, 0	106. 7	25	406.4	124. 3		463, 8	141. 8		521. 2	159.3
-06	292.6	89.5	66	350, 0	107. 0		407.3	124. 6		464. 7	142. 1	46	522.1	159, 6
07	293.5	89.8	67	350, 9	107. 3	27	408.3	124. 8		465. 7	142. 3		523. 1	159.9
08	294.5	90.1	68	351. 9	107. 6	$\bar{28}$	409.3	125. 1	88	466. 7	142.6	48	524. 0	160.2
09	295. 5	90.3	69	352. 8	107. 9	29	410.2	125. 4	89	467.6	142.9	49	525. 0	160, 5
10	296.4	90.6	70	353, 8	108.2	30	411.2	125.7	90	468, 6	143. 2	50	526. 0	160.8
311	297. 4	90.9	371	354. 8	108.5	431		126, 0		469, 5	143. 5	551	526, 9	161.1
12	298.3	91, 2	72	355, 7	108.8	32	412. 1 413. 1	126.3		470.5	143, 8	52	527, 9	161. 4
13	299.3	91.5	75	356, 7	109, 1	33	414.0	126.6		471.4	144. 1	53	528.8	161.7
14	300. 2	91.8	74	357.6	109, 4	34	115.0	126. 9		472.4	144.4	54	529, 8	162.0
15	301.2	92. 1	75	358, 6	109, 6	35	416.0	127. 2	95	473.4	144. 7	55	530. 8	162.3
16	302.2	92. 4	76	359, 5	109.9	36	416.9	127.5	96	474.3	145, 0		531.7	162.6
17	303. 1	92.7	77	360, 5	110.2	37	417.9	127.8	97	475.3	145, 3	57	532, 7	162.9
18	304.1	93. 0	78	361.4	110.5	38	418.8	128. 1	98	476. 2	145. 6	58	533, 6	163. 2
19	305.0	93.3	79	362.4	110.8	39	419, 8	128, 4	99	477.2	145. 9	59	534.6	163. 5
20	306, 0	93, 6	80	363. 4	111.1	40	420.7	128, 6	500	478, 1	146. 2	60	535, 5	163.8
321	306, 9	93, 9	381	364. 3	111.4	441	421.7	128.9	501	479.1	146. 5	561	536, 5	164. 1
22	307.9	94. 1	82 82	365. 3	111.7	42	422. 7	129, 2	02	480.1	146.8	62	537.5	164. 4
93	308, 8	94.4	83	366. 2	112.0	43	423.6	129. 5	03	481.0	147.1	63	538.4	164, 6
23 24	309. s	94. 7	84	367. 2	112.3	44	424.6	129.8	04	482.0	147. 4	64	539, 4	164.8
25	310. S	95.0	85	368. 1	112.6	45	425. 5	130. 1	05	482. 9	147.7	65	540.3	165, 1
26	311. 7	95, 3	86	369. 1	112.9	46	426, 5	130. 4	06	483. 9	148.0	66	541.3	165, 4
27	312.7	95, 6	87	370. 1	113. 2	47	427, 4	130. 7	07	484.8	148.3	67	542. 2	165. 7
28	313. 6	95, 9	88	371.0	113. 4	48	428.4	131.0	08	485, 8	148.6	68	543, 2	166.0
27 28 29	314.6	96.2	89	372.0	113.7	49	429, 3	131.3	- 09	486.7	148.9	69	544.1	166.4
30	315.5	96.5	90	372.9	114.0	50	430.3	131.6	10	487.7	149.1	70	545.1	166, 7
331	316, 5	96.8	391	373.9	114.3	451	431.3	131.9	511	488.7	149.4	571	546, 1	167.0
32	317.5	97.1	92	374.8	114.6	52	432. 2	132. 2	12	489.6	149.7	72	547.0	167.2
33	318.4	97.4	93	375, S	114.9	53	433, 2	132.4	13	490.6	150.0	73	548.0	167.5
34	319.4	97.7	94	376.7	115.2	54	434.1	132.7	14	491.5	150. 2	74	548.9	167.8
35	320.3	97.9	95	377.7	115.5	55	435.1	133.0	15	492.5	150.5	75	549. 9	168.1
36	321.3	98.2	96	377. 7 378. 7	115.8	56	436.0	133.3	16	493.4	150.8	76	550.8	168.4
37	322.2	98.5	97	379. 6	116. 1	57	437.0	133.6	17	494.4	151.1	77	551.8	168, 7
38	323.2	98.8	98	380, 6	116. 4	58	438. 0	133.9	18	495.3	151.4	78	552.7	169.0
39	324.2	99. 1	99	381. 5	116.7	59	438. 9	134. 2	19	496.3	151.7	79	553.7	169.3
40	325.1	99.4	400	382.5	117.0	60	439. 9	134.5	20	497.2	152.0	80	554.6	169.6
341	326.1	99.7	401	383, 4	117.2	461	440.8	134.8	521	498. 2	152. 3	581	555. 6	169, 9
42	327.0	100.0	02	384.4	117.5	62	441.8	135. 1	22	499.2	152.6	82	556. 5	170.2
43	328.0	100.3	03	385. 4	117.8	63	442. 7 443. 7	135. 4	23	500.1	152, 9 153, 2	83	557.5	170.5
44	328.9	100.6	04	386.3	118.1	64	443.7	135.7	24	501.1	153. 2	84	558. 4	170.8
45	329. 9	100.9	05	387.3	118.4	65	444.6	136.0	25	502.0	153.5	85	559.4	171.1
46	330. 8	101. 2	06	388, 2	118.7	66	445.6	136. 2	26	503.0	153.8	86	560.4	171.3
47	331.8	101.5	07	389. 2	119.0	67	446.6	136.5	27	503.9	154.1	87	561.3	171.6
48 49	332. 8	101.8	08	390.1	119.3	68	447.5	136.8	28 29	504. 9 505, 9	154.4	88	562.3	171.9
50	333.7	102.0	09 10	391. 1 392. 0	119.6	69 70	448.5 449.4	137.1	30	506.8	154. 7 155. 0	89 90	563, 2 564, 2	172, 2 172, 5
	334.7	102.3			119.9			137. 4						
351	335.6	102.6	411	393. 0	120. 2	471	450.4	137.7	531	507.8	155.3	591	565.1	172.8
52 53	336. 6 337. 5	102.9 103.2	12 13	394. 0 394. 9	120.5	72 73	451. 3 452. 3	138. 0 138. 3	32 33	508. 7 509. 7	155. 6 155. 9	92 93	566. 1 567. 1	173, 1 173, 4
54	338.5	103. 2	14	395. 9	120.8 121, 0	74	453.3	138. 6	34	510.6	156. 2	93	568.0	173. 7
55	339.5	103. 8	15	396. 8	121. 0	75	454. 2	138. 9	35	511.6	156. 5	95	569.0	174.0
56	340.4	104. 1	16	397.8	121. 6	76	455. 2	139. 2	36	512.6	156. 8	96	569.9	174.3
57	341.4	104. 1	17	398.7	121. 9	77	456.1	139. 5	37	513.5	157. 1	97	570.9	174.6
58	342.3	104. 7	18	399.7	122. 2	78	457.1	139. 8	38	514, 5	157. 1	98	571.8	174. 9
59	343.3	105.0	19	400.7	122.5	79	458. 0	140.0	39	515.4	157.6	99	572.8	175. 2
60	344. 2	105.3	20	401.6	122. 8	80	459.0	140.3	40	516. 4	157. 9	600	573.8	175. 4
						50	20000							
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	P.	AAA L.	2,000	x∼p,	AA+1.	2.400.	Dop.	*/44.		z-cp.		*****	2-ср.	2,2411
									`					

73° (107°, 253°, 287°).

Page 566]

TABLE 2.

Difference of Latitude and Departure for 18° (162°, 198°, 342°).

		_	ишен	ence of i	amuu	eanu	Бераги	101	19 (1	02 , 176	, 342).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	1.0	0, 3	61	58, 0	18. 9	121	115, 1	37.4	181	172.1	55. 9	241	229. 2	74.5
1 2 3	1.9	0.6	62	59.0	19. 2	121 22	116.0	37. 4 37. 7	82	172. 1 173. 1	55, 9 56, 2	42	230. 2	74.8
3	2, 9	0, 9	63	59.9	19.5	23	117.0	38, 0	83	174.0	56, 6	43	231.1	75.1
4	3.8	1.2	64	60.9	19.8	24	117. 9	38, 3	84	175.0	56, 9	44	232. 1	75.4
5	4.8	1.5	65	61.8	20.1	25	118.9	38, 6	85	175. 9	57. 2 57. 5	45	233. 0	75.7
6	5.7	1.9	- 66	62. 8	20.4	26	119, 8	38, 9	86	176. 9	57.5	46	234.0	76.0
7	6. 7 7. 6	2. 2	67	63. 7	20.7	27	120, 8	39. 2	87	177.8	57.8	47	231.9	76.3
8 9	7.6	2. 2 2. 5 2. 8	68	64.7	21.0	28	121.7 122.7	39, 6	88 89	178.8	58.1	48	235. 9	76.6
10	8, 6 9, 5	3.1	69 70	65, 6 66, 6	21.3 21.6	29 30	123. 6	39, 9 40, 2	90	179. 7 180. 7	58.4 58.7	49 50	236. 8 237. 8	76.9 77.3
11	10.5				21.0	131	124.6	40.5	191	181.7	59, 0	251	238.7	
12	11, 4	3. 4 3. 7	71 72	67. 5 68. 5	22. 2	32	125.5	40.8	92	182, 6	59.3	52	239. 7	$\frac{77.6}{77.9}$
13	12.4	4.0	73	69.4	22.6	33	126.5	41.1	93	183.6	59.6	53	240.6	78. 2
14	13. 3	4.3	74	70.4	22.9	34	127.4	41.4	94	184.5	59. 9	54	241.6	78.5
15	14.3	4.6	75	71.3	23. 2	35	128.4	41.7	95	185, 5	60.3	55	242.5	78.8
16	15, 2	4.9	76	72.3	23. 5	- 36	129.3	42.0	96	186, 4	60.6	56	243.5	79.1
17	16.2	5.3	77	73. 2	23.8	37	130, 3	42.3	97	187.4	60, 9	57	244.4	79.4
18	17.1	5.6	78	74.2	24.1	38	131, 2	42, 6	98	188, 3	61. 2	58	245.4	79.7
19	18.1	5, 9	79	75.1	24.4	39	132.2	43.0	99 200	189, 3	61.5	59	246, 3 247, 3	80.0
20	19.0	6.2	80	76.1	24.7	40	$\frac{133.1}{134.1}$	$-\frac{43.3}{43.6}$	$\frac{200}{201}$	190. 2	61.8	26I	248. 2	80.3
21 22	20, 0 20, 9	6, 5 6, 8	81 82	77. 0 78. 0	25. 0 25. 3	$\frac{141}{42}$	135, 1	43. 9	02	191. 2 192. 1	62. 1 62. 4 62. 7	62	249. 2	80. 7 81. 0
23	21, 9	7.1	83	78. 9	25, 6	43	136.0	44.2	03	193. 1	69 7	63	250. 1	81.3
24	22. 8	7. 1	84	79, 9	26. 0	44	137. 0	44.5	04	194.0	63. 0	64	251.1	81.6
25	23.8	7.7	85	80.8	26. 3	45	137.9	41.8	05	195, 0	63, 3	65	252, 0	81.9
26	24.7	8, 0	86	81.8	26, 6	46	138. 9	45. I	- 06	195, 9	63. 7	66	253, 0	82. 2
27	25, 7	8, 3	87	82. 7 83. 7	26, 9	47	139, 8	45.4	07	196. 9	64.0	67	253, 9	82.5
28	26.6	8.7	-88	83. 7	27. 2	48	140.8	45, 7	08	197. 8	64.3	68	254.9	82.8
29	27, 6	9, 0	89	84, 6	27.5	49	141.7	46, 0	09	198, 8	64.6	69 70	255, S 256, S	83.1
30	-28.5	9.3	90	85.6	27.8	50	142.7	46, 4	10	199.7	64.9	371	257. 7	83, 4
31	29, 5	9, 6	91 92	86. 5 87. 5	28. 1 28. 1	151 52	143, 6 144, 6	46.7	211 12	200. 7 201. 6	65. 2 65. 5	271 72 73	258.7	83.7
32 33	30. 4 31. 4	$\frac{9.9}{10.2}$	93	88.4	28. 7	53	145, 5	17. 0 47. 3	13	202.6	65.8	73	259, 6	84. 4
34	32. 3	10.5	94	89.4	29. 0	54	146, 5	47.6	ii	203.5	66. 1	74	260, 6	84.7
35	33. 3	10.8	95	90, 4	29, 4	55	147.4	47.9	15	201.5	66.4	75	261.5	85, 0
36	$\frac{34.2}{35.2}$	11.1	96	91.3	29. 7	56	148.4	48.2	16	205, 4	66.7	76	262.5	85, 3
37	35, 2	11.4	97	92.3	30, 0	57	149.3	48.5	17	206, 4	67. 1 67. 4	77	263.4	85, 6
38	36. I	11.7	98	93, 2	30, 3	58	150.3	48.8	18	207.3	67.4	78	261.4	85, 9
39	37. I	12. 1	99	94.2	30.6	59	151. 2 152. 2	49. 1	19 20	208, 3 209, 2	67.7	79 80	265, 3 266, 3	86, 2
40	38, 0	12.4	100	= 95, I	30, 9 31, 2	60	153, 1	49, 4	301-		68.0	281		86. 8
41 42	39, 0 39, 9	12.7 13.0	$\frac{101}{02}$	96. 1 97. 0	31. 2	161 62	154, 1	50.1	221 22 23	210. 2 211. I	68.3 68.6	82	267.2 268.2	87. 1
43	40.9	13, 3	03	98, 0	31.8	63	155.0	50. 1	23	212.1	68.9	83	269. 1	87.5
44	41.8	13, 6	04	98, 9	32.1	64	156, 0	50.7	1 24	213.0	69, 2	84	270. I	87.8
45	42. 8	13, 9	05	99, 9	32.4	65	156, 9	51.0	25	214.0	69, 5	85	271.1	88, 1
46	$\frac{42.8}{43.7}$	14.9	-06	100, 8	32. 8	-66	157. 9	51.3	26	214.9	69, 8	- 86	272.0	88, 4
47	44.7	14.5	-07	101.8	33. 1	67	158, 8	5L.6	27 28	215.9	70.1	87	273.0	88.7
48	45.7	14. S	08	102.7	33, 4	68	159.8	51.9	28	216.8	70, 5	88	273.9	89. 0
49	46. 6	15.1	09	103.7	33.7	69 70	160, 7 161, 7	52, 2 52, 5	29 30	217. 8 218. 7	70. 8 71. 1	89 90	274. 9 275. 8	89.3 89.6
50	47.6	15, 5	10	_104, 6 _105, 6	34. 0				231	219. 7	71.4	291	276.8	89. 9
51 52	48, 5 49, 5	15, 8 16, 1	111 12	106, 5	34.6	171 72	162, 6 163, 6	52. 8 53. 2	32	220, 6	71.7	92	277. 7	90. 3
53	50, 4	16.4	13	107.5	34. 9	73	161, 5	53, 5	33	221.6	72.0	93	278, 7	90. 2 90. 5
54	51, 1	16.7	11	108, 1	35. 2	71	165, 5	53, 8	31	222.5	79 3	94	279.6	90, 9
55	52.3	17.0	15	109, 4	35, 5	7.5	166. 4	51.1	35	223, 5	$\frac{72.6}{72.9}$	95	280, 6	91.2
56	53, 3	17.3	16	110.3	35, 8	76	167. 4	54.4	36	224.4	72.9	96	281.5	91.5
57	54. 2	17. 6	17	111.3	36, 2	77	168, 3 169, 3	51.7	37 38	225, 4 $226, 4$	73. 2 73. 5	97 98	282, 5 283, 4	91. 8 92. I
58	55, 2	17.9	18	112. 2 113. 2	36, 5	78 79	170. 2	55, 0 55, 3	39	226. 4 227. 3	73. 9	99	284, 4	92.4
59 60	56, I 57, I	18, 2 18, 5	19 20	114.1	36, S 37, 1	80	171.2	55, 6	40	228.3	71. 2	300	285.3	92.7
177	.,,,,	1 5. 0	-"		.,,,,,									
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						72° (I	081, 252	°, 288°).					

Difference of Latitude and Departure for 18° (162°, 198°, 342°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	286. 3	93, 0	361	343, 3	111.6	421	400.4	130. 1	481	457, 5	148. 6	541	514, 5	167. 2
02	287. 2	93, 3	62	344.3	111.9	99	401.4	130, 4	82	458.5	148.9	42	515, 5	167.5
03	288, 2	93. 7	63	345.2	112. 2	22 23	402.3	130. 7	83	459.4	149.3	43	516.4	167. 9
04	289. 1	94.0	64	346, 2	112.5	24	403.3	131.0	81	460.4	149.6	-14	517.4	168.2
05	290, 1	94.3	65	347. 1	112.8	25	404.2	131.3	- 85	461.3	149, 9	45	518.3	168.5
-06	291.0	94.6	- 66	348.1	113.1	26	405. 2	131.7	- 86	462.3	150.2	46	519.3	168.8
-07	292.0	94. 9	67	349.0	113. 4	27	406.1	132.0	87	463.2	150, 5	47	520. 2	169.1
08	292. 9	95, 2	68	350, 0	113.7	28	407.1	132.3	-88	464.2	150.8	48	521. 2	169. 4
-09	293. 9	95, 5	69	350, 9	114.0	29	408.0	132.6	89	465.1	151.1	49	522. 1 523. 1	169.7
10	294, 8	95.8	70_	351.9	114.3	30	409.0	132.9	90	466.1	151.4	50		170.0 170.3
311	295, 8	96. 1	371	352.9	114.7	431	409. 9	133. 2 133. 5	491 92	467. 0 468. 0	$ 151.7 \\ 152.0 $	551 52	524.0 525.0	170. 6
12 13	296. 7 297. 7	96.4 96.7	72 73	353. 8 354. 8	115, 0 115, 3	32 33	410.9 411.8	133. S	93	468. 9	152. 0	53	525. 9	170. 9
14	298.6	97.0	74	355.7	115.6	34	412.8	134. 1	94	469.8	152.6	54	526, 9	171.2
15	299.6	97.4	75	356.7	115.9	35	413, 7	134. 4	95	470.8	153. 0	55	527.8	171.5
16	300.5	97.7	76	357, 6	116. 2	36	414.7	134. 7	96	471.7	153, 3	56	528, 8	171.8
17	301.5	98.0	77	358, 6	116, 2 116, 5	37	415.6	135, 1	97	472. 7 473. 6	153. 6	57	529.7	172.1
18	302.4	98.3	78	359.5	116.8	38	416.6	135.4	-98	473.6	153. 9	58	530.7	172. 4 172. 7
19	303. 4	98.6	79	360.5	117. 1	39	417.5	135. 7	- 99	474.6	154.2	- 59	531.6	172.7
20	304.3	98, 9	80	361.4	117.4	40	418.5	136.0	500	475.5	154.5	60	532, 6	173.0
321	305, 3	99.2	381	362, 4	117. 7	441	419.4	136.3	501	476.5	154.8	561	533. 5	173.3
22 23	306, 2	99.5	82	363, 3	118.1	42	420.4	136, 6	02	477.4	155. 1	62	534.5	173.6
23	307. 2	99.8	83	364. 3	118.4	43	421.3	136. 9	03	478, 4	155.4	63	535.4	173.9
24	308. 2	100.1	84	365. 2	118.7	44	422.3	137. 2	04 05	479.3	155. 7 156. 1	64 65	536.4 537.3	174. 2 174. 6
25 26	309, I 310, I	100.4	85 86	366. 2 367. 1	119. 0 119. 3	45 46	423, 2 424, 2	137.5 137.8	0.5	480.3 481.2	156. 4	66	538.3	174.9
27	311. 0	101.1	87	368, 1	119.6	47	425. 1	138. 1	07	482. 2	156. 7	67	539.2	175.2
58	312.0	101.4	88	369. 0	119.9	48	426. 1	138. 4	08	483. 2	157.0	68	540. 2	175.5
28 29	312.0 312.9	101.7	89	370.0	120. 2	49	427.0	138, 8	09	484. 1	157.3	69	541.1	175.8
30	313.9	102.0	90	370.9	120.5	50	428, 0	139. 1	10	485, 1	157.6	70	542.1	176.1
331	314. 8	102.3	391	371.9	120.8	451	428. 9	139. 4	511	486, 0	157. 9	571	543.0	176.4
32	315.8	102.6	92	372.8	121.1	52	429. 9	139.7	12	487.0	158, 2 158, 5	72	544.0	176.7
33	316. 7	102.9	93	373.8	121.5	53	430.8	140.0	13	487. 9		73	544. 9	177.0
34	317.7	103. 2	94	374. 7	121.8	54	431.8	140.3	14	488, 9	158.8	74	545. 9 546. 8	177.3 177.6
35 36	318.6	103.5	95 96	$375.7 \\ 376.6$	122, 1 122, 4	55	432, 7 433, 7	140.6	15 16	489, 8 490, 8	159, 1 159, 4	75 76	547.8	177.0
37	319.6 320.5	103.8 104.1	97	377.6	122. 4	56 57	434. 0	141. 2	17	491.7	159. 7	77	548.7	178.3
38	321.5	104.5	98	378, 5	123.0	58	435.6	141.5	18	492.7	160.0	78	549.7	178.6
39	322. 4	104.8	99	379.5	123, 3	59	436.5	141.8	19	493.6	160.3	79	550.6	178.9
40	323.4	105. 1	400	380, 4	123.6	60	437.5	142.2	20	494.6	160.7	80	551.6	179.2
341	324, 3	105.4	401	381.4	123.9	461	438.4	142.5	521	495.5	161, 0	581	552.5	179.5
42	325, 3	105.7	02	382.3	124.2	62	439. 4	142.8	22	496, 5 497, 4	161.3	82	553.5	179.8
43	326, 2	106.0	03	383.3	124.5	- 63	440.3	143. 1	23	497.4	161.6	83	554.4	180. 1
44	327. 2	106.3	04	384. 2	124.9	64	441.3	143.4	24	498.4	161.9	84	555. 4 556. 3	180. 4 180. 7
45 46	328, 1 329, 1	106, 6 106, 9	05	385, 2 386, 1	125, 2	65 66	442. 2 443. 2	143.7 144.0	$\frac{25}{26}$	499, 3 500, 3	$162.2 \\ 162.5$	85 86	557.3	180.7
47	330. 0	105. 9	06 07	387. 1	125, 5 125, 8	67	444. 2	144.3	27	501.2	162. 9	87	558.2	181.4
48	331.0	107.5	08	388.0	126. 1	68	445. 1	144.6	28	502. 2	163, 2	88	559. 2	181.7
49	331.9	107.9	- 69	389.0	126. 4	69	446. 1	144.9	29	503. 1	163.5	89	560.1	182.0
50	332. 9	108, 21	10	389.9	126.7	70	447.0	145.2	30	504.1	163, 8	90	561.1	182, 3
351	333. 8	108.5	411	390. 9	127.0	471	448. 0	145, 6	531	505.0	164. 1	591	562.0	182.7
52	334. 8	108, 8	12	391.8	127.3	72 73 74	448, 9	145, 9	32	506, 0	164. 4	92	563, 0	183.0
53	335. 7	109, 1	13	392.8	127.6	73	449. 9	146.2	33	506.9	164. 7	93	563. 9	183.3
54	336.7	109. 4	14	393. 7	127, 9	74	450.8	146, 5	34	507.9	165.0	94	564.9	183.6
55	337.6	109.7	15	394.7	128, 3	75	451.8	146.8	35 2e	508.8	165.3	95 96	565, S 566, 8	183, 9 184, 2
56 57	338. 6 339. 5	110.0 110.3	16 17	395, 6 396, 6	128, 6 128, 9	76 77	452. 7 453. 7	147.1 147.4	36 37	509, 8 510, 7	165. 6 165. 9	96 97	567. 7	181.5
58	340, 5	110. 5	18	397.5	129.2	78	454.6	147.7	38	511.7	166, 2	98	568, 7	184.8
59	341.4	110.0	19	398.5	129. 5	79	455.6	148, 0	39	512.6	166. 5	99	569.6	185, 1
60	342. 4	111.3	20	399.5	129.8	80	456.5	148.3	40	513, 6	166, 9	600	570.6	185, 4
														-
Dist.	Dep.	Lat.	Dist.	Dep.	Lut.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat,
						700 (108 252	0 0000	1					

72° (108, 252°, 288°).

TABLE 2.

Difference of Latitude and Departure for 19° (161°, 199°, 341°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.3	61	57. 7	19.9	121	114.4	39.4	181	171.1	58.9	241	227. 9	78.5
2 3	1.9	0.7	62	58.6	20. 2	22 23	115.4	39.7	82 83	172. 1 173. 0	59.3	42	228.8	78.8
4	2, 8	1.0	63 64	59, 6 60, 5	20, 5	23	116.3 117.2	40.0	84	174. 0	59, 6 59, 9	43 44	229. 8 230. 7	79. 1 79. 4
5	4.7	1.6	65	61.5	21. 2	25	118. 2	40.7	85	174. 9	60. 2	45	231. 7	79.8
- 6	5, 7	2, 0	-66	62.4	21.5	26	119.1	41.0	86	175, 9	60.6	46	232.6	80.1
7	6, 6	2.3	67	63, 3	21.8	27	120.1	41.3	-87	176.8	60.9	47	233.5	80. 4
8 9	7.6	2. 6 2. 9	68	64.3	22. 1 22. 5	28 29	121.0 122.0	41.7 42.0	88 89	177.8	61. 2 61. 5	48 49	234. 5 235. 4	80. 7 81. 1
10	8.5 9.5	3. 3	69 70	65. 2 66, 2	22.8	30	122. 0	42.3	90	178. 7 179. 6	61.9	50	236.4	81.4
11	10.4	3, 6	71	67. 1	23, 1	131	123. 9	42.6	191	180.6	62, 2	$\bar{251}^{-}$	237.3	81. 7
12	11. 3	3, 9	72	68. 1	23, 4	32	124.8	43.0	92	181.5	62. 5	52	238, 3	82.0
13	12.3	4.2	72 73	69, 0	23, 8	- 33	125, S	43, 3	93	152.5	62.8	-53	239, 2	82.4
14	13. 2	4.6	74	70, 0	24, 1	34	126.7	43.6	94	183, 4	63. 2 63. 5	54	240. 2	82.7
15 16	14. 2 15. 1	4.9 5.2	75 76	70. 9 71. 9	24. 4 24. 7	35 36	127.6 128.6	44.0	95 96	184. 4 185. 3	63.8	55 56	241. 1 242. 1	83. 0 83. 3
17	16.1	5, 5	77	72.8	25, 1	37	129.5	44.6	97	186.3	64.1	57	243. 0	83. 7
18	17.0	5, 9	78	73.8	25.4	38	130.5	44.9	98	187.2	64.5	58	243.9	84.0
19	18.0	6, 2	79	74. 7	25.7	39	131.4	45, 3	99	188.2	64.8	59	244. 9	84.3
20	18.9	6, 5	_80	75.6	26. 0	40	132.4	45, 6	200	189.1	65, 1	60_	245, 8	84.6
21	19. 9	6, 8	81	76.6	26, 4	141	133.3	45, 9	201	190, 0	65. 4	261	246.8	85.0
22 23	$\frac{20.8}{21.7}$	7. 2	82 83	77. 5 78. 5	26. 7 27. 0	42 43	134.3 135.2	46, 2 46, 6	02	191. 0 191. 9	65. S 66. 1	62 63	247. 7 248. 7	85. 3 85. 6
24	20.7	7.8	84	79.4	27.3	44	136. 2	46.9	0.5	192, 9	66. 4	64	249, 6	86. 0
25	23. 6	8.1	85	80.4	27.7	45	137. 1	47.2	05	193, 8	66. 7	65	250, 6	86.3
26	24.6	8,5	86	81.3	28, 0	46	138.0	$\frac{47.2}{47.5}$	-06	194.8	67.1	-66	251. 5	86.6
27	25. 5	8, 8	87	82, 3	28, 3	47	139.0	47.9	07	195.7	67.4	67	252.5	86.9
28 29	$\frac{26.5}{27.4}$	9. 1 9. 4	88 89	83. 2 84. 2	28.7 29.0	48 49	139. 9 140. 9	48.2 48.5	08	196. 7 197. 6	68. 0	68 69	253. 4 254. 3	87.3 87.6
30	28. 4	9. 8	90	85, 1	29.3	50	141. 8	48.8	10	198. 6	68.4	70	255.3	87. 9
31	- 29.3	10.1	91	86. 0	29, 6	151	142.8	49. 2	211	199, 5	68.7	271	256, 2	88.2
32	30, 3	10.4	92	87. 0	30.0	52	143.7	49, 5	12	200.4	69, 0	72 73	257. 2	88.6
33	31.2	10.7	93	87.9	30.3	53	144.7	49, 8	13	201.4	69.3	73	258. 1	88. 9
34	32.1	11.1	94	88. 9	30, 6	54	145, 6	50.1	14	202.3	69.7	74	259. 1	89, 2
35 36	33. 1 34. 0	11.4 11.7	95 96	89. 8 90. 8	30, 9 31, 3	55 56	146, 6 $147, 5$	50, 5 50, 8	15 16	203.3	70.0 70.3	75 76	260. 0 261. 0	89, 5 89, 9
37	35, 0	12.0	97	91.7	31.6	57	148, 4	51.1	17	205, 2	70.6	77	261. 9	90. 2
38	35, 9	12.4	98	92. 7	31.9	58	149.4	51.4	18	206, 1	71.0	78	262.9	90.5
39	36, 9	12.7	99	93, 6	32. 2	59	150, 3	51.8	19	207.1	71.3	79	263, 8	90.8
40	37. 8	13.0	100	94.6	32. 6	60	151.3	52.1	20	208.0	71.6	80	264. 7	91.2
41	38, 8 39, 7	13.3	101	95, 5 96, 4	32.9	161 62	152, 2 153, 2	52, 4 52, 7	221 22	209, 0 209, 9	72.0 72.3	281 82	265. 7 266. 6	91. 5 91. 8
42 43	40.7	13. 7 14. 0	02	97. 4	$33.2 \\ 33.5$	63	154. 1	53. 1	23	210. 9	79.6	83	267.6	92.1
44	41.6	14.3	04	98.3	33. 9	61	155. 1	53, 4	24	211.8	$\frac{72.6}{72.9}$	84	268.5	92.5
45	42.5	14.7	05	99. 3	34. 2	65	156.0	53.7	25	212, 7	73.3	85	269, 5	92.8
46	43, 5	15.0	-06	100.2	34.5	- 66	157.0	54.0	26	213. 7	73.6	86	270.4	93. 1
47 48	44.4	15.3	07 08	101, 2 102, 1	34. 8 35. 2	67 68	157. 9 158. 8	54.4	27 28	214, 6 215, 6	73. 9 74. 2	87 88	271.4	93.4 93.8
49	$\frac{45.4}{46.3}$	15. 6 16. 0	09	103.1	35, 5	69	159. S	55. 0	29	216.5	74.6	89	272. 3 273. 3	94.1
50	47. 3	16. 3	10	10-1.0	35. 8	70	160.7	55, 3	30	217.5	74.9	90	274.2	94.4
51	48, 2	16. 6	111	105.0	36.1	171	161.7	55.7	231	218.4	75. 2	291	275. 1	94.7
52	49.2	16.9	12	105.9	36. 5	72	162.6	56.0	32	219.4	75.5	92	276. 1	95. 1
53	50, 1	17.3	13	106.8	36.8	73	163, 6	56, 3	33	220.3 221.3	75.9 76.2	93 94	277. 0 278. 0	95.4 95.7
54 55	51.1 52.0	17.6 17.9	14 15	107. 8 108. 7	37. 1 37. 4	74 75	164, 5 165, 5	56, 6 57, 0	34 35	222. 2	76.5	95	278. 9	96. 0
56	52. 9	18. 2	16	109. 7	37. 8	76	166. 4	57.3	36	223, 1	76.8	96	279.9	96.4
57	53. 9	18.6	17	110.6	38.1	77	167.4	57.6	. 37	224.1	77. 2	97	280. 8	96. 7
58	54.8	18. 9	18	111.6	38, 4	78	168.3	58.0	38	225.0	77.5	98	281. 8 282. 7	97.0
59	55, 8	19.2	19	112.5	38.7	79	169. 2 170. 2	58.3	39 40	226. 0 226. 9	77. 8 78. 1	300	282. 7	97.3 97.7
60	56, 7	19.5	20	113.5	39. 1	80	170.2	58, 6	40	220. 9	10.1	deal	-00. f	31.1
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
					1	-		1	-	-		•		•

71° (109°, 251°, 289°).

TABLE 2.

[Page 569

Difference of Latitude and Departure for 19° (161°, 199°, 341°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	284.6	98. 0	361	341.3	117.5	421	398. 1	137.0	481	454. 8	156, 6	541	511.5	176. 1
02	285.5	98.3	62	342.3	117.8	22	399, 0	137. 4	82	455. 7	156.9	42	512.4	176. 4
03	286.5	98. 6	63	343. 2	118. 2	23	400, 0	137. 7	83	456. 7	157. 2	43	513. 4	176. 8
04	287. 4	99.0	64	344. 2	118.5	24	400.9	138.0	84	457.6	157. 6	44	514.3	177. 1
05	288. 4	99.3	65	345. 1	118.8	25	401.8	138. 4	S5	458.6	157. 9	45	515.3	177. 4
06	289. 3	99. 6	66	346, 1	119.1	26	402.8	138. 7	86	459.5	158. 2	46	516.0	177.7
	290. 3			347. 0								47	516, 2 517, 2	170 1
07		99, 9	67		119.5	27	403.7	139, 0	87	460.5	158, 5			178. 1
08	291. 2	100.3	68	348.0	119.8	28	404.7	139, 3	88	461.4	158.9	48	518.1	178.4
09	292.2	100.6	69	348, 9	120. 1	29	405, 6	139.7	89	462.4	159. 2	49	519.1	178.7
10	293. 1	100.9	70	349, 8	120.4	30	406, 6	140.0	90	463.3	159, 5	50	520, 0	179.0
311	294.1	101.2	371	350, 8	120.8	431		[140, 3]	491	464.3	159.8	551	521.0	179.4
12	295.0	101.6	72 73 74	351.7	121.1	32		140.6	92	465.2	160, 2	52	521.9	179.7
13	295.9	101.9	73	352.7	121.4	- 33	409.4	141.0	93	466, 1	160, 5	53	522. 8	180.0
14	296, 9	102.2	74	353.6	121.7	34	410.4	141.3	94	467.1	160, S	54	523, 8	180.3
15	297.8	102. 2 102. 5	7.5	354.6	122.1	35	411.3	141.6	95	468, 0	161. 1	55	524.7	180, 7
16	298, 8	102.9	76	355, 5	122.4	36	412.2	141.9	96	469, 0	161.5	56	525.7	181.0
17	299.7	103. 2	77	356. 5	122.7	37	413. 2	142.3	97		161. 8	57	526, 6	181.3
18	300, 7	103.5	78	357. 4	123, 0	38	414.1	142.6	98	470.9	162. 1	58	527.6	181. 6
19	301.6	103, 8	79	358. 4	123. 4	39	415.1	142.9	99	471.8	162. 4	59	528, 5	182.0
20	302.6	104. 2	80	359.3	123.7	40	416.0	143. 2	500	472.8	162. 8	60	529, 5	182.
321	303.5	104.5	381	360. 2	124.0	441	417.0	143.6	501	473.7	163.1	561	530.4	182. 6
22	304.5		82	361.2	124.4	42	417.9	143, 9	02	474.7	163.4	62	531.4	182. 9
23	305, 4		- 83	362.1	124.7	43		144, 2	03	475.6	163.7	63	532.3	183.3
24	306, 3	105. ŏ	84	363.1	125.0	44		144.5	04	476.5	164.1	64	533, 2	183. 6
25		105.8	85	364.0	125, 3	45	420, 8	144.9	-05	477.5	164.4	65	534.2	183. 9
26	308, 2	106.1	86	365, 0	125.7	46	421.7	145, 2	-06	478.4	164.7	66	535.1	184. 3
27	309.2	106, 4	87	365. 9	126, 0	47	422.6	145.5	-07	479.4	165.0	67	536.1	184. €
28	310.1	106.8	88	366, 9	126, 3	48	423.6	145.8	08	480.3	165.4	68	537.0	184. 9
29	311.1	107.1	89	367, 8	126, 6	49	424.5	146.2	09	481.2	165. 7	69	538.0	185.2
30	312.0	107, 4	90	368, 8	127.0	50	425.5	146.5	10	482. 2	166.1	70	538. 9	185. €
331	313.0	107.7	391	369.7	127.3	451	426. 4	146. 8	511	483. 1	166, 4	571	539. 9	185. 9
32	313. 9	108.1	92	370.6	127.6	52	427.4	147.1	12	484.1	166.7	72	540.8	186. 2
33	314.9	108. 4	93	371.6	127. 9	53	428.3	147.5	13	485. 0	167. 0	73	541.7	186. 5
34	315.8	108. 7	94	372.5	128.3	54	429.3	147.8	14	486, 0	167.4	74	541.7 542.7	186. 9
35	316. 7	109.1	95	373.5	128.6	55	430. 2	148.1	15	486. 9	167. 7	75	543. 6	187. 2
36	317. 7	109.4	96	374.4	128. 9	56		148. 4	16	487.9	168. 0	76	544.6	187.
37	318.6	109.7	97	375. 4	129. 2	57	432. 1	148. 8	17	488.8	168.3	77	545.5	187.8
38	319.6	110, 0	98	376.3	129. 6	58	433. 0	149.1	18	489.7	168. 7	78	546.5	188.1
39	320.5	110.4	99	377.3	129. 9	59		149, 4	19	490, 7	169.0	79	547.4	188. 5
40	321.5	110.7	400	378.2	130, 2	60	434. 9	149.7	20	491.6	169.3	80	548.4	188.8
341	322.4	111.0	401	379.2	130.5	461	435.9	150.1	521	492.6	169. 6	581	549. 3	189. 1
42	323.4	111.3	02	380. 1	130.9	62	436, 8	150.4	22	493.5	170, 0	82	550, 3	189.
43	324.3	111.7	-03	381.0	131.2	63	437. S	150. 7	23	494.5	170.3	83	551.2	189.8
44	325.3	112.0	04	382.0	131.5	64	438.7	151.0	24	495.4	170.6	84	552, 2	190. 1
45	326.2	112.3	05	382.9	131. S	65	439.7	151.4	25	496.4	170.9	85	553.1	190
46	327.1	112.6	-06	383.9	132.2	66	440, 6	151.7	26	497.3	171.2	86	554.1	190.8
47	328.1	113.0	07	384.8	132.5	67	441.6	152.0	27	498.3	171.6	87	555.0	191.
48	329.0	113.3	08	385.8	132.8	68	442.5	152.4	28	499.2	171.9	88	555.9	191
49	330.0	113.6	09	386.7	133.1	69	443.4	152.7	29	500.1	172.2	89	556, 9	191.
50	330.9	113.9	10	387.7	133.5	70	444.4	153, 0	30	501.1	172.5	90	557.8	192.
351	331.9	114.3	411	388, 6	133.8	471	445.3	153, 3	531	502.0	172.9	591	558. 8	192.
52	332. 8	114.6	12	389.6	134. 1	79	446.3	153. 7	32	503.0	173. 2	92	559.7	192.
53	333.8	114.9	13	390.5	134. 4	72 73	447.2	154. 0	33	503. 9	173. 5	93	560.7	193. 0
54	334. 7	115. 2	14	391.4	134. 4	74	448. 2	154. 3	34	504. 9	$173.3 \\ 173.8$	94	561.6	193.
55				392.4									562.6	193.
	335.7	115.6	15		135.1	75	449.1	154.6	35	505.8	174.2	95		
56	336.6	115.9	16	393. 3	135. 4	76	450.1	155.0	36	506.8	174.5	96	563.5	194.0
57	337.5	116. 2	17	394. 3	135.7	77	451.0	155. 3	37	507. 7	174.8	97	564.5	194.
58	338.5	116.5	18	395. 2	136.1	78	452.0	155.6	38	508. 7	175. 1	98	565, 4	194.
59	339. 4	116.9	19	396.2	136. 4	79	452.9	155. 9	39	509. 6	175.5	99	566, 4	195.0
60	340. 4	117.2	20	397. 1	136. 7	80	453.8	156. 3	40	510.6	175.8	600	567.3	195.
	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

71° (109°, 251°, 289°).

Page 570]

TABLE 2.

Difference of Latitude and Departure for 20° (160°, 200°, 340°).

_							as claure		-0 (1	, 200	, , 040	<i>)</i> •		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0. 9	0, 3	61	57. 3	20, 9	121	113. 7	41.4	181	170.1	61. 9	241	226. 5	82, 4
$\frac{1}{2}$	1.9	0.7	62	58.3	21.2	22	114.6	41.7	82	171.0	62. 2	42	227. 4	82.8
3	2.8	1.0	63	59.2	21.5	23	115.6	42.1	83	172.0	62.6	43	228. 3	83, 1
4	3.8	1.4	64	60.1	21.9	24	116.5	42.4	84	172.9	62. 9	44	229.3	83, 5
5	4.7	1.7	65	61. 1	22. 2	25	117.5	42. S	85	173.8	63. 3	45	230. 2	83.8
6	5. 6	2. 1	66	62, 0	22, 6	26	118.4	43. 1	86	174.8	63. 6	46	231, 2	84.1
7	6, 6	2.4	67	63, 0	22. 9	27	119.3	43. 4	87	175. 7	64.0	47	232. 1	84.5
ś	7.5	2.7	68	63. 9	23. 3	28	120.3	43, 8	88	176. 7	64.3	48	233. 0	84.8
9,	8, 5	3.1	69	64.8	23, 6	29	121.2	44. 1	89	177.6	64.6	49	234. 0	85. 2
10	9.4	3. 4	70	65.8	23. 9	30	122. 2	44.5	90	178.5	65.0	50	234. 9	85, 5
		3.8												
11	10.3		71	66. 7	24. 3	131	123.1	44.8	191	179.5	65. 3	251	235. 9	85.8
12	11.3	4.1	72 73	67.7	24.6	32	124.0	45. 1	92	180.4	65.7	52	236. 8	86, 2
13	12, 2	4.4	43	68, 6	25, 0	33	125.0	45.5	93	181.4	66.0	53	237. 7	86.5
14	13. 2	4.8	7.4	69. 5	25.3	34	125.9	45, 8	94	182.3	66.4	54	238.7	86.9
15	14, 1	5.1	75	70.5	25.7	35	126. 9	46. 2	95	183. 2	66. 7	55	239, 6	87. 2 87. 6
16	15, 0	5, 5	76	71.4	26, 0	36	127.8	46.5	96	184, 2	67.0	56	240, 6	87.6
17	16, 0	5, 8	77	72.4	26.3	37	128.7	46, 9	97	185, 1	67.4	57	241.5	87.9
18	16.9	6, 2	78	73.3	26.7	38	129.7	47, 2	98	186.1	67.7	58	242.4	88. 2
19	17. 9	6, 5	79	74.2	27.0	39	130, 6	47.5	99	187.0	68, 1	59	243. 4	88.6
= 20	18.8	6.8	80	75. 2	27.4	40	131.6	47.9	200	187. 9	68. 4	-60	244.3	88.9
21	19. 7	7. 2 7. 5	81	76.1	27.7	141	132.5	48, 2	201	188.9	68. 7	261	245.3	89.3
22	20.7	7.5	82	77.1	28.0	42	133.4	48.6	02	189.8	69. 1	62	246, 2	89. 6
23	21.6	7.9	83	78.0	28.4	43	134.4	48.9	-03	190.8	69, 4	63	247. 1	90.0
24	22.6	8.2	84	78.9	28.7	44	135.3	49.3	04	191.7	69. 8	64	248. 1	90, 3
25	23, 5	8, 6	85	79, 9	29, 1	45	136.3	49, 6	05	192.6	70.1	65	249.0	90.6
26	24. 4	8.9	86	80, 8	29, 4	46	137. 2	49.9	-06	193. 6	70, 5	66	250.0	91.0
27	25, 4	9.2	87	81.8	29, 8	47	138.1	50, 3	07	194.5	70.8	67	250. 9	91.3
28	26, 3	9, 6	88	82.7	30. 1	48	139.1	50, 6	08	195.5	71.1	68	251.8	91.7
29	27. 3	9, 9	89	83.6	30, 4	49	140, 0	51, 0	09	196.4	71.5	69	252.8	92.0
30	28, 2	10.3	90	84.6	30.8	50	140.9	51.3	10	197.3	71.8	70	253.7	92.3
31	29. 1	10, 6	91	85, 5	31. 1	151	141.9	51.6	211	198, 3	72.2	271	254. 7	92.7
32	30, 1	10.9	92	86.5	31. 5	52	142.8	52. 0	12	199. 2	70.5	72	255, 6	93, 0
33	31. 0	11.3	93	87.4	31. 8	53	143.8	52.3	13	200. 2	$\begin{array}{c} 72.5 \\ 72.9 \end{array}$	73	256, 5	
34	31. 9	11.6	94	88.3	32. 1	54	144. 7	52.7	14	201. 1	73. 2	74	257.5	93. 4 93. 7
35	32. 9	12.0	95	89.3	32.5	55	145.7	53. 0	15	202.0	73.5	75	258. 4	94.1
36	33, 8	12.3	96	90. 2	32, 8	56	146. 6	53. 4	16	203. 0	73. 9	76	259. 4	94.4
37	34, 8	12.7	97	91. 2	22.0	57	147.5	53. 7	17	203. 9	74. 2	77	260. 3	94.7
38	35, 7	13.0	98	92.1	33, 2 33, 5	58	148.5	54.0	18	204. 9	74.6	78	261. 2	95.1
39	36. 6	13. 3	99	93, 0	33. 9	59	149.4	54.4	19	205. 8	74.9	79	262. 2	95.4
40	37. 6	13. 7	100	94.0	34. 2	60	150.4	54.7	20	206. 7	75, 2	80	263. 1	95.8
-11	38, 5	14.0	101	94. 9	34, 5	161	151.3	55. 1	221	207. 7	75. 6	281	264. 1	96. 1
42	39, 5	14.4	02	95, 8	34. 9	62	152, 2	55. 4	22	208, 6	75. 9	82	265, 0	96.4
43	40.4	14.7	-03	96, 8	35. 2	63	153. 2	55, 7	23	209.6	76.3	83	265, 9	96.8
44	11.3	15.0	04	97.7	35, 6	64	154.1	56, 1	24	210.5	76.6	84	266.9	97. 1
45	42.3	15. 4	05	98. 7	35, 9	65	155, 0	56, 4	25	211.4	77.0	85	267. 8	97.5
46	43, 2	15. 7	- 06	99, 6	36, 3	66	156, 0	56, 8	26	212.4	77. 3	86	268, 8	97.8
47	$\frac{44.2}{45.1}$	16. 1	-07	100, 5	36, 6	67	156, 9	57.1	27	213, 3	77.6	87	269.7	$98.2 \\ 98.5$
48		16.4	-08	101.5	36, 9	68	157.9	57.5	28	214. 2	78.0	88	270.6	
49	46.0	16.8	- 09	102.4	37.3	69	158, 8	57. 8	29	215, 2	78. 3	89	271.6	98, 8
50	47, 0	17.1	10	103.4	37.6	70	159, 7	58.1	_30	216, 1	78, 7	90	272.5	99, 2
51	47. 9	17.4	111	104.3	38.0	171	160, 7	58, 5	231	217. 1	79.0	291	273.5	99.5
52	48.9	17.8	12	105, 2	38, 3	72	161. 6	58, 8	- 32	218, 0	79. 3	92	274.4	99.9
53	19.8	18.1	13	106, 2	38, 6	73	162, 6	59, 2	- 33	218.9	79. 7	93	275.3	100.2
54	50, 7	18, 5	14	107.1	39, 0	74	163, 5	59, 5	34	219.9	80.0	94	276.3	100, 6
55	51.7	18, 8	15	108, 1	39, 3	75	164.4	59, 9	35	220.8	80.4	95	277. 2	100, 9
56	52.6	19. 2	16	109.0	39. 7	76	165, 4	60, 2	- 36	221.8	80.7	96	278.1	101.2
57	53, 6	19. 5	17	109, 9	40, 0	77	166.3	60, 5	37	202.7	81.1	97	279.1	101.6
58	54.5	19.8	18	110.9	10.4	78	167.3	60, 9	38	223.6	81.4	98	280.0	101.9
59	55, 4	20, 2	19	111.8	40, 7	79	168, 2	61.2	39	224.6	81.7	99	281.0	102.3
60	56, 4	20.5	20	112.8	41.0	80	169, 1	61.6	40	225, 5	82.1	300	281.9	102.6
1			1									1		
Dist	Dep.	Lat	Inst.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
										1.11		1		1

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70° (110°, 250°, 290°).

Difference of Latitude and Departure for 20° (160°, 200°, 340°).

l	_	. 1					· ····· [·······		20 (, 20	, , ,,,,			
Dist.	Lat.	Dep.	Dist.	Lut.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	282.9	103, 0	361	339, 2	123. 5	421	395. 6	144.0	481	452, 0	164. 5	541	508, 4	185, 0
02	283.8	103. 3	62	340.2	123. 8	22	396, 6	144.3	82	453. 0	164.8	42	509.3	185. 4
03	284.7	103, 6	63	341.1	124, 2	23	397.5	144.7	83	453.9	165. 2	43	510.3	185.7
04	285, 7	104.0	64	342.1	124.5	24	398, 4	145, 0	84	454, 8	165, 5	44	511.2	186, 0
05	286.6	104, 3	65	343, 0	124.8	25	399.4	145, 4	85	455.8	165.9	45	512.1	186, 4
(%)	287.6	104.7	66	343, 9	125.2	26	400.3	145, 7	86	456. 7	166.3	46	513.1	186. S
07	288.5	, 105, 0	67	344.9	125.5	27	401.3	146, 1	87	457.7	166.6	47	514.0	187.1
08		105.4	68	345.8	125.9	28	402. 2	146, 4	88	458.6	166.9	48	515.0	187. 4
09		.105.7	69	346.8	126, 2	29 30	403. I	146.7	89 90	459.5	167.3	49	515.9	187.8
10	291.3	106, 0	70	347.7	126.6		404. 1	147.1		460, 5	167. 7	50	516.8	188, 2
311 12	292, 3 293, 2	106, 4 106, 7	371	348, 6 349, 6	126.9 127.2	431 32	405, 0 406, 0	147. 4 147. 8	491 92	461, 4 462, 4	168, 0 168, 3	551 52	517. 8 518. 7	188. 5 188. 8
13	294.1	107.1	72 73	350.5	127.6	33	406, 9	148.1	93	463. 3	168, 6	53	519.7	189.1
14	295. 1	107.4	74	351.5	127. 9	34	407.8	148. 4	94	464. 2	168. 9	54	520. 6	189.4
15	296. 0	107. 7	75	352. 4	128. 3	35	408.8	148.8	95	465, 2	169.3	55	521, 5	189.8
16	297.0	108.1	76	353, 3	128, 6	36	409.7	149.1	96	466.1	169, 6	56	522, 5	190, 2
17	297.9	108.4	77	354.3	129.0	37	410, 7	149.5	97	467.0	170.0	57	523, 4	190.5
18	298, 8	108, 8	78	355, 2	129.3	38	411.6	149.8	98	468, 0	170.3	58	524.4	190.8
19	299, 8	109.1	79	356, 2	129.6	39	412.5	150.2	99	468.9	170.7	59	525.3	191.2
20	300.7	109, 5	_80_	357.1	130.0	40	413, 5	150, 5	500	469, 9	171.0	60	526. 2	191.6
321	301.6	109, 8	381	358, 0	130.3	441	414.4	150. 8	501	470.8	171.3	561	527.2	191.9
22	302.6	110. 1	82	359, 0	130. 7	42	415.4	151. 2	02	471.7 472.7	171.7	62	528.1	192. 2 192. 5
23	303, 5	110.5	83	359, 9	131.0	43	416.3	151.5	03	472.7	172.0	63	529.0	192. 5
24	304, 5 305, 4	110. 8 111. 2	84 85	360, 8 361, 8	131.3 131.7	44 45	417, 2 418, 2	151. 9 152. 2	04 05	473. 6 474. 5	172.4 172.7	64 65	530, 0 530, 9	192, 9 193, 2
25 26	306. 3	111.5	86	362.7	132.0	46	419.1	152.5	06	475.4	173.0	66	531.8	193. 6
57	307.3	111.8	87	363. 7	132. 4	47	420.0	152. 9	07	476.4	173. 4	67	532.8	193. 9
27 28	308.2	112.2	88	364. 6	132. 7	48	421.0	153. 2	08	477.3	173. 7	68	533. 7	194. 2
29	309.2	112, 5	89	365.5	133, 1	49	421.9	153.6	-09	478, 3	174.1	69	534.7	194.6
30	310.1	112.9	90	366.5	133. 4	50	422.9	153.9	10	479. 2	174. 4	70	535. 6	195.0
331	311.0	113. 2	391	367. 4	133.7	451	423.8	154.3	511	480.2	174.8	571	536.6	195, 3
32	312.0	113.6	92	368.4	134. 1	52	424.7	154.6	12	481.1	175.1	72	537.5	195.6
33	312.9	113.9	93	369.3	134.4	53	425, 7	154.9	13	482, 1	175.4	73	538.5	195. 9
34 35	313.9	114.2	94 95	$370.2 \\ 371.2$	134.8	54	426, 6 427, 6	155.3	14	483.0	175.8	74 75	539. 4	196.3
36	314. 8 315. 7	114.6 114.9	96	372.1	135, 1 135, 4	55 56	428.5	155, 6 156, 0	16	484. 0 484. 9	176. 1 176. 5	76	540.3 541.3	196, 6 197, 0
37	316. 7	115.3	97	373. 1	135, 8	57	429.4	156.3	17	485.8	176.8	77	542.2	197.3
38	317. 6	115.6	98	374.0	136.1	58	430. 4	156.7	18	486.8	177. 2	78	543. 2	197.7
39	318.6	116.0	99	374.9	136, 5	59	431.3	157.0	19	487.7	177.5	79	544.1	198.0
40	319.5	116.3	400	375.9	136.8	60	432.3	157, 4	20	488.7	177.9	80	545.0	198.4
341	320.4	116.6	401	376:8	137. 2	461	433, 2	157. 7	521	489.6	178. 2	581	546.0	198.7
42	321.4	117.0	02	377.8	137.5	62	434.1	158.0	22	490, 5	178.5	82	546.9	199.0
43	322.3	117.3	03	378.7	137. 8	63	435.1	158.4	23	491.5	178, 9	83	547.9	199.4
44	323. 3	117.7	04	379.6	138. 2	64	436, 0	158.7	24	492.4	179.2	84	548.8	199.8
45 46	324, 2 325, 1	118.0 118.4	05	380. 6 381. 5	138. 5 138. 9	65 66	437. 0 437. 9	159. 0 159. 4	25 26	493, 4 494, 3	179.6 179.9	85 · 86	549, 8 550, 7	200. 1 200. 4
47	326. 1	118.7	07	382.5	139, 2	67	438.8	159. 7	97	495.3	180. 2	87	551.7	200. 4
48	327. 0	119.0	08	383. 4	139. 6	68	439.8	160. 1	27 28	496. 2	180. 6	88	552.6	201. 2
49	328.0	119.4	09	384.3	139.9	69	440.7	160.4	29	497.1	181.0	89	553.5	201.5
50	328, 9	119.7	10	385, 3	140.2	70	441.7	160.8	30	498.1	181.3	90	554.4	201.8
351	329.8	120.1	411	386.2	140.6	471	442.6	161.1	531	499.0	181.6	591	555. 4	202.1
52	330.8	120.4	12	387. 2	140.9	72	443.5	161.4	32	499.9	181.9	92	556.3	202.4
53	331. 7	120. 7	13	388.1	141.3	73	444.5	161.8	33	500.9	182.3	93	557.3	202.8
54	332. 7	121. 1	14	389. 0	141.6	74	445.4	162. I	34	501.8	182.6	94	558.2	203. 2
55 56	333.6 334.5	121. 4 121. 8	15	390.0	141.9		446.4	162.5 162.8	35	502.7	183. 0	95	559.1	203.5
57	335.5	121.8	16 17	391.9	142. 6	76 77	447.3 448.2	163. 2	36 37	503.7 504.6	183. 3 183. 7	96 97	560, 0 561, 0	203. 8 204. 2
58	336.4	122.5	18	392. 8	143.0	78	449.2	163.5	38	505.5	184. 0	98	561.9	204. 2
59	337. 4	122.8	19	393. 7	143. 3	79	450. 1	163. 8	39	506.5	184.3	99	562.9	204. 9
60	338.3	123. 1	20	394.7	143. 7	80	451.1	164. 2	40	507.4	184.7	600	563. 8	205, 2
									l					
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
		-				700 /	1100 051	10 0000	`					

Page 572]

Dep. Dist. Lat.

Dist

Dist. Dep. Lat. Dist. Dep.

TABLE 2.

Dep. Dist.

Difference of Latitude and Departure for 21° (159°, 201°, 339°).

Lat. Dep. Dist.

Lat. Dep. Dist.

Dep.

Lat.

Dist.

Lat.

Dep.

Dep.

-															
ı	_				-0.0		2.11	130.0			200 0				
ı	1	0.9	0.4	61	56. 9	21. 9	121	113.0	43.4	181	169.0	64. 9	241	225.0	86.4
ı	3	1.9	0.7	62	57.9	22.2	22	113.9	43.7	82	169, 9	65. 2	42	225.9	86.7
1	3	2.8	1.1	63	58.8	22.6	23	114.8	44.1	83	170.8	65. 6	43	226.9	87.1
1	4	3.7	1.4	64	59.7	22.9	24	115. 8	44.4	84	171. S	65. 9	44	227.8	87.4
Ł															
1	5	4.7	1.8	65	60, 7	23. 3	25	116.7	44.8	85	172.7	66.3	45	228.7	87.8
1	- 6	5, 6	2. 2 2. 5	66	-61, 6	23.7	26	117.6	45.2	86	173.6	66. 7	46	229.7	88. 2
1	7	6.5	2.5	67	62.5	24.0	27	118.6	45, 5	87	174.6	67.0	47	230.6	88.5
1	8	7.5	2.9	68	63. 5	24.4	28	119.5	45, 9	88	175.5	67.4	48	231.5	85.9
Ł			5. 17									07. 4		201.0	00.9
ı	9	8.4	-3.2	69	64.4	24.7	29	120.4	46.2	89	176. 4	67.7	49	232.5	89.2
ı	10	9, 3	3, 6	70	65.4	25. 1	30	121.4	46.6	90	177.4	68.1	50	233.4	89.6
1	11	10, 3	$3.\overline{9}$	71	66, 3	25, 4	131	122.3	46.9	191	178.3	68.4	251	234.3	90.0
1		10, 5											201	204. 0	
1	12	11.2	4.3	72	67.2	25, 8	32	123.2	47.3	92	179, 2	68.8	52	235, 3	90.3
1	13	12.1	4.7	73	68.2	26, 2	33	124.2	47.7	-93	180, 2	69.2	53	236, 2	90.7
1	14	13, 1	5, 0	74	69. 1	26, 5	34	125.1	48.0	94	181.1	69.5	54	237. 1	91.0
1	15	14.0	5.4	75	70, 0	26, 9	35	126. 0	48.4	95	182.0	69, 9	55	238, 1	91.4
1						20, 9		120.0							
1	16	14. 9	5, 7	76	71.0	27. 2	- 36	127.0	48.7	-96	183.0	70.2	56	239, 0	91.7
1	17	15. 9	6.1	77	71.9	27, 6	37	127.9	49.1	97	183.9	70.6	57	239, 9	92.1
ı	18	16. S	6.5	78	72.8	28, 0	38	128.8	49.5	98	184.8	71.0	58	240.9	92.5
ı	19	17.7	6, 8	79	73. S	28.3	39	129. 8	49.8	99	185, 8	71.3	59	241. 8	92.8
1			0.5												
1	20	18.7	7.2	80	74.7	28.7	40	130.7	50, 2	200	186.7	71.7	60	242.7	93. 2
1	21	19.6	7.5	-81	75, 6	29, 0	141	131, 6	50, 5	201	187.6	72.0	261	243.7	93.5
ı	22	20. 5	7.9	82	76, 6	29, 4	42	132. 6	50.9	02	188.6	70 1	62	244.6	93. 9
ı				83		29. 7	43					72.4 72.7			
П	23	21.5	8, 2		77.5			133. 5	51.2	03	189, 5	12.1	-63	245.5	94. 3
1	24	22.4	8, 6	84	78.4	30, 1	44	134, 4	51.6	04	190.5	73. 1	64	246.5	94. 6
ı	25	23.3	9, 0	85	79.4	30, 5	45	135.4	52.0	05	191.4	73.5	65	247.4	95, 0
1	26	24.3	9, 3	86	80, 3	30, 8	46	136.3	52.3	-06	192.3	73:8	-66	248.3	95.3
Ł			9.7			21 9	47	137. 2	52.7	07	193. 3	74. 2	67	219.3	95.7
ı	27	25, 2		87	81. 2 82. 2	31. 2 31. 5		107.2				(4.2			
L	28	26.1	10.0	-88	82. 2		48	138, 2	53, 0	- 08	194. 2	74.5	68	250, 2	96.0
Ł	29	27. 1	10, 4	89	83. 1	31.9	49	139.1	53.4	-09	195. 1	74.9	69	251.1	96, 4
ı	30	28.0	10.8	90	84.0	32.3	50	140.0	53, 8	10	196, 1	75.3	70	252.1	96.8
1-															
ı	31	28.9	11.1	- 91	85.0	32. 6	151	141.0	54.1	211	197.0	75.6	271	253. 0	97.1
1	32	29, 9	11.5	92	85, 9	33, 0	52	141.9	54.5	12	197.9	76.0	72	253. 9	97.5
ı	33	30.8	11.8	-93	86, 8	33, 3	53	142.8	54.8	13	198.9	76.3	73	254.9	97.8
1		31.7	12. 2	94	87. 8	33, 7	54	143. 8	55, 2	14	199, 8	76. 7	74	255, 8	98.2
1	34		12.2						100.2				1.3		
ı	35	32. 7	12.5	95	88. 7	34, 0	55	144.7	55, 5	15	200.7	77.0	75	256, 7	98, 6
1	36	33.6	12.9	- 96	89, 6	34. 4	56	145. 6	55. 9	16	201.7	77.4	76	257. 7	98.9
1	37	34.5	13.3	97	90.6	34, 8	57	146, 6	56.3	17	202.6	77.8	77	258.6	99.3
ı				98	91.5	35, 1	58	147.5	56.6	18	203.5	78.1	78	259. 5	99. 6
П	38	35, 5	13, 6												
П	39	36.4	14.0	99	92.4	35, 5	-59	148.4	57.0	19	204.5	78.5	79	260.5	100.0
1	40	37.3	14.3	100	93.4	35, 8	60	149, 4	57.3	20	205.4	78.8	80	261.4	100.3
н		38, 3	14.7	101	94. 3	36, 2	161	150, 3	57. 7	221	206. 3	79. 2	281	262.3	100.7
1	41									1221					
1	42	39, 2	15. 1	02	95, 2	36, 6	62	151.2	58.1	22	207.3	79.6	82	263.3	101.1
П	43	40.1	15. 4	- 03	96, 2	36, 9	63	152.2	58.4	23	208, 2	79, 9	-83	264. 2	101.4
П	44	41.1	15. 8	04	97.1	37, 3	64	153.1	58, 8	24	209.1	80, 3	84	265.1	101.8
П	45	42.0	16. 1	05	98, 0	37. 6	65	154.0	59. 1	25	210.1	80.6	85	266. 1	102.1
ı														200, 1	102.1
ı	46	42.9	16, 5	- 06	99, 0	38, 0	- 66	155.0	59. 5	26	211.0	81.0	86	267.0	
1	47	43.9	16.8	-07	99, 9	38, 3	67	155, 9	-59.8	27	211.9	81.3	87	267.9	102.9
ł	48	44.8	17.2	08	100, 8	38.7	68	156, 8	60, 2	28	212.9	81.7	88	268.9	103. 2
П	49	45. 7	17. 6	09	101.8	39. 1	69	157.8	60, 6	29	213. 8	82.1	89	269, 8	103.6
П															
ı	50	46.7	17.9	_10	[102, 7]	39. 4	70	158.7	60, 9	30	214.7	82.4	90	270.7	103. 9
ľ	51	47.6	18.3	111	103.6	39, 8	171	159. 6	61.3	231	215.7	82.8	291	271.7	104.3
1	52	48.5	18.6	112	104, 6	40.1	72	160, 6	61. 6	32	216.6	83. 1	92	279 6	104.6
1							73				217.5			272.6 273.5	
ı	53	49.5	19.0	13	105, 5	40.5		161.5	62.0	- 33		83.5	93	210.0	105, 0
ı	54	50.4	19.4	14	106, 4	40.9	74	162.4	62. 4	34	218.5	83, 9	94	274.5	105, 4
1	55	51.3	19.7	15	107.4	41.2	75	163.4	62.7	35	219.4	84. 2	95	275, 4	105, 7
ı	56	52. 3	20, 1	16	108.3	41, 6	76	164.3	63, 1	36	220.3	84.6	96	276.3	106.1
1		50.0													
1	57	53. 2	20.4	17	109, 2	41.9	77	165, 2	63, 4	37	221.3	84.9	97	277.3	106.4
ı	58	54.1	20.8	18	110. 2	42.3	78	166. 2	63, 8	38	222. 2	85.3	98	278.2	106.8
ı	59	55. 1	21.1	19	111.1	42, 6	79	167. 1	64. 1	39	223.1	85.6	99	279.1	107. 2 107. 5
1	60	56.0	21.5	20	112.0	43. 0	80	168.0	64. 5	40	224.1	86, 0	300	280.1	107.5
1	00	1	21.17	1 -0	112.0	10.0		100.0		10	221.1	C.7. (7	,,,,,,	20. 1	
- 1)	1		1	+		1			1				

69° (111°, 249°, 291°).

Lat. Dist.

TABLE 2.

[Page 573

Difference of Latitude and Departure for 21° (159°, 201°, 339°).

											_ ′.	-		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	281.0	107. 9	361	337.0	129, 4	421	393, 0	150, 9	481	449. 0	172.4	541	505, 1	193, 9
02	281.9	108. 2	62	337. 9	129.7	22	394. 0	151. 2	82	450.0	172. 7	42	506.0	194. 2
03	282.9	108.6	63	338. 9	130. 1	23	394, 9	151.6	83	450. 9	173. 1	43	507.0	194.6
04	283. 8	108.9	64	339. 8	130. 4	24	395. 8	152.0	84	451.8	173.5	41	507.9	195.0
05	284.7	109.3	65	340. 7	130. 8	25	396. 8	152.3	85	452.8	173.8	45	508. 8	195.3
06	285. 7	109.7	66	341.7	131. 2	26	397.7	152.7	86	453.7	174. 2	46	509. 8	195. 7
07	236, 6	110.0	67	342.6	131, 5	27	398.6	153.0	87	454.6	174.5	47	510.7	196.0
08	287.5	110.4	68	343.5	131.9	28	399.6	153, 4	88	455.6	174.9	48	511.6	196, 4
09	288.5	110.7	79	344.5	132. 2	29	400.5	153.7	89	456. 5	175. 2	49	512, 6	196.8
10	289.4	111.1	70	345.4	132.6	30	401.4	154.1	90	457.4	175.6	50	513.5	197.1
311	290.3	111, 5	371	346.3	133.0	431	402.4	154.5	491	458.4	176.0	551	514.4	197.5
12	291.3	111.8	72 73	347.3	133. 3	32	403. 3	154. 8	92	459.3	176.3	52	515.4	197.8
13	292.2	112. 2	73	348. 2	133.7	33	404.2	155. 2	93	460.2	176.7	53	516.3	198. 2
14	293. 1	112.5	74	349.1	134.0	34	405. 2	155.5	94	461.2	177.0	54	517. 2	198.6
15	294.1	112.9	75	350. 1	134.4	35	406.1	155.9	95	462.1	177.4	- 55	518.2	198.9
16	295.0	113.2	76	351.0	134.7	36	407.0	156.3	96	463.0	177.8	56	519.1	199.3
17	295. 9	113.6	77	351, 9	135.1	37	408.0	156.6	97	464.0	178, 1	57	520.0	199.6
18	296. 9	114.0	78	352. 9	135.5	38	408.9	157.0	98	464. 9	178.5	58	521.0	200.0
19	297.8	114.3	79	353.8	135.8	39	409.8	157.3	99	465.8	178.8	59	521.9	200.3
20	298.7	114.7	80	354. 7	136. 2	40	410.8	157.7	500	466.8	179.2	60	522.8	200.7
321 22	299.7	115.0	381	355.7	136. 5	441	411, 7	158.0	501	467.7	179.5	56I	523.8	201.0
.).)	300.6	115.4	82	356.6	136. 9	42	412.6	158. 4	02	468. 6	179.9	62	524.7	201.4
23	301.5	115.8	83	357.5	137.3	43	413.6	158.8	03	469.6	180.3	63	525.6	201.8
24	302.5	116.1	84	358.5	137.6	44	414.5	159.1	04	470.5	180.6	64	526.6	202. 1
25	303.4	116.5	85	359.4	138.0	45	415.4	159.5	05	471.5	181.0	65	527.5	202.5
26 27	304.3	116.8	86	360.3	138. 3	46	416 4	159.8	-06	472.4	181.3	- 66	528.4	202.8
27	305.3	117.2	87	361.3	138. 7	47	417.3	160.2	07	473.3	181.7	67	529.4	203. 2
28	306.2	117.5	88	362. 2	139.1	48	418.2	160.5	08	474.3	182.0	68	530. 3	203.5
29	307. 1	117.9	89	363.1	139. 4	49	419.2	160.9	09	475. 2	182.4	69	531. 2	203.9
30	308. 1	118.3	90	364.1	139.8	50	420.1	161.3	10	476.1	182.8	70	532, 2	204.3
331	309.0	118.6	391	365.0	140.1	451	421.0	161.6	511	477.1	183.1	571	533. 1	204.6
32	309.9	119.0	92	365.9	140.5	52	422.0	162.0	12	478.0	183. 5	72	534.0	205. 0
33	310.9	119.3	93	366. 9	140.8	53	422.9	162.3	13	478.9	183.8	73	535.0	205, 4
34	311.8	119.7	94	367.8	141.2	54	423.8	162.7	14	479.9	184.2	74	535.9	205.7
35	312.7	120.1	95	368. 7	141.6	55	424.8	163.1	15	480.8	184.6	75	536, 8	206. 1
36 37	313. 7 314. 6	120. 4 1120. 8	96 97	369. 7 370. 6	141.9 142.3	56	425.7	163.4	16 17	481.7 482.7	184.9	76 77	537. 8 538. 7	206. 4 206. 8
38	315.5	121.1	98	371.5	142. 6	57 58	426. 6 427. 6	163. 8 164. 1	18	483.6	185. 3 185. 6	78	539.6	200. 8
39	316.5	121.5	99	270.5	143.0	59	428.5	164.5	19	484.5	186. 0	79	540.6	207. 5
40	317. 4	121.8	400	$372.5 \\ 373.4$	143.4	60	429.4	164.9	20	485, 5	186.4	80	541.5	207. 9
341	318.3	122.2	401	374.3	143.7	461	430.4	165. 2	521	486.4	186.7	581	542.4	208. 2
42	319.3	122.6	02	375.3	144.1	62	431.3	165. 6	22	487.3	187. 1	82	543.4	208.6
43	320. 2	122.9	03	376. 2	144. 4	63	432. 2	165.9	23	488.3	187.4	83	544.3	208. 9
44	321. I	123, 2	03	377.1	144. 8	64	433. 2	166. 3	24	489.2	187.8	84	545. 2	209.3
45	322.1	123. 6	05	378. 1	145, 1	65	434.1	166.6	25	490.1	188.1	85	546. 2	209.6
46	323. 0	124.0	06	379.0	145, 5	66	435. 0	167. 0	26	491. 1	188.5	86	547.1	210.0
47	323. 9	124. 4	07	379. 9	145.9	67	436.0	167.4	27	492.0	188. 9	87	548.0	210. 4
48	324. 9	124.7	08	380. 9	146. 2	68	436. 9	167. 7	28	492.9	189. 2	88	549.0	210.7
49	325. 8	125. 1	-09	381.8	146.6	69	437. 8	168.1	29	493.9	189, 6	89	549.9	211.1
50	326.7	125.4	10	382.7	146.9	70	438.8	168.4	30	494.8	189. 9	90	550.8	211.4
351	327.7	125.8	411	383.7	147.3	471	439.7	168.8	531	495.7	190.3	591	551.8	211.8
52	328. 6	126. 1	12	384.6	147.7	72	440.6	169.2	32	496.7	190.7	92	552.7	212. 2
53	329.5	126, 5	13	385. 5	148.0	73	441.6	169.5	33	497.6	191.0	93	553. 6	212.5
54	330.5	126.9	14	386.5	148.4	74	442.5	169.9	34	498.5	191.4	94	554.6	212. 9
55	331.4	+127.2	15	387.4	148.7	75	443.4	170.2	35	499.5	191.7	95	555, 5	213. 2
56	332. 3	127.6	16	388, 4	149.1	76	444.4	170.6	- 36	500.4	192.1	- 96	556.4	213, 6
57	333. 3	127.9	17	389, 3	149.4	77	445.3	170.9	37	501.3	192.4	97	557.4	213.9
58	334. 2	128.3	18	390, 2	149, 8	78	446. 2	171.3	38	502.3	192.8	- 98	558.2	214.3
59	335. 1	128.7	19	391.2	150. 2	79	447. 2	171.7	39	503. 2	193.2	99	559. 2	214.7
60	336. 1	129.0	20	392.1	150.5	80	448.1	172.0	40	504. 1	193, 5	600	560, I	215.0
												_		
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
-						59° (1	11°, 249	°, 291°)					
					,	11 00	11, 477	, -01	1 -					

69° (111°, 249°, 291°).

Page 574]

TABLE 2.

Difference of Latitude and Departure for 22° (158°, 202, 338°).

									(,	-,	,-		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lut.	Dep.
1	0.9	0.4	61	56, 6	22. 9	121	112. 2	45, 3	181	167.8	67.8	241	223. 5	90. 3
$\frac{1}{2}$	1. 9	0.7	62	57. 5	23. 2	22	113. 1	45. 7	82	168.7	68. 2	42	224. 4	90.7
g	2.8	1.1	63	58, 4	23.6	23	114.0	46.1	83	169.7	68.6	43	225. 3	91.0
4	3.7	1.5	64	59.3	24.0	24	115.0	46.5	84	170.6	68.9	44	226. 2	91.4
5	4.6	1.9	65	60.3	24.3	25	115.9	46.8	-85	171.5	69.3	45	227. 2	91.8
6	5.6	2.2	- 66	61. 2	24.7	26	116.8	47.2	- 86	172. 5	69.7	46	228. 1	92. 2
7	6, 5	2.6	67	62. 1	25. 1	27	117.8	47.6	87	173.4	70. 1	47	229.0	92.5
- 8	7.4	3.0	68	63. 0	25, 5	28	118.7	47. 9	- 88	174.3	70.4	48	229, 9	92. 9
9	8, 3	3.4	69	64. 0	25, 8	29	119.6	48, 3	89	175. 2	70.8	49	230. 9	93.3
10	9.3	3.7	_70	64. 9	26. 2	30	120.5	48.7	90	176, 2	71.2	50	231.8	93. 7
11	10, 2	4. 1	71	65. 8	26.6	131	121.5	49. 1	191	177.1	71.5	251	232. 7	94.0
12 13	11.1	4.5	72 73	66. 8 67. 7	27.0	32	122. 4	49.4	92	178.0	71.9	52	233. 7	94.4
	12. 1	4. 9	73	67. 7	27. 3	33	123.3	49.8	- 93	178.9	72.3	53	234. 6	94. 8
14	13. 0	5.2	74	68, 6	27.7	34	124.2	50. 2	94	179. 9	72.7	54	235.5	95.2
15	13.9	5.6	75	69. 5	28. 1	35	125.2	50.6	95	180.8	73.0	55	236, 4	95. 5
16	14.8	6, 0	76	70. 5	28.5	36	126. 1	50.9	96	181.7	73. 4	56	237. 4	95.9
17	15. 8	6.4	77	71.4	28.8	37	127. 0	51.3	97	182.7	73.8	57	238, 3	96.3
18	16. 7	6.7	78	72.3	29. 2	38	128. 0	51.7	98	183.6	74.2	58	239. 2	96.6
19	17.6	7. 1	79	73. 2	29.6	39	128. 9	52.1	99	184.5	74.5	59	240. 1	97.0
20	$-\frac{18.5}{10.5}$	$-\frac{7.5}{7.6}$	80	74.2	30, 0	40	129, 8	52.4	200	185.4	74.9	60	241.1	97. 4
21 22	19. 5	7. 9	81	75.1	30. 3	141	130. 7	52.8	201	186. 4	75.3	261	242.0	97. 8
22	$\frac{20.4}{21.3}$	8, 2 8, 6	82 83	76. 0 77. 0	30.7	42	131.7	53, 2	02	187.3	75. 7	62 63	242.9	98.1
24	22.3	9, 0	84	77.9	31. 1	43 44	132, 6 133, 5	53. 6 53. 9	03	188. 2	76, 0 76, 4	64	243. 8 244. 8	98. 5 98. 9
25	23. 2	9, 4	85	78.8	31.8	45	134. 4	54.3	05	189, 1 190, 1	76.8	65	245. 7	99.3
26	24. 1	9. 7	86	79.7	32. 2	46	135, 4	54.7	06	191.0	77. 2	66	246.6	99.6
27	25. 0	10.1	87	80. 7	32, 6	47	136.3	55. 1	07	191. 9	77. 5	67	247. 6	100.0
28	26, 0	10.5	88	81.6	33. 0	48	137. 2	55.4	08	192. 9	77. 9	68	248.5	100.4
29	26. 9	10. 9	89	82, 5	33. 3	49	138, 2	55, 8	-09	193, 8	78.3	69	249, 4	100.8
30	27.8	11.2	90	83.4	33. 7	50	139.1	56. 2	10	194.7	78.7	70	250.3	101.1
31	28.7	11.6	-91	84, 4	34. 1	151	140.0	56, 6	211	195, 6	79. 0	271	251.3	101.5
32	29.7	12.0	92	85, 3	34.5	52	140.9	56, 9	12	196, 6	79.4	72	252. 2	101.9
33	30.6	12. 0 12. 4	93	86, 2	34.8	53	141.9	57.3	13	197.5	79.8	72 73	252. 2 253. 1	102. 3
34	31.5	12.7	94	87. 2	35, 2	54	142.8	57.7	14	198. 4	80, 2	74	254.0	102.6
35	32.5	13. 1	95	88. 1	35. 6	55	143.7	58, 1	15	199.3	80.5	75	255.0	103.0
36	33.4	13.5	96	89.0	36, 0	56	144.6	58, 4	16	200.3	80, 9	76	255, 9	103. 4
37	34.3	13. 9	97	89. 9	36.3	57	145.6	58.8	17	201. 2	81.3	77 78	256. 8	103.8
38	35, 2	14. 2	98	90. 9	36, 7	58	146, 5	59. 2	18	202.1	81.7	78	257.8	104.1
39	36, 2	14.6	99	91.8	37.1	59	147.4	59.6	19	203. 1	82.0	79	258.7	104.5
40	37.1	15. 0	100	92. 7	37.5	_60_	148.3	59.9	_ 20	204. 0	82.4	_80	259.6	104. 9
41	38.0	15, 4	101	93, 6	37.8	161	149.3	60. 3	221	204.9	82.8	281	260. 5	105.3
42	38, 9	15. 7	02	94, 6	38, 2	62	150. 2	60.7	22	205. 8	83, 2	82	261.5	105.6
43	39. 9	16.1	03	95.5	38. 6	63	151.1	61.1	23	206.8	83. 5	83	262. 4	106.0
44 45	$\frac{40.8}{41.7}$	16.5	04	96. 4 97. 4	39. 0	64 65	152. 1 153. 0	61.4 61.8	24 25	207. 7 208. 6	83, 9 84, 3	84 85	263. 3 264. 2	106.4 106.8
46	42.7	16, 9 17, 2	05 06	98.3	39, 3 39, 7	66 66	153. 9	62. 2	25 26	208.6	84. 7	86	265, 2	100. 8
47	43.6	17. 6	07	99. 2	40.1	67	154. 8	62.6	27	210.5	85.0	87	266. 1	107.5
48	44.5	18.0	08	100. 1	40.5	68	155. 8	62. 9	28	211.4	85.4	88	267. 0	107. 9
49	45. 4	18. 4	09	101. 1	40.8	69	156.7	63, 3	29	212.3	85.8	89	268.0	108, 3
50	46. 4	18. 7	10	102.0	41.2	70	157.6	63. 7	30	213. 3	86. 2	90	268.9	108.6
51	47.3	19. 1	111	102.9	41.6	171	158, 5	64. 1	231	214. 2	86.5	291	269, 8	109.0
52	48, 2	19.5	12	103, 8	42.0	72	159. 5	64. 4	32	215. 1	86. 9	92	270.7	109. 4
53	49, 1	19.9	13	104.8	12.3	73	160, 4	64. 8	33	216.0	87.3	93	271.7	109.8
54	50.4	20. 2	14	105, 7	42.3 42.7	74	161.3	65. 2	34	217.0	87.7	94	$272.6 \\ 273.5$	110.1
55	51.0	20, 6	15	106, 6	43. 1	75	162.3	65, 6	35	217. 9	88. 0	95	273.5	110.5
-56	51.9	21.0	16	107. 6	43, 5	76	163. 2	65, 9	36	218.8	88.4	96	274.4	110.9
57	52.8	21.4	17	108, 5	43, 8	77	164, 1	66. 3	37	219. 7	88.8	97	275.4	111.3
58	53, S	21.7	18	109. 4	41.2	78	165. 0	66, 7	38	220. 7	89. 2	98	276.3	111.6
59	54.7	22. 1	19	110.3	44.6	79	166.0	67. I	39	221.6	89.5	99	277. 2	112.0
60	55, 6	22. 5	20	111.3	45.0	80	166, 9	67.4	40	222, 5	89, 9	300	278. 2	112.4
			-		-									
Dist.	Dep.	Lat.	Dist.	Dep.	Lat	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lut.
						nuo i	112°, 24	go espe	0)					
						UO .	1 1	n	1.					

-68° (112°, 248°, 292°).

Difference of Latitude and Departure for 22° (158°, 202°, 338°).

									,	,				
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	279. 1	112.7	361	334.7	135. 2	421	390.3	157, 7	481	446, 0	180, 2	541	501.6	202.7
02	280, 0	113.1	62	335, 6	135, 6		391.3	158, 1	82	446, 9	180.6	42	502.5	203, 1
-03	280, 9	113.5	63	336, 6	136.0	23	392. 2	158, 4	- 83	447.8	180, 9	43	503.4	203.5
-04	281.9	113.9	64	337.5	136. 3	24	393, 1	158, 8	84	448.8	181.3	44	504.4	203, 8
-05	282. 8	114.2	- 65	338, 4	136. 7	25	394.1	159, 2	- 85	449.7	181.7	45	505, 3	204. 2
- 06	283, 7	114.6	-66	339.3	137. 1	26	395, 0	159, 6	86	450.6	182.1	46	506.2	204.6
07	284.6	115.0	67	340, 3	137.5	27	395, 9	159.9	87	451, 6	182.4	47	507. 2	205.0
08	285, 6	115.4	68	341.2	137.8	28	396, 8	160.3	88	452.5	182, 8	48	508.1	205.3
09	286.5	115.7	69	342.1	138. 2	29	397.8	160.7	89	453. 4	183, 2	49	509.0	205.7
10	287.4	116. 1	70	343, 1	138.6	_30_	398, 7	161.1	90	454.3	183.6	_ 50	510.0	206.1
311	288. 4 289. 3	116.5	371	344.0	139, 0	431	399, 6	161.4	491	455.3	184.0	551	510, 9	206.5
12 13	289. 3	116. S 117. 2	72 73	344.9	139.3 139.7	32 33	400, 5	161. 8 162. 2	92 93	456.2 457.1	184.3 184.7	52	511, 8 512, 7	206.8
14		117. 6	74	346.8	140, 1	34	402, 4	162.6	94	458.0	185, 1	53 54	513, 6	207. 2
15	292. 1	118.0	75	347.7	140.5	35	403, 3	162.9	95	459.0	185, 4	55	514.6	208. 0
16	293. 0	118.3	76	348.6	140.8	36	404.3	163. 3	96	459. 9	185, 8	56	515.5	208.3
17	293. 9	118.7	77	349.5	141, 2	37	405. 2	163.7	97	460, 8	186. 2	57	516.4	208.7
18	294.8	119.1	78	350.5	141.6	38	406, 1	164.1	98	461.8	186.6	58	517.4	209.1
19	295.8	119.5	79	351.4	141.9	39	407.0	164.4	99	462.7	186. 9	59	518.3	209.4
20	296, 7	119.8	80	352.3	142.3	40	408.0	164.8	500	463.6	187.3	60	519, 2	209.8
321	297.6	120, 2	381	353, 3	142.7	441	408.9	165.2	501	464.5	187.7	561	520. 1	210, 2
22	298.6	120, 6	82	354. 2	143.1	42	409.8	165, 5	02	465.4	188, 0	62	521.0	210.5
23	299.5	121.0	83	355.1	143.4	43	410.7	165. 9	03	466, 4	188.4	-63	522. 0	210.9
24	300, 4	121.3	84	356, 0	143.8	44	411.7	166.3	04	467.3	188, 8	64	522. 9	211.3
25	301.3	121.7	85	357.0	144. 2	45	412.6	166.7	05	468.2	189, 2	65	523.8	211.7
26	302.3	122.1	86	357. 9	144.6	46	413, 5	167.0	-06	469.2	189, 5	- 66	524. S	212.0
27 28	303. 2	122.5	87	358.8	144.9	47	414.5	167.4	07	470.1	189, 9	67	525.7	212.4
28 29	304. 1 305. 0	122.8	88 89	359.7	145.3 145.7	48	415.4	167. 8 168. 2	08 09	471.0	190.3	68	526.6	212.8
30	306. 0	123. 2 123. 6	90	360. 7 361. 6	146.1	49 50	$\frac{416,3}{417,2}$	168. 5	10	471.9 472.9	190.7 191.1	69 70	527.5 528.5	213. 2 213. 5
331	306, 9	124.0	391	362, 5	146.4	451	418.2	168, 9	511	473.8	191.4	571	529.4	213.9
32	307. 8	124.3	92	363.5	146.8	52	419. 1	169.3	12	474.7	191. 8	72	530.3	214.3
33	308.8	124.7	93	364.4	147. 2	53	420.0	169.7	13	475.6	192. 2	73	531, 2	214. 7
34	309. 7	125.1	94	365.3	147. 6	54	420.9	170.0	14	476.6	192.5	74	532.2	215.0
35	310.6	125.5	95	366, 2	147.9	55	421.9	170.4	15	477.5	192.9	75	533.1	215.4
36	311.5	125.8	96	367. 2	148.3	56	422.8	170.8	16	478.4	193.3	76	534.0	215.8
37		126.2	97	368.1	148.7	57	423, 7	171.2	17	479.3	193.7	77	534. 9	216.2
38	313.4	126.6	98	369, 0	149.1	58	424.6	171.5	18	480.3	194.0	78	535. 9	216.5
39	314.3	127.0	99	369, 9	149, 4	59	425.6	171.9	19	481.2	194.4	79	536.8	216.9
40	315. 2	127.3	400	370.9	149. 8	60	426.5	172.3	_20_	482.1	194.8	80	537.7	217.3
341	316. 2	127.7	401	371.8	150. 2	461	427. 4	172.7	521	483.0	195.2	581	538.6	217.7
42	317.1	128.1	02	372. 7	150.6	62	428.4	173.0	22	484.0	195.5	82	539. 6	218.0
43 44	318.0	128.5 128.8	03 04	373, 7	150.9	63	429.3	173.4 173.8	23 24	484.9	195. 9	83	540.5	218.4
45	319, 0 319, 9	128.8. 129.2	05	$374.6 \\ 375.5$	151.3 151.7	64 65	430. 2 431. 1	$173.8 \\ 174.2$	25	485. 8 486. 7	196.3 196.7	84 85	541. 4 542. 4	218.8 219.2
46	320, 8	129.2 129.6	06	376.4	152. 1	66	432.1	174.5	$\frac{26}{26}$	487.7	196.7	86	543.3	219. 2
47	3217	130. 0	07	377.4	152. 4	67	433.0	174. 9	27	488.6	197.4	87	544. 2	219. 9
48	322.7	130.3	08	378.3	152. 8	68	433. 9	175.3	28	489.5	197. 8	88	545.1	220. 3
49	323.6	130.7	09	379.2	153, 2	69	434.8	175. 7	29	490.4	198. 2	89	546, 1	220.7
50	324.5	131.1	10	380.1	153.6	70	435.8	176.0	30	491.4	198.5	90	547.0	221.0
351	325. 4	131.5	411	381.1	153.9	471	436.7	176, 4	531	492.3	198.9	591	547.9	221.4
52	326.4	131, 8	12	382.0	154.3	72	437.6	176.8	32	493. 2	199.3	92	548.9	221.8
53	327.3	132. 2	13	382.9	154.7	73	438.6	177. 2	33	494.2	199.7	-93	549.8	222. 2
54	328. 2	132.6	14	383, 9	155.1	74	439.5	177.5	34	495, 1	200.0	94	550. 7	222.5
55	329. 2	133.0	15	384, 8	155. 4	75	440.4	177.9	35	496. 0	200.4	95	551.7	222.9
56	330.1	133.3	16	385.7	155. 8	76	441.3	178.3	36	496. 9	200. 8	96	552.6	223. 3
57	331.0	133.7	17	386, 6	156. 2	77	442.3	178.7	37	497.9	201. 2	97	553.5	223.7
58 59	332, 0 332, 9	134. 1 134. 5	18 19	387.6 388.5	156, 6 156, 9	78 79	443. 2 444. 1	179.0. 179.4	38 39	498. 8 499. 7	201. 5	98 99	554.4	224. 0 224. 4
60	333. 8	134. 8	20	389.4	157. 3	80	445.0	$179.4 \\ 179.8$	40	500.7	201. 9 202. 3	600	555, 4 556, 3	224.4
30	000. O	104.0	-0	0001 T	194.0	- 00	T19. W	1117.0	10	300.1		O.A.	0001.0	~~1. O
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
-/ tot.	Dep.	Dat.	******	rich	Late.	27150.		AJANT,	2,100	Dep.	Litt.	IMPL.	pep.	Lat.
						200 /11	100 010	0 0000	\					

68° (112°, 248°, 292°).

TABLE 2.

Difference of Latitude and Departure for 23° (157°, 203°, 337°).

!											- ,	7.		
Dist.	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0, 9	0.4	61	56. 2	23. 8	121	111.4	47.3	181	166. 6	70.7	241	221, 8	94. 2
2	1.8	0, 8	62	57.1	24. 2	22	112. 3	47.7	82	167.5	71.1	42	222.8	94.6
3	2.8	1.2	63	58, 0	24.6	23	113. 2	48.1	83	168.5	71.5	43	223, 7	94.9
-4	3.7	1.6	64	58.9	25.0	24	114.1	48, 5	84	169. 4	71.9	44	224.6	95.3
- 6	4, 6	-2.0	65	59.8	25, 4	25	115.1	48.8	85	170.3	72.3 72.7	45	225.5	95.7
- 6	5.5	2.3	66	60.8	25.8	26	116.0	49. 2	86	171. 2	72.7	46	226. 4	96.1
7	6, 4	2.7	67	61.7	26. 2	27	116.9	49.6	87	172.1	73.1	47	227.4	96.5
- 8	7.4	3.1	68	62. 6	26.6	28	117.8	50, 0	88	173.1	73.5	48	228.3	96. 9
- 9	8.3	3.5	69	63, 5	27.0	29	118.7	50.4	89	174.0	73.8	49	229, 2	97.3
10	9. 2	3.9	70	64.4	27.4	30	$_{119.7}$	50.8	90	174.9	74.2	_50	230, 1	97.7
11	10.1	4.3	71	65. 4	27.7	131	120.6	51.2	191	175. 8	74.6	251	231.0	98.1
12	11.0	4.7	72	66.3	28, 1	32	121.5	51.6	92	176. 7	75, 0	52	232.0	98.5
13	12.0	5.1	73	67.2	28.5	33	122. 4	52.0	- 93	177.7	75.4	53	232.9	98.9
14	12.9	5, 5	74	68.1	28. 9	34	123.3	52.4	94	178.6	75.8	54	233.8	99, 2
15	13.8	5.9	75	69, 0	29.3	35	124.3	52.7	95	179.5	76.2	55	234.7	99.6
16	14.7	6.3	76	70.0	29.7	36	125. 2	53.1	96	180. 4	76.6	56	235.6	100.0
17	15, 6	6.6	77	70.9	30.1	37	126.1	53. 5	97	181.3	77.0	57	236.6	100, 4
18	16. 6	7.0	78	71.8	30.5	38	127.0	53.9	98	182.3	77.4	58	237.5	100.8
19	17.5	7.4	79	72.7	30, 9	39	128.0	54.3	99	183. 2	77.8	59	238.4	101.2
_20	_18.4_	_7.8	_80	73.6	31.3	40	128, 9	54.7	200	184.1	78.1	60	239. 3	101.6
21	19.3	8.2	81	74.6	31.6	141	129.8	55. 1	201	185.0	78.5	261	240.3	102.0
22	20, 3	8, 6	82	75, 5	32.0	42	130.7	55.5	02	185.9	78.9	62	241.2	102.4
23	21. 2	9.0	83	76.4	32.4	43	131.6	55, 9	03	186.9	79.3	63	242.1	102.8
24	22.1	9, 4	84	77.3	32.8	44	132.6	56.3	04	187.8	79.7	64	243.0	103. 2
25	23.0	9, 8	85	78.2	33, 2	45	133.5	56.7	05	188.7	80. 1	65	243.9	103.5
26	23, 9	10, 2	86	79.2	33.6	46	134. 4	57.0	06 07	189.6	80.5	66 67	244. 9 245. 8	103. 9 104. 3
27 28	24.9	10.5	87	80. 1 81. 0	34. 0 34. 4	47 48	135, 3 136, 2	57.4 57.8	08	190, 5 191, 5	80.9	68	246. 7	104. 7
28	25. 8 26. 7	10.9 11.3	88 89	81.9	34. 8	49	137. 2	58. 2	09	192.4	81.7	69	247.6	105. 1
30	27, 6	11. 7	90	82.8	35. 2	50	138. 1	58.6	10	193.3	82. 1	70	248.5	105. 5
	28.5	12.1	91	83.8	35, 6	151	139. 0	59. 0	211	194.2	82.4	271	249.5	105, 9
31	28. 5	12. 1	91	84.7	35, 9	52	139. 9	59, 4	12	195, 1	82.8	70	250.4	106.3
32 33	30. 4	12. 9	93	85, 6	36, 3	53	140, S	59, 8	13	196, 1	83. 2	72 73	251.3	106. 7
34	31.3	13, 3	94	86.5	36. 7	54	141.8	60.2	14	197. 0	83.6	74	252.2	107. 1
35	32. 2	13. 7	95	87.4	37. 1	55	142.7	60.6	15	197. 9	84.0	75	253. 1	107.5
36	33. 1	11.1	96	88, 4	37.5	56	143.6	61.0	16	198, 8	84.4	76	254, 1	107.8
37	31.1	11.5	97	89, 3	37.9	57	144.5	61.3	17	199.7	84.8	77	255. 0	108.2
38	35, 0	14.8	98	90, 2	38.3	58	145.4	61.7	18	200, 7	85, 2	78	255. 9	108.6
39	35, 9	15.2	99	91, 1	38.7	59	146.4	62.1	19	201.6	85, 6	79	256, 8	109.0
40	36, 8	15, 6	100	92.1	39, 1	60	147.3	62.5	20	202.5	86.0	80	257.7	109.4
41	37. 7	16.0	101	93, 0	39. 5	161	148.2	62.9	221	203.4	86.4	281	258.7	109.8
42	38, 7	16, 4	02	93.9	39. 9	62	149, 1	63, 3	22	201.4	86, 7	82	259, 6	110.2
43	39, 6	16.8	03	94.8	40.2	-63	150, 0	63.7	23	205.3	87.1	-83	260.5	110.6
44	40, 5	17.2	-04	95. 7	40, 6	64	151, 0	64.1	24	206, 2	87.5	84	261.4	111.0
45	41.4	17.6	-05	96.7	41.0	65	151.9	64, 5	25	207. 1	87. 9	85	262.3	111.4
46	42, 3	18, 0	-06	97. 6	41.4	-66	152.8	64. 9	26	208, 0	88.3	86	263. 3	111.7
47	43, 3	18.4	07	98, 5	41.8	67	153.7	65, 3	27	209, 0	88.7	87	264. 2	112.1
48	44, 2	18, 8	08	99, 4	42. 2	68	154.6	65.6	28 29	209. 9	89. 1	88	265.1 266.0	112.5
49	45, 1	19, 1	- 09	100, 3	42, 6	69	155, 6	66, 0	30	210.8	89, 5	89		112.9 113.3
_50	46, 0	19, 5	10	101.3	43, 0	70	156, 5	66, 4		211.7	89.9	90	266, 9	
51	46. 9	19, 9	111	102, 2	43.4	171	157. 4	66.8	231	212.6	90. 3	291	267. 9	113, 7
52	47. 9	20, 3	12	103.1	43.8	72 73	158.3	67. 2	32 33	213.6	90, 6 91, 0	92 93	268, 8 269, 7	114. 1 114. 5
53	48. 8	20, 7	13	104.0	44.2	43	159, 2	67.6	34	214.5 215.4	91.4	94	270. 6	114. 9
54 55	49. 7 50. 6	21.1	14 15	104. 9 105. 9	44.5	74 75	160, 2 161, 1	68, 0 68, 4	35	216.3	91.3	95	271.5	115.3
56	51.5	$\frac{21.5}{21.9}$	16	105. 9	45, 3	76	162. 0	68, 8	36	217. 2	92. 2	96	272.5	115.7
57	51. 5 52. 5	22.3	17	106. 8	45.7	77	162. 9	69, 2	37	218, 2	92.6	97	273, 4	116, 0
58	53, 4	00.7	18	107.7	46. 1	78	163, 8	69, 6	38	219, 1	93. 0	98	274. 3	116, 4
59	54. 3	23. 1	19	109, 5	46, 5	79	164. 8	69, 9	39	220.0	93, 4	99	275. 2	116.8
60	55, 2	23.4	20	110.5	46. 9	80	165, 7	70.3	40	220, 9	93, 8	300	276. 2	117. 2
```		200												
Dist.	Dep.	Lat	Dist.	Dep.	Lat.									
-									-	-	-	·		
						67° ()	13°, 247	P, 2939	).					
l														

Difference of Latitude and Departure for 23° (157°, 203°, 337°).

	-	- Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
Dist.	Lat.	Treb.	15.81.	Lat.	. ——	Dist.	Lat.	Dep.	THEE.	THE.	- Deb.	mst.	Latet.	Dep.
301	277. 1	117, 6	361	332. 3	141.1	421	387.5	164.5	451	442.7	188, 0	541	498, 0	211.4
02	278.0	118.0	62	333. 2	141.5	22	388, 5	164. 9	82	443.7	188, 4	42	498, 9	211.8
03	278. 9	118.4	63	334.1	141.8	23	389. 4	165, 3	-83	444.6	188, 8	43	499, 8	212. 2
0.1	279.8	118.8	64	335, 1	142. 2	24	390, 3	165, 7	84	445, 5	189, 2	44	500, 7	212.6
05	250, 5	119.2	65	336, 0	142.6	25	391.2	166, 1	85	446, 4	189, 5	45	501.7	213.0
()G	281.7	119, 6	66	336, 9	143.0	26	392. 1	166, 5	86	447.3	189, 9	46	502.6	213. 4
07	282.6	120, 0	67	337. 8	143.4	27	393.1	166, 8	87	448.3	190.2	47	503, 5	213, 8
08	2×3.5	120, 4	68	338.7	143.8	28	394.0	167, 2	88	449.2	190, 6	48	504, 4	214.2
09	284.4	120, 8	69	339.7	144.2	29	394.9	167.6	89	450, 1	191, 0	49	505. 3	214.6
10	285, 4	121.2	70	340.6	144.6	30	395, 8	168, 0	90	451.0	191.4	50	506, 3	215. 0
311	286, 3	121.6	:171	341.5	145, 0	431	396, 7	168, 41	491	451.9	191.8	551	507, 2	215.3
12	287. 2	121.0	72	342, 4	145, 4	32	397.7	168, 8	92	452. 9	192, 2	52	508. 1	215, 6
13	288, 1	122.3	73	343, 4	145, 7	33	398. 6	169, 2	93	453, 8	192.6	53	509.40	216, 0
14	259.0	122. 7	7.4	344.3	146, 1	34	399, 5	169, 6	94	454.7	193, 0	54	509, 9	216, 4
15	290.0	123. 1	75	345. 2	146, 5	35	400.4	170, 0	95	455, 6	193. 4	55	510.9	216, 8
16	290, 9	123.5	76	346.1	146, 9	- 36	401.3	170.4	96	456, 6	193, 8	56	511. S	217. 2
17	291, 8	123.9	77	347. 0	147.3	37	402.3	170.83	97	457.5	194.2	57	512.7	217.6
18	292.7	124.3	78	348, 0	147.7	38	403.2	171.1	98	458, 4	194.6	58	513.6	218.0
19	293.6	124.6	79	348.9	145.1	-39	404.1	171.5	99	459, 3	195, 0	59	514.5	218, 4
20	294, 6	125.0	80	349, 8	148, 5	40	405, 0	171.9	500	460.2	195.4	-60	515, 5	218, 8
321	295, 5	125, 4	381	350.7	148.9	441	405.9	172.3	501	461.2	195, 8	561	516.4	219. 2
•)•)	296, 4	125. 8	82	351.6	149.3	42	406.9	172.7	02	462.1	196, 2	62	517.3	219, 6
23	297. 3	126, 2	83	352. 6	149.7	43	407.8	173.1	03	463, 0	196.6	63	515.2	220.0
24	294, 2	126, 6	54	353, 5	150, 0	44	408.7	173.5	04	463, 9	197.0	64	519, 2	220.4
25	299, 2	127.0	85	354.4	150, 4	45	409.6	173.9	05	464. 9	197.4	65	520, 1	220, 8
26	300, 1	127.4	86	355, 3	150.8	46	410.5	174.3	06	465, 8	197.8	66	521.0	221.2
27	301.0	127.8	87	356.2	151, 2	47	411.5	174.7	-07	466.7	198.1	-67	521.9	221, 6
28	301.9	128.2	88	357. 2	151.6	48	412.4	175.1	08	467.6	198, 5	68	522, 8	222, 0
29	302. 8	128.6	89	358.1	152.0	49	413.3	175.4	J 09	468, 5	198, 8	69	523.8	222, 3
30	303, 8	128, 9	90	359, 0	152.4	50	414.2	175.8	10	-469, 5	199.3	70	524.7	222. 7
331	304.7	129.3	391	359.9	152.8	451	415, 2	176. 2	511	470.4	199, 7	571	525, 6	223. 1
32	305, 6	129.7	92	360.8	153. 2	52	416.1	176.6	12	471.3	200.0	72	-526.5	223. 4
33	306, 5	130.1	93	361.8	153.6	53	417.0	177.0	13	472.2	200, 4	73	527.4	223, 8
34	307.5	130, 5	94	362.7	154.0	54	417.9	177.4	14	473.1	200, 8	74	528.4	224. 2
35	308.4	-130, 9	95	363.6	154.3	55	418.8	177.8	15	474.0	201.2	75	529.3	224.6
36	309.3	131.3	96	364.5	154.7	-56	419.8	178.2	16	475, 0	201.6	76	530, 2	225.0
37	310.2	131.7	97	365.4	155.1	57	420.7	178, 6	17	475.9	202.0	77	531.1	225, 4
38	311.1	132.1	98	366. 4	155. 5	58		, 179, 0	18	476.8	202.4	78	532, 0	225, 8
39	312.1	132.5	-99	367.3	155. 9	59		179, 4	19	477.7	202.8	79	533.0	226. 2
40		132.9	400	368, 2	156.3	-60		[179, 7]	20	478.6	203.2	-80	533, 9	226, 6
341	013.9	133. 2	401	369.1	156. 7	461	424.4	180.1	521	479, 6	203.6	581	534, S	227.0
42	314. 8	-133, 6	-02	370, 0	157.1	62	425.3	180.5	20	480, 5	204.0	82	535, 7	227.4
43	315.7	-134.0	-03	371.0	157. 5	63	426, 2	180, 9	23	481.4	204.4	-83	536, 6	227.8
44	316, 7	134. 4	04	371.9	157. 9	64	427.1	181.3	24	482.3	204.8	84	537.6	228.2
4.5	317.6	134. 8	05	372.8	158, 3	65	428.0	181.7	25	483, 2	205, 2	85	538, 5	228, 6
46	315.5	155, 2	-06	373.7	158, 6	- 66	429, 0	182, 1	26	484.2	205, 5	86	539, 4	229, 0
47	319, 4	135, 6	07	374.6	159, 0	67	429, 9	182.5	27	485. 1	205.9	87	540.3	229.4
48	320.3	136, 0	08	375, 6	159, 4	68	430, 8	182, 9	28	486, 0	206, 3	88	541.2	229.8
49	321.3	136, 4	0.9	376, 5	159, 8	69	431.7	183.3	29	486, 9	206. 7	89	542. 2	230, 2
50	322. 2	136, 8	10	377.4	160.2	70	432. 6	183. 7	_ 30	487.8	207.1	90	543, 1	230, 6
351	323. 1	137. 2	411.	378.3	160, 6	471	433, 6	184. 0	531	488, S	207, 4	591	544.0	231, 0
52	324, 0	137.5	12	379.3	161.0	72 73	434.5	1842.4	32	489.7	207. 8	92	544, 9	+231.3
53	324.9	137. 9	13	380, 2	161.4	73	435. 4	184. 8	33	490, 6	208, 2	93	545, 8	231.7
54	325, 9	138.3	14	381.1	16L S	74	436.3	185, 2	31	491.5	208, 6	94	546.8	232.0
55	326, S	138, 7	15	382, 0	162. 2	75	437. 2	185, 6	35	492.5	209, 0	95	547. 7	232, 4
56	327. 7	139, 1	16	382.9	162. 5	76	438. 2	186, 0	36	493, 4	209.4	96	548, 6	232. 8
57	328, 6	139, 5	17	383.9	162.9	77	439.1	186.4	37	494.3	209, 8	97	549, 5	233. 2
55	329, 5	139, 9	18	384, 8	163. 3	78	440, 0	186, 8	38	495, 2	210.2	98	550, 4	233, 6
59	330, 5	140.3	19	385, 7	163, 7	79	440, 9	187.2	39	496.1	210.6	99	551.3	234, 0
60	331.4	140.7	20	386, 6	164.1	80	441.8	187, 6	40	497.1	211.0	GOOT	552, 3	234. 4
			-				-							
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lact.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						67971	13°, 247	0 90990	1					
						υτ"( L.	107, 241	, 235.1	1 -					

TABLE 2.

Difference of Latitude and Departure for 24° (156°, 204°, 336°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.4	61	55, 7	24.8	121	110, 5	49, 2	181	165, 4	73, 6	241	220. 2	98. (
	1.8	0.8	62	56, 6	25, 2	22	111.5	49.6	82	166. 3	74.0	42	221.1	98.4
2	2. 7	1.2	63	57, 6	25, 6	23	112.4	50, 0	83	167. 2	74.4	43	222 ()	98.8
4	3. 7	1.6	64	58, 5	26.0	24	113. 3	50, 4	84	168.1	74.8	44	200 9	
5	4.6	2.0	65	59, 4	26, 4	25	114.2	50, 8	85	169, 0	75. 2	45	223. 8	99.
6	5, 5	2.4	66	60, 3	26, 8	26	115.1	51.2	86	169, 9	75.7	46	224. 7	100.1
7	6, 4	2.8	67	61.2	27.3	27	116.0	51.7	87	170.8	76.1	47	225.6	100.
8	7.3	3. 3	68	62.1	27.7	28	116.9	52.1	88	171.7	76.5	48	226, 6	100.9
9	8.2	3. 7	69	63. 0	28.1	29	117.8	52.5	89	172.7	76.9	49	227.5	101.
10	9. 1	4.1	70	63, 9	28.5	30	118.8	52.9	90	173. 6	77.3	50	228.4	101.
11	10.0	4.5	71	64.9	28, 9	131	119.7	53. 3	191	174.5	77.7	251	229.3	102.
12	11. 0	4. 9	50	65, 8	29.3	32	120.6	53.7	92	175.4	78. 1	52	230, 2	102.
13	11.9	5. 3	72 73	66. 7	29. 7	33	121.5	54. 1	93	176.3	78.5	53	231. 1	102.
14	12.8	5. 7	74	67. 6	30, 1	34	122.4	54.5	94	177. 2	78.9	54	232.0	103.
15	13. 7	6.1	7.5	68, 5	30. 5	35	123. 3	54.9	95	178. I	79.3	55	233. 0	103.
16	14.6	6, 5	76	69, 4	30, 9	36	124. 2	55, 3	96	179. 1	79. 7	56	233. 9	104.
17	15. 5	6, 9	77	70.3	31. 3	37	125. 2	55. 7	97	180, 0	80.1	57	234. 8	104.
18	16.4	7.3	78	71.3	31. 7	38	126, 1	56, 1	98	180, 9	80.5	58	235. 7	104.
19	17. 4	7.3 7.7	79	72. 2	32.1	39	127. 0	56, 5	99	181.8	80.9	59	236, 6	105.
20	18.3	8.1	80	73. 1	32.5	40	127. 9	56, 9	200	182.7	81.3	60	237.5	105.
												1		
21 22	19. 2	8.5	81	74. 0	32.9	141	128, 8	57.3	201	183.6	81.8	261	238. 4	106,
22 23	20.1	8.9	82	74.9	33, 4	42	129.7	57.8	02	184.5	82, 2	62	239.3	106,
	21.0	9.4	-83	75, 8	33.8	43	130, 6	58.2	-03	185, 4	82.6	63	240.3	107.
24	21.9	9, 8	84	76. 7	34. 2	44	131.6	58.6	04	186. 4	83. 0	64	241.2	107.
25 26	22. 8	10, 2	85	77. 7	31.6	45	132.5	59, 0	05	187.3	83.4	65	242.1	107.
	23, 8	10.6	86	78, 6	35.0	46	133.4	59.4	06	188, 2	83, 8	66	243.0	108.
27 28	24. 7 25. 6	11.0	87	79. 5	35, 4	47 48	134.3 135.2	59.8	07	189, 1	84. 2	67	243, 9 244, 8	108.
29	26, 5	11.4 11.8	88 89	80, 4 81, 3	35, 8 36, 2	49	136, 1	60, 2	08	190, 0 190, 9	84, 6 85, 0	68	245.7	109,
30	27. 4	12. 2	90	82. 2	36, 6	50	137. 0	61.0	10	191.8	85.4	70	246. 7	109.
31	28.3	12.6	91	-83.1	37. 0	151	137. 9		211	192.8	85, 8	271	247.6	110.
32	29. 2						138. 9	61.4	12	193, 7	86. 2	271	248.5	110.
33	30. 1	13. 0 13. 4	92 93	84, 0 85, 0	37.4 37.8	52 53	139, 8	$61.8 \\ 62.2$	13	194, 6	86, 6	72 73	249, 4	111.
34	31. 1	13, 8	94	85, 9	38, 2	54	140.7	62, 6	14	195, 5	57. 0	74	250.3	111.
35	32. 0	14. 2	95	86, 8	38.6	55	141.6	63. 0	15	196, 4	87. 4	75	251. 2	111.
36	32. 9	14. 6	96	87. 7	39, 0	56	142.5	63, 5	16	197.3	87. 9	76	252. 1	112.
37	33. 8	15, 0	97	88, 6	39.5	57	143. 4	63. 9	17	198, 2	88, 3	77	253. 1	112.
38	34. 7	15.5	98	89, 5	39, 9	58	144.3	64.3	18	199. 2	88.7	78	254. 0	113.
39	35. 6	15. 9	99	90.4	40, 3	59	145.3	64. 7	19	200. 1	89. 1	79	254.9	113.
40	36. 5	16.3	100	91. 4	40. 7	60	146. 2	65. 1	20	201.0	89.5	80	255. 8	113.
41	37. 5	16. 7	101	92. 3	41. 1	161	147. 1	65, 5	223	201.9	89. 9	281	256, 7	114.
42	38.4	17.1	02	93, 2	41.5	62	148.0	65, 9	22	202.8	90.3	82	257, 6	114.
43	39. 3	17. 5	03	94. 1	41.9	63	148.9	66, 3	23	203. 7	90.7	83	258, 5	115.
44	40. 2	17. 9	04	95, 0	42.3	64	149.8	66. 7	24	204.6	91.1	84	259. 4	115.
45	41.1	18. 3	05	95, 9	42.7	65	150.7	67. 1	25	205, 5	91.5	85	260, 4	115.
46	42.0	18. 7	06	96, 8	43. 1	66	151. 6	67. 5	26	206. 5	91.9	86	261.3	116.
47	42.9	19.1	07	97. 7	43.5	67	152. 6	67. 9	27	207. 4	92.3	87	262. 2	116.
48	43. 9	19.5	08	98.7	43. 9	68	153, 5	68. 3	28	208, 3	92.7	88	263. 1	117.
49	44.8	19. 9	09	99, 6	44. 3	69	154, 4	68. 7	29	209, 2	93, 1	89	264. 0	117.
50	45. 7	20.3	10	100, 5	44.7	70	155. 3	69. 1	30	210, 1	93.5	90	264. 9	118.
		$\frac{20.3}{20.7}$	111			171	156. 2	69. 6	231	211.0	94. 0	291	265, 8	118.
51 52	46, 6	20.7	12	101, 4	45, 1 45, 6	111	156. 2	70, 0	32	211.0	94. 0	92	266, 8	118.
53	47. 5 48. 4	21. 2	13	102. 3	46, 0	73	158. 0	70. 0	33	212.9	94. 8	93	267. 7	119.
54	49.3	22.0	14	103. 2	46, 4	74	159, 0	70. 4	34	213.8	95, 2	94	268. 6	119.
55 55	50, 2	22. 0	15	104.1	46, 8	75	159, 9	71. 2	35	214. 7	95, 6	95	269. 5	120.
əə 56	51. 2	22. 4	16	106, 0	47. 2	76	160, 8	71. 6	36	215. 6	96. 0	96	270, 4	120.
57	52. 1	23, 2	17	106.9	47.6	77	161. 7	72.0	37	216.5	96. 4	97	271.3	120.
58	53. 0	23, 6			48, 0	78	162.6	72.4	38	217. 4	96. 8	98	272. 2	121.
59	53. 0	23, 6	18 19	107, 8 108, 7	48.4	79	163, 5	72. 4	38	217. 4	97. 2	99	273. 2	121.
60	54.8	24. 0	20	109, 6	48.8	80	164. 4	73. 2	40	219.3	97. 6	300	274. I	122.
OU	04.8	24.4	20	1000, 0	40.0	50	104.4	1.10.2	40	210.0	37.0	(MR)	2/4.1	120.
									١.			l		
ist.	Dep.	Lat	Inst.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	1.at

TABLE 2.

[Page 579

Difference of Latitude and Departure for 24° (156°, 204°, 336°),

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	275. 0	122.4	361	329, 8	146.8	421	384.6	171.2	481	439. 4	195. 6	541	494. 2	220.0
02	275.9	122. 8	62	330, 7	147. 2	921	385, 5	171.6	82	440.3	196. 0	42	495, 1	220. 0
02	276. S	123. 2	63	331.6	147. 6	23	386.4	179 1	83	441.2	196, 5	43	496. 0	220. 9
04	277.7	123. 7	64	332.5	148, 1	24	387.3	$\frac{172.1}{172.5}$	84	442.1	196.9	44	496, 9	221.3
05	278.6	124. 1	65	333, 4	148.5	25	388, 2	172.9	85	443. 0	197.3	45	497.8	221.7
06	279.5	124.5	66	334.3	148.9	26	389. 2	173, 3	86	444.0	197. 7	46	498. 8	222. 1
07	280.4	124.9	67	335, 3	149.3	27	390. 1	173. 7	87	444.9	198, 1	47	499.7	200.5
08	281.4	125.3	68	336, 2	149, 7	28	391.0	174.1	88	445. 8	198, 5	48	500, 6	222, 9
09	282.3	. 125, 7	69	337.1	150, 1	29	391.9	174.5	89	446.7	198.9	49	501.5	223, 3
10	283. 2	126. 1	70	338, 0	150.5	30	392. 8	174.9	90	417.6	199.3	50	502.4	223, 7
311	284.1	126, 5	371	338, 9	150.9	431	393.7	175, 3	491	448.6	199.7	551	503.4	224.1
12	285.0	126, 9	72	339, 8	151.3	32	394, 6	175. 7	92	449.5	200, 1	52	504. 3	224. 5
13	285, 9	127. 3	73	340.7	151.7	33	395, 6	176.1	93	450, 4	200, 5	53	505, 2	224.9
14	286, 8	127. 7	74	341.7	152, 1	34	396, 5	176.5	94	451.3	200.9	54	506.1	225, 3
15	287. 8	128, 1	74 75	342.6	152.5	35	397.4	176, 9	95	452.2	201.3	55	507.0	225. 7
16	288.7	128, 5	76	343.5	152.9	36	398.3	177.3	96	453.1	201.7	56	507.9	226, 1
17	289. 6	128, 9	77	344.4	153.3	37	399, 2	177.7	97	454, 0	202, 2	57	508, S	226, 6
18	290.5	129, 3	78	345. 3	153.7	38	400. 1	178.2	98	454, 9	202.6	58	509.7	227.0
19	291.4	129.8	79	346. 2	154. 2	39	401.0	178.6	- 99	455, 8	203.0	59	510.6	227.4
20	292.3	130, 2	80	347.1	154.6	40	402.0	179.0	500	456, 8	203.4	60	511, 6	227. 8
321	293. 2	130, 6	381	348.1	155, 0	441	402.9	179.4	501	457.7	203.8	561	512.5	225, 2
22	294.2	131, 0	82	349, 0	155.4	42	403.8	179.8	02	458. 6	204.2	62	513.4	228, 6
23	295. 1	131.4	83	349.9	155. 8	43	404.7	180, 2	-03	459.5	204.6	63	514.3	229, 0
24	296.0	131.8	84	350, 8	156.2	44	405.6	180, 6	-04	460, 4	205.0	64	515, 2	229, 4
25	296.9	132.2	85	351.7	156.6	45	406.5	181.0	-05	461.3	205.4	65	516.1	229.8
26	297.8	132.6	86	352.6	157.0	46	407.4	181.4	-06	462.2	205. 8	-66	517.0	230.2
27	298.7	133.0	-87	353, 5	157.4	47	408.3	181.8	-07	463. 2	206.2	67	518.0	230, 6
28		133.4	- 88	354.4	157.8	48	409.3	182.2	-08	464.1	206, 6	- 68	518.9	231.0
29	300.5	133.8	89	355, 4	158, 2	49	410.2	182.6	-09	465.0	207.0	69	519.8	231.4
_30	301.5	134.2	90	356. 3	158. 6	50	411.1	183, 0	10	465.9	207.4	_ 70_	520.7	231.8
331	302.4	134.6	391	357.2	159.0	451	412, 0	183.4	511	466.8	207.8	571	521.6	232.2
32	303.3	135.0	92	358. 1	159. 4	52	412, 9	183. 8	12	467.7	208.2	72	522.5	232.7
33	304.2	135. 4	93	359, 0	159. 8	53	413.8	184.3	13	468.6	208.7	73	523, 4	233. 1
34	305.1	135.9	94	359, 9	160, 3	54	414.7	184.7	14	469.5	209.1	74	524.3	233.5
35		136.3	95	360. 8	160, 7	55	415.7	185.1	15	470.5	209. 5	75	525.3	233. 9
36	306. 9	136.7	96	361.8	161.1	56	416, 6	185.5	16	471.4	209. 9	76	526. 2	234.3
37 38	307.9 308.8	137.1 137.5	97 98	362. 7 363. 6	161.5 161.9	57 58	417.5 418.4	185.9 186.3	17 18	472.3 473.2	$\begin{bmatrix} 210.3 \\ 210.7 \end{bmatrix}$	77 78	527. 1 528. 0	234. 7 235. 1
39	309.7	137. 9	99	364.5	162. 3	59	419. 3	186. 7	19	474.1	211. 1	79	528. 9	235. 5
40	310.6	138. 3	400	365. 4	162. 7	60	420. 2	187.1	20	475.0	211.5	80	529.8	235. 9
341	311.5		401	366.3	163. 1	461	421.1	187. 5	521	475. 9	211.9	581	530, 8	236. 3
947	311.5	138. 7 139. 1	02	367. 2	163. 5	62	421. 1	187. 9	22	476.8	211.9	82	531.7	236. 7
43	313.3	139. 1	03	368. 2	163. 9	63	423. 0	188. 3	23	477.8	212. 7	83	532. 6	237. 1
44	314.3	139. 9	04	369. 1	164. 3	64	423.9	188.7	24	478.7	213. 1	84	533.5	237. 5
45	315. 2	140.3	05	370. 0	164.7	65	424.8	189. 1	25	479.6	213.5	85	534.4	237. 9
46	316. 1	140.7	06	370.9	165. 1	66	425. 7	189. 5	26	480.5	213. 9	86	535. 3	238. 3
47	317.0	141.1	07	371.8	165. 5	67	426, 6	189, 9	27	481.4	214. 4	87	536, 2	238, 8
48	317. 9	141.5	08	372.7	165, 9	68	427, 5	190.4	28	482.3	214.8	88	537.1	239, 2
49	318.8	142.0	09	373.6	166.4	69	428.4	190.8	29	483, 2	215. 2	89	538. 0	239.6
50	319.7	142.4	10	374.5	166.8	70	429.4	191.2	30	484.2	215.6	90	539.0	240.0
351	320.6	142.8	411	375, 5	167. 2	471	430.3	191.6	531	485. 1	216.0	591	539. 9	240.4
52	321.6	143. 2	12	376.4	167. 6	72	431.2	192.0	32	486.0	216.4	92	540.8	240.8
53	322.5	143.6	13	377.3	168.0	73	432.1	192.4	33	486.9	216, 8	93	541.7	241.2
54	323.4	144.0	. 14	378.2	168.4	74	433.0	192.8	34	487.8	217.2	94	542, 6	241.6
55	324.3	144. 4	15	379.1	168, 8	75	433, 9	193.2	35	488.7	217.6	95	543.5	242.0
56	325. 2	144.8	16	380.0	169, 2	76	434.8	193.6	36	489.6	218.0	96	544. 4	242.4
57	326.1	145. 2	17	380.9	169.6	77	435.8	194.0	37	490, 6	218.4	97	545.4	242.8
58	327.0	145.6	18	381. 9	170.0	78	436.7	194.4	38	491.5	218.8	98	546.3	243.2
59	328.0	146.0	19	382.8	170.4	79	437.6	194.8	39	492.4	219. 2	99	547.2	243.6
60	328.9	146. 4	20	383.7	170.8	80	438. 5	195. 2	40	493, 3	219.6	600	548.1	244.0
		-												
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
					- 4	6° (1	14° 246	°. 294°	).					

66° (114°, 246°, 294°).

Page 580]

TABLE 2.

Difference of Latitude and Departure for 25° (155°, 205°, 335°).

			TILL TO	nce or r	266166111	2111	repartu	101	201 (1		, , ,,,,,,,,	<i>)</i> •		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0, 9	0.4	61	55, 3	25, 8	121	109.7	51.1	181	164.0	76, 5	211	218.4	101, 9
2		0.8	62	56, 2	26, 2	22 23	110.6	51.6	82	164.9	76, 9	42	219.3	102.3
3	1.8 2.7	1.3	63	57.1	26. 6	23	111.5	52, 0	-83	165, 9	77.3	43	220, 2	102.7
4	3.6	1.7	ti4	58.0	27.0	24	112.4	52.4	84	166, 8	77.8	44	221. 1	103.1
5	4.5	2.1	tiõ	58, 9	27.5	25	113.3	52.8	- 85	167.7	78. 2	45	222.0	103.5
- 6	5, 4	2, 5	66	59. S	27.9	26	114.2	53.2	86	168, 6	78.6	46	223.0	104.0
7	6. 3	3.0	67	60, 7	28.3	27	115.1	53. 7	87	169, 5	79.0	47	223.9	104.4
8 9	7.3	3.4	68	61.6	28.7	28	116.0	54.1	88	170.4	79.5	48	224.8	104.8
10	S. 2 9. 1	3. S 4. 2	69 70	62.5 $63.4$	29, 2 29, 6	29	116.9	54.5	89 90	171.3	79.9	49	225.7	105, 2
						30	117.8	54.9		172.2	80.3	50	226. 6	105, 7
11	10, 0	4. 6 5. 1	71	64.3	30. 0	131	118.7	55. 4	191	173.1	80.7	251	227.5	106. 1
12 13	11.9	5, 5	72 73	65, 3 66, 2	30, 4 30, 9	32 33	119, 6 120, 5	55, S 56, 2	92 93	174.0 $174.9$	81. 1 81. 6	52 53	228, 4 229, 3	106. 5 106. 9
14	$\frac{11.8}{12.7}$	5, 9	74	67. 1	31.3	34	120.3	56, 6	94	175. S	82. 0	54 54	230. 2	105. 9
15	13. 6	6. 3	75	68. 0	31. 7	35	122. 4	57.1	95	176, 7	82.4	55	231. 1	107.8
16	14, 5	6.8	76	68. 9	32. 1	36	123. 3	57.5	96	177.6	82.8	56	232.0	108.2
17	15.4	7. 2	76 77 78	69, 8	32.5	37	124. 2	57.9	97	178.5	83, 3	57	232.9	108.6
18	16, 3	7. 2 7. 6	78	70.7	33, 0	33	125.1	58, 3	98	179.4	83, 7	58	232. 9 233. 8	109.0
19	16, 3 17, 2	8.0	79	71.6	33.4	39	126.0	58.7	99	180, 4	84, 1	59	234. 7	109.5
20	18.1	8.5	80	72.5	33, S	40	126, 9	59, 2	200	181.3	81.5	60	235. 6	109.9
21 22 23	19.0	8.9	S1 .	73.4	$\frac{34.2}{34.7}$	141	127.8	59, 6	201	182.2	84.9	$261^{-}$	236, 5	110.3
22	19.9	9, 3	82	74.3	34.7	42	128.7	60, 0	02	183.1	85.4	62	236, 5 237, 5	110.7
23	20, 8	9.7	-83	75. 2	35. 1	43	129.6	60.4	-03	184.0	85, 8	63	238. 4	111.1
24	21.8	10.1	-81	76.1	35, 5	44	130.5	60, 9	04	184.9	86, 2	64	239.3	111.6
25	22.7	10.6	85	77.0	35, 9	45	131.4	61.3	05	185, 8	86, 6	65	240.2	112.0
26	23, 6	11.0	86	77. 9	36. 3	46	132.3	61.7	-06	186.7	87.1	66	241.1	112.4
27 28	24. 5 25. 4	11.4	87	78, 8	36.8	47	133, 2	62.1	07	187.6	87.5	67	242, 0 242, 9	112.8
29	26.3	11.8 12.3	88 89	79, 8 80, 7	$\frac{37.2}{37.6}$	48 49	134. I 135. 0	62, 5 : 63, 0	08 09	188, 5 189, 4	87. 9 88. 8	68 69	242. 9	113. 3 113. 7
30	27. 2	12. 7	90	81.6	38, 0	50	135. 9	63.4	10	190.3	88.7	70	244.7	114.1
- <u>3i</u>	0) I	13.1	91	82.5	38, 5	151	136, 9	63, 8	211	191.2	89. 2	271	245.6	114.5
32	28. I 29. 0	13. 5	92	83.4	38.9	52	137. 8	61.9	12	192.1	89.6	72	246.5	115.0
33	29, 9	13. 9	93	84. 3	39.3	53	138. 7	64. 2 64. 7	13	193, 0	90.0	73	247.4	115.4
34	30, 8	14.4	94	85, 2	39. 7	54	139, 6	65.1	14	193. 9	90, 4	74	248, 3	115.8
35	31.7	14.8	95	86. 1	40.1	55	140.5	65, 5	15	194. 9	90, 9	75	249, 2	116. 2
36	32.6	15. 2	96	87. 0	40.6	56	141.4	65. 9	16	195, 8	91.3	76	250, 1	116.6
37	33, 5	15.6	97	87. 9	41.0	57	142.3	66, 4	17	196.7	91.7	77 78	251.0	117.1
38	34, 4	16.1	98	88, 8	41.4	58	143.2	66, 8	18	197.6	92, 1	78	252, 0	117.5
30	35, 3	16.5	99	89, 7	41.8	59	144.1	67. 2	19	198, 5	92. 6	79	252. 9	117.9
40	_ 36, 3	16, 9	100	90, 6	42.3	- 60	145, 0	67.6	20_	199, 4	93.0	80	253, 8	118.3
41	37. 2	17.3	101	91.5	42.7	161	145.9	68, 0	221	200.3	93.4	281	254.7	118.8
42	38, 1	17.7	02	92.4	43. 1	62	146.8	68, 5	22	201.2	93, 8	82	255, 6	119. 2
43	59, 0	18. 2	-03	93, 3	43.5	63	147. 7	68, 9	23	202.1	91.2	83	256, 5	119.6
44	39, 9	18.6	04	94.3	41.0	64	148.6	69.3	24 25	203. 0	94.7	84 85	257.4	120, 0 120, 4
45	40, 8 41, 7	19, 0 19, 4	05 06	95, 2 96, 1	$\frac{44.4}{44.8}$	55 66	149, 5 150, 4	69, 7 70, 2	25 26	203, 9 204, 8	95, 5	86	258, 3 259, 2	120. 4
47	12.6	19, 9	07	97. 0	45, 2	67	151.4	70, 6	27	205.7	95, 9	87	260. 1	121.3
48	43, 5	20, 3	08	97. 9	45.6	68	152. 3	71.0	28	206, 6	96, 4	88	261. 0	121.7
49	44. 4	20. 7	69	98, 8	46.1	69	153. 2	71.4	29	207.5	96, 8	89	261. 9	122.1
50	45, 3	21.1	10	99.7	46.5	70	154. 1	71.8	30	208.5	97.2	90	262.8	122.6
51	46, 2	21.6	111	100.6	46. 9	171	155, 0	72.3	231	209.4	97.6	291	263.7	123, 0
52	47. 1	22.0	12	101.5	47.3	72	155, 9	$\frac{72.3}{72.7}$	32	210.3	98, 0	92	264. 6	123. 4
53	45, 0	22, 4	13	102.4	47.8	73	156, 8	73.1	33	211, 2	98.5	93	265, 5	123.8
-54 i	48.91	22.8	14	103.3	48.2	74	157, 7	73.5	- 34	212.1	98, 9	. 94	266, 5	124, 2
55	49, 8	23. 2	15	104.2	48.6	75	158, 6	74.0	35	213, 0	99, 3	95	267.4	124.7
56	50, 8	23. 7	16	105.1	49, 0	76	159, 5	74.4	36	213.9	99, 7	96	268, 3	125. 1
57	51.7	24.1	17	106, 0	49, 4	77	160.4	74.8	37	214.8	100, 2	97	269. 2	125.5
58	52.6	24.5	18	106, 9	49, 9	78	161.3	75.2	38	215.7	100, 6	98	270.1	125. 9
59	53, 5	21, 9	19	107.9	50.3	79	162. 2	75, 6	39	216.6 217.5	101.0	99 300	271.0 271.9	126. 4 126. 8
60	54.4	25.4	20	108.8	50.7	S0 -	163. 1	76.1	40	417.6	101.4	יוויני	-(1.)	1=0.5
Diet !	Dan	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
Dist.	Dep.	LAKE.	Dist.	rasp.	Lat.	mat.	тер.	iant.	17766	rep.		1.60.	repa	Late.
						55° (1	15°, 215	°, 295°	).					

Difference of Latitude and Departure for 25° (155°, 205°, 335°).

		,	ицеге	mee of l	Latitud	eana	Depart	nre for	25° ()	155°, 20	5°, 335°	1.		
Dist.	Lat.	Dep.	Dist.	Lnt.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Inst.	Lat.	1rep.
301	272.8	127. 2	361	327. 1	152.5	421	381.5	177.9	481	435, 9	203.3	541	490, 3	228.6
02	273.7	127.6	62	328, 0	153, 0	222	382, 4 383, 3	178.3	82	436.8	203.7	42	491. 2	229, 0
-03	274.6	128, 0	63	329, 0	153.4	23	383. 3	178.7	- 83	437.7	204.1	43	492.1	229, 4
04	275.5	128.4	64	329, 9	153. 8	24	384. 2	179. 2	84	438.6	204.5	44	493.0	229, 9
05 06	276.4 $277.3$	128.9 129.3	65 66	330, 8 331, 7	154. 2	25 26	385, 1 386, 0	179, 6 180, 0	85 86	439.5	204.9	45 46	493. 9	230, 3
07	278.2	129. 7	67	332.6	154, 6 155, I	26	387. 0	180, 0	87	440.4 441.3	205.4 $205.8$	47	494. 8 495. 7	230, 7 231, I
08	279. 1	130. 1	68	333, 5	155, 5	28	387. 9	180.9	88	442.2	206. 2	48	496, 6	231. 6
- 09	280, 0	130.6	69	334, 4	155, 9	29	388, 8	181.3	89	443.1	206.6	49	497.5	232, 0
10	280.9	131.0	70	335, 3	156, 3	30	389.7	181.7	90	444.0	207.1	50	498, 4	232.4
311	281.8	131.4	371	336, 2	156, 8	431	390, 6	$182, 1 \\ 182, 5$	491	444.9	207.5	551	499.3	232.8
12	282.7	131.8	72	337. 1	157. 2	32	391.5	182.5	92	445.9	207. 9	52	500.2	233, 2 233, 7
13	283.6	132, 2 132, 7	73	338, 0	157, 6	33	392.4	183, 0	93	446, 8	208.3	53	501.1	233.7
14	284.5		74	338.9	158, 0	34	393.3	183, 4	94	447.7	208.7	54	502, 0	234. 1
15 16	285, 4 $286, 4$	133, 1 133, 5	75 76	339, S 340, 7	158, 5 158, 9	35 36	394, 2 395, T	183, 8 184, 2	95 96	448, 6 449, 5	209.1 $209.6$	55 56	503, 0	234.5
17	287. 3	133, 9	77	341.6	159.3	37	396, 0	184. 7	97	450.4	210.0	57	504. 8	235, 0 235, 4
18	288. 2	134. 4	78	342.5	159.7	38	396, 9	185, 1	98	451.3	210.4	58	505. 7	285. 8
19	289, 1	134, 8	79	343, 5	160, 1	39	397.8	185.5	99	452.2	210.9	59	506, 6	236. 2
20	290, 0	135. 2	80	344.4	160, 6	40	398.7	185.9	500	453, 1	211.3	-60	507.5	236, 6
321	290, 9	135, 6	381	345.3	161.0	441	399, 6	186.3	501	454, 0	211.7	561	508, 4	287. 1 287. 5
22	291.8	136.1	82	346, 2	161.4	42	400, 6	186, 8	02	454.9	212.1	62	509, 3	237. 5
23	292.7	136.5	83	347.1	161.8	43	401.5	187. 2	03	455. 8	212, 5	63	510.2	237.9
24 25	293, 6 294, 5	136. 9 137. 3	84 85	348, 0 348, 9	$\frac{162.3}{162.7}$	44 45 :	402.4 $403.3$	187, 6 188, 0	04 05	456. 7 457. 7	$\frac{213.0}{213.4}$	64 65	511.1	238, 3 238, 7
26	295. 4	137. 7	86	349, 8	163. 1	46	404. 2	188.5	(16	458.6	-213.8	66	512. 0 512. 9	239. 2
27	296. 3	138, 2	87	350, 7	163, 5	47	405. 1	188, 9	07	459.5	214. 2	67	513. 8	239, 6
28	297. 2	138, 6	88	351.6	163. 9	44	406, 0	189.3	08	460, 4	214.7	68	514. 8	240. 1
29	298.1	139.0	89	352.5	164.4	49	406.9	189.7	- 09	461.3	215.1	-69	515.7	240, 5
30	299.0	139.4	90	353.4	164, 8	50	407.8	190, 1	10	462.2	215.5	70	516. 6	240, 9
331	300, 0	139, 9	391	354.3	165. 2	451	408.7	190.6	511	463.1	215.9	571	517.5	241.3
32	300, 9	140.3	92	355, 2	165, 6	52	409, 6	191.0	12	464.0	216.4	72	518.4	241.7
33 34	301. 8   302. 7	140. 7 141. 1	93 94	356. 1 357. 0	166, 1 166, 5	53 54	410, 5 411, 4	191. 4 191. 8	13 14	464. 9 465. 8	216. S 217. 2	73 74	519.3 520.2	242. 1 242. 6
35	303, 6	141.5	95	358. 0	166. 9	55	412.3	192. 3	15	466.7	217. 7	75	521.1	243.0
36	304. 5	142.0	96	358.9	167.3	56	413, 2	192. 7	16	467.6	218. 1	76	522.0	243, 4
37	305.4	142.4	97	359, 8	167.7	57	414.1	193. 1	17	468, 5	218, 5	77	522. 9	243.8
38	306.3	142.  8	98	360.7	168.2	58	415.1	193.5	18	469.4	218.9	78	523. 8	244.3
39	307.2	143.2	99	361.6	168.6	59	416.0	194.0	19	470.3	219.3	79	524. 7	244.7
40	308. 1	143.7	400	362.5	169.0	60	416.9	194.4	_20	471.2	219. 8	80	525.6	245 1
341	309. 0	144. 1	401	363. 4	169.4	461	417.8	194.8	521	472. 2	220. 2	581	526, 5	245. 5
42 43	309.9 310.8	144.5 144.9	02 03	364. 3 365. 2	169. 9	62 63	418.7 $419.6$	195, 2 195, 6	22 23	473.1 $474.0$	220. 6 221. 0	82 83	527, 4 528, 3	246, 0 246, 4
44	311. 7	145. 4	04	366, 1	170.3 170.7	64	420.5	196.1	24	474. 9	221.4	84	529. 3	246.8
45	312, 6	145.8	05	367. 0	171.1	65	421.4	196. 5	25	475. 8	221.9	85	530. 2	247. 2
46	313.5	146, 2	-06	367.9	171.6	-66	422.3	196. 9	26	476.7	222.3	- 86	531.1	247.7
47	314.5	146.6	07	368.8	172.0	67	423.2	197.3	27	477.6	222. 7	87	532.0	248.1
48	315, 4	147.0	08	369.7	172.4	68	424. 1	197.8	28	478.5	223. 2	88	532. 9	248.5
49	316, 3	147.5	09	370.6	172.8	69	425. 0	198. 2	29	479.4	223. 6	89	533, 8	248.9
50	317.2	147. 9	10	371.5	173. 2	70	425.9	198.6	30	480.3	224. 0 224. 4	90	534.7	249. 4
351 52	318. 1 319. 0	148.3 $148.7$	411 12	372.5 $373.4$	173. 7 174. 1	471 72	$\frac{426.8}{427.7}$	199, 0 199, 4	531 32	481. 2 482. 1	224. 4	591 92	535, 6 536, 5	249, 8 250, 2
53	319.9	149, 2	13	374.3	174.1 $174.5$	73	428.6	199, 9	33	483.0	225, 3	93	537. 4	250, 6
54	320, 8	149.6	14	375, 2	174. 9	74	429, 6	200.3	34	483.9	225. 7	94	538. 3	251. 1
55	321.7	150, 0	15	376.1	175.4	75	430, 5	200.7	35	484.8	226.1	95	539, 2	251.5
56	322.6	150.4	16	377.0	175, 8	76	431.4	201.1	36	485.7	226.5	96	540.1	251.9
57	323.5	150, 8	17	377.9	176, 2	77	432, 3	201.6	37	486.7	226, 9	97	541.0	252, 3
58	324.4	151.3	18	378, 8	176.6	78	433. 2	202.0	38	487.6	227.4	98	541.9	252.7
59 60	325. 3 326. 2	151.7 152.1	19 20	379, 7 350, 6	177. 0 177. 5	79 80	434. 1 435. 0	202. 4 202. 8	39 40	488, 5 489, 4	227. 8 228. 2	99 600	542, 8 543, 8	253, 1 253, 6
100	ش ۱۱۰ س	104.1	20	() 117, ()	117.0		100.0	202.0	40	300.4	220.2	(KN)	040. 8	200.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	hep.	Lat.	Dist.	Dep.	List.	Dist.	Dep.	Lat.
						55° (1	15°, 245	°, 295°	).					

# Page 582]

#### TABLE 2.

Difference of Latitude and Departure for 26° (154°, 206°, 334°).

$\vdash$															
Di	i-t.	Lut.	Herps,	Dist	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	_			1											
1	1 1	0.9	0.4	61	54.8	26, 7	121	108, 8	53, 0	181	162.7	79.3	241	216, 6	105, 6
1	2	1.8	0.9	62	55, 7	27. 2	22	109.7	53, 5	82	163, 6	79.8	42	217.5	106, 1
1	3	2. 7	1.3	63	56. 6	27.6	23	110, 6	53.9	83	164.5	S0. 2	43	218.4	106.5
1	4	3, 6	1. 8	64	57. 5	28. 1	24	111.5	54.4	84	165, 4	80.7	44	219.3	107.0
1	5	4.5	2. 2	65	58, 4	28. 5	25	112, 3	54.8	85	166.3	81. 1	45	220.2	107. 4
1	6	5, 4	2.6	66	59. 3	28. 9	26	113.2	55 9	86	167. 2	. 81. 5	46	221. 1	107. 8
1	7	6, 3	3. 1	67	60. 2	29, 4	27	114. 1	55. 2 55. 7	87	168. 1	82, 0	47	222. 0	108. 3
1		7. 2	3. 5	68	61. 1	29. 8	28	115. 0	56.1	88	169. 0	82.4	48	222. 9	108. 7
1	5 9					30. 2	29	115.9	56, 5	89	169. 9	82.9	49		
Ι.		8.1	3.9	69	62.0		30							223. 8	109. 2
-	10	9, 0	4.4	70	62.9	30, 7		116.8	57.0	_90	170, 8	83, 3	50	224. 7	109, 6
	11	9, 9	4.8	71	63, 8	31.1	131	117.7	57.4	191	171.7	83.7	251	225.6	110.0
	12	10.8	5.3	72 73	64. 7	31.6	32	118, 6	57. 9	92	172. 6 173. 5	84.2	52	226.5	110.5
	13	11.7	5. 7	73	65, 6	32.0	- 33	119.5	58, 3	- 93	173.5	84.6	53	227.4	110.9
	14	12.6	6.1	74	66, 5	32.4	34	120.4	58.7	94	174. 4	85.0	54	228, 3	111.3
1 1	15	13, 5	6, 6	75	67.4	32. 9	35	121.3	59. 2	95	175, 3	85.5	55	229. 2	111.8 112.2 112.7
1 1	16	14.4	7.0	76	68, 3	33. 3	36	122.2	59, 6	- 96	176.2	85.9	56	230. 1	112, 2
1 1	17	15.3	7.5	77	69.2	33, 8	37	123.1	60, 1	97	177.1	86.4	57	231. 0	112.7
	18	16, 2	7. 9	78	70. 1	34.2	38	124.0	60, 5	98	178.0	86, 8	58	231.9	113.1
	19	17. 1	8, 3	79	71.0	34.6	39	124.9	60, 9	99	178.9	87. 2	59	232, 8	113.5
	20	18.0	8.8	80	71.9	35, 1	40	125, 8	61.4	200	179.8	87.7	60	233. 7	114.0
	21	18.9	9, 2	81	72.8	35, 5	141	126.7	61. 8	201	180, 7	88, 1	261	234, 6	114.4
	21				73. 7				62. 2	02	181.6				
		19.8	9.6	82		35, 9	42	127.6				88.6	62	235, 5	114.9
	2:3	20.7	10.1	83	74. 6	36, 4	43	128, 5	62. 7	-03	182, 5	89, 0	63	236. 4	115.3 115.7
1 3	24	21.6	10.5	84	75, 5	36, 8	44	129, 4	63. 1	04	183.4	89, 4	64	237.3	115.7
	25	22.5	11.0	85	76, 4	37. 3	45	130.3	63, 6	0.5	184.3	89, 9	65	238. 2	116. 2 116. 6
1:	26	23. 4	11.4	86	77.3	37.7	46	131. 2	64, 0	- 06	185.2	90, 3	- 66	239. 1	116.6
	27	24. 3	11.8	87	78. 2	38, 1	47	132. 1	64. 4	07	186. 1	90, 7	67	240.0	117.0
	24	25, 2	12, 3	88	79.1	38, 6	48	133, 0	64. 9	- 08	186.9	91.2	68	240, 9	117.5
	20	26. I	12.7	89	80.0	39, 0	49	133. 9	65, 3	- 09	187, 8	91, 6	-69	241.8	117. 9
1 :	3()	27.0	13. 2	90	80, 9	39, 5	50	134, S	65, 8	10	188.7	92. 1	70	242. 7	118.4
1	31	27. 9	13, 6	91".	81.8	39, 9	151	135, 7	66, 2	211	189, 6	92.5	271	243.6	118, 8
	32	28, 8	14.0	92	82. 7	40.3	52	136, 6	66, 6	12	190.5	92.9	72	244.5	119, 2 119, 7
	13	29. 7	14.5	93	83. 6	40, 8	53	137. 5	67.1	13	191.4	93. 4	73	245, 4	119.7
	34	30, 6	14.9	94	84.5	41.2	54	138, 4	67.5	14	192.3	93. S	74	246.3	120. 1
	35	31.5	15, 3	95	85, 4	41.6	55	139.3	67. 9	15	193, 2	94.2	75	217. 2	120.6
	36	32.4	15, 8	96	86.3	42.1	56	140, 2	68, 4	16	194.1	94.7	76	248, 1	121.0
	37	33, 3	16. 9	97	87. 2	42.5	57	141.1	68, 8	17	195, 0	95, 1	77	249, 0	121. 4
	ŝs	34. 2	16, 2 16, 7	118	88. 1	43. 0	58	142.0	69. 3	18	195, 9	95, 6	78	249. 9	121.9
	39	35, 1	17.1	99	89, 0	43, 4	59	142.9	69. 7	19	196, 8	96, 0	79	250, 8	122.3
	10	36, 0	17. 5	100	89, 9	43. 8	60	143, 8	70.1	20	197. 7	96, 4	80	251.7	122. 7
-				1			1								
	11	36, 9	18.0	101	90, 8	44.3	161	144.7	70.6	221	198, 6	96, 9	281	252.6	123. 2
	12	37. 7	18, 1	02	91. 7	41.7	62	145, 6	71.0	22	199, 5	97.3	82	253, 5	123. 6
	13	38, 6	18, 8	03	92.6	45. 2	63	146.5	71.5	23	200, 4	97.8	83	254. 4	124.1
	14	39. 5	19.3	0.1	93, 5	45.6	64	147.4	71.9	24	201.3	98, 2	84	255, 3	124.5
	15	40.4	19.7	05	94, 4	46, 0	65	148.3	72.3	25	202.2	98, 6	85	256, 2	124.9
	16	41.3	20, 2	06	95, 3	46.5	66	149, 2	72. 8	26	203. 1	99. 1	86	257.1	125, 4
	47	42. 2	20, 6	07	96, 2	46, 9	67	150.1	73. 2	27	204.0	99, 5	87	258, 0	125, 8
	18	43. 1	21.0	-03	97.4	47.3	68	151, 0	73. 6	28	204. 9	99, 9	88	258, 9	126.3
1 -	119	44.0	21.5	(9)	98, 0	47.8	69	151.9	74.1	29	205, 8	100, 4	89	259, 8	126.7
1 /	1(1)	41.9	21.9	10	98.9	48, 2	70	152, S	74.5	30	206, 7	100, 8	90	260, 7	127.1
1:	51	45, 8	22.4	1111	99, 8	48, 7	171	153.7	75, 0	231	207. 6	101.3	291	261.5	127.6
	52	46, 7	22. 8	12	100.7	49, 1	72	154. 6	75.4	32	208, 5	101.7	92	262, 4	128.0
	53	47. 6	23. 2	13	101.6	49, 5	73	155, 5	75.8	33	209. 4	102.1	93	263, 3	128, 4
	54	18.5	23. 7	14.	102.5	50, 0	74	156, 4	76.3	34	210.3	102.6	94	264. 2	128.9
	55	49, 4	24.1	15	103.4	50, 4	75	157. 3	76. 7	35	211.2	103.0	95		129.3
	oti	50, 3	24. 5	16	104.3	50, 9	76	158.2	77. 2	36	212.1	103, 5	96		. 129, 8
	57	51.2	25. 0	17	105, 2	51.3	77	159, 1	77. 6	37	213. 0	103. 9	97	266. 9	130, 2
	1	52. 1	25, 4	18	106, 1	51.7	78	160, 0	78.0	38	213. 9	104, 3	98	267. 8	130.6
	59	53, 0	25. 9	19	107, 0	52. 2	79	180, 9	78, 5	39	214.8	101.8	99	268. 7	131.1
	30	53, 9	26, 3	20	107. 0	52. 6	80	161. 8	78.9	40	215.7	105, 2	300	269, 6	131.5
1	1	*1.3, .3	-17, 13	1	4171		1		,	1 '''	21		,	3	
10	1 12	T1	L et.	Dist.	Dep.	Lat.	Dist.	Dep.	1	Itist.	Dep.	Lat.	Dist	Dep.	Lat.
120		Dep.	1 1. 11.	12750	prep.	Lat.	17150.	- ampa		1	144 144	12000		rep.	IAIV.

Difference of Latitude and Departure for 26° (154°, 206°, 334).

									,			, 		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
001	0-0-5	100.0	0.27	201 -	150.0	101	970 4	1011 0	601	(0.0. 0	010 0	F 13	100 0	007.0
301	270, 5	132.0	361	324, 5	158.3	421	378.4	184.6	481	432, 3	210.9	541	486. 2	237. 2
02	271.4	132, 4	62	325. 4	158.7	22	379.3	185.0	82	433, 2	211.3	42	487.1	237. 6
- 03	272.3 273.2	132.8	63	326. 3	159, 1	23	380, 2	185.4	83	434, 1	211.7	43	488, 0	238, 0
04	273. 2	133, 3	64	327. 2	159.6	24	381.1	185, 9	84	435.0	212.2	44	488.9	238.5
-05	274.1	133.7	65	328, 1	160.0	25	382. 0 382. 9	186.3	85	435, 9	212, 6	45	489, 8	238, 9
- 06	275.0	134. I	- 66	329, 0	160.4	26	382. 9	186, 7	86	436, 8	213.0	46	490.7	239.3
07	275.9	134.6	67	329, 9	160.9	27	383. S	187. 2	87	437.7	213.5	47	491.6	239, 8
- 08	276. 8	135, 0	68	330, S	161.3	28	384.7	187.6	-88	438, 6	1213.9	48	492.5	240.2
- 09	277.7	135, 5	69	331.7	161.8	29	385.6	188, 1	89	439.5	214.4	49	493.4	240.7
10	278.6	135.9	70	332.6	162.2	30	386, 5	188.5	90	440.4	214.8	50	494.3	241.1
311	279.5	136, 3	$\bar{371}$	333, 5	162, 6	431	387.4	188. 9	491	441.3	215.2	551	495, 2	241.5
12	280. 4	136.8	72	334.4	163. 1	32	388.3	189, 4	92	442, 2	215. 7	52	496.1	242.0
13	281.3	127 9	73	335.3	163. 5	33	389. 2	189.8	93	443. 1	216. 1	53	497.0	242.4
14	000.0	$137.2 \\ 137.7$	74	336. 2	164.0	34	390.1	190.3	94	444.0	216. 6	54	497.9	242. 9
	$282.2 \\ 283.1$	190.1	172	200, 2							210.0			0.19 9
15	200.1	138.1	75	337.1	164.4	35	391.0	190.7	95	411.9	217. 0	55	498.8	243.3
16	284.0	138.5	76	338.0	164. 8	36	391.9	191.1	96	445.8	217.4	56	499.7	243.7
17	284. 9	139.0	77	338.9	165.3	37	392.8	191.6	97	446.7	217.9	57	500.6	244. 2
18	285, 8	139, 4	78	339.8	165.7	38	393. 7	192.0	98	447.6	218.3	58	501.5	244.6
19	286, 7	139.8	79	340.7	166, 2	39	394.6	192.4	99	448.5	218, 7	59	502.4	245.0
20	287.6	140.3	80	341.5	166, 6	_40	395, 5	192.9	500	449.4	219.2	60	503.3	245.5
321	288.5	140, 7	381	342.4	167.0	441	396. 4	193.3	501	450, 3	219, 6	561	504.2	245, 9
90	289.4	141.2	82	343.3	167.5	42	397.3	193.8	02	451.2	990 1	62	505.1	246. 4
23	290.3	141.6	83	344. 2	167.9	43	398. 2	194.2	03	452. 1	220.5	63	506.0	246.8
24	291.2	142.0	84	345.1	168, 3	44	399.1	194.7	04	453.0	221.0	64	506.9	247.3
25	292.1	142.5	85	346.0	168.8	45	400.0	195.1	05	453.9	221.4	65	507.8	247.7
26	293.0	142.9	86	346.9	169.2	46	400.9	195.5	06	454.8	221.8	66	508.7	248.1
27	293, 9	143. 4	87	347.8	169. 7	47	401.8	196.0	07	455. 7	222. 3	67	509.6	248.6
98	294.8	143.8	88	348. 7	170.1	48	102.7	196. 4	08	456.6	222. 7	68	510.5	249.0
28 29	295. 7	144.2	89	349.6	170.5	49	402.7 $403.6$	196.8	09	457.5	223. 1	69	511.4	249. 4
30	296.6	144.7	90	350.5	171.0	50	404.5	197.3	10	458.4	223.6	70	512.3	249. 9
331	297.5	145.1	391	351.4	171.4	451	405. 4	197.7	511	459.3	224.0 $224.4$	571	513. 2	250.3
32	298.4	145.6	92	352.3	171.8	52	406.3	198.1	12	460.2	224.4	72	514.1	250.8
33	299.3	146.0	93	353. 2	172.3	53	407. 2	198.6	13	461.1	224.9	73	515.0	251. 2
34	300, 2	146, 4	94	354. 1	172.7	54	408.1	199.0	14	462.0	225.3	74	515.9	251.6
35	301.1	146.9	95	355.0	173.2	55	409.0	199.5	15	462, 9	225, 8	75	516.8	252.1
36	302.0	147.3	96	355, 9	173.6	56	409.9	199.9	16	463, 8	226.2	76	517.7	252. 5 252. 9
37	302.9	147, 7	97	356. 8	174, 0	57	410.8	200, 3	17	464.7	226.6	77	518.6	252.9
38	303.8	148.2	98	357.7	174.5	58	411.7	200.8	18	465, 6	227.1	78	519.5	253.4
39	304.7	148.6	- 99	358.6	174.9	59	412.6	201. 2	19	466, 5	227.5	79	520.4	253.8
40	305.6	149.0	400	359, 5	175.4	60	413.5	201.7	20	467.4	228.0	80	521.3	254.3
341	306.5	149.5	401	360.4	175. S	461	414.4	202.1	521	468.3	228, 4	581	522. 2	254.7
42	307.4	149.9	02	361.3	176.2	62	415. 2	202.5	22	469. 2	228, 8	82	523.1	255. 1
43	308.3	150.4	03	362. 2	176.7	63	416.1	203. 0	23	470.1	229.3	83	524. 0	255.6
44	309, 2	150.8	04	363.1	177.1	64	417.0	203. 4	24	471.0	229.7	84	524, 9	256.0
45	310. 1	151. 9	05	364.0	177.5	65	417.9	203. 8	25	471.9	230. 1	85	525. 8	256.4
46 .	311.0	$151.2 \\ 151.7$	06	364.9	178.0	66	418.8	204. 3	26	472.8	230. 6	86	526. 7	256. 9
47	311.9	152. 1	07	365. 8	178.4	67	419.7	204. 7	27	473.7	231. 0	87	527.6	257.3
48	312.8	152. 6	08	366.7	178.9	68	420.6	205, 2	28	474.6	231, 5	88	528.5	257.8
49	313. 7	153.0	09	367.6	179.3	69	421.5	205. 6	29	475.5	231. 9	89	529.4	258. 2
50	314.6	153. 4	10	368, 5	179. 7	70	422.4	206. 0	30	476.4	232.3	90	530.3	258.6
351	315. 5	153. 9	411	369.4	180, 2	471	423.3	206. 5	531	477.3	232. 8	591	531. 2	259. 1
52	316.4	154.3	12	370.3	180.6	72	424. 2	206. 9	32	478.2	233. 2	92	532.1	259.5
53	317.3	154.7	13	371, 2	181.1	73	425.1	207.3	33	479.1	233.6	93	533.0	259.9
54	318.2	155, 2	14	372. 1 373. 0	181.5	74	426.0	207.8	34	480.0	234.1	94	533, 9	260.4
55	319.1	155.6	15	373.0	181.9	75	426.9	208.2	35	480.9	234.5	95	534.8	260.8
56	320.0	156.1	16	373.9	182, 4	76	427.8	208.7	- 36	481.8	235.0	96	535, 7	261.3
57	320.9	156, 5	17	374, S	182.8	77	428.7	209.1	37	482.7	235.4	97	536. 6	261.7
58	321.8	156.9	18	375.7	183.2	78	429, 6	209, 5	38	483, 6	235.8	98	537.5	262.1
59	322.7	157.4	19	376, 6	183.7	79	430, 5	210, 0	39	484.5	236, 3	90	538, 4	262. 6
60	323.6	157.8	20	377.5	184.1	80	431.4	210.4	40	485, 3	236, 7	600	539.3	263.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	F									- P*			Pr	
					64°	(116°	, 244°,	296°).						

### Page 584]

#### TABLE 2.

Difference of Latitude and Departure for 27° (153°, 207°, 333°).

			Dinere.				Departu			33', 207				
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	La:	Dep.
1	0.9	0.5	61	54.4	$\frac{27.7}{28.1}$	121 22 23	107.8	54. 9	181	161.3	82.2	241	214.7	109.4
2	1.8	0.9	62	55. 2	28.1	22	108.7	55.4	82	162. 2 163. 1	82.6	42	215.6	109.9
3	2.7	1.4	63	56.1	28.6	23	109.6	55.8	83	163.1	83.1	43	216.5	110.3
4	3.6	1.8	64	57.0	29. 1	24 25	110, 5	56.3	84	163.9	83.5	44	217.4	110.8
5	4.5	2.3 2.7	65 66	57. 9 58. 8	29, 5 30, 0	26	111. 4 112. 3	56.7	85 86	164. 8 165. 7	84.0 84.4	45 46	218.3 219.2	111.2 111.7
6 7	5.3	3. 2	67	59.7	30.4	27	113. 2	57. 2 57. 7	87	166. 6	84.9	47	219. 2	119 1
ś	6. 2	3. 6	68	60, 6	30.9	28	114.0	58.1	88	167.5	85.4	48	221.0	112. 1 112. 6
9	8.0	4.1	69	61.5	31, 3	29	114.9	58.6	89	168.4	85.8	49	221.9	113.0
10	8.9	4.5	70	62.4	31.8	30	115. 8	59.0	90	169.3	86.3	50	200 %	113.5
11	9.8	5. 0		63.3		131	116.7	59.5	191	170.2	86.7	251	223, 6	114.0
12	9, 8 10, 7	5, 4	$\frac{71}{72}$	64. 2	$\frac{32.2}{32.7}$	32	117.6	59. 9	92	171.1	87.2 87.6	52	224.5	114.4
13	11.6	5.9	73	65, 0	33. I	- 33	118.5	60.4	93	$171.1 \\ 172.0$	87.6	58	225.4	114.9
1.4	12.5	6.4	74	65, 9	33, 6	34	119.4	60.8	- 94	172.9	88.1	54	226.3	115.3
15	13.4	6, 8	74 75	66, 8	34. 0	35	120.3	61.3	95	172.9 173.7	88.5	55	227. 2	-115.8
16	14.3	7.3	76	67. 7	34. 5	36	121.2	61.7	96	174.6	89.0	56	228.1	116.2
17	15, 1	7.7 8.2	77	68, 6	35, 0	37	122. 1	62. 2 62. 7	97	175.5	89.4	57	229.0	116.7
18	16.0	8. 2	78	69, 5	35.4	38	$123.0 \\ 123.8$	62.7	98	176.4 177.3	89,9	58	229.9	117. I 117. C
19	16. 9	8.6	79	70.4	35, 9	39	123.8	63.1	99	177.3	90.3	59	230. 8	117.1
20	17.8	9.1	80	71.3	36, 3	40	124.7	63, 6	200	178.2	90.8	_60	231.7	118.0
21	18. 7	9.5	81	72. 2 73. I	36.8	141	125.6	64. 0 64. 5	201	179. I	91.3 91.7	261	232. 6 233. 4	118.5 118.9
22	19.6	10.0	82	75.1	37. 2 37. 7	42	126, 5   127, 4		02 03	180.0	92.2	62 63	234, 3	119.4
23 24	20.5 21.4	10.4 10.9	83 84	74.0 $74.8$	38.1	43 44	128.3	64.9 65.4	03	180. 9 181. 8	92.6	64	235, 2	119.5
25	21.4	11.3	85	75.7	38.6	45	129. 2	65.8	05	182.7	93.1	65	236. 1	120.
26	23. 2	11.8	86 86	76.6	39.0	46	130. 1	66. 3	06	183. 5	93.5	66	237. 0	120. 8
27	24. 1	19 3	87	77.5	39. 5	47	131.0	66. 7	07	184.4	94.0	67	237.9	121. 2
28	24. 9	12.3 12.7	88	78.4	40.0	48	131.9	67. 2	08	185, 3	94.4	68	238. 8	121.7
29	25, 8	13. 2	89	79.3	40.4	49	132. 8	67.6	-09	186. 2	94.9	69	239.7	122. 1
30	26. 7	13.6	90	80. 2	40.9	-50	133.7	68.1	10	187. I	95.3	70	240, 6	122. I 122. 6
31	27. 6	14. 1	91	81.1	41.3	151	134.5	68.6	211	188, 0	95.8	271	241.5	123. 0
32	28. 5	14.5	92	$82.0 \\ 82.9$	41.8	52	135.4	69.0	12	188.9	96.2 96.7 97.2	72 73	242.4	123.5 123.9
33	29, 4	15.0	-93	82.9	42, 2 42, 7	53	136. 3	69.5	13	189, 8	96.7	73	243.2	123. 9
34	30. 3	15.4	94	83.8	42.7	54	137. 2	69. 9	14	190.7	97.2	74	244.1	124.4
35	31.2	15.9	95	84. 6	43.1	55	138. 1	70.4	15	191.6	97.6	75	245, 0	124.5
36	32. 1	16.3	96	85, 5	43.6	56	139, 0	70.8	16	192.5	98.1	76 77	245. 9	125.3
37	33, 0	16. 8 17. 3	97	86, 4 87, 3	44.0	57	139. 9 140. 8	71.3	17 18	193.3	98.5 99.0	78	246, 8 247, 7	125.8 126.1
38	33, 9	17. 7	98	88. 2	44. 9	58 59	141.7	72. 2	19	194. 2 195. 1	99.4	79	248.6	126.
39	34.7 35.6	18. 2	99 100	89. 1	45. 4	60	142. 6	72.6	20	196.0	99.9	80	249.5	127. 1
	$\frac{36.5}{36.5}$	18.6	101	90.0	45. 9	161	143.5	73. 1	221	196. 9	100.3	281	250.4	127. 6
41	37.4	19.1	02	90. 9	46, 3	62	144.3	73. 5	- 99	197.8	100.8	82	251.3	128. 0
43	38. 3	19.5	03	91.8	46. 8	63	144.3 145.2	74. 0	23	198.7	101.2	82 83	252. 2	128. 5
44	39, 2	20.0	04	92. 7	47. 2	64	146, 1	74.5	24	199.6	$\frac{101.2}{101.7}$	84	252. 2 253. 0	128. 8 128. 9
45	40. 1	20.4	05	93. 6	47.7	65	147.0	74.9	25	200.5	102.1	85	253. 9	-129.4
46	41.0	20, 9	-06	94. 4	48. I	- 66	147. 9	75.4	26 27	201.4	102.6	86	254.8	129,
47	41.9	21.3	07	95. 3	48.6	67	148.8	75.8	27	202.3	103.1	87	255, 7	130.
48	42.8	21.8	- 08	96.2	49.0	68	149.7	76.3	28	203. 1	103.5	-88	256, 6	130.
49	43. 7	22. 2 22. 7	09	97.1	49.5	69	150, 6	76. 7	29	204.0	104.0	89	257.5	131. 131.
50	44, 6	22.7	10	98.0	49, 9	70	151.5	77.2	30	204.9	104.4	90	258.4	
51	45.4	23, 2 23, 6	111	98, 9	50.4	171	152.4	77.6	231	205. 8	104.9	291	259, 3	132.
52	46.3	23, 6	12	99, 8	50.8	72 73 74	153. 3	78, 1	32 33	206. 7	105.3	92 93	260. 2 261. 1	132. 133.
53	47.2	24. 1	13	100.7	51.3	73	154.1	78.5		207.6	105.8		261. 1	133.
54	48.1	24.5	14	101.6	51.8	75	155, 0 155, 9	79. 0 79. 4	34 35	208.5 209.4	106.2 106.7	94	262. 8	133.
55	49. 0	25, 0	15	102.5	52, 2 52, 7	76	156, 8	79, 9	36	210.3	100.7	96	263. 7	134.
56	$\frac{49.9}{50.8}$	25, 4 $25, 9$	16 17	103. 4 104. 2	53, 1	177	157. 7	80.4	37	210.3	107.6	97	264. 6	134.
57 58	51.7	-26.9 -26.3	18	104. 2	53, 6	1 78	158, 6	80, 8	38	212. 1	108.0	98	265, 5	135.
59	52.6	26, 8	19	106, 0	54.0	78 79	159. 5	1 81.3	39	213.0	108.5	99	266, 4	135.
60	53, 5	27. 2	20	106, 9	54.5	80	160, 4	81.7	40	213.8	109.0	300	267.3	136.
	00.0		1			-	-		-			l		
Dist.	Dep.	Lat.	Dist	Dep.	Lat	Dist.	Dep.	Lat.	Dist.	Dep.	Lat	Dist.	Dep.	Lat
						63° (	117°, 24	3°, 297°	٥).					

Difference of Latitude and Departure for 27° (153°, 207°, 333°).

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Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Lep.
301	268. 2	136. 7	361	321.7	163. 9	421	375.1	191. 1	481	428, 6	218.3	541	482.0	245, 6
02	269. 1	137.1	62	322.5	164.4	22	376.0	191.6	82	429.4	218.8	42	482.9	246, 1
03	270.0	137. 6	63	323. 4	164.8	23	376.9	192.0	83	430.3	219. 2	43	483.8	246.5
04	270. 9 271. 8 272. 7	138.0	64	324.3	165.3	24	377.8	192.5	84	431.2	219.7	44	484.7	247. 0
05	271.8	138.5	65	325.2	165.7	25	378.7	193, 0	85	432.1	220, 1	45	485.6	247.4
-06	272.7	138.9	-66	326. 1	166. 2	26	379, 6	193, 4	- 86	433.0	220, 6	46	486.4	247.9
07	273.5	139.4	67	327.0	166.6	27	380.5	193, 9	87	433.9	221. 1	47	487.3	248.4
08	274.4	139.8	68	327.9	167.1	28	381.4	194.3	88	434.8	221.5	48	488.2	248, 8
-09	275.3	140.3	69	328, 8	167.5	29	382. 2	194.8	- 89	435.7	222.0	49	489.1	249, 2
10	276.2	140.7	70	329.7	168.0	30	383.1	195.2	90	436, 6	222. 4	50	490.0	249, 7
311	277.1	141.2	371	330.6	168.4	431	384.0	195.7	491	437, 5	222.9	551	490.9	250.1
12	278.0	141.7	72 73 74 75	331.5	168.9	32	384.9	196, 1	92	438, 3	223, 3	52	491.8	250, 6
13	278.9	$142.1 \\ 142.6$	73	332, 3 333, 2	169.3	- 33	385.8	196.6	93	439.2	223. 8	53	492.7	251.0
14	279.8	142.6	74	333. 2	169.8	34	386.7	197.0	94	440.1	224. 2 224. 7	54	493.6	251.5
15	280.7	143.0	75	334.1	170.3	35	387.6	197.5	95	441.0	224.7	55	494.5	252.0
16	281.6	143.5	76	335.0	170.7	36	388.5	197.9	96	441.9	225. 2	56	495, 4	252.4
17	282.5	143.9	77	335.9	171.2	37	389.4	198.4	97	442.8	225, 6	57	496, 3	252.9
18	283. 3	144. 4	78	336.8	171.6	38	390.3	198.9	98	443. 7	226. 1	58	497. 2	253.3
19	284. 2	144.8	79	337.7	$172.1 \\ 172.5$	39	391.2	199.3	99	444.6	226, 5	59	498.1	253, 8
_20	285.1	145.3	_80	338.6		40	392.0	199.8	500	445.5	227.0	-60	499.0	254, 2
321	286.0	145.7	381	339. 5	173.0	441	392. 9	200.2	501	446, 4	227.5	561	499, 8	254. 7
22	286.9	146.2	82	340. 4	173.4	42	393.8	200.7	02	447.3	227.9	62	500.7	255.1
23	287.8	146. 6	83	341.3	173.9	43	394.7	201.1	03	448.2	228.4	63	501.6	255.6
24	288.7	147.1	84	342.1	174.3	44	395.6	201.6	04	449.0	228. 8	64	502.5	256. 0
25	289. 6	147.6	85	343.0	174.8	45	396.5	202. 0	05	449.9	229.3	65	503.4	256. 5
26	290.5	148.0	86	343.9	175. 2	46	397.4	202.5	06	450. 8	229.8	66	504.3	257.0
27 28	291.4 292.3	148.5	87	344. 8	175. 7	47	398.3	202. 9 203. 4	07	451.7	230. 2 230. 6	67	505.2	257.4 257.9
28 29	293. 2	148.9 149.4	88 89	345. 7 346. 6	176. 2 176. 6	48 49	399. 2 400. 1	203. 4	08	452. 6 453. 5	231.0	68 69	506. 1 507. 0	258.3
30	294. 0		90		177.1	50	401.0	203. 8	10		231. 5	70	507.9	258.8
	294. 9	149.8		347.5						454.4	231. 9		508. 7	259, 2
331 32	294. 9	150. 3	391 92	348. 4	177.5	451	401.8	204.7	$\frac{511}{12}$	455. 3		571	509.6	259. 7
33	296. 7	150. 7 151. 2	93	349.3 350.2	178.0  $ 178.4 $	52 53	402.7	205. 2 205. 7	13	456. 2	232.4 232.9	72 73	510.5	260. 1
34	297.6	151. 6	94	351.1	178. 9	54	404.5	206. 1	14	457.1 458.0	233. 3	74	511.4	260. 6
35	298.5	152.1	95	352.0	179.3	55	405.4	206. 6	15	458.8	233.8	75	512.3	261.1
36	299. 4	152. 1	96	352.0	179.8	56	406.3	207. 0	16	459.7	934 9	76	513. 2	261.5
37	300. 3	152. 5 153. 0	97	352. 8 353. 7	180.2	57	407. 2	207.5	17	460, 6	$234.2 \\ 234.7$	77	514.1	262.0
38	301. 2	153. 5	98	354.6	180. 2 180. 7	58	408. 1	207. 9	18	461.5	235. 2	78	515.0	262. 4
39	302. 1	153.9	99	355.5	181. 2	59	409.0	208.4	19	462.4	235. 7	79	515.9	262. 9
40	302.9	154. 4	400	356.4	181.6	60	409.9	208.8	20	463. 3	236. 1	80	516.8	263.4
341	303.8	154.8	401	357.3	182.1	461	410.8	209.3	521	464. 2	236.6	581	517.7	263. 8
42	304. 7	155. 3	02	358. 2	182.5	62	411.6	209.8	22	465. 1	237.0	82	518.5	264.3
43	305.6	155. 7	03	359.1	183.0	63	412.5	210. 2	23	466. 0	237.5	83	519.4	264. 7
44	306.5	156. 2	04	360.0	183.4	64	413.4	210. 7	24	466.9	237. 9	84	590.3	265. 2
45	307. 4	156.6	05	360. 9	183. 9	65	414.3	211.1	25	467.8	238.4	85	521. 2	265. 6
46	308.3	157.1	06	361.8	184.3	66	415. 2	211.6	26	468.7	238.8	86	522.1	266.0
47	309. 2	157.5	07	362.6	184.8	67	416.1	212.0	27	469.5	239.3	87	523.0	266.5
48	310.1	158.0	08	363.5	185. 2	68	417.0	212.5	28	470.4	239.7	- 88	523.9	267.0
49	311.0	158.5	-09	364.4	185.7	69	417.9	212.9	29	471.3	240.2	89	524.8	267. 4
50	311.9	158. 9	10	365.3	186.1	70	418.8	213.4	30	472.2	240.6	90	525.7	267. 9
351	312.7	159.4	411	366.2	186.6	471	419.7	213.8	531	473.1	241.1	591	526.6	268.3
52	313.6	159.8	12	367.1	187.1	72	420.6	214.3	32	474.0	241.5	92	527.5	268.8
53	314.5	160.3	13	368.0	187.5	72 73	421.4	214.7	33	474.9	242.0	93	528.4	269, 2
54	315.4	160.7	14	368.9	188.0	74 75	422.3 423.2	215.2	34	475.8	242.4	94	529, 3	269.7
55	316.3	161. 2	15	369.8	188.4	75	423. 2	215. 7	35	476.7	242.9	95	530.1	270.1
56	317.2	161.6	16	370. 7	188.9	76	424.1	216.1	36	477.6	243.4	96	531.0	270.6
57	318.1	162. 1	17	371.6	189.3	77	425.0	216.6	37	478.4	243. 8	97	531.9	271.1
58	319.0	162.5	18	372.4	189.8	78	425.9	217.0	38	479.3	244.3	98	532. 8	271.5
59	319.9	163.0	19	373. 3	190. 2	79	426.8	217.5	39	480. 2	244.7	99	533.7	272. 0 272. 4
60	320.8	163.4	20	374. 2	190.7	80	427. 7	217.9	40	481.1	245, 2	600	534. 6	272.4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						299 /1	17°, 243	0 0050	\					
1					,	03- (1	11", 243	, 297	) •					

TABLE 2.

Difference of Latitude and Departure for 28° (152°, 208°, 332°).

1 2 3	0. 9 1. 8 2. 6	0, 5	61						_					
2 3	1.8			53. 9	28.6	121	106.8	56, 8	181	159. s	85.0	241	212. S	113. 1
3	0.4	0.9	62	54. 7	29. 1	22	107. 7	57. 3	82	160. 7	85, 4	42	213. 7	113. 6
		1.4	-63	55, 6	29, 6	23	108.6	57.7	-83	161.6	85. 9	43	214.6	114.1
4	3, 5	1.9	64	56. 5	30, 0	24	109, 5	58, 2	84	162.5	86.4	44	215.4	114.6
5 6	4. 4 5. 3	2.3 2.8	65 66	57.4 58.3	30, 5	25 26	110.4 111.3	58.7	85 86	$163.3 \\ 164.2$	86.9 87.3	45	216.3 217.2	115.0
7	6, 2	3, 3	67	59. 2	31.5	27	112.1	59, 6	87	165. 1	87.8	46 47	218.1	115.5 116.0
8	7. 1	3, 8	68	60. 0	31.9	28	113. 0	60.1	88	166.0	88.3	48	219.0	116.4
9	7. 1 7. 9	4. 2	69	60. 9	32, 4	29	113.9	60, 6	89	166, 9	88.7	49	219.9	116.9
10	8, 8	4. 7	_70	61.8	32. 9	_30	114.8	61.0	90	167.8	89.2	50	220.7	117.4
11	9.7	5, 2	71	62. 7	33, 3	131	115.7	61.5	191	168. 6	89.7	251	221.6	117.8
12 13	10.6 11.5	5.6 6.1	72 73	63, 6 64, 5	33, 8 34, 3	32 33	116.5 117.4	62. 0 62. 4	92 93	169.5 170.4	90, 1 90, 6	52 53	222.5 223.4	118.3 118.8
14	12.4	6, 6	74	65, 3	31.7	34	118.3	62. 9	94	171.3	91.1	54	224.3	119. 2
15	13, 2	7.0	75	66.2	35, 2	35	119.2	63.4	95	172. 2 173. 1	91.5	55	225. 2	119.7
16	14. 1	7.5	76	67. 1	35, 7	36	120.1	63, 8	96	173.1	92.0	56	226.0	120. 2
17 18	15. 0 15. 9	8. 0 8. 5	77 78	68, 0 68, 9	36, 1 36, 6	37 38	121. 0 121. 8	64.3 64.8	97 98	173. 9 174. 8	92, 5 93, 0	57 58	226, 9 227, 8	120. 7 121. 1
19	16.8	8.9	79	69, 8	37. I	39	122.7	65, 3	99	175. 7	93, 4	59	228.7	121. 1
20	17. 7	9.4	80	70.6	37.6	40	123. 6	65.7	200	176.6	93.9	60	229.6	122.1
21	18.5	9, 9	-81	71.5	38.0	141	124.5	66. 2	201	177.5	94. 4	261	230, 4	122.5
22	19.4	10.3	82	72.4	38.5	42	125.4	66. 7	02	178.4	94.8	62	231.3	123.0
23 24	20.3   21.2	10.8	83	73. 3	39. 0	43	126.3	67.1 67.6	-03	179. 2	95.3	63	232. 2 233. 1	123. 5 123. 9
24 25	22.1	11.3 11.7	84 85	74. 2 75. I	39. 4 39. 9	44 45	127.1 128.0	68.1	04 05	180. 1 181. 0	95, 8 96, 2	64	233. 1	123, 9
26	23. 0	12.2	86	75. 9	40, 4	46	128, 9	68.5	06	181.9	96. 7	66	234.9	124. 9
27	23, 8	12.7	87	76. S	40, 8	47	129.8	69, 0	-07	182, 8	97.0	67	235, 7	125, 3
28	24. 7	13. 1	88	77.7	41.3	48	130.7	69, 5	08	183.7	97.7	68	236, 6	125.8
29 30	25, 6	13.6	89 90	78.6	$\frac{41.8}{42.3}$	49 50	131.6	70.0	09 10	184.5	98, 1	69 70	237, 5 238, 4	126, 3 126, 8
-31	26, 5 27, 4	$\begin{bmatrix} 14.1 \\ 14.6 \end{bmatrix}$	= <del>80</del> 91	$-\frac{79.5}{80.3}$	42. 7	151	$\frac{132.4}{133.3}$	[70, 4]	$\frac{10}{211}$	185.4 $186.3$	98, 6 99, 1	271	239, 3	
32	28.3	15.0	92	81, 2	43. 2	52	134, 2	71.4	12	187. 2	99.5	79	240. 2	127. 2 127. 7
33	29. 1	15, 5	93	82. 1	43. 2 43. 7	53	135. 1	71.8	13	188, 1	100.0	72 73	241.0	128, 2
1-1:	30, 0	16, 0	94	83.0	44.1	54	136, 0	72.3	14	189.0	100.5	74	241.9	128, 6
35 36	30, 9 31, 8	16.4	95 96	83, 9 84, 8	$\frac{44.6}{45.1}$	55 56	136.9 $137.7$	72.8 73.2	15 16	189, 8 190, 7	100.9 101.4	75	242. 8 243. 7	129, 1 129, 6
37	32.7	16, 9 17, 1	97	85, 6	45, 5	57	138, 6	73.7	17	191.6	101. 4	76 77	244.6	130. 0
338	33, 6	17.8	98	86, 5	46, 0	58	139, 5	74.2	18	192.5	102, 3	78	215, 5	130.5
39	34. 1	48, 3	99	87.4	46, 5	59	140, 4	74, 6	19	193, 4	102.8	79	246, 3	131, 0
40	35, 3	18.8	100	88, 3	$_{-46, 9}$	60	141.3	75. I	20	[194, 2]	103. 8	_ 80	247. 2	131.5
41	36.2	19.2	101	89, 2	17.4	161	112.2	75.6	221	195, 1	103.8	281	248. 1 249. 0	131. 9 132. 4
43 4	37. 1 · 38. 0	19.7 20.2	02	90, 1 90, 9	47. 9 48. 4	62 63	143, 0 143, 9	76. 1 76. 5	23	196, 0 196, 9	104. 2 104. 7	82 83	249. 9	132. 9
44	38, 8	20.7	01	91. 8	48, 8	64	144. S	77.0	24	197. 8	105, 2	84	250. 8	133.3
45	39, 7	21.1	05	92.7	49, 3	65	145.7	$\frac{77.5}{77.9}$	25	198.7	105, 6	85	251.6	133, 8
46	40, 6	21.6	06	93, 6	49, 8	6363	146.6	77. 9	26	199. 5	106, 1	86	252.5	134.3
47	41, 5 (	22. 1 22. 5	07 08	94, 5 95, 4	50.2 50.7	67 68	147.5 148.3	78. 4 78. 9	27 28	200.4	106, 6 107, 0	87 88	253, 4 254, 3	134.7 $135.2$
49	43, 3	23.0	09	96. 2	51. 2	69	149.2	79.3	29	202. 2	107.5	89	255, 2	135, 7
50	44.1	23.5	10	97.1	51.6	70	150, 1	79, 8	30	203.1	108, 0	90	256, 1	136, 1
51	45, 0	23, 9	111	98, 0	52. 1	171	151.0	80.3	231	204.0	108.4.	291	256, 9	136. 6
52	45, 9	24.4	12	98, 9	52, 6	72	151, 9	80, 7	32	204.8	108, 9	92	257. 4	137. 1
53 ± 54	46, 8	24. 9 25. 4	13 14	99, 8 100, 7	53, 1 53, 5	73 71	152, 7 $153, 6$	81. 2 81. 7	33 34	205. 7 206. 6	109, 4 109, 9	93	258, 7 259, 6	137, 6 138, 0
55	48, 6	25, 8	15	101.5	51, 0	75	154, 5	82.2	35	207.5	110.3	95	260, 5	138.5
56	19, 1	26, 3	16	102.4	54.5	76	155, 4	82, 6	36	208.4	110.8	96	261.4	139, 0
57	50, 3	26, 8	17	103, 3	54, 9	77	156, 3	83. 1	37	209.3	111.3	97	262.2	139, 4
58 59	51.2	27. 2 27. 7	18	104. 2	55.4	78 79	157, 2 158, 0	83, 6 84, 0	38 39	210. I 211. 0	111.7	98	263, 1 264, 0	139, 9
60	52, 1 53, 0	28.2	19 20	105, 1 106, 0	55, 9 56, 3	80	158, 9	84. 5	40	211.0	$\frac{112.2}{112.7}$	300	264.9	140. 4
_		22											2	
Dist	Dep.	Lat.	Dist.	Dep.	Ist.	Dist.	Dep	fat.	Dist.	Dep.	Lat.	Inst.	Dep.	Lat.
						62° (1	IS°, 212	°, 298°	).					

Difference of Latitude and Departure for 28° (152°, 208°, 332°).

										,	, , , ,	<i></i>		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	265. 7	141.3	361	318.7	169.5	421	371.7	197.7	481	424.7	225. 8	541	477.7	254. 0
02	266. 6	141.8	62	319.6	170.0	22	372.6	198.1	82	425. 6	226. 3	42	478.6	254.5
03	267.5	1.19 2	63	320.5	170. 4	23	373.5	198.6	83	196.5	226. 8	43	479.4	255 0
04	268.4	142. 3 142. 7 143. 2	64	391 4	170. 4 170. 9	24	374.3	199.1	84	426, 5 427, 4 428, 3	227. 3	44	480.3	255, 0 255, 5 255, 9
05	269. 3	1.12 9	65	321, 4 322, 2	171. 4	25	375, 2	199.5	85	108 3	227. 7	45	481. I	955 0
06	270. 2	143. 7	66	323. 1	171 8	26	376, 1	200.0	86	429. 2	228. 2	46	482.0	256.4
07	271.0	144.1	67	20.1 ()	179 3	27	377. 0	200.5	87	430.1	228, 6	47	482.9	256. 4 256. 9 257. 3
08	271.9	144.6	68	324. 9	172.8	$\tilde{28}$	377.9	200.9	88	430.9	229. 1	48	483.8	257 3
09	272.8	145, 1	69	325. 8	172.0	29	378.8	201. 4	89	431.8	229, 6	49	484.7	257.8
10	273. 7	145.5	70	326.7	172. 3 172. 8 173. 2 173. 7	30	379.6	201. 9	90	432, 6	230, 0	50	485.6	258. 2
311	274.6	146.0	371	327.5	174. 2	431	380, 5	202. 3	491	433. 5	230, 5	$\frac{551}{551}$	486, 5	250.2
10	275. 5	146.5		222 1	174.6	32	281 4	202.8	92	434.4	231.0	52	487.4	250.1
12 13	276.3	146. 9	155	328, 4 329, 3	175.1	33	381.4 382.3	203. 3	93	435.3	231.4	53	488.3	250.1
14	977 9	137.3	13	350 9	175.6	34	383. 2	203. 8	94	126 9	231. 9	54	489. 2	260.0
15	277. 2 278. 1	147. 4 147. 9	72 73 74 75	331 1	175, 6 176, 1	35	384.1	203. 0	95	127 1	939 4	55	490. 1	260.1
16	279.0	148.4	76	330. 2 331. 1 332. 0	176.5	36	384. 9	204. 2 204. 7	96	436. 2 437. 1 437. 9	232. 4 232. 9	56	490.9	258. 7 259. 1 259. 6 260. 1 260. 6 261. 0
17	279.9	148.8	77	332, 8	177 0	37	385. 8	205. 2	97	438.8	233. 4	57	491.8	261.5
18	280.7	149.3	78	333 7	177.0 177.5	38	386.7	205. 6	98	439.7	233. 8	58	492.7	261. 5 262. 0 262. 5
19	281.6	149.8	79	333. 7 334. 6	177.9	39	387.6	206. 1	99	440.6	234. 3	59	493.5	262.5
20	282. 5	150. 2	80	335.5	178.4	40	388.5	206.6	500	441.5	234. 7	60	494.4	262.9
321	283. 4	150. 7	381	336.4	178.9	441	389. 4	207.0	501	442.3	235. 2	561	495.3	263. 4
99	284.3	151. 2	82	337 3	179.3	42	390.9	207. 5	02	443.2	235. 6	$\frac{561}{62}$	496. 2	263. 8
23	285.2	151.6	83	338. 1 339. 0	179.8	43	390. 2 391. 1	208.0	03	444. 1	236. 1	63	497.1	261.2
24	286.0	152.1	84	339. 0	180.3	44	392.0	208.4	04	445.0	236. 6	64	498.0	264. 7
24 25	286. 9	152. 6 153. 1	85	339. 9 340. 8	180. 8 181. 2 181. 7	45	392. 9	208.9	05	445. 0 445. 9	237. 1	65	498.9	264. 7 265. 2 265. 7 266. 2
26	287.8	153. 1	86	340.8	181.2	46	393.8	209.4	06	446. 8 447. 6 448. 5	237.5	66	499.8	265. 7
27	288.7	153.5	87	341.7	181.7	47	394.6	209.9	07	447.6	238.0	67	500.7	266.2
28	289.6	154.0	88	342.6	1 182, 2	48	395.5	210.3	08	448.5	238.5	68	501.6	266, 6
29	290.5	154.5	89	343.4	182.6	49	396.4	210.8	- 09	449.4	239.0	69	502.4	266, 6 267, 1
30	291.3	154.9	90	344.3	183.1	50	397.3	211.3	10	450.3	239, 4	70	503.3	267.6
331	292. 2	155.4	391	345. 2	183.6	451	398. 2	211.7	511	451.2	239.9	571	504.2	268.0
32	293.1	155.9	92	346.1	184.0	-52	399.1	212, 2 $212, 7$	12	452. 1 452. 9	240.4	72	505.1	268.5 $269.0$
33	294.0	156.3	93	347.0	184.5	53	399.9	212.7	13	452.9	240.8	73	505.9	269.0
34	294.9	156. S	94	347.9	185.0	54	400. S	213.1	14	453.8	241.3	74	506.8	L 989 1
35	295. S	157.3	95	348.7	185. 4 185. 9	55	401.7	213.6 $214.1$	15	454.7	241.8	75	507.7	269. 9
36	296.6	157. 7 158. 2 158. 7	96	349, 6	185.9	56	402.6	214.1	16	455.6	242. 2 242. 7	76	508.6	269, 9 270, 4 270, 9
37	297.5	158, 2	97	350, 5	186.4	57	403.5	214.6	17	456.4	242.7	77	509.4	270.9
38	298. 4	158, 7	98	351.4	186. 9 187. 3	58	404.4	215.0	18	457.3 458.2	243. 2	78	510.3	$271.3 \\ 271.8$
39	299.3	159.2	99	352.3	187, 3	59	405. 2	215.5	19	458.2	243.7	79	$511.2 \\ 512.1$	271.8
40	300.2	159.6	400	353.1	187.8	60	406.1	216.0	20	459.1	244.1	80	512.1	272, 3
341	301.0	160. I	401	354.0	188, 3 188, 7	461	407. 0 407. 9	216.4	521	460, 0	244.6	581	513.0	272. 7 273. 2 273. 7 274. 2
42	301.9	160.6	02	354.9	188.7	62	407. 9	216.9	22	460.9	245.0	82	513. 9 514. 8 515. 7	273. 2
43	302. 8	161.0	03	355.8	189, 2	63	408. 8 409. 7	$217.4 \\ 217.8$	23	461.8	245.5	83	514.8	273.7
44 45	303.7	161.5	04	356.7 357.6	189.7	64	409.7	217.8	24	462. 7	246.0	84	510.7	274.2
46	304.6 305.5	162.0 $162.4$	05 06	358.4	190.1	65 66	410.5	218.3	25 26	463.5	246.5	85 ee	516.5	274.7
47	306.4	169 0	07	359.3	190.6 $191.1$	66 67	411. 4 412. 3 413. 2	$218.8 \\ 219.2$	26 27	$\frac{464.4}{465.3}$	246. 9 247. 4	86	517.4 518.3	275. 1 275. 5 276. 0
48	307.2	162. 9 163. 4	08	360. 2	191.1	68	112 9	219. 7	28	466.2	247.4	87 88	510.0	270.0
49	308. 1	163. 8	09	361.1	192.0	69	414.1	220. 2	29	467.1	910 9	89	590 1	276.0
50	309.0	164.3	10	362.0	192.5	70	415.0	220. 7	30	468.0	$248.3 \\ 248.8$	90	519. 2 520. 1 521. 0	277.0
351	309.9	164.8	411		193.0	471	415. 8	221.1	531	468. 9	249.3	591	521.8	
52	310. S	164. 8 165. 3 165. 7	12	362. 9 363. 7	193.4	72	416.7	221. 1	32	469.8	249. S	92	521. 8 522. 6 523. 5 524. 4	277.4 277.9
52	311.7	165. 7	13	364. 6	193. 9	73	417.6	222.1	33	470.7	250. 2	93	523.5	278 1
54	312.5	166.2	14	365.5	194.4	74	417.6 418.5	222.5	34	471.5	250. 7	94	524.4	$278.4 \\ 278.8$
55	313.4	166.7	15	366, 4	194 8	· 75	419, 4	223.0	35	472.4	251.1	95	525 3 1	279.3
- 56	314.3	167.1	16	367.3	195, 3	76	420.3	223.5	36	473.3	251.6	96	526, 2	279.8
57	315.2	167.6	17	368. 2	1195.81	77	421. 1 422. 0	223. 9	37	$473.3 \\ 474.2$	252.1 252.6	97	526. 2 527. 1 528. 0	280.3
58	316.1	168.1	18	369.0	196, 2 196, 7	78	422.0	224.4	38	475.1	252, 6	98	528.0	280, 8
59	316.9	168.5	19	369.9	196.7	79	422.9	224.9	39	476.0	253.1	99	-528, 9	281.3
60	317.8	169.0	20	370.8	197.2	80	423, 8	225.3	40	476.8	253.6	600	529.8	281.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
Dist.	Dep.	Lat.	Dist.	ьер.				<u>'</u> '		Dep.	Lat.	Dist.	рер.	Lat.
1					(	62° (1	18°, 242	°, 298°	).					
					_		AND DESCRIPTION OF THE PARTY OF	MINISTER AND ADDRESS OF THE PERSON NAMED IN	-					

Page 5	[88
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#### TABLE 2.

Difference of Latitude and Departure for 29° (151°, 209°, 331°).

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Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	hep.	Dist.	Lat.	Dep.
1	0, 9	0.5	61	53. 4	29, 6	121	105, S	58. 7	181	158. 3	87.8	241	210. 5	116, 8
2	1.7	1.0	62	54. 2	30. 1	22	106. 7	59.1	82	159, 2	88.2	42	211. 7	117.3
3	2.6	1.5	63	55. 1	30, 5	23	107. 6	59.6	83	160. 1	88.7	43	212.5	117.8
4	3, 5	1.9	64	56, 0	31.0	24	108, 5	60. 1	84	160. 9	89. 2	44	213. 4	118.3
5	1.4	2.4	65	56. 9	31.5	25	109.3	60. 6	85	161.8	89.7	45	214.3	118.8
6	5. 2	2.9	66	57. 7	32, 0	26	110.2	61.1	86	162.7	90, 2	46	215, 2	119.3
7	6. 1	3. 4	67	58, 6	32.5	27	111.1	61.6	87	163.6	90.7	47	216. 0	119.7
8	7. 0	3, 9	68	59. 5	33. 0	$\overline{28}$	112.0	62.1	88	164. 4	91.1	48	216. 9	190.9
9	7. 9	4. 4	69	60.3	33. 5	29	112.8	62.5	89	165.3	91.6	49	217. 8	120, 2 120, 7
10	8.7	4.8	70	61.2	33. 9	30	113.7	63. 0	90	166. 2	92.1	50	218.7	121, 2
11	9. 6	5, 3	71	62.1	34. 4	131	114.6	63. 5	191	167. 1	92.6	251	219.5	121.7
12	10, 5	5, 8	72	63. 0	34. 9	32	115, 4	64. 0	92	167. 9	93, 1	52	220. 4	100.0
13	11.4	6.3	73	63, 8	35.4	33	116.3	64.5	93	168, 8	93, 6	53	221.3	122. 2 112. 7
14	12, 2 13, I	6.8	74	64. 7	35, 9	34	117.2	65.0	94	169.7	94.1	54	222.2	123, 1
15	13. I	7.3 7.8	75	65, 6	36.4	35	118.1	65, 4	95	170, 6	94.5	55	223. 0	123, 6
16	14.0	7.8	76	66, 5	36, 8	36	118.9	65. 9	96	171.4	95, 03	56	223, 9	114.1
17	14.9	8.2	77	67.3	37, 3	37	119, 8	66, 4	97	172.3	95, 5	-57	224. 5	124.6
18	15. 7	8, 7	78	68, 2	37.8	38	120.7	66, 9	98	173.2	96, 0	58	225.7	125.1
19	16. 6	9, 2 9, 7	79	69. 1	38.3	39	121.6	67.4	- 99	174.0	96, 5	59	226.5	125.6
20	-17.5		- 80	70.0	38.8	40	122.4	67.9	200	174.9	97.0	_60_	227.4	126. 1
21	18, 4	10. 2	- 81	70. 8	39.3	141	123. 3	68. 4	201	175, 8	97.4	261	228, 3	126, 5
22 23	19.2	10.7	82	71.7	39, 8	42	124, 2	68, 8	02	176. 7	97. 9	62	229. 2	127.0
23	20.1 21.0	11. 2 11. 6	83 84	72. 6 73. 5	40, 2 40, 7	43	125, 1	69. 3 69. 8	03	177.5	98, 4 98, 9	63 64	230, 0 230, 9	127.5
25	21. 0	12.1	85	74.3	41.2	44 45	125, 9 126, 8	70.3	05	178, 4 179, 3	99.4	65	231.8	$\frac{128.0}{128.5}$
26	22. 7	12. 6	86	75. 2	41.7	46	127. 7	70.8	06	180, 2	99. 9	66	252. 6	129.0
27	23. 6	13. 1	87	76, 1	49 9	47	128.6	71.3	07	181. 0	100, 4	67	233, 5	129, 4
28	24.5	13.6	88	77. 0	42. 2 42. 7	48	129, 4	71.8	08	181.9	100, 8	68	234. 4	129, 9
29	25.4	14.1	89	77. 8	43.1	49	130.3	72. 2	-09	182.8	101.3	69	235, 3	130.4
30	26, 2	14.5	90	78.7	43.6	50	131. 2	72. 2 72. 7	10	183.7	101.8	70	236, 1	130, 9
31	27. 1	15, 0	91	79, 6	44.1	151	132. 1	73. 2	211	184, 5	102.3.	271	237. 0	131.4
32	28, 0	15, 5	92	80, 5	44.6	52	132.9	73. 7	12	185.4	102.8	72 73	237. 9	-131, 9
33	28, 9	16, 0	- 93	81.3	45.1	53	133. s	74. 2 74. 7	13	186.3	103.3	73	238, 5	132.4 132.8
34	29.7	16.5	94	82. 2	45. 6	54	134. 7	74.7	14	187. 2	103. 7	74	239, 6	132, 8
35	30, 6	17.0	95	83.1	46. 1	55	135. 6	75. I	15	188.0	104. 2	75	240, 5	133, 3
36	$31.5 \\ 32.4$	17.5	96	84.0	46.5	56	136. 4	75.6	16	188, 9	104. 7	76 77	241, 4 242, 3	133.8
37 38	33. 2	17. 9 18. 4	97 98	84. 8 85. 7	47. 0 47. 5	57 58	137. 3 138. 2	76. 1 76. 6	17 18	189. 8 190. 7	105, 2 105, 7	78	243. 1	134. 3 134. 8
39	34. 1	18.9	99	86, 6	48, 0	59	139. 1	77.1	19	191.5	106. 2	79	244. 0	135, 3
40	35. 0	19. 4	100	87. 5	48.5	60	139. 9	77.6	20	192. 4	106. 7	80	244. 9	135, 7
41	35, 9	19, 9	101	88.3	49. 0	161	140. 8	78.1	221	193, 3	107. 1	281	245, 8	136.9
42	36. 7	20.4	02	89. 2	49.5	62	141.7	78.5	22	194. 2	107. 6	82	246, 6	136, 2 136, 7
43	37, 6	20, 8	03	90. 1	49.9	63	142.6	79.0	23	195, 0	108.1	83	247.5	137. 2
44	38, 5	21.3	04	91.0	50, 4	64	143. 4	79.5	24	195. 9	108, 6	84	248.4	137, 2 137, 7
45	39. 4	21.8	05	91.8	50, 9	65	144.3	80.0	25	196, 8	109.1	85	249.3	138, 2
46	40.2	22.3	-06	92.7	51.4	- 66	145, 2	80.5	26	197. 7	109, 6	86	250, 1	138.7
47	41.1	22, 8	-07	93. 6	51, 9	67	146, 1	81.0	27	198, 5	110, 1	87	251.0	139, 1
48	42.0	23, 3	08	94. 5	52.4	68	146. 9	81.4	28	199, 4	110.5	- 88	251.9	139. 6
49	42.9	23.8	-09	95. 3	52, 8	69	147.8	81.9	29	200.3	111.0	89	252. 8	140.1
50	43.7	24.2	10	96. 2	53. 3	70	148, 7	82.4	_30.	201.2	111.5	90	253, 6	140, 6
51	44.6	24. 7	111	97.1	53, 8	171	149.6	82. 9	231	202. 0	112.0	291	254. 5	141.1
52	45, 5	25, 2 $25, 7$	12	98.0	54.3	72 73	150.4	83, 4	32	202. 9	112.5	92	255, 4	141.6
53 54	46, 4	26, 2	13	98, 8	54. 8 55. 3	74 74	151.3 152.2	83, 9 84, 4	33 34	203. 8 204. 7	113. 0 113. 4	93	256.3 257.1	142.0 142.5
55 55	47. 2 48. 1	26. 2	14 15	99, 7 100, 6	55, 8	75	153, 1	84.8	35	204.7	113. 9	95	258.0	143.0
56	49, 0	27. 1	16	101.5	56. 9	76	153. 9	85.3	36	206.4	114. 4	96	258, 9	143. 5
57	49, 9	27.6	17	102.3	56. 2 56. 7	77	154. 8	85, 8	37	207. 3	114.9	97	259. 5	144. 0
58	50, 7	28. 1	18	103. 2	57. 2	78	155, 7	86, 3	38	208. 2	115, 4	98	260, 6	144.5
59	51.6	28, 6	19	104.1	57.7	79	156, 6	86, 8	39	209, 0	115.9	- 99	261.5	145, 0
60	52, 5	29. 1	20	105.0	58.2	80	157, 4	87. 3	40	209. 9	116.4	300	262.4	145, 4
						_						-		
Dist.	Dep.	Lut.	Dist	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	1mp.	Lat.
		_				61° (1	19°, 241	0, 200	).					
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TABLE 2.

Difference of Latitude and Departure for 29° (151°, 209°, 331°).

Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
001	000.0	1.15 0	9/21	915 -	175 0	107	969 9	201.1	101	100. 7	199 D	5.11	473.2	262, 3
301	263, 2	145. 9	361	315.7	175.0	42I 22	368. 2	204. 1	481	420.7	233, 2 233, 7	541	470.2	262. 8
05	264. 1	146. 4	62	316.6	175.5	22	369.1	204.6	82	421.5	200. 1	42	474.0	262.8
03	265. 0	146.9	63	317.5	176.0	23	369.9	205. 1	83	422.4	234. 2	43	474.9	263. 2
0-1	265. 9	147.4	64	318.3	176.5	24	370. S	205.6	84	423. 3	234, 6	44	475.8	263. 7
(15	266, 7	147. 9	65	319, 2	177.0	25 26	371.7	206. 0	85	424. 2	235.1	45	476.6	264. 2
06	267.6	148.4	66	320, 1	$^{177,4}_{177,9}$	26	372.6 373.4	206.5	86	425.0	235, 6	46	477.5	264. 7
07	2.8.5	148.8	67	321.0	177.9	27 28	071.0	207.0	87	425.9	236. 1 236. 6	47	478.4	265. 2 265. 7
68	269, 4	149.3	68	321.8	178, 4	28	374.3	207.5	88	426, 8	235, 6	48	479;3	200.7
09	270.2	149.8	69	322.7	178.9	29	375.2	208. 0	89	427.7	237. 1	49	480.1	266. 2
_10	271.1	150.3	70	323, 6	179.4	30	376.1	208.5	90	428.5	237.6	50	481.0	266.6
311	272.0	150. 8 151. 3	371	324.5	179.9	431	376, 9	209, 0	491	429.4	238.0	551	481.9	$267.1 \\ 267.6$
12	272.9	151.3	72	325.3	180. 4	32	377.8	209.4	92	430.3	238, 5	52	482.8	267.6
13	273.7	151.7	73	326.2	180.8	33	378.7	209.9	93	431.2	239.0	53	483.6	268. 1
14	274.6	151. 7 152. 2 152. 7	74	327.1	181.3	34	379.6	210.4	94	432.0	239. 5	54	484.5	268, 6
15	275.5	152.7	7.5	328.0	181.8	35	380.4	210.9	95	432.9	240.0	55	485.4	269.1
16	276.3	153, 2 153, 7	73 74 75 76 77	328.8	182, 3 182, 8	36	381.3 382.2	211.4	96	433.8	240.5	56	486.3	269.5
17	277.2	153.7	7.7	329.7	182.8	37	382.2	211.9	97	434.7	240.9	57	437.1	270.0
18	278.1	154. 2	78	330.6	183.3	38	383.1	212.3	98	435.5	241.4	58	488.0	270.5
19	279.0	154.7	79	331. 4	183.7	39	383.9	212.8	99	436.4	241.9	59	488.9	271.0
20	279.8	155.1	80	332.3	184.2	40	384.8	213. 3	500	437.3	242.4	60	489.8	271.5
321	280.7	155. 6	381	333. 2	184.7	441	385.7	213.8	501	438.2	242, 9	561	490, 6	272.0
20	281.6	156.1	82	334.1	155. 2	42	386.6	214.3	02	439.0	243. 4	62	491.5	272.5
23	282.5	156.6	83	334. 9	185. 7	43	387.4	214.8	03	439.9	243.9	63	492.4	272. 9 273. 4
23 24 25 26 27 28 29	283.3	157.1	84	335.8	186. 2 186. 7 187. 1 187. 6	44	388.3	215.3	04	440.8	244.3	64	493, 2	273.4
25	284.2	157.6	85	336. 7 337. 6	186. /	45	389.2	215. 7	05	441.6	244. 8	65	494.1	273.9 274.4
26	285.1	158.1	86	337.6	187.1	46	390.0	216, 2 216, 7	06	142.5	245.3	66	495.0	274.4
27	286.0	158.5	87	338. 4	187.0	47	390.9	216, 7	07	443.4	245.8	67	495. 9	274.9
28	286.8	159. 0	88 89	339.3	188.1 188.6	48	391, 8 392, 7	217. 2 217. 7	08 09	444.3 445.2	246.3 246.8	68 69	496.8	275. 4 275. 9
30	287.7 $288.6$	159. 5 160. 0	90	340, 2 $341, 1$	189.1	49 50	393.5	218. 2	10	446.1	247.3	70	497. 7 498. 5	276.3
			_											
331	289.5 290.3	160, 5	391   92	341.9	189.6	451 52	394.4	218. 7 219. 1	511 12	$\frac{447.0}{447.8}$	247. 8 248. 2	571 72	499. 4 500. 3	276. 8 277. 3
32 33	290. 5	161.0 161.4	93	342, 8 343, 7	190, 0 190, 5	53	395, 3 396, 2	219. 6	13	448.6	248.7	73	501.1	277.8
34	291. 2 292. 1	161. 9	94	344.6	191.0	54	207.0	220. 1	14	449.5	210 9	1 5	502.0	979 9
35	293. 0	162. 4	95		191.5	55	397. 0 397. 9	220. 6	15	450.4	$249.2 \\ 249.7$	74 75	502.9	278. 3 278. 8
36		162.9	96	346.3	192.0	56	398.8	1,5,57	16	451.3	250. 2	76	503.7	279. 2
37	294.7	163.4	97	347. 2	192.5	57	399.7	221. 6 222. 0 222. 5	17	452.2	250.6	77	504.6	279. 7
38	295. 6	163.9	98	348. 1	193.0	58	400.5	222.0	18	453.1	251.1	78	505.5	280. 2
39	296.5	164. 4	99	348.9	193.4	59	401.4	222.5	19	453.9	251.6	79	506.4	280.7
40	297.3	164. S	400	349.8	193.9	60	402.3	223, 0	20	454.8	252.1	80	507.2	281.2
341	298.2	165.3	401	350.7	194.4	461	403.2	223.5	521	455, 6	252.6	581	508.1	981 7
42	299.1	165.8	02	351.6	194.9	62	404. 0	224.0	99	456.5	253. 1	82	509.0	989 9
43	300.0	166.3	03	352.4	195.4	63	404.9	224.5	22 23	457.4	253. 6	83	509.9	282, 2 282, 7 283, 2 283, 6
44	360, 8	166, 8	04	$352.4 \\ 353.3$	195.9	64	404.9 405.8	225.0	24	$457.4 \\ 458.3$	254.0	84	510.7	283. 2
45	301.7	$166.8 \\ 167.3$	05	354. 2	196, 3	65	406.7	225, 4	24 25	459.1	254.5	85	511.6	283, 6
46	302.6	167.7	-06	355.1	196, 8	66	407.5	225. 9	26	460.0	255, 0	86	512.5	284.1
47	303, 5	168.2	07	355.9	197.3	67	408.4	226.4	27	460.9	255.5	87	513.4	$284.1 \\ 284.6$
48	304.3	168.7	08	356.8	197.8	68	409.3	226.9	28	461.8	256.01	- 88	513. 4 514. 3	285.0
49	305.2	169, 2	- 69	357.7	198.3	69	410, 2	227.4	29	462.6	256.5	- 89	515.1	285.5
50	306.1	169.7	10	358.6	198.8	70	411.0	227.9	30	463.5	256. 9	90	516.0	286, 0
351	307.0	170, 2	411	359.4	199.3	471	411.9	228.3	531	464. 4	257.4	591	516.9	286.5
52	307. S	170, 2 $170, 7$	12 13	360.3	. 199. 7	72	412. 8 413. 7	228.8	32	465, 3	257. 9	92	517. 7 518. 6	$287.0 \\ 287.5$
53	308.7	171, 1	13	361. 2 362. 1	200, 2 200, 7	72 73	413.7	229.3	-33	466. 1 467. 0	258, 4	93	518, 6	287.5
54	309.6	171.6	14	362. I	200.7	74	414.5	229.8	34	467.0	258. 9	94	519.5	288.0
55	310.5	172.1	15	362.9	201.2	75	415.4	230.3	35	467.9	259.4	95	520.4	288, 5
56	311.3	172.6	16	363. 8	201. 7	76 77	416.3	230. 8	36	468.8	259. 9	96	521, 2	288.9
57	312.2	173.1	17	364.7	202. 2	77	417.2	231.3	37	469.6	260.3	97	522.1	289.4
58	313.1	173.6	18	365.6	202. 7	78	418.0	231.7	38	470.5	260.8	98	523. 0	289. 9
59	314.0	174.0	19	366, 4	203. 1	79	418.9	232. 2 232. 7	39	471.4	261.3	99	523.9	290.4
60	314.8	174.5	20	367.3	203.6	80	419.8	232.7	40	472.3	261.8	600	524.8	290, 9
T) / -									700				-	
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
					45	10 /1	19°, 241	0 9000	)					
					0	. (1.	, i	, _1111	<i>)</i> +					

## Page 590]

TABLE 2.

Difference of Latitude and Departure for 30° (150°, 210°, 330°).

										, ,	,			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.9	0.5	61	52. 8	30, 5	121	104.8	60.5	181	156.8	80, 5	241	208.7	120.5
	1. 7	1.0	62	53. 7	31.0	22	105. 7	61.0	82	157. 6	91.0	42	209.6	121.0
2	2, 6	1,5	63	54, 6	31.5	23	106.5	61.5	83	158.5	91.5	43	210.4	121.5
4	3, 5	9.0	64	55, 4	32. 0	24	167. 4	62.0	84	159.3	92, 0	44	211.3	122.0
5	4. 3	2, 0 2, 5	65	56. 3	32.5	25	108.3	62.5	85	160, 2	92.5	45	212. 2	100.5
6	5. 2	3. 0	66	57. 2	33, 0	26	109.1	63. 0	86	161, 1	93, 0	46	213. 0	122. 5 123. 0
7	6, 1	3, 5	67	58. 0	33, 5	27	110. 0	63, 5	87	161. 9	93. 5	47	213. 9	123. 5
5	6, 9	4. 0	68	58.9	34, 0	28	110. 9	64. 0	88	162. 8	94. 0	48	214. 8	124. 0
- g	0.0	4.5	69	59.8	34. 5	29	111.7		89	163. 7	94.5	49	215. 6	124, 5
10	7. 8 8. 7					30		64.5	90			50	216.5	
		5, 0	70	60, 6	35, 0		112.6	65, 0	-	164.5	95, 0			125.0
11 +	9, 5	5, 5	71	61.5	35, 5	131	113.4	65, 5	191	165. 4	95, 5	251	217. 4	125, 5
12 13	10.4	6, 0	72 73	62.4	36, 0	32	114. 3	66, 0	92	166, 3	96, 0	52	$218.2 \\ 219.1$	126.0
	11.3	6, 5	73	63, 2	36, 5	33	115.2	66, 5	93	167.1	96, 5	53	219.1	126.5
14	12.1	7.0	74	64. 1	37.0	- 34	116, 0	67.0	94	168.0	97.0	54	220.0	127.0
15	13.0	7.5	75	65, 0	37.5	35	116.9	67.5	95	168, 9	97.5	55	220.8	127.5
16	13.9	8.0	76	65, 8	38, 0	36	117.8	68, 0	96	169.7	98.0	- 56	221.7	128.0
17	14.7	8, 5	77	66, 7	38.5	37	118.6	68, 5	97	170.6	98.5	57	222.6	128.5
18	15.6	9.0	78	67.5	-39, 0	38	119.5	69, 0	- 98	171.5	99, 0	58	223.4	129.0
19	16.5	9.5	79	68, 4	39, 5	39	120.4	69, 5	99	172.3	99.5	59	224.3	129.5
20	17.3	10.0	80	69.3	40, 0	40	121. 2	70.0	200	173.2	100, 0	60	225. 2	130.0
21	${18.2}$	10.5	-81	-70.1	40.5	141	122.1	70.5	201	174.1	100, 5	261	226.0	130.5
20	19. 1	11.0	82	71.0	41.0	42	123. 0	71. 0	02	174. 9	101.0	62	226. 9	131.0
23	19. 9	11.5	83	71. 9	41.5	43	123. 8	71.5	03	175.8	101.5	63	227.8	131.5
24	20, 8	12.0	84	72.7	42.0	44	124. 7	72.0	04	176.7	102. 0	64	228, 6	132. 0
25	21.7	12.5	85	73, 6	42.5	45	125, 6	72.5	05	177.5	102.5	65	229. 5	132.5
$\frac{26}{26}$	22.5	13.0	86		43.0	46	126. 4	73. 0	06	178.4	103.0	66	230. 4	133. 0
20	23. 4			74. 5 75. 3			127. 3		07	179.3	103.5	67	231. 2	133.5
27 28		13.5	87	76, 2	43.5	47	128. 2	73.5					232. 1	
28	24. 2	14.0	88		44.0	48		74.0	08	180, 1	104.0	68	233, 0	134.0
29	25. 1	14.5	89	77.1	44.5	49	129.0	74.5		181.0	104.5	69	200, 0	134.5
30	_26.0_	15.0	90	_77.9	45.0	50	129, 9	75.0	10	181.9	105.0	70	233. 8	135. 0
31	26, 8	15, 5	91	78.8	45, 5	151	130. 8	75.5	211	182.7	105.5	271	234. 7	135.5
32	27.7	16, 0	92	79. 7	46.0	52	131.6	76.0	12	183, 6	106, 0	72 73	235, 6	136.0
33	28, 6	16, 5	93	80.5	46.5	53	132.5	76.5	13	184.5	106, 5	73	236, 4	136, 5
34	29.4	17.0	94	81.4	47. 0	54	133.4	77.0	14	185, 3	107.0	74 75	237. 3	-137.0
35	30, 3	17.5	95	82. 3	47.5	- 55	134.2	77.5	15	186, 2	107.5	75	238, 2	137.5
36	31.2	18.0	- 96	83. 1	48.0	56	135. 1	78, 0	16	187. 1	108.0	76	239.0	-138.0
37	32.0	18, 5	97	84.0	48.5	57	136. 0	78.5	17	187. 9	108.5	77	239.9	-138.5
38	32.9	19.0	-98	84. 9	49.0	58	136, 8	79, 0	18	188. 8	109.0	78	240.8	139.0
39	33. 8	19.5	99	85, 7	49.5	59	137. 7	79. 5	19	189, 7	109.5	79	241.6	-139, 5
40	34.6	20.0	100	86, 6	50.0	-60	138. 6	80, 0	20	190. 5	110.0	80	242.5	140.0
41	35, 5	20.5	101	87.5	50, 5	161	139, 4	80, 5	221	191.4	110.5	281	243. 4	140.5
42	36. 4	21.0	02	88.3	51.0	62	140.3	81.0	22	192.3	111.0	82	244. 2	141.0
43	37. 2	21.5	03	89. 2	51.5	63	141. 2	81.5	23	193. 1	111.5	83	245. 1	141.5
44	38. 1	22. 0	04	90. 1	52. 0	64	142. 0	82. 0	24	194.0	112.0	84	246.0	142.0
45	39. 0	22.5	05	90. 9	52.5	65	142. 9	82. 5	25	194. 9	112.5	85	246. 8	142.5
46	39, 8	23. 0	06	91.8	53, 0	66	143. 8	83. 0	26	195. 7	113. 0	86	247. 7	143. 0
	40.7	23, 5	07	92. 7	53.5	67	144.6	83, 5	27	196.6	113. 5	87	248.5	143. 5
47 48	40.7	24.0	08	93. 5	54. 0	68	145.5	84. 0	28	197.5	114.0	88	249, 4	144. 0
48	42.4	24. 5	08	94.4	54.5	69	146. 4	84.5	29	198.3	114. 5	89	250. 3	144.5
									30	199, 2	115.0	90	251. 1	145.0
_50	_43, 3	25.0	10	95, 3	55.0	70	147. 2	85.0	-					
51	44. 2	25, 5	111	96, 1	55. 5	171	148.1	85, 5	231	200, 1	115.5	291	252. 0	145.5
52	45.0	26.0	12	97, 0	56. 0	72	149. 0	86, 0	32	200. 9	116. 0	92	252, 9	146. 0
53	45. 9	26, 5	13	97. 9	56, 5	73	149, 8	86, 5	33	201.8	116.5	93	253. 7	146.5
54	46, 8	27. 0	14	98, 7	57. 0	74	150, 7	87.0	34	202. 6	117.0	94	254.6	147.0
55	47.6	27.5	15	99, 6	57.5	75	151.6	87.5	35	203, 5	117.5	95	255, 5	147.5
56	48. 5	28. 0	16	100, 5	58, 0	76	152.4	88, 0	36	204. 4	118.0	96	256, 3	148.0
57	49.4	28.5	17	101.3	58, 5	77	153. 3	88, 5	37	205.2	118.5	97	257. 2	148.5
58	50, 2	29. 0	18	102. 2	59, 0	78	154.2	89. 0	38	206. 1	119.0	98	258, 1	149.0
59	51.1	29.5	19	103, 1	59.5	79	155, 0	89. 5	- 39	207.0	119.5	99	258, 9	149. 5
60	52. 0	30, 0	20	103, 9	60.0	80	155.9	90, 0	40	207. 8	120, 0	300	259, 8	150, 0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	- 1				-	•	_			,		' —		-
						60° (1	20°, 240	°, 300°	).					

60° (120°, 240°, 300°).

Difference of Latitude and Departure for 30° (150°, 210°, 330°).

I—-				1 -	1 -				N					
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
901	000 7	150 5	961	312.6	100 5	(01	901.0	   010 =	481	110 0	240. 5	541	400 E	070 E I
301 02	260.7 $261.5$	$150.5 \\ 151.0$	361 62	312.6	180.5 181.0	421	364.6 365.5	$\begin{vmatrix} 210.5 \\ 211.0 \end{vmatrix}$	82	416.6	240.5 $241.0$	42	468.5 469.4	270.5 271.0
03	262. 4	151.5	63	314.4	181.5	22 23	366.3	211.5	83	417.4	241.5	43	470.3	271.5
04	263. 3	152.0	64	315. 2	182.0	24	367.2	212.0	84	419.2	242.0	44	471.1	272.0
05	264.1	152.5	65	316. 1	182.5	25	368.1	212.5	85	420.0	242.5	45	$471.1 \\ 472.0$	272.5
06	265. 0	153.0	66	317.0	183.0	$\frac{25}{26}$	368.9	213. 0	86	420.0	243.0	46	179.0	273.0
	265, 9	153. 5	67	317.8	183.5	27	369.8	213. 5	87	420.9	243.5	47	472.9 473.7	278.5
07 08	266.7	154.0	68	318.7	184.0	28	370. 7	214.0	88	422.6	244.0	48	474.6	274.0
09	267.6	154.5	69	319.6	184.5	29	371.5	214.5	89	423.5	244.5	49	475.5	274.5
10	268.5	155.0	70	320.4	185.0	30	372, 4	215.0	90	424. 4	245. 0	50	476.3	275, 0
311	269. 3	155. 5	371	321.3	185.5	431	373.3	215.5	491	425. 2	245.5	551	477.2	275.5
12	270. 2	156. 0	72	322. 2	186.0	32	374.1	216.0	92	426.1	246.0	52	478.1	276.0
13	271.1	156.5	73	323.0	186.5	33	375.0	216.5	93	426.9	246.5	53	478.9	276.5
14	271.9	157.0	74	323.9	187.0	34	375.9	217.0	94	427.8	247.0	54	479.8	$\begin{vmatrix} 277.0 \\ 277.5 \end{vmatrix}$
15	272.8	157.5	75	324.8	187.5	35	376.7	217.5	95	428.7	247.5	55	480.7	277.5
16	273.7	158.0	76	325.6	188.0	36	377.6	218.0	96	429.6	248.0	56	481.5	278.0
17	274.5	158, 5	77	326.5	188.5	37	378.5	218.5	97	430.4	248.5	57	482, 4	278.5
18	275.4	159.0	78	327.4	189.0	38	379.3	219.0	98	431.3	249.0	58	483.3	279.0
19	276.3	159.5	79	328, 2	189.5	39	380. 2	219.5	99	432.2	249.5	59	484.1	279.5
20	277.1	160.0	80	329.1	190.0	40	381.1	220.0	500	433.0	250.0	60	485.0	280.0
321	278.0	160.5	381	330.0	190.5	441	381.9	220.5	501	433.9	250.5	561	485, 9	280.5
22 23 24 25 26 27 28	278.9	161.0	82	330.8	191.0	42	382.8	221.0	02	434.8	251.0	62	486.7	281.0
23	279.7	161.5	83	331. 7	191.5	43	383.7	221.5	-03	435.6	251.5	63	487.6	281.5
24	280.6	162.0	84	332, 6	192.0	44	384.5	222.0	04	436.5	252.0	64	488.5	282.0
25	281.5	162.5	85	333.4	192.5	45	385.4	222.5	05	437, 4	252, 5	65	489.3	282.5
26	282.3	163.0	86	334.3	193.0	46	386, 3	223.0	-06	438. 2	253.0	66	490.2	283.0
27	283.2	163.5	87	335. 2	193.5	47	387.1	223.5	07	439.1	253.5	67	491.1	283.5
28	284.1	164,0	88	336.0	194.0	48	388.0	224.0	08	440.0	254.0	68	491.9	284.0
29	284.9	164.5	89	336. 9	194.5	49	388.9	224.5	- 09	440.8	254.5	69	492, 8	284.5
30	285.8	165.0	90	337.8	195.0	50	389.7	225.0	10	441.7	255.0	70	493, 6	285.0
331	286.7	165.5	391	338.6	195, 5	451	390.6	225.5	511	442.6	255.5	571	494.5	285.5
32	287.5	166.0	92	339.5	196.0	52	391.5	226. 0	12	443. 4	256.0	72	495.4	286.0
33	288.4	166.5	93	340.4	196.5	53	392.3	226.5	13	444.3	256.5	73	496.3	286.5
33 34	289.3	167.0	94	341.2	197.0	54	393.2	227.0	14	445.2	257.0	74	497.1	287.0
35	290.1	167.5	95	342.1	197.5	55	394.0	227.5	15	446.0	257.5	75	497.9	287.5
36	291.0	168.0	96	343.0	198.0	56	394.9	228.0	16	446.9	258.0	76	498.8	288, 0
37	291.9	168.5	97	343.8	198.5	57	395.8	228.5	17	447.8	258.5	77	499.7	288.5
38	292.7	169.0	98	344.7	199.0	58	396.6	229.0	18	448, 6	259.0	78	500.5	289.0
39	293.6	169.5	99	345.6	199.5	59	397.5	229.5	19	449.4	259.5	79	501.3	289.5
40	294.5	170.0	400	346.4	200.0	60	398.4	230.0	20	450.3	260.0	80	502.2	290.0
341	295.3	170.5	401	347.3	200.5	461	399.2	230, 5	521	451, 2	260.5	581	503.1	290.5
42	296. 2	171.0	02	348.1	201.0	62	400. 1	231.0	22	452.1	261.0	82	504.0	291.0
43	297.1	171.5	03	349.0	201.5	63	401.0	231.5	23	452, 9	261.5	83	504.9	291.5
44	297.9	172.0	04	349.9	202.0	64	401.8	232.0	24	453. 8	262.0	84	505.8	292.0
45	298.8	172.5	05	350. 7	202. 5	65	402.7	232.5	25	454.7	262.5	85	506.6	292.5
46	299.7	173.0	06	351.6	203.0	66	403.6	233. 0	26	455.5	263.0	86	507.5	293.0
47	300.5	173.5	07	352.5	203.5	67	404.4	233. 5	27	456, 4	263.5	87	508.4	293. 5
48	301.4	174.0	08	353. 3	204.0	68	405. 3	234.0	28	457. 3	264.0	88	509. 2	294.0
49	302. 3	174.5	09	354.2	204.5	69	406.2	234. 5	29	458. 1	264.5	89	510.1	294.5
50	303.1	175.0	10	355.1	205.0	70	407.0	235.0	30	459.0	265, 0	90	511.0	295. 0
351	304.0	175.5	411	355. 9	205.5	471	407.9	235. 5	531	459.9	265, 5	591	511.8	295.5
52	304.8	176.0	12	356.8	206.0	72	408.8	236.0	32	460.7	266. 0	92	512.7	296.0
53	305. 7	176.5	13	357, 7	206.5	73	409.6	236. 5	33	461.6	266.5	93	513.6	296.5
54	306.6	177. 0	14	358.5	207.0	74	410.5	237. 0	34	462.5	267. 0	94	514.4	297.0
55	307.4	177.5	15	359. 4	207.5	75	411.4	237.5	35	463.3	267.5	95	515.3	297.5
56	308.3	178.0	16	360.3	208. 0	76	412.2	238. 0	36	464, 2	268.0	96	516.2	298.0
57	309. 2	178.5	17	361.1	208.5	77	412, 2 413, 1	238. 5	37	465, 1	268.5	97	517.0	298.5
58	310.0	179.0	18	362.0	209, 0	78	414.0	239. 0	38	465. 9	269.0	98	517.9	299.0
59	310. 9	179.5	19	362.9	209.5	79	414.8	239. 5	39	466.8	269.5	99	518.8	299.5
60	311.8	180.0	20	363. 7	210.0	80	415.7	240.0	40	467.7	270.0	600	519.6	300.0
						~							220.0	555.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
<u> </u>				<u> </u>				اـــــا		· -				
					6	0° (1:	20°, 240	°, 300°	).					

60° (120°, 240°, 300°).

TABLE 2.

Difference of Latitude and Departure for 31° (149°, 211°, 329°).

-					,				·	<del></del>		<u>,                                     </u>		
Dist.	Lat.	Dep.	Dist,	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lut,	Dep.
1	0.9	0, 5	61	52, 3	31.4	121	103.7	62. 3	181	155. 1	93, 2	241	206.6	124.1
2	1.7	1.0	62	53. 1	31.9	22	104.6	62.8	82	156.0	93. 7	42	207.4	124.6
3	2.6	1.5	63	54 0	32.4	- 23	105.4	63, 3	83	156.9	94.3	43	208.3	195 9
4	3, 4	2.1	64	54.9	33.0	24 25	106.3	63. 9	84	157. 7	94.8	44	209.1	125.7
5	4, 3	2, 6	65	55, 7	33, 5	25	107.1	64. 4	85	158.6	95.3	45	210.0	126. 2 126. 7
6 7	5.1	3, 1	66	56.6	34.0	26	108.0	64. 9	86	159.4	95.8	46	210.9	126.7
8	6, 0 6, 9	3. 6 4. 1	67 68	57. 4 58. 3	34.5 35.0	27 28	108.9 109.7	65.4	87 88	160.3	96.3	47	211.7 $212.6$	127. 2 127. 7
9	7. 7	4.6	69	59, 1	35, 5	29	110.6	65, 9 66, 4	89	161. 1 162. 0	96.8 97.3	48	213. 4	128.2
10	8, 6	5, 2	70	60, 0	36. 1	30	111.4	67.0	90	162.9	97.9	50	214.3	128. S
11	9.4	5.7	71	60. 9	36, 6	131	112.3	67.5	191	163.7	98.4	251	215. 1	129.3
12	10.3	6, 2	72	61.7	37.1	32	113.1	68.0	92	164.6	98.9	52	216.0	129, 8
13	11.1	6. 7	73	62. 6	37.6	33	114.0	68, 5	93	165.4	99.4	53	216. 9	130.3
14	12, 0	7. 2 7. 7	74	63. 4	38.1	34	114.9	69.0	94	166.3	99. 9	54	217.7	130.8
15 16	12. 9 13. 7	8, 2	75	64.3 65.1	38.6 39.1	35 36	115.7	69.5 70.0	95 96	167.1	100.4	55 56	218.6	131.3
17	14.6	8.8	76 77	66.0	39. 7	37	116.6 117.4	70.6	97	168. 0 168. 9	100, 9 101, 5	57	219. 4 220. 3	131. 8 132. 4
l îs l	15. 4	9, 3	78	66, 9	40, 2	38	118.3	71.1	98	169.7	102.0	58	221. 1	132.9
19	16.3	9, 8	79	67. 7	40.7	39	119.1	71.6	99	170.6	102.5	59	222.0	133.4
20	17.1	10.3	_80	68, 6	41.2	40	120.0	72.1	200	171.4	103.0	60	222, 9	133.9
21	18.0	16.8	81	69, 4	41.7	141	120, 9	72, 6	201	172.3	103.5	261	223. 7	134.4
22 23	18.9	11.3	82	70.3	42. 2 42. 7	42	121.7	73.1	02	173.1	104.0	62	224.6	134.9
23	19.7 20.6	11.8	83 84	71.1	43.3	43	122.6	73. 7	03	174.0	104.6	63	225. 4 226. 3	135.5
24 25	21.4	12. 4 12. 9	85	72. 0 72. 9	43, 8	44 45	123. 4 124. 3	74. 2 74. 7	04 05	174.9 175.7	105. 1 105. 6	64 65	226. 3	136.0 136.5
26	22.3	13. 4	86	73. 7	44.3	46	125. 1	75. 2	06	176.6	106.1	66	228. 0	137.0
27	23, 1	13, 9	87	74.6	44.8	47	126.0	75.7	07	177. 4	106.6	67	228. 9	137.5
28	24.0	14. 4	88	75.4	45, 3	48	126.9	76. 2	08	178.3	107.1	68	229.7	138.0
29 .	24. 9	14. 9	- 89	76.3	45.8	49	127. 7	76, 7	-09	179.1	107.6	69	230.6	138.5
30	-25.7	15.5	-90	_77.1	46.4	50	128, 6	77.3	10	180.0	108. 2	70	231.4	139.1
31	26, 6 27, 4	16. 0 16. 5	91 92	78, 0 78, 9	46. 9 47. 4	$\frac{151}{52}$	129, 4 130, 3	77.8	211	180. 9 181. 7	108.7	271	232, 3 233, 1	139.6
32 33	28.3	17.0	93	79.7	47.9	53	131.1	78. 3 78. 8	12 13	180.7	109, 2 109, 7	72 73	234 0	140, 1 140, 6
34	29, 1	17.5	94	80.6	48, 4	54	132.0	79.3	14	182. 6 183. 4	110. 2	74	234. 9	141. 1
35	30, 0	18.0	95	81.4	48.9	55	132.9	79.8	15	184.3	110.7	75	235.7	141.6
36 (	30, 9	18, 5	96	82.3	49.4	56	133. 7	80.3	16	185, 1	111.2	76 77	236, 6	142. 2 142. 7
37	31.7	19.1	97	83. 1	50.0	57	134.6	80.9	17	186.0	111.8	77	237.4	142.7
38 39	33. 4	19, 6 20, 1	98 99	84. 0 84. 9	50.5	58 59	135, 4 136, 3	81.4	18 19	186. 9 187. 7	112.3 112.8	78 79	238, 3 239, 1	143. 2 143. 7
40	34. 3	20, 6	100	85. 7	51.5	60	137. 1	82.4	20	188.6	113. 3	80	240, 0	144. 2
41	35.1	21. 1	101	-86.6	52.0	161	138, 0	82. 9	221	189. 4	113. 8	281	240. 9	144.7
42 1	36, 0	21. 6	02	87.4	52.5	62	138.9	83.4	99	190.3	114.3	82	241.7	145, 2
43	36, 9	22. 1 22. 7	-03	88, 3	53, 0	-63	139, 7	84.0	23	191.1	114.9	83	242.6	145, 8
44	37.7	22. 7	04	89, 1	53, 6	64	140, 6	84.5	24	192.0	115.4	84	243.4	146.3
4.5	38, 6	23. 2	05	90. 0	54.1	65	141.4	85, 0	25	192. 9	115.9	85	244.3	146.8
46	39. 4	23.7	06 07	90. 9 91. 7	54. 6 55. 1	66 67	142, 3 143, 1	85, 5	26 27	193. 7 194. 6	116. 4 116. 9	86 87	245. 1 246. 0	147.3 147.8
45	11. 1	24. 2 24. 7	08	92, 6	55, 6	63	144. 0	86.5	$\frac{2i}{28}$	195, 4	117.4	88	246. 9	148.3
49	42.0	25, 2	09	93, 4	56, 1	69	144. 9	87. 0	29	196. 3	117. 9	89	247, 7	148, 8
50	42, 9	25, 8	10	94, 3	56, 7	70	145, 7	87.6	30	197. 1	118.5	90	248.6	149.4
51	43. 7	26, 3	111	95. 1	57. 2 57. 7	171	146, 6	88.1	231	198.0	119.0	291	249. 4	149.9
52	44.6	26, 8	12	96, 0	57.7	72 73	147.4	88, 6	32	198. 9	119.5	92	250, 3	150, 4
53   54	45, 4 46, 3	27, 3 27, 8	13 14	96, 9 97, 7	58, 2 58, 7	73	148.3	89, 1	33 34	199.7	120. 0	93 94	251, 2 252, 0	150, 9 151, 4
55	47. 1	28, 3	15	98.6	59. 2	74 75	150, 0	90, 1	35	200, 6 201, 4	120, 5 121, 0	95	252. 0	151. 9
56	45.0	28, 8	16	99. 4	59.7	76	150. 9	90, 6	36	202.3	121.5	96	253. 7	152, 5
57	48, 9	29, 4	17	100, 3	. 60, 3	77	151.7	91. 2 91. 7	37	203.1	122.1	97	254, 6	153. 0
58	49, 7	29, 9	18	101. I	60, 8	78	152. 6 1	91.7	38	204. 0	122.6	98	255, 4	153, 5
59	50, 6	30, 4	19 20		61, 3	79	153. 1	92. 2	39	204. 9	123. 1	99	256, 3	154.0
60	51.4	30, 9	20	102, 9	01.8	80	154.3	92.7	4()	205, 7	123, 6	300	257, 1	454, 5
Irist	lien.	1 11.	Dist.	Dep.	Lat.	Dust.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
									,					
						59° (1	215, 239	°, 201						

Difference of Latitude and Departure for 31° (149°, 211°, 329°).

-			-			1	-		. —	-	-	-	-	
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	95. 0	155 0	361	200 1	105 0	197	260 0	914 0	481	110.9	247.7	5.17	100 7	970 0
02	258, 0 $258, 9$	155.0 155.5	62	309.4	185.9	421	360.9 361.7	216.8	82	412.3 413.2	248. 2	541 42	463.7	$278.6 \\ 279.1$
03	259.7	156.1	63	310.3 311.2 312.0	186. 4 187. 0 187. 5	22 23 24	362.6	217.3 217.9	83	414.0	010 0	43	464. 6 465. 4 466. 3	279.1 $279.7$
03	260.6	156. 6	64	312.0	197.5	2.1	363.4	218.4	54 84	414.9	$248.8 \\ 249.3$	44	166 2	280. 2
05	261.4	157.1	65	312.9	188.0	25	364, 3	218. 9	85	415.7	249.8	45	467.2	280. 7
06	262. 3	157. 6	66	313. 7	188 5	98	365. 2	219.4	86	416.6	250.3	46	468.0	281, 2
07	263, 2	158.1	67	314.6	188. 5 189. 0	26 27	366.0	219. 9	87	417.4	250.8	47	468.9	281.7
08	264.0	158, 6	68	315.4	189.5	28	366.9	220. 4	88	418.3	251 3	48	469.7	999 9
09	264. 9	150.0	69	315. 4 316. 3 317. 2	190. 1	29	367.7	221.0	89	419. 2	251.3 251.9	49	470.6	282.3 282.8
10	265.7	159. 2 159. 7	70	317.9	190.6	30	368. 6	221.5	90	420.0	252. 4	50	471.4	283. 3
311	266.6	160. 2	371	318.0	191.1	431	369. 4	222.0	491	420. 9	252. 9	551	170 9	283. 8
10	267.4	100.2	917	210.0	101.1	491	250.9	222. 0 222. 5 223. 0	92	101.7	253. 4	52	472.3 473.2 474.0	284.3
12 13	268.3	161 2	72 73	318. 9 319. 7	191. 6 192. 1	32 33	370.3 371.2	993 0	93	421.7 422.6	253. 9	53	171.0	284.8
14	260.0	161. =	74	390 6	192.6	34	379 0	223. 5	94	192 1	254. 4	54	171.0	905 9
15	269. 2 270. 0	169 9	75	320.0	193. 1	35	$372.0 \\ 372.9$	224.0	95	423. 4 424. 3	254. 9	55	474.9 475.7	285.3 285.8
16	270.9	160. 2 160. 7 161. 2 161. 7 162. 2 162. 8	76	399 3	193. 7	36	373.7	224.6	96	425. 2	255.5	56	476 B	286.4
17	271.7	163. 3	76 77	320. 6 321. 4 322. 3 323. 2 324. 0	194 9	37	374 6	225. 1	97	126.0	256. 0	57	476. 6 477. 4 478. 3	286 0
18	272.6	163.8	78	321 0	194. 2 194. 7	38	374.6 375.4	225. 6	98	426. 9 426. 9 427. 7	256.5	58	178 3	286. 9 287. 4
19	273.4	164.3	79	324 9	195.2	39	376.3	226. 1	99	127 7	256. 5 257. 0	59	479, 2	287. 9
20	274.3	164.8	80	324.9 325.7	195.7	40	377.2	226. 6	500	428.6	257.5	60	480.0	288.4
391	275. 2	165.3	381	398 8	196 9	441	378.0	997 1	501	429.4	258. 0	561	480.9	288. 9
321 22 23	276.0	165. 8	82	326. 6 327. 4	196. 2 196. 7	42	378.9	227. 1 227. 7	02	430.3	258.6	62	481.7	289.5
99	276.9	166. 4	83	328 2	197.3	43	379.7	228. 2	03	131 9	259.1	63	189 6	200.0
24 25 26	277.7	166. 9	84	328.3 329.2 330.0	197.8	44	380, 6	228 7	03	431. 2 432. 0 432. 9 483. 7	259.6	64	482. 6 483. 4	290. 0 290. 5 291. 0
05	278.6	167. 4	85	330.0	198.3	45	381.4	990 9	05	139 0	260.1	65	484.3	291.0
26	279.4	167.9	86	330. 9 331. 7 332. 6	198.8	46	382.3	229. 2 229. 7 230. 2 230. 7	06	483 7	280 6	66	485 2	291.5
27	280.3	167. 9 168. 4	87	331. 7	199.3	47	382.3 383.2	230 2	07	434.6	261. 1	67	485. 2 486. 0	292 0
28	281.2	168.9	88	332.6	199.8	48	384.0	230.7	08	435.4	261.6	68	486.9	292.5
29	282.0	169.5	89	333.4 334.3	200.4	49	384.9	231.3	09	435. 4 436. 3	262. 2	69	486. 9 487. 7	291. 0 291. 5 292. 0 292. 5 293. 1
30	282.0 282.9	170.0	90	334. 3	200.9	50	385.7	231.8	10	437. 2	262.7	70	488.6	293.6
331	283.7	170.5	391	335. 2	201.4	451	386.6	232. 3	511	438.0	263. 2	571	489.4	294.1
32	284.6	171.0	92	336. 0 336. 9 337. 7	201.9	52	387.4 388.3 389.2	232, 8	12	438 9	263 7	72	490.3	294 6
33	285.4	171.5	93	336. 9	202. 4	53	388.3	233. 3	13	438. 9 439. 7	263, 7 $264, 2$	73	491.2	294.6 $295.1$
34	286.3	172.0	94	337. 7	202, 9	54	389, 2	233. 8	14	440.6	264. 7	74	492.0	295. 6
35	287. 2	172.5	95	338.6	203.4	55	390.0	951 3	15	441.4	265. 2	74 75	492. 0 492. 9	296. 1
36	288.0	172.0 172.5 173.1	96	339.4	204.0	56	390.9	234.9	16	441. 4 442. 3	264. 7 265. 2 265. 8	76	493.7	295. 6 296. 1 296. 7 297. 2
37	288.9	1:3.6	97	340, 3	204.5	57	391.7	$235.4 \\ 235.9$	17	443, 2 444, 0	266.3 266.8	77	494.6	297. 2
38	289.7	174.1	98	341. 2 342. 0	205.0	58	392.6	235.9	18	444.0	266.8	78	495.4	291.7
39	290.6	174.6	99	342.0	205.5	59	393. 4	236. 4	19	444.9	267.3	79	496.3	298. 2
40	291.4	175, 1	400	342.9	206.0	60	394.3	236. 9	20	445.7	267.8	80	497. 2	298.7
341	292.3	175.6	401	343.7	206.5	461	395. 2	237.4	521	446.6	268.3	581	498.0	299.2
42	293. 2	176.1	02	344.6	207.0	62	396.0	238.0	22	447.4	268.9	82	498.9	299. 8
43	294.0	176. 7	03	345.4	207. 6	63	396. 0 396, 9	238. 5	22 23	448.3	269.4	83	499.7	300. 3 300. 8
44	294. 9	177. 2 177. 7	04	346.3 347.2	208.1	64	397.7	239, 0	24	449.2	269.9	84	500.6	300.8
45	295.7	177.7	05	347. 2	208.6	65	398.6	239.5	25	450.0	270.4	85	501.4	301.3
46	296.6	178.2	-06	348.0	209.1	- 66	399.4	240.0	26	450.9	270.9	86	502.3	301.8
47	297.4	178.7	07	348.9	209.6	67	400.3	240.5	27	451.7	271.4	87	503, 2	302.3
48	298.3	179.2	08	349.7	210.1	68	401.2	241.0	28	452. 6 453. 4	271.9	88	504.0	302, 8
49	299.2	179.8	09	350.6	210.7 211.2	69	402. 0 402. 9	241.5	29	453.4	272.4	89	502. 3 503. 2 504. 0 504. 9	303.3
50	300.0	180.3	10	351.4		70		242.1	30	454.3	273.0	_ 90	505.7	303.9
351	300.9	180.8	411	352.3 353.2	211.7	471	403.7	242.6	531	455.2	273.5	591	506.6	304.4
52	301.7	181.3	12 13	353. 2	212. 2 212. 7 213. 2 213. 7	72 73	$\frac{404.6}{405.4}$	243.1	32 33	456. 0 456. 9	$274.0 \\ 274.5$	92	507.4	304.9
53	302, 6 303, 4	181. 8 182. 3	13	354. 0 354. 9	212.7	73	405.4	243, 6	- 33	456.9	[274.5]	93	508.3	305.4
54	303.4	182.3	14	354.9	213.2	74	406.3	244. 1	34	457.7	1275.01	94	509.2	305. 9
55	304.3	182, 8	15	355.7	213.7	75	407. 2	244.6	35	458.6	275.5	95	510.0	306.4
56	305. 2	183, 4	16	356, 6	214.3	76	408.0	245. 2	36	459.4	276.1	96	510.9	307.0
57	306.0	183.9	17	357.4	214.8	77	408.9	245. 7	37	460.3	276, 6	97	511.7	307.5
58	306. 9	184.4	18	358.3	215.3	78	409.7	246. 2 246. 7	38	461.2	277.1	98	512.6	308.0
59	307. 7	184.9	19	359. 2	215. 8	79	410.6	246.7	39	462.0	277.6	99	513.4	308.5
60	308.6	185, 4	20	360.0	216.3	80	411.4	247. 2	40	462.9	278.1	600	514.3	309.0
Dist	Trees	T	Disa	- D	T - 4	Third			TO: 1			-		
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat,	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						59° (19	21°, 239	° 301°	1					
					,	(1.	. , 200	,	, •					- 1

## Page 594]

#### TABLE 2.

Difference of Latitude and Departure for 32° (148°, 212°, 328°).

1		1	httere	nce of J	Latitud	e and	Departi	ire for	320 (1	48°, 212	, 3280	).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0, 8	0.5	61	51. 7	32. 3	121	102.6	64. 1	181	153, 5	95. 9	241	204. 4	127.7
2	1.7	1.1	62	52.6	32.9	22	103.5	64.7 $65.2$ $65.7$	82	154.3	96.4	42	205, 2	128, 2
3	2.5	1.6	63	53.4	33.4	23	104.3	65, 2	-83	155. 2	97, 0	43	206.1	128, 8
4	3.4	$\frac{2.1}{2.6}$	64	54.3	33. 9	24	105. 2	65.7	84	156.0	97.5	44	206.9	129.3
5	4. 2	2.6	65	55.1	34.4	25	106.0	66. 2	85	156. 9	98.0	45	207.8	129.8
6	5.1	3. 2 3. 7	66 67	56. 0 56. 8	35.0 35.5	26	106. 9 107. 7	66.8	86 87	157. 7 158. 6	98. 6 99. 1	46 47	208. 6 209. 5	130.4 130.9
8	5.9 6.8	4. 2	68	57.7	36.0	27 28	108.6	67.3 67.8	88	159.4	99.6	48	210.3	131. 4
9	7.6	4.8	69	58.5	36, 6	29	109.4	68.4	89	160.3	100, 2	49	211.2	131.9
10	8, 5	5.3	70	59.4	37.1	30	110.2	68.9	90	161.1	100.7	50	212.0	132.5
-11	9.3	5.8	71	60, 2	37.6	131	111.1	69.4	191	162.0	101.2	251	212.9	133.0
12	10.2	6.4	72	61.1	38. 2	32	111.9	69. 9	92	162.8	101.7	52	213. 7	133, 5
13	11.0	6. 9	73	61.9	38.7	33	112.8	70.5	93	163. 7	102.3	53	214.6	134.1
14 15	11.9 12.7	7.4 7.9	74 75	62. 8 63. 6	39. 2 39. 7	34 35	113.6	71.0	94 95	164. 5 165. 4	102. 8 103. 3	54 55	215.4	134.6 135.1
16	13. 6	8.5	76	64.5	40.3	36	114, 5 115, 3	71.5 $72.1$	96	166.2	103. 3	56	216.3 217.1	135.7
17	14.4	9.0	77	65.3	40.8	37	116.2	79 6	97	167. 1	104. 4	57	217.9	136. 2
18	15.3	9.5	78	66.1	41.3	38	117.0	72, 6 73, 1	98	167. 9	104.9	58	218.8	136.7
19	16.1	10. 1	79	67.0	41.9	39	117. 9	73. 7	99	168, 8	105.5	59	219.6	137. 2
20	17.0	10.6	80	67.8	42.4	40	118.7	74. 2	200	169, 6	106.0	60	220.5	137.8
21	17.8	11, 1	81	68. 7	42.9	141	119.6	74.7	201	170.5	106.5	261	221.3	138. 3
22	18.7	11.7 12.2	82	69.5	43.5	42	120. 4 121. 3	75. 2	02	171.3	107.0	62	222. 2	138.8
23	19.5	12. 2	-83	70.4	44.0	43	121.3	75. 8	-03	172. 2	107. 6	-63	223.0	139.4
24	20.4	12.7	84	71.2	44.5	44	122.1	76.3	04	173.0	108.1	64	223, 9	139.9
25	21, 2	13. 2	85	72.1	45.0	45	123.0	76.8	05	173.8	108.6	65	224.7	140.4
26 27	22. 0 22. 9	13.8	86	72.9	45.6	46	123.8	77.4 77.9	06	174.7	109. 2	66	225. 6	141.0
27	23. 7	14.3	87 88	73. 8 74. 6	46.1	47 48	124.7	78.4	07 08	175.5 176.4	109.7 110.2	67 68	226. 4 227. 3	141.5 142.0
28	23.7	14. 8 15. 4	89	75.5	47, 2	49	125, 5 126, 4	79.0	09	177. 2	110. 2	69	228.1	142.5
30	25. 4	15. 9	90	76.3	47.7	50	127. 2	79.5	10	178. 1	111.3	70	229.0	143. 1
31	26. 3	16. 4	91	77.2	48.2	151	128, 1	80. 0	211	178.9	111.8	271	229. 8	143.6
32	27. 1	17.0	92	78.0	48, 8	52	128. 9	80.5	12	179.8	112.3	72	230. 7	144.1
33	28, 0	17.5	93	78.9	49.3	53	129.8	81.1	13	180, 6	112.9	73	231.5	144.7
34	28.8	18.0	94	79.7	49, 8	54	130.6	81.6	14	181, 5	113.4	74	232. 4	145, 2 $145, 7$
35	29, 7	18.5	95	80.6	50.3	55	131.4	82.1	15	182, 3	113.9	75	233, 2	145.7
36	30.5	19.1	- 96	81.4	50, 9	56	132.3	82.7	16	183. 2	114.5	76	234. 1	. 146.3
37	31.4	19.6	97	82, 3	51.4	57	133.1	83. 2	17	184.0	115.0	77	234. 9	146.8
38	32.2	20. 1	98	83, 1	51.9	58	134.0	83. 7	18	184.9	115.5	78	235, 8	147.3
39 40	33. 1	20.7	99 100	84. 0 84. 8	52. 5 53. 0	59 60	134. 8 135. 7	84.3	19 20	185, 7 186, 6	116. 1 116. 6	79 80	236, 6 237, 5	147, 8 148, 4
	33.9	21.2			53. 5			84.8	221			281	238, 3	148.9
41 42	34. 8 35, 6	21.7 22.3	101 -02	85, 7 86, 5	54. 1	161 62	136, 5 137, 4	85, 3 85, 8	221	187, 4 188, 3	117. 1 117. 6	82	239, 1	149. 4
43	36, 5	22.8	03	87.3	54.6	63	138. 2	86, 4	22 23	189, 1	118. 2	83	240.0	150, 0
44	37.3	23.3	04	88.2	55. 1	64	139. 1	86, 9	24	190, 0	118.7	84	240. 5	150.5
45	38. 2	23, 8	05	89, 0	55, 6	65	139.9	87.4	25	190, 8	119.2	85	241.7	151.0
46	39.0	24. 4	-06	89.9	56, 2	- 66	140, S	88, 0	26	191.7	119.8	-86	242.5	151.6
47	39.9	24. 9	-07	90.7	56, 2 56, 7	67	141.6	88.5	27 28	192, 5	120, 3	87	243. 4	152, 1 152, 6
48	40.7	25.4	-08	91.6	57. 2	68	142.5	89, 0	28	193.4	120, 8	- 88	244. 2	152, 6
49	41.6	26, 0	-09	92.4	57.8	69	143, 3	89, 6	29	194. 2	121.4	- 89	245. 1	153, 1
_50	_42.1	26, 5	10	_93, 3	58.3	70	144, 2	90, 1	30	195, 1	121.9	90	245, 9	153.7
51	43, 3	27. 0	111	94.1	58, 8	171	145.0	90, 6	231	195, 9	122, 4	291	246, 8	154. 2
52	44. 1	27. 6	12	95, 0	59. 4	72 73	115.9	91.1	32	196, 7 197, 6	122, 9	92 93	247. 6 248. 5	154, 7 155, 3
53 54	44. 9 45, 8	28. 1 28. 6	13 14	95, 8 96, 7	59, 9 60, 4	7.5	146. 7 147. 6	91.7	33 34	197. 6	123, 5 124, 0	94	249.0	155, 8
55	46, 6	29, 1	15	97.5	60, 9	74 75	148.4	92. 2 92. 7	35	199.3	124.5	95	250, 2	156, 3
56	47.5	29.7	16	98.4	61, 5	76	149.3	93.3	365	200.1	125, 1	96	251.0	156, 9
57	48.3	30. 2	17	99. 2	62.0	77	150.1	93.8	37	201.0	125. 6	97	251.9	157.4
58	49. 2	30, 7	18	100.1	62.5	78	151.0	94.3	38	201.8	126, 1	94	252.7	157.9
-59	50, 0	31, 3	19	100, 9	63. 1	79	151, 8	94, 9	239	202.7	126.7	99	253, 6	158, 4
60	50, 9	31.8	20	101.8	63, 6	80	152, 6	95, 4	-40	203.5	127. 2	300	254, 4	159, 0
Dist.	Dep.	Lat.	ltist	Dep.	Lat.	Dist.	To p	Lat.	Dist.	Dep.	lat.	Dist.	Dep.	Lat.

58° (122°, 238°, 302°).

TABLE 2.

[Page 595

Difference of Latitude and Departure for 32° (148°, 212°, 328°).

Dist.	Lat	Dep.	Dist.	Lut.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
														200.00
301	255, 3	159.5	361	306. 2	191.3	421	357.0	223. 1	481	407.9	254.9	541	458, 8	286.7
02	256.1	160.0	62	307.0	191.8	22	357. 9	223.6	82	408.8	255.4	42	459.6	287. 2 287. 7
03	257.0	160.5	63	307.9	192.3	23	358.7	224.1	83	409.6	255.9	43	460.5	287.7
04	257. 8	161.1	64	308.7	192.9	24	3 <b>5</b> 9. 6	224. 7	84	410.5	256.5	44	461.3	288.3
05	258. 7	161.6	65	309.5	193.4	25	360.4	225. 2	85	411.3	257.0	45	462. 2	288, 8
06	259.5	162.1	66	310. 4	193.9	26	361.3	225.7	86	412.2	257.5	46	463.0	289.3
07	260. 4	162.7	67	311.2	194.5	27	362, 1	226.3	87	413.0	258. 1	47	463.9	289.9
08	261.2	163. 2 163. 7	68	312.1	195.0	28	363.0	226. 8	88	413.9	258.6	48	464. 7	290.4
09	262.1		69	312.9	195.5	29	363.8	227.3	89	414.7	259.1	49	465.6	290. 9
10	262. 9	164.3	_70_	313.8	196.0	30	364. 7	227.8	90	415.6	259.6	50	466.4	291.5
311	263, 8	164.8	371	314.6	196.6	431	365, 5	228.4	491	416. 4	260. 2	551	467.3	292, 0
12	264. 6	165.3	72	315.5	197.1	32	366.4	228.9	92	417.3	260.7	52	468.1	292.5
13	265.4	165.8	73	316.3	197.6	33	367. 2	229.4	93	418.1	261.2	53	469.0	293.0
14	266.3	166.4	74	317.2	198. 2	34	368, 1	230. 0	94	419.0	261. 8	54	469.8	293.6
15	267.1	166.9	75 70	318.0	198.7	35	368, 9	230.5	95	419.8	262.3	55	470. 7	294.1
16	268.0	167.4	76	318.9	199. 2	36	369. 8	231.0	96 97	420.6	262. 8	56 57	471.5	294. 6 295. 2
17	268.8	168.0	77	319.7	199.8	37 38	370, 6	231. 6 232. 1	98	421.5 422.3	263.4 263.9	58	472. 4 473. 2	295. 7
18 19	269.7 270.5	168.5 169.0	78 79	320. 6 321. 4	200, 3	39	371.5 $372.3$	232. 1	99	423. 3	264. 4	58 59	474. 1	296. 2
20	270.5	169. 6	80	322.3	200. 8	40	373. 2	233.1	500	424.0	265.0	60	474. 1	296.2
321	272. 2	170.1	381	323. 1	201. 9	441	374.0	233. 7	501	424. 9	265. 5	561	475.8	297.3
22 23	273.1	170.6	82	324.0	202.4	42	374.8	234. 2	02	425. 7 426. 6	266.0	62	476.6	297.8
23 24	273.9	171.1	83 84	324.8 325.7	202.9 203.5	43	375.7	234. 7 235. 3	03 04	426.6 $427.4$	266.5 267.1	63	477.5	298.3 298.9
24 25	274.8 275.6	171.7 172.2	85	326. 5	203. 5	44 45	376.5 $377.4$	235, 8	05	428.3	267. 6	64 65	478.3 $479.2$	299.4
26	276. 5	172. 7	86	327. 4	204. 5	46	378.2	236. 3	06	429.1	268.1	66	480. 0	299. 9
27	277, 3	173.3	87	328. 2	205. 1	47	379. 1	236. 9	07	430.0	268. 7	67	480. 9	300.5
28	278.2	173.8	88	329. 1	205. 6	48	379.9	237. 4	08	430.8	269.2	68	481.7	301.0
29	279.0	174.3	89	329. 9	206. 1	49	380. 8	237. 9	09	431.7	269. 7	69	482.6	301.5
30	279.9	174.9	90	330. 8	206.6	50	381.6	238. 4	10	432.5	270. 3	70	483. 4	302.1
331	280. 7	175. 4	391	331.6		451	382.5	239, 0	511	433, 4	270.8	571	484, 3	302.6
32	281.6	175. 9	92	332. 5	207. 2 207. 7	52	383. 3	239.5	12	434. 2	271, 4	72	485.1	303. 2
33	282.4	176. 4	93	333, 3	208. 2	53	384. 2	240.0	13	435. 1	271.9	73	486. 0	303.7
34	283.3	177.0	94	334, 2	208. 8	54	385. 0	240.6	14	435. 9	272.4	74	486. 8	304. 2
35	284. 1	177.5	95	335.0	209.3	55	385.9	241.1	15	436.8	272.9	75	487.7	304. 7
36	285.0	178.0	96	335, 8	209.8	56	386.7	241.6	16	437.6	273.5	76	488.5	305.3
37	285, 8	178.6	97	336. 7	210.4	57	387.6	242, 2	17	438, 5	274.0	77	489.4	305.8
38	286.7	179.1	98	337.5	210.9	58	388.4	242.7	18	439.3	274.5	78	490.2	306.3
39	287.5	179.6	99	338.4	211.4	59	389.3	243.2	19	440.2	275.0	79	491.1	306.8
40	288.3	180.2	400	339.2	211.9	60	390. 1	243.8	20	441.0	275.6	80	491.9	307.4
341	289, 2	180.7	401	340.1	212.5	461	391.0	244.3	521	441.9	276.1	581	492.8	307.9
42	290.0	181.2	02	340.9	213, 0	62	391.8	244.8	22	442.7	276, 6	82	493.6	308.4
43	290.9	181.7	03	341.8	213.5	63	392.7	245.4	23	443.6	277.2 $277.7$	83	494.5	309.0
44	291.7	182.3	04	342, 6	214.1	64	393.5	245.9	24	444.4	277.7	84	495, 3	309, 5
45	292.6	182.8	05	343.5	214.6	65	394.4	246.4	25	445.3	278.2	85	496.2	310.0
46	293.4	183.3	-06	344.3	215.1	66	395.2	246.9	26	446.1	278.7	86	497.0	310.5
47	294.3	183. 9	07	345.2	215. 7	67	396.0	247.5	27	446. 9	279.3	87	497.8	311.1
48	295.1	184.4	08	346, 0	216.2 $216.7$	68	396.9	248.0	28	447.8	279.8	88	498, 7	311, 6
49	296.0	184.9	09	346.9	216.7	69	397. 7	248.5	29	448, 6	280, 3	89	499.5	312.1 312.6
50	296.8	185. 4	10	347. 7	217.2	70	398.6	249.0	30	449.5	280, 9	90	500.3	312.6
351	297. 7	186.0	411	348.6	217.8	471	399. 4	249, 6	531	450.3	281.4	591	501.2	313. 2 313. 7
52	298.5	186.5	12	349.4	218.3	72 73	400.3	250, 1	- 32	451, 1	281, 9	92	502. 0	
53	299.4	187.0	13	350.3	218, 8		401.1	250.6	33	452.0	282.4	93	502.9	314. 2
54	300 2	187.6	14	351.1	219.4	74	402.0	251, 2	34	452. 8	283.0	94	503.7	314.8
55	301.1	188.1	15	352. 0	219, 9	75	102. 8	251, 7	35	453. 7	283.5	95	504.6	315.3
56	301.9	188.6	16	352, 8	220.4	76	403. 7	252. 2	36	454.5	284.0	96	505.4	315.8
57	302.8	189. 2	17	353, 6	221.0	77	404.5	252.8	37	455. 4	284.6	97	506. 2	316.4
58	303, 6	189.7	18	354, 5	221.5	78	405, 4	253.3	38	456, 2	285.1	98	507.1	316.9
59	304.5	190. 2	19	355, 3	222.0	79	406. 2	253.8	39	457.1	285.6	99	508, 0	317.4
60	305.3	190, 8	20	356, 2	222.5	80	407.1	254. 3	40	457.9	286.2	600	508, 8	318.0
T) I - 4	71	T	Tilled	T	7.4	Third		T	Tiles	D	- Turk	Trins		Tot
Dist.	Dep.	Lat.	Dist.	Inp.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
					5	8° (1:	22°, 238	° 309°	١.					

 $58^{\circ}$  (122°, 238°, 302°).

TABLE 2.

Difference of Latitude and Departure for 33° (147°, 213°, 327°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	L.; t.	Dep.	Dist.	Lat.	Dep.
1	0.8	0.5	61	51. 2	33, 2	121	101.5	65, 9	181	151.8	98.6	241	202.1	131.3
	1.7	1.1	62	52.0	33, S	99	102.3	66, 4	82	152.6	99.1	42	203, 0	131.8
2 3	2.5	1.6	-63	52.8	34.3	23	103.2	67.0	83	153.5	99.7	43	203, 8	132.3
4	3.4	2. 2 2. 7	64	53.7	34. 9	24	101.0	67.5	84	154.3	100.2	44	204.6	132.9
5	4.2	2.7	65	54.5	35, 4	25	104.8	68.1	85		· 100. S	45	205, 5	133.4
6	5.0	3.3	66	55. 1	35, 9	26	105.7	68. 6	86	156.0	101.3	46	206.3	134.0
7	5.9	3.8	67	56, 2	36, 5	27	106.5	69, 2	87	156, 8	101.8	47	207. 2	134.5
8	6.7	4.4	68	57. 0	37. 0	28	107.3	69.7	88	157. 7	102.4	48	208.0	135.1
9	7.5	4.9	69	57. 9	37.6	29	108.2	70.3	89	158.5	102.9	49	208.8	135.6
10	8.4	5.4	70	58.7	38.1	30	109.0	70.8	90	159.3	103.5	50	209, 7	136. 2
11	9. 2 10. 1	6.0	71	59. 5	38.7	131	109. 9	71. 3	191	160.2	104.0	$\frac{251}{52}$	210.5	136.7
12 13	10.1	6.5 7.1	72 73	60.4 61.2	39, 2 39, 8	32 33	110.7 $111.5$	$71.9 \\ 72.4$	$\frac{92}{93}$	161.0 161.9	104. 6 105. 1	53	211.3 212.2	137. 2 137. 8
14	11.7	7.6	74	62.1	40.3	34	112.4	73. 0	94	162.7	105.7	54	213. 0	138. 3
15	12.6	8.2	75	62. 9	40.8	35	113. 2	73.5	95	163. 5	106. 2	55	213. 9	138. 9
16	13.4	8.7	76	63. 7	41.4	36	114.1	74.1	96	164. 4	106.7	56	214.7	139. 4
17	14.3	9.3	77	64.6	41.9	37	114. 9	74.6	97	165. 2	107.3	57	215.5	140.0
18	15.1	9.8	78	65, 4	42.5	38	115.7	75 9	98	166, 1	107.8	58	216.4	140.5
19	15.9	10.3	79	66, 3	43, 0	39	116.6	75. 7	- 99	166, 9	108.4	59	217.2	141.1
20	16.8	10.9	80	67.1	43, 6	40	117.4	76, 2	200	167.7	108, 9	60	218.1	141.6
21	17.6	11.4	81	67. 9	44. 1	141	118.3	76.8	201	168, 6	109.5	261	218. 9	142. 2
22 23	18.5	12.0	82	68, 8	44.7	42	119. 1	77.3	02	169, 4	110.0	62	219.7	142.7
23	19.3	12.5	-83	69, 6	45, 2	43	119. 9	77.9	03	170.3	110.6	- 63	220, 6	143.2
24	20.1	13.1	84	70.4	45. 7	41	120.8	78, 4	04	171.1	111.1	64	221.4	143.8
1 25 1	21.0	13.6	85	71.3	46.3	45	121.6	79.0	05	171.9	111.7	65	222.2	144.3
26 27	21.8	14. 2	86	72. 1 73. 0	46, 8	-16	122. 4 123. 3	79.5	06	172.8 173.6	$\frac{112.2}{112.7}$	66	223.1	144. 9
28	22.6 23.5	14.7	87	73, 0	47.4	47	123, 3	80.1	07 08	1:3.6	112.7	67 68	223, 9 224, 8	145, 4 146, 0
29	24.3	15. 2 15. 8	88 89	73, 8 74, 6	47. 9 48. 5	48 49	124.1 125.0	80, 6 81, 2	09	174, 4 175, 3	113.3 113.8	69	225.6	146.5
50	25. 2	16.3	90	75. 5	49, 0	50	125, 8	81.7	10	176. 1	111.4	70	228. 4	147.1
31	26, 0	16. 9	-91	76.3	49, 6	151	126. 6	52, 2	211	177.0	114.9	271	227.3	147.6
32	96.3	17. 4	92	77. 2	50, 1	52	127. 5	82.8	12	177. S	115.5	70	228, 1	148.1
33	27. 7 28. 5	18.0	93	78.0	50, 7	53	128. 3	83.3	13	178. 6	116.0	72 73	229, 0	148. 7
31	28.5	18.5	94	78.8	51, 2	54	129.2	83, 9	14	179.5	116.6	74 75	229.8	149. 2
35	29.4	19.1	95	79. 7	51.7	55	130.0	84.4	15	180, 3	117.1	7.5	230.6	149, 8
- 36	30.2	19.6	96	80.5	52.3	56	130.8	85, 0	16	181, 2	117.6	76	231.5	150.3
- 37	31.0	20. 2 20. 7	97	81.4	52.8	57	131.7	55, 5	17	182, 0	$\frac{118.2}{118.7}$	77 78	232.3	150, 9
33	31. 9	20.7	98	82.2	53, 4	58	132.5	86, 1	18	182, 8	118.7	78	233, 2	151. 4
-39	32.7	21.2	99	83.0	53, 9	59	133. 3	83.6	19	183.7	1119.3	79	234.0	152.0
40	$-\frac{33}{5}$	21.8	100	-83.9	54, 5	- (60)	134. 2	87. 1	20	154.5	119.8		234. 8	152.5
41	34. 1	22, 3	101	84.7	55, 0	161	135, 0	47. 7	221	185.3	120.4	281	235.7	153.0
42	35, 2 36, 1	$\frac{22.9}{23.4}$	02	85, 5	55, 6	62	135, 9 136, 7	35, 2	22 23	$\frac{186,2}{187,0}$	120, 9 121, 5	82 83	236. 5 237. 3	153, 6 154, 1
43 44	36. 9	24. 0	03 01	86, 4 87, 2	56, 1 56, 6	63 64	137. 5	89.0	21	187. 9	122.0	84	238. 2	154. 7
45	37. 7	24.5	05	88. 1	57.0	65	138 4	89, 9	25	188.7	122.5	85	239. 0	155. 2
46	38.6	25.1	06	88, 9	57. 2 57. 7	66	139, 2	90, 4	26	189, 5	123. 1	86	239. 9	155, 8
47	39.4	25.6	07	89.7	58, 3	157	1 10 1	91.0	27	190, 4	123. 6	87	240. 7	156, 3
18	40.3	26, 1	08	90, 6	58, 8	68	140.9	91.5	28	191.2	124.2	88	241.5	156, 9
49	41.1	26.7	-09	91. 1	59, 4	69	111.7	92.0	28 29	192, 1	124.7	89	242.4	157. 1
50	41.14	27, 2	10	92.3	59, 9	70	142.6	92.6	30	192.9	125.3	90	243.2	157.9
51	42.8	27. 8 28. 3	111	93. 1	60, 5	171	143 4	93.4	231	193, 7	125.8	291	244.1	158, 5
52	43, 6	28.3	12	93, 9	61, 0	12	144.5	93, 7	32	194.6	126.4	92	244.9	159. 0
53	44.4	28.9	13	94. 8	61.5	1 (1	1.6.1	94.2	- 33	195, 4	126, 9	-93	245.7	159, 6
54	45. 3	29. 4	14	95, 6	62.4	7.1	145.9	91.8	34	196, 2	127. 4	94	246. 6	160.1
55	46, 1	30. 0	15	96. 1	b2, 6	75 76	146, 8	35.3	35	197. 1	128.0	95	247.4	160.7
56	47.0	30. 5	16	97.3	63. 2	10	147.7	95, 9	36	197.9	128, 5	96	248. 2	161.2
57 58	48, 6	31.0	17	98. 1 99. 0	63.7	1 75	145.4	96, 9	37 38	198, 8 199, 6	129, 1 129, 6	97 98	249. 1 249. 9	161. 8 : 162. 3
59 59	48.6	31. 6 32. 1	18 19	99, S	64.3 64.8	70	150.1	97, 5	39	200, 4	130. 0	99	250.8	162. 8
60	50.3	32.7	20	100, 6	65, 4	\$0	151. 0	98, 0	40	201. 3	130. 7	300	251.6	163. 4
30	0.5.11		-"	1005.11	1	1	10011		, ""	2.71	111111		2.11.0	2
Dist.	Dep.	Lat.	Dist.	Dep	: .	Dist.		Lat	Dist.	Dep.	Lat	Dist.	Dep.	Lat
34014	201.			27.3		1111	,		1					

57° (123°, 237°, 303°).

TABLE 2.

[Page 597

Difference of Latitude and Departure for 33° (147°, 213°, 327°).

									(	,	, 021	, .		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	252, 4	163. 9	361	302.8	196.6	421	353. 1	229.3	481	403, 4	262.0	541	453. 7	294.6
02	253. 3	164. 4	62	303.6	197.1	22	353. 9	229. 8	82	404. 2	262. 5	42	454.6	295. 2
03	254.1	165.0	63	304. 4	197. 7	23	354.7	230. 4	83	405. 1	263. 1	43	455. 4	295. 7
04	255. 0	165, 5	64	305.3	198. 2	24	355. 6	230, 9	84	405. 9	263. 6	44	456, 2	296. 2
05	255. 8	166.1	65	306, 1	198.8	25	356.4	231. 4	85	406.7	264.1	45	457. 1	296. 8
06	256.6	166.6	66	307. 0	199.3	26	357.3	232.0		407.6	264. 7	46	457.9	297. 3
07	257.5	167. 2	. 67	307.8	199.8	27	358.1	232, 5	87	408. 4	265. 2	47	458, 8	297. 9
08	258. 3	167. 7	68	308.6	200. 4	28	359, 0	233, 1	88	409.3	265. 8	48	459, 6	298, 4
09	259. 2	168, 3	69	309.5	200, 9	29	359, 8	233, 6	89	410.1	266, 3	49	460, 4	299. 0
10	260.0	168.8	70	310.3	201.5	30	360, 6	234. 2	90	411.0	266.8	50	461.3	299.5
311	260. 8	169.3	371	311, 2	202. 0	431	361.5	234. 7	491	411.8	267. 4	551	462, 1	300.1
19	261.7	169. 9	79	312 0	202, 6	32	869 3	235, 2	92	412.6	267. 9	52	463. 0	300, 6
12 13	262.5	170.4	72 73	312. 0 312. 8	203. 1	33	362, 3 363, 1	235, 8	93	413.5	268, 5	53	463, 8	301.2
14	263. 3	171.0	74	313. 7	203. 7	34	364.0	236. 3	94	414.3	269.0	54	464.6	301.7
15	264. 2	171.5	75	314.5	204. 2	35	364. 8	236, 9	95	415.1	269.6	55	465.5	302.3
16	265. 0	172. 1	76	315.3	204. 7	36	365. 7	237. 4	96	416.0	270.1	56	466.3	302.9
17	265, 9	172.6	77	316.2	205, 3	37	366, 5	238. 0	97	416.8	270.7	57	467.2	303.4
18	266. 7	173. 2	78	317. 0	205. 8	38	367.3	238, 5	98	417.6	271. 2	58	468. 0	303.9
19	267, 5	173. 7	79	317.9	206. 4	39	368. 2	239. 1	99	418.5	$\frac{1}{271.8}$	59	468, 8	304.5
20	268.4	174. 2	80	318.7	206. 9	40	369. 0	239, 6	500	419.3	272.3	60	469.7	305.0
321	269. 2	174.8	381	319.5	207.5	441	369. 9	$\frac{230.0}{240.1}$	501	420. 2	979 0	561	470.5	305, 5
99	270. 1	175. 3	82	320.4	201. 5	42	370.7	240. 7	02	420. 2	$272.8 \\ 273.4$	62	471.3	306, 1
22 23	270. 1	175. 9	82	320. 4	208. 6	42	371.5	241. 2	03	421.0	$\frac{273.4}{273.9}$	63	472.2	306.6
24	271. 7	176.4	84	322.1	208. 6	44	372.4	241. 8	03	422. 7	274.5	64	473.0	200, 0
25	272.6	177. 0	85	322.1	209. 6	45	373. 2	242, 3	05	423.5	275.0	65	473.8	307. 2 307. 7
26	273. 4	177.5	86	323. 7	210.9	46	374.1	242. 9	06	424. 4	275. 6	66	474.7	308.3
97	274. 2	178.1	87	324.6	$210.2 \\ 210.7$	47	374.9	243. 4	07	425. 2	276. 1	67	475.5	308.8
27 28	275. 1	178.6	88	325. 4	211.3	48	375.7	244. 0	08	426. 0	276. 7	68	476.4	309. 4
29	275. 9	179.1	89	326. 2	211.8	49	376.6	244. 5	09	426. 9	277. 2	69	477. 2	309. 9
30	276.8	179.7	90	327.1	212. 4	50	377.4	245. 1	10	427.7	277. 8	70	478.0	310.4
331	277.6	180. 2	391	327. 9	212. 9	451	378.2	245. 6	511	428.5	278.3		478. 9	311.0
32	$\frac{277.6}{278.4}$	180. 2	92	328.8	213.5	451 52	379.1	246. 1	12	428. 5	278. 8	571	478.9	
33	279.3	181.3	93	329.6	214.0	53	379.9	246. 7	13	430. 2	279.4	72 73	480.6	311.5 312.0
34	280. 1	181. 9	94	330.4	214.6	54	380.8	247. 2	14	431.1	279. 9	74	481.4	312.6
35	281.0	182. 4	95	331.3	215.1	55	381.6	247. 8	15	431.9	280. 4	75	482.2	313. 1
36	281.8	183.0	96	332.1	215, 6	56	382.4	248. 3	16	432.7	281. 0	76	483.1	313.7
37	282.6	183.5	97	333. 0	216. 2	57	383.3	248. 9	17	433.6	281.5	77	483.9	314.2
38	283.5	184.1	98	333, 8	216, 7	58	384.1	249. 4	18	434.4	282. 1	78	484.7	314.8
39	284. 3	184.6	99	334.6	217.3	59	385. 0	250. 0	19	435, 3	282. 6	79	485.6	315.3
40	285. 2	185. 1	400	335.5	217. 8	60	385, 8	250. 5	20	436.1	283. 2	80	486.4	315. 9
341	286. 0	185. 7	401	336, 3	218. 4	461	386.6	251.0	521	436. 9	283. 7		487. 2	316.4
42	286.8	186. 2	02	337.1	218. 9	62	387.5	251. 6	22	437.8	284.3	581		317. 0
43	286.8	186. 2	03	338. 0	218. 9	63	388, 3	252, 1	23	437.8	284. 8	82 83	488, 1 488, 9	317.5
44	288.5	187.3	04	338, 8	220. 0	64	389.1	252. 7	$\frac{23}{24}$	439.4	285.4	84	489.8	318.1
45	289. 3	187. 9	05	339.7	220. 5	65	390. 0	253. 2	25	440.3	285. 9	85	490.6	318.6
46	290. 2	188.4	06	340.5	221.1	66	390.8	253. 8	26	441.1	286, 5	86	491.5	319.2
47	291.0	189. 0	07	341.3	221.6	67	391.7	254. 3	27	442.0	287. 0	87	492.3	319.7
48	291.9	189.5	08	342. 2	000 9	68	392.5	254. 9	28	442.8	287.5	88	493.1	320. 2
49	292.7	190.0	09	343. 0	222.2 $222.7$	69	393. 3	255, 4	29	443.6	288. 1	89	494.0	320. 8
50	293. 5	190.6	10	343. 9	223. 3	70	394.2	255. 9	30	444.5	288. 6	90	494.8	321.3
351	294. 4	191.1	411	344.7	223.8	471	395. 0	256. 5	531	445.3	289. 2	591	495.7	321.9
52	295. 2	191. 7	12	345.5	224. 4	79	395. 8	257. 0	32	446.1	289. 2	92	496.5	200 1
53	296. 1	192. 2	13	346. 4	224. 4	72 73	396. 7	257.6	33	447.0	290. 3	93	497.3	322. 4 322. 9
54	296. 9	192. 8	14	347. 2	225. 4	74	397.5	258. 1	34	447.8	290. 8	94	498.1	323, 5
55	297.7	193. 3	15	348.1	226. 0	75	398.3	258. 7	35	448.7	291.4	95	499.0	324.1
56	298.6	193. 9	16	348, 9	226. 5	76	399. 2	259. 2	36	449.5	291. 9	96	499.8	324.1
57	299. 4	194.4	17	349.7	227. 1	77	400.0	259. 8	37	450.3	292.5	97	500.6	325.1
58	300. 2	194. 9	18	350.6	227.6	78	400. 9	260. 3	38	451.2	293. 0	98	501.5	325, 7
59	301. 1	195.5	19	351.4	228. 2	78 79	401.7	260. 9	39	452. 0	293.6	99	502.3	326. 2
60	301. 9	196. 0	20	352. 2	228. 7	80	402.6	261.4	40	452. 9	294.1	600	503. 2	326. 8
00	501.0	100.0	20	502.2	220.1	00	102.0	201.4	**	102. 0	204.1	GOO	500.2	020.0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep	Lat.
	Dep.	22.00	21.50.	Dep.	2,000	2711/01	z/cp.	LA.L.	2/101,	Dep.	IA.	2.100	L/Cpc	Late to
					5	7° (12	23°, 237	°, 303°)	).					ŀ

## Page 598]

#### TABLE 2.

Difference of Latitude and Departure for 34° (146°, 214°, 326°),

			nuere	ence of 1	annua	e and	Departi	ire for	34° (1	46°, 214	°, 326°	).		
Dist	Lat,	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.8	0,6	61	50.6	34. 1	121	100.3	67. 7	181	150, 1	101.2	241	199.8	134.8
2 3	1.7	1.1	62	51.4	34, 7	22	101.1	68, 2	82	150, 9	101.8	42	200.6	135, 3
	2. 5 3. 3	1.7	63	52. 2	35, 2	23	102.0	68, 8	83	151.7	102.3	43	201.5	135.9
4	3.3	2. 2	64	53.1	35. 8	24	102.8	. 69, 3	84	152.5	102.9	44	202.3	136.4
5	4.1	2.8	65	53.9	36, 3	25	103.6	69, 9	85	153, 4	103, 5	45	203.1	137.0
- 6	5, 0	3.4	66	54.7	36, 9	26	104.5	70.5	-86	154. 2	104.0	46	203.9	137.6
7	5, 8	3, 9	67	55, 5	37. 5	27	105.3	71.0	87	155.0	104.6	47	204, 8	138.1
- 8	6, 6	4.5	68	56. 4	38, 0	28	106.1	71.6	- 88	155. 9	105. 1	48	205, 6	138.7
- 9	7. 5	5, 0	69	57. 2	38, 6	29	106, 9	72.1	89	156, 7	105.7	49	206.4	139, 2
10	8.3	5.6	_70	_ 58, 0	39, 1	30	107. S	72.7	90	157.5	106, 2	50	207.3	139.8
11	9. 1	6, 2 6, 7	71	58, 9	39, 7	131	108, 6	73.3	191	158, 3	106, 8	251	208.1	140.4
12	9, 9	6. 7	72	59. 7	40, 3	32	109.4	73.8	92	159, 2	107.4	52	208, 9	140.9
13	10. 8	7.3	73	60, 5	40, 8	-33	110.3	74.4	93	160.0	107. 9	53	209.7	141.5
14	11.6	7.8	74	61.3	41.4	34	111. I	$\frac{74.9}{75.5}$	94	160, 8	108.5	54	210.6	142.0
15	12.4 13.3	8.4	75	62, 2	41.9	35	111.9	(1), 0	95	161.7	109.0	55	211.4	142.6
16	15.3	8.9	76	63.0	42.5	36	112.7	76. 1	96		109, 6	56	212.2	143. 2
17	14.1	9, 5	77	63. 8	43.1	37	113, 6	76, 6	97	163, 3	110, 2	57	213. 1	143. 7
18 19	14.9 15.8	10.1	78	64.7	43.6	38	114.4	77. 2	98	164. 1	110.7	58	213. 9	144.3
20		$10.6 \\ 11.2$	79 80	65.5	44. 2 44. 7	39	115. 2	77. 7	99	165, 0	111.3	59	214.7	144.8
	16.6			66.3		40	116. 1	78.3	200	165, 8	111.8	60	215.5	145.4
21	17.4	11.7	81	67, 2	45, 3	141	116. 9	78.8	201	166. 6	112.4	261	216, 4	145.9
22 23	18, 2 19, I	12.3 12.9	82 83	68, 0	45.9	42 43	117.7	79, 4	02	167.5	113.0	62	217.2	146.5
23 24	19, 1	12.9		68, 8	46, 4 47, 0		118.6	80.0	03		113.5	63	218.0	147.1
25	20, 7	13.4	84 85	69, 6	47.5	44 45	119.4	80.5	04 05	169. 1 170. 0	114.1	64	218.9	147.6
26	21.6	14. 0 14. 5	86	$70.5 \\ 71.3$	48.1	46	120, 2 121, 0	81. 1	06	170.0	$\frac{114.6}{115.2}$	65 66	219. 7 220. 5	148. 2 148. 7
97	22.4	15.1	87	72.1	48, 6	47	121.9	82. 2	07	171.6	115.8	67	221.4	149.3
27 28	23. 2	15. 7	88	73. 0	49. 2	18	122.7	82.8	08	179 4	116.3	68	222. 2	149. 9
29	24. 0	16, 2	89	73. 8	49.8	49	123. 5	83. 3	09	172. 4 173. 3	116.9	69	223. 0	150. 4
30	24, 9	16.8	90	74.6	50.3	50	124. 4	83.9	10	174.1	117. 4	70	223. 8	151.0
31	=25. 7	17.3	91	75.4	50.9	151	125. 2	84. 4	211	174.9	118.0	271	224.7	151.5
32	26, 5	17.9	92	76. 3	51.4	52	126. 0	85. 0	12	175. 8	118.5	72	225.5	152.1
33	27. 4	18.5	93	77. 1	52.0	53	126. 8	85, 6	13	176, 6	119.1	73	226. 3	152.7
34	28. 2	19.0	94	77. 9	52.6	54	127. 7	86.1	14	177.4	119, 7	• 73 • 74	227. 2	153. 2
35	29. 0	19.6	95	78.8	53, 1	55	128.5	86, 7	15	178. 2	120, 2	75	228.0	153, 8
36	29, 8	20, 1	96	79.6	53, 7	56	129.3	87. 2	16	179. I	120, 8	76	228.8	154. 3
37	30.7	20, 7	97	80, 4	54. 2	57	130.2	87. 8	17	179.9	121.3	77	229.6	154.9
38	31.5	21.2	98	81.2	54.8	58	131.0	88.4	18	180.7	121.9	78	230.5	155.5
- 39	32. 3	21.8	- 99	82.1	55, 4	59	131. 8	88.9	19	181.6	122.5	79	231.3	156.0
40 .	33.2	22, 4	100	82. 9	55. 9	60	132.6	89.5	20	182.4	123, 0	_80	232. 1	156.6
41	34.0	22.9	101	83. 7	56, 5	161	133.5	90.0	221	183, 2	123.6	281	233.0	157, 1
42	34.8	23.5	02	84.6	57.0	62	134.3	90, 6	22	184.0	124. 1	82	233, 8	157.7
43	35. 6	24.0	-03	85. 4	57.6	63	135. 1	91.1	23	184. 9	124. 7	83	234.6	158, 3
44	36, 5	24.6	04	86. 2	58, 2	64	136.0	91.7	24	185.7	125.3	84	235. 4	158.8
45	37.3	25, 2 25, 7	05	87.0	58.7	65	136, 8	92.3	25	186.5	125.8	85	236. 3	159. 4
46	38.1	25.7	06	87. 9	59.3	66	137.6	92.8	26	187. 4	126.4	86	237.1	159.9
47	39. 0	26, 3	07	88.7	59.8	67	138.4	93.4	27	188.2	126. 9	87	237.9	160.5
48	39, 8	26, 8	08	89.5	60, 4	68	139, 3	93, 9	28	189.0	127.5	88	238.8	161.0
49	40.6	27. 4	09	90. 4	61.0	69 70	140.1	94.5	29 30	189.8	128. 1 128. 6	- 89 - 90	239. 6 240. 4	161.6 162.2
50	_41.5	28.0	_10_	91.2	61.5		140.9	95, 1		190.7				
51	42.3	28, 5	111	92.0	62.1	171	141.8	95.6	231	191. 5	129. 2	291	241.2	162.7
52	43. 1	29. 1	12	92.9	62.6	72 73	142.6	96. 2	32 33	192.3 193.2	129.7	92 93	242. 1 242. 9	163, 3 163, 8
53	43. 9	29.6	13 14	93, 7 94, 5	63. 2 63. 7	74 74	143.4 144.3	97.3	34	194.0	130. 3 130. 9	94	242.9	164, 4
54 55	44. S 45. 6	30, 2 30, 8	15	95.3	64.3	75	145, 1	97. 9	35	194.8	131. 4	95	244.6	165.0
56	46, 4	31.3	16	96. 2	64. 9	76	145. 9	98.4	36	195.7	132. 0	96	245.4	165.5
57	47.3	31.9	17	97.0	65.4	77	146, 7	99. 0	37	196, 5	132.5	97	216.2	166.1
58	48.1	32.4	18	97.8	66, 0	78	147.6	99, 5	38	197.3	133, 1	98	247. 1	166.6
59	48.9	33.0	19	98.7	66.5	79	148. 1	100.1	39	198.1	133, 6	99	247.9	167. 2
60	49.7	33.6	20	99, 5	67. 1	80	149.2	100.7	40	199.0	134. 2	300	248.7	167.8
			1											
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
	7 177			2.17										

56° (124°, 236°, 304°).

Difference of Latitude and Peparture for 34° (146°, 214°, 326°).

Dist.   Lat.   Dep.   Dist.   Dep.   Dep.   Dist.   Dep.   Dep.   Dep.   Dist.   Dep.   D	551 552 553 54 55 56 57 58 59 60	448. 5 449. 4 450. 2 451. 0 451. 8 452. 6 453. 5 454. 3 455. 2 456. 0 457. 6 458. 4 459. 3 460. 1 460. 9	302, 5 303, 1 303, 6 304, 2 304, 8 305, 3 305, 9 307, 0 307, 5 308, 1 308, 7 309, 2 309, 8
02   250, 4   168, 9   62   300, 1   202, 4   22   349, 9   236, 0   82   399, 6   269, 5   03   251, 2   169, 4   63   300, 9   203, 0   23   350, 7   236, 5   83   400, 4   270, 6   05   252, 9   170, 6   65   302, 6   204, 1   25   352, 2   237, 7   84   401, 3   270, 6   06   253, 7   171, 1   66   303, 4   204, 7   26   353, 2   237, 7   85   402, 1   271, 2   07   254, 5   171, 7   67   304, 3   205, 2   27   354, 0   238, 8   87   403, 8   272, 3   08   255, 3   172, 2   68   305, 1   205, 8   28   354, 8   293, 8   840, 6   272, 3   09   256, 2   172, 8   69   305, 9   206, 3   29   355, 7   239, 9   89   405, 4   273, 4   10   257, 0   173, 3   70   306, 7   206, 9   30   356, 5   240, 4   30   406, 2   274, 0   11   257, 8   173, 9   371   307, 6   207, 5   431   357, 3   241, 0   491   407, 1   274, 0   12   258, 7   174, 5   72   308, 4   208, 0   32   358, 1   241, 0   491   407, 1   274, 0   13   259, 5   175, 0   73   309, 2   208, 6   33   359, 0   242, 1   93   408, 7   275, 1   14   260, 3   175, 6   74   310, 1   209, 1   34   359, 8   242, 7   94   409, 5   276, 2   15   261, 2   176, 1   75   310, 9   209, 7   35   306, 6   243, 2   95   410, 4   276, 8   16   262, 0   176, 7   76   311, 7   210, 3   36   361, 5   244, 9   94   412, 0   277, 9   17   262, 8   177, 3   77   312, 6   210, 8   37   302, 3   244, 9   94   412, 0   277, 9   18   264, 5   178, 4   79   314, 2   211, 9   39   364, 0   245, 5   99   413, 7   279, 6   20   265, 3   178, 9   80   315, 0   212, 5   40   348, 8   34, 41, 6   220, 6   341, 2   271, 9   3   321   266, 1   179, 5   831   315, 9   213, 6   42   366, 4   247, 2   02   416, 2   207, 7   321   266, 6   181, 2   84   318, 4   214, 7   44   368, 1   248, 3   64   417, 8   281, 8   321   266, 1   179, 5   831   315, 9   213, 6   42   366, 4   247, 2   02   416, 2   207, 7   331   274, 4   485, 1   391   334, 2   215, 3   45   366, 4   247, 2   02   416, 2   207, 3   328, 8   328, 8   328, 8   216, 4   47   370, 6   250, 0   7   401, 328, 8   327, 5   220, 9	42 43 44 45 46 47 48 49 551 551 55 56 57 58 59 60	449. 4 450. 2 451. 0 451. 8 452. 6 453. 5 454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	303. 1 303. 6 304. 2 304. 8 305. 3 305. 9 306. 4 307. 0 307. 5 308. 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	42 43 44 45 46 47 48 49 551 551 55 56 57 58 59 60	449. 4 450. 2 451. 0 451. 8 452. 6 453. 5 454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	303. 1 303. 6 304. 2 304. 8 305. 3 305. 9 306. 4 307. 0 307. 5 308. 1
03         251. 2         169. 4         63         300. 9         203. 0         23         350. 7         226. 5         83         400. 4         270. 6           04         252. 9         170. 0         64         301. 8         293. 5         24         351. 5         237. 7         85         402. 1         271. 2           06         253. 7         171. 1         66         303. 4         204. 7         26         352. 3         237. 7         85         402. 1         271. 2           08         255. 3         171. 7         67         304. 3         205. 2         27         354. 8         228. 8         404. 6         272. 8           08         255. 3         172. 2         68         305. 1         205. 8         28         354. 8         229. 9         805. 7         273. 9         89         405. 4         272. 8           10         257. 0         173. 3         70         306. 7         206. 9         30         356. 5         240. 4         90         406. 2         274. 0           311         258. 5         175. 0         73         309. 2         208. 6         33         359. 0         242. 1         9         407. 9         2	43 44 45 46 47 48 49 50 551 52 53 54 55 56 57 58 59 60	450, 2 451, 0 451, 8 452, 6 453, 5 454, 3 455, 2 456, 0 456, 8 457, 6 458, 4 459, 3 460, 1	303, 6 304, 2 304, 8 305, 3 305, 9 306, 4 307, 0 307, 5 308, 1 308, 7
03         251.2         169.4         63         300.9         203.0         23         350.7         226.5         83         400.4         270.1           04         252.0         170.0         64         301.8         203.5         24         351.5         237.1         84         401.3         270.1           06         252.9         170.6         65         302.6         204.1         25         352.3         237.7         85         402.1         271.2           06         253.7         171.1         66         303.4         204.7         26         353.2         238.2         86         402.9         271.8           08         255.3         172.2         68         305.1         205.8         28         354.8         239.3         88         404.6         272.8           10         257.0         173.3         70         306.7         206.9         30         356.5         240.4         90         406.2         274.0           311         257.8         173.9         371         307.6         207.5         431         357.3         241.0         491         407.1         274.0           312         258.7	44 45 46 47 49 50 551 52 53 54 55 56 57 58 59 60	450, 2 451, 0 451, 8 452, 6 453, 5 454, 3 455, 2 456, 0 456, 8 457, 6 458, 4 459, 3 460, 1	303, 6 304, 2 304, 8 305, 3 305, 9 306, 4 307, 0 307, 5 308, 1 308, 7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	44 45 46 47 49 50 551 52 53 54 55 56 57 58 59 60	451. 0 451. 8 452. 6 453. 5 454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	304. 2 304. 8 305. 3 305. 9 306. 4 307. 0 307. 5 308. 1 308. 7
65         252.9         170.6         65         302.6         204.1         25         352.2         227.7         85         402.1         271.2           60         253.7         7 171.1         66         303.4         204.7         26         353.2         238.2         86         402.9         272.8           08         255.3         172.2         68         305.1         205.8         28         354.8         239.3         88         404.6         272.8           10         257.0         173.3         70         306.7         206.9         30         356.5         240.4         90         406.2         274.0           311         257.8         174.5         72         308.4         208.0         32         355.7         241.0         491         407.1         274.0           311         257.5         174.5         72         308.4         208.0         32         358.1         241.0         491         407.1         274.0           311         257.5         174.5         72         308.4         208.0         33         356.5         241.0         491         407.7         275.7         13         106.0         202.0	45 46 47 48 49 50 551 52 53 54 55 56 57 58 59 60	451. 8 452. 6 453. 5 454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	304. 8 305. 3 305. 9 306. 4 307. 0 307. 5 308. 1 308. 7
66         253. 7         171. 1         66         303. 4         204. 7         26         353. 2         228. 2         86         402. 9         271. 8           07         254. 5         171. 7         67         304. 3         295. 2         27         354. 0         228. 8         8         404. 6         272. 8           08         255. 3         172. 2         68         305. 1         205. 8         28         334. 8         239. 3         88         404. 6         272. 8           10         257. 0         173. 3         70         306. 7         206. 9         30         356. 5         239. 9         89         405. 4         273. 4           311         257. 8         173. 9         371         307. 6         207. 5         313         357. 3         241. 0         491         407. 1         274. 6           12         258. 7         174. 5         72         308. 4         208. 0         32         358. 1         241. 6         92         407. 9         275. 7           13         259. 5         175. 0         73         309. 2         208. 6         33         359. 0         242. 7         9         408. 7         275. 7      <	46 47 48 49 50 551 52 53 54 55 56 57 58 59 60	452. 6 453. 5 454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	305. 3 305. 9 306. 4 307. 0 307. 5 308. 1 308. 7
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09 256.2 172.8 69 305.9 206.3 29 355.7 239.9 89 405.4 273.4 10 257.0 173.3 70 306.7 206.9 30 356.5 240.4 90 406.2 273.4 12 258.7 174.5 72 308.4 208.0 32 358.1 241.6 92 407.9 275.1 12 258.7 174.5 72 308.4 208.0 32 358.1 241.6 92 407.9 275.1 14 260.3 175.6 74 310.1 209.1 34 359.8 242.7 94 409.5 276.2 15 261.2 176.1 75 310.9 209.7 3 360.6 242.1 93 408.7 275.7 14 260.3 175.6 74 310.1 209.1 34 359.8 242.7 94 409.5 276.2 16 262.0 176.7 76 311.7 210.3 36 361.5 243.8 96 411.2 277.4 17 262.8 177.7 8 78 313.4 211.4 38 363.1 244.9 98 412.8 277.4 18 263.7 177.8 78 313.4 211.4 38 363.1 244.9 98 412.8 278.4 19 264.5 178.4 7 9 314.2 211.9 39 364.0 245.5 99 413.7 279.6 20 265.3 178.9 80 315.0 212.5 40 364.8 246.0 500 414.5 279.6 22 265.0 180.1 82 316.7 213.6 441 368.1 247.2 02 416.2 20.2 265.8 183.0 82 316.7 213.6 441 368.6 246.6 501 415.3 286.1 22 266.6 181.2 82 316.7 213.6 441 368.6 246.6 501 415.3 286.1 22 266.8 181.2 8 316.5 213.8 4 214.4 368.1 244.9 98 412.8 278.4 298.6 181.2 8 316.5 213.8 4 214.4 368.1 244.2 044.1 47.8 253.2 22 267.8 180.6 83 317.5 214.2 4 368.6 246.6 501 415.3 286.1 22 266.6 181.2 8 368.3 20.0 215.8 46 369.8 249.4 06 419.4 282.9 272.71.1 182.9 87 320.8 216.4 47 370.6 250.0 07 420.3 283.2 282.2 18.8 4 88 321.7 217.0 48 371.4 250.5 08 421.1 284.1 29 272.8 184.0 89 322.5 217.5 49 372.2 251.1 09 421.9 284.3 34 41.7 8 253.3 275.2 185.6 92 325.0 219.2 52 374.7 252.8 12 424.4 286.3 277.9 186.2 39 325.8 216.4 47 370.6 250.0 07 420.3 283.3 276.1 186.2 93 325.8 216.4 47 370.6 253.1 109.4 249.8 6 32.5 288.5 21.9 186.2 93 325.8 219.8 53.7 250.1 250.9 126.2 250.7 186.2 250.9 255.0 260.9 255.0 16.4 428.8 285.9 325.8 219.9 8 322.5 251.9 186.2 93 325.8 219.8 53 375.6 253.3 13 425.3 286.9 328.2 17.9 186.2 93 325.8 219.8 53 375.6 253.3 13 425.3 286.9 328.2 17.9 186.2 93 325.8 219.8 53 377.7 256.1 18 426.9 288.0 32.2 189.0 98 330.0 222.6 58 374.7 252.8 12 424.4 286.3 32 276.1 188.4 97 339.1 222.0 57 378.9 255.5 17 428.6 289.1 32.2 257.7 188.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 431.1 290.1 400.2 22.6 58 375.7 256	551 552 553 54 55 56 57 58 59 60	454. 3 455. 2 456. 0 456. 8 457. 6 458. 4 459. 3 460. 1	306. 4 307. 0 307. 5 308. 1 308. 7
09 256.2 172.8 69 305.9 206.3 29 355.7 239.9 89 405.4 273.4 10 257.0 173.3 70 306.7 206.9 30 356.5 240.4 90 406.2 273.4 12 258.7 174.5 72 308.4 208.0 32 358.1 241.6 92 407.9 275.1 12 258.7 174.5 72 308.4 208.0 32 358.1 241.6 92 407.9 275.1 14 260.3 175.6 74 310.1 209.1 34 359.8 242.7 94 409.5 276.2 15 261.2 176.1 75 310.9 209.7 3 360.6 242.1 93 408.7 275.7 14 260.3 175.6 74 310.1 209.1 34 359.8 242.7 94 409.5 276.2 16 262.0 176.7 76 311.7 210.3 36 361.5 243.8 96 411.2 277.4 17 262.8 177.7 8 78 313.4 211.4 38 363.1 244.9 98 412.8 277.4 18 263.7 177.8 78 313.4 211.4 38 363.1 244.9 98 412.8 278.4 19 264.5 178.4 7 9 314.2 211.9 39 364.0 245.5 99 413.7 279.6 20 265.3 178.9 80 315.0 212.5 40 364.8 246.0 500 414.5 279.6 22 265.0 180.1 82 316.7 213.6 441 368.1 247.2 02 416.2 20.2 265.8 183.0 82 316.7 213.6 441 368.6 246.6 501 415.3 286.1 22 266.6 181.2 82 316.7 213.6 441 368.6 246.6 501 415.3 286.1 22 266.8 181.2 8 316.5 213.8 4 214.4 368.1 244.9 98 412.8 278.4 298.6 181.2 8 316.5 213.8 4 214.4 368.1 244.2 044.1 47.8 253.2 22 267.8 180.6 83 317.5 214.2 4 368.6 246.6 501 415.3 286.1 22 266.6 181.2 8 368.3 20.0 215.8 46 369.8 249.4 06 419.4 282.9 272.71.1 182.9 87 320.8 216.4 47 370.6 250.0 07 420.3 283.2 282.2 18.8 4 88 321.7 217.0 48 371.4 250.5 08 421.1 284.1 29 272.8 184.0 89 322.5 217.5 49 372.2 251.1 09 421.9 284.3 34 41.7 8 253.3 275.2 185.6 92 325.0 219.2 52 374.7 252.8 12 424.4 286.3 277.9 186.2 39 325.8 216.4 47 370.6 250.0 07 420.3 283.3 276.1 186.2 93 325.8 216.4 47 370.6 253.1 109.4 249.8 6 32.5 288.5 21.9 186.2 93 325.8 219.8 53.7 250.1 250.9 126.2 250.7 186.2 250.9 255.0 260.9 255.0 16.4 428.8 285.9 325.8 219.9 8 322.5 251.9 186.2 93 325.8 219.8 53 375.6 253.3 13 425.3 286.9 328.2 17.9 186.2 93 325.8 219.8 53 375.6 253.3 13 425.3 286.9 328.2 17.9 186.2 93 325.8 219.8 53 377.7 256.1 18 426.9 288.0 32.2 189.0 98 330.0 222.6 58 374.7 252.8 12 424.4 286.3 32 276.1 188.4 97 339.1 222.0 57 378.9 255.5 17 428.6 289.1 32.2 257.7 188.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 431.1 290.1 400.2 22.6 58 375.7 256	551 552 553 54 55 56 57 58 59 60	455, 2 456, 0 456, 8 457, 6 458, 4 459, 3 460, 1	$     \begin{array}{r}       307.0 \\       \hline       307.5 \\       \hline       308.1 \\       308.7     \end{array} $
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35 277.7 187.3 95 327.5 220.9 55 367.2 254.4 15 426.9 288.0 36 278.6 187.9 96 328.3 221.4 56 378.0 255.0 16 427.8 288.5 37 279.4 188.4 97 329.1 222.0 57 378.9 255.5 17 428.6 289.1 38 280.2 189.0 98 330.0 222.6 58 379.7 256.1 18 429.4 289.6 39 281.0 189.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 428.1 190.1 400 331.6 223.7 60 381.3 257.2 20 431.1 290.8 341 282.7 190.7 401 332.4 224.2 461 382.2 257.8 521 431.9 291.3	571	473. 4 474. 2	319.3
35 277.7 187.3 95 327.5 220.9 55 367.2 254.4 15 426.9 288.0 36 278.6 187.9 96 328.3 221.4 56 378.0 255.0 16 427.8 288.5 37 279.4 188.4 97 329.1 222.0 57 378.9 255.5 17 428.6 289.1 38 280.2 189.0 98 330.0 222.6 58 379.7 256.1 18 429.4 289.6 39 281.0 189.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 428.1 190.1 400 331.6 223.7 60 381.3 257.2 20 431.1 290.8 341 282.7 190.7 401 332.4 224.2 461 382.2 257.8 521 431.9 291.3	72 73	474.2	319. 9 320. 4
35 277.7 187.3 95 327.5 220.9 55 367.2 254.4 15 426.9 288.0 36 278.6 187.9 96 328.3 221.4 56 378.0 255.0 16 427.8 288.5 37 279.4 188.4 97 329.1 222.0 57 378.9 255.5 17 428.6 289.1 38 280.2 189.0 98 330.0 222.6 58 379.7 256.1 18 429.4 289.6 39 281.0 189.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 428.1 190.1 400 331.6 223.7 60 381.3 257.2 20 431.1 290.8 341 282.7 190.7 401 332.4 224.2 461 382.2 257.8 521 431.9 291.3	73	475. 0 475. 9	320.4
36     278.6     187.9     96     328.3     221.4     56     378.0     255.0     16     427.8     288.5       37     279.4     188.4     97     329.1     222.0     57     378.9     255.5     17     428.6     289.1       38     280.2     189.0     98     330.0     222.6     58     379.7     256.1     18     429.4     289.6       39     281.0     189.6     99     330.8     223.1     59     380.5     256.7     19     430.3     290.2       40     281.9     190.1     400     331.6     223.7     60     381.3     257.2     20     431.1     290.8       311     282.7     190.7     401     332.4     224.2     461     382.2     257.8     521     431.9     291.3	74	475.9	321.0
37 279.4 188.4 97 329.1 222.0 57 378.9 255.5 17 428.6 289.1 38 280.2 189.0 98 330.0 222.6 58 379.7 256.1 18 429.4 289.6 39 281.0 189.6 99 330.8 223.1 59 380.5 256.7 19 430.3 290.2 40 281.9 190.1 400. 331.6 223.7 60 381.3 257.2 20 431.1 291.3 31.6 223.7 40 281.9 281.9 190.1 400.1 332.4 224.2 461 382.2 257.8 521 431.9 291.8	75	476.7	321.5
38     280. 2     189. 0     98     330. 0     222. 6     58     379. 7     256. 1     18     429. 4     289. 6       39     281. 0     189. 6     99     330. 8     223. 1     59     380. 5     256. 7     19     430. 3     290. 2       40     281. 9     190. 1     400     331. 6     223. 7     60     381. 3     257. 2     20     431. 1     290. 8       341     282. 7     190. 7     401     332. 4     224. 2     461     382. 2     257. 8     521     431. 9     291. 3	76	477.5	322, 1
40   281, 9   190, 1   400   331, 6   223, 7   60   381, 3   257, 2   20   431, 1   290, 8   341   282, 7   190, 7   401   332, 4   224, 2   461   382, 2   257, 8   521   431, 9   291, 3	77	478.3 479.2	322.7
40   281, 9   190, 1   400   331, 6   223, 7   60   381, 3   257, 2   20   431, 1   290, 8   341   282, 7   190, 7   401   332, 4   224, 2   461   382, 2   257, 8   521   431, 9   291, 3	78	479.2	321. 0 321. 5 322. 1 322. 7 323. 2
341 282. 7 190. 7 401 332. 4 224. 2 461 382. 2 257. 8 521 431. 9 291. 3	79	480.0	323. 8
[341 282.7   190.7   401   332.4   224.2   461   382.2   257.8   521   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   291.3   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9   431.9	80	480.8	324.3
		481.6	324. 9
42   283. 5   191. 2   02   333. 3   224. 8   62   383. 0   258. 3   22   432. 8   291. 9	82	482.5	325.4
$[ \begin{array}{cccccccccccccccccccccccccccccccccccc$	83	483, 3	326.0
<b>  44</b>   285, 2   192, 4 <b>  04</b>   334, 9   225, 9 <b>  64</b>   384, 7   259, 5 <b>  24</b>   434, 4   293, 0	84	484.1	326. 0 326. 6
<b>  45</b>   286, 0   192, 9 <b>  05</b>   335, 8   226, 5 <b>  65</b>   385, 5   260, 0 <b>  25</b>   435, 3   293, 6	85	485. 0	327.2
46 286.9 193.5 06 336.6 227.0 66 386.3 260.6 26 436.1 294.1 47 287.7 194.0 07 337.4 227.6 67 387.2 261.1 27 436.9 294.7	86	485.8	327. 2 327. 7
47   287. 7   194. 0   07   337. 4   227. 6   67   387. 2   261. 1   27   436. 9   294. 7	87	486.6	328, 2
48   288, 5   194, 6   08   338, 3   228, 1   68   388, 0   261, 7   28   437, 8   295, 3	88	487.5	328.8
49   289. 3   195. 2   09   339. 1   228. 7   69   388. 8   262. 3   29   438. 6   295. 8	89	488.3	329.4
50   290. 2   195. 7   10   339. 9   229. 3   70   389. 7   262. 8   30   439. 4   296. 4	90	489. 2	329, 9
351 291 0 196 3 411 340 7 229 8 471 390 5 263 4 531 440 3 296 9	591	490.0	330.5
52 291.8 196.8 12 341.6 230.4 72 391.3 263.9 32 441.1 297.4 53 292.7 197.4 13 342.4 230.9 73 392.1 264.5 33 441.9 298.0	92	490.8	331.0
52 291. 8 196. 8 12 341. 6 230. 4 72 391. 3 263. 9 32 441. 1 297. 4 53 292. 7 197. 4 13 342. 4 230. 9 73 392. 1 264. 5 33 441. 9 298. 0	93	491.6	331.6
54 293.5 198.0 14 343.2 231.5 74 393.0 265.0 34 442.7 298.6	94	492.5	332. 2
54     293.5     198.0     14     343.2     231.5     74     393.0     265.0     34     442.7     298.6       55     294.3     198.5     15     344.1     232.1     75     393.8     265.6     35     443.6     299.1	95	492. 5 493. 3	332. 2 332. 7
56 295.1 199.1 16 344.9 232.6 76 394.6 266.2 36 444.4 299.7	96	494.1	333 3
57 296.0 199.6 17 345.7 233.2 77 395.5 266.7 37 445.3 300.2	97	494. 9	333.3 333.8
58   296.8   200.2   18   346.5   233.7   78   396.3   267.3   38   446.1   300.8	98	495.8	334.4
59 297.6 200.7 19 347.4 234.3 79 397.1 267.9 39 446.9 301.4	99	496.6	334. 9
60 298.5 201.3 20 348.2 234.9 80 397.9 268.4 40 447.7 302.0	600	497. 4	335.5
30 200.0 201.0 20 010.2 201.0 00 001.0 200.1 10 111.1 002.0	. 000	101.4	3337, 3
Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.		Dep.	Lat.
Proces Dept. Dept. Dept. Dept. Dept. Dept. Dept. Dept. Dept.	Die	Dep.	14/16.
56° (124°, 236°, 304°).	Dist.		

TABLE 2.

Difference of Latitude and Departure for 35° (145°, 215°, 325°).

1														
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.8	0, 6	61	50.0	35. 0	121	99. 1	69, 4	181	148.3	103.8	241	197. 4	135. 2
2	1.6	1.1	62	50.8	35.6	22	99.9	70.0	82	149.1	104.4	42	198.2	138.8
3	2, 5	1.7	63	51.6	36.1	23	100.8	70.5	83	149.9	105.0	43	199. 1	139.4
4	3. 3	2.3	64	52.4	36. 7	24	101.6	71.1	84	150.7	105, 5	44	199.9	140.0
5	4.1	2.9	- 65	53. 2	37.3	25	102.4	71.7	85	151.5	106.1	45	200.7	140.5
6	4.9	3.4	- 66	54.1	37.9	26	103.2	72.3	86	152. 4	106.7	46	201.5	141.1
7	5.7	4.0	67	54.9	38, 4	27	104.0	72.8	87	153, 2	107.3	47	202.3	141.7
8	6, 6	4, 6	68	55. 7	39, 0	28	104.9	73.4	88	154.0	107.8	48	203.1	142.2
9	7.4	5, 2 5, 7	-69	56, 5	39, 6	29	105.7	74.0	89	154.8	108.4	49	204.0	142.8
10	8.2		70	_57.3	40.2	30	106, 5	-74.6	90	155.6	109.0	50	204.8	143.4
11	9, 0	6, 3	71	58.2	40.7	131	107.3	75.1	191	156.5	109.6	251	205. в	144.0
12	9, 8	6, 9	72 73	59.0	41.3	32	108, 1	75. 7	92	157. 3	110.1	52	206. 4	144.5
13	10.6	7.5	73	59.8	41.9	33	108.9	76.3	- 93	158.1	110, 7	53	207. 2	145, 1
14	11.5	8.0	74	60, 6	42.4	34	109.8	76, 9	94	158. 9	111.3	54	208.1	145.7
15	12.3	8, 6	75	61.4	43.0	35	110.6	77.4	95	159. 7	111.8	55	208. 9	146.3
16	13. 1	9.2	76 77	62.3	43. 6	36	111.4	78.0	96	160.6	112. 4 113. 0	56	209, 7 210, 5	146, 8 147, 4
17	13. 9	9.8		63.1	44. 2 44. 7	37	112.2	78, 6	97 98	161.4		57 58		148.0
18	14. 7	10.3	78	63.9	45.3	38 39	113.0	79. 2 79. 7	99	162. 2	113.6 114.1	59	211.3 212.2	148.6
19 20	15.6	10.9 11.5	79 80	$64.7 \pm 65.5 \pm$	45. 9	40	113. 9 114. 7	80.3	200	163. 0 163. 8	114. 7	60	213. 0	149, I
	16.4									164. 6	115. 3		213. 8	149.7
21 22	17. 2 18. 0	12.0	81 82	66. 4 67. 2	46. 5 47. 0	141 42	115.5	80.9	201 02	165, 5	115. 9	$\frac{261}{62}$	213. 8	150. 3
23	18. 8	12. 6 13. 2	83	68.0	47.6	43	116. 3 117. 1	81.4 82.0	03	166. 3	116. 4	63	214. 6	150. 9
24	19. 7	13.8	84	68. S	48. 2	44	118. 0	82.6	04	167. 1	117. 0	64	216. 3	151.4
25	20. 5	14.3	85	69, 6	48. 8	45	118.8	83. 2	05	167. 9	117.6	65	217.1	152.0
26	21.3	14. 9	86	70, 4	49.3	46	119.6	83. 7	06	168.7	118. 2	66	217. 9	152.6
27	22. 1	15.5	87	71.3	49. 9	47	120, 4	84.3	07	169.6	118.7	67	218.7	153. 1
28	22. 9	16. 1	88	72. 1	50.5	48	121. 2	84. 9	08	170.4	119.3	68	219.5	153.7
29	23. 8	16.6	89	72. 9	51.0	49	122, I	85, 5	-09	171. 2	119.9	69	220.4	154.3
30	24.6	17. 2	90	73.7	51.6	50	122.9	86.0	10	172.0	120.5	70	221.2	154.9
31	25. 4	17.8	91	74.5	52. 2	151	123. 7	86.6	211	172.8	121.0	271	222.0	155, 4
32	26. 2	18. 4	92	75. 4	52.8	52	124.5	87.2	12	173.7	121.6	72 73	222.8	156, 0
33	27.0	18. 9	93	76.2	53.3	53	125.3	87.8	13	174.5	122. 2 122. 7	73	223.6	-156, 6
34	27.9	19.5	94	77.0	53.9	54	126. 1	88.3	14	175.3	122. 7	74	224.4	157. 2 157. 7
35	28.7	20.1	95	77.8	54.5	- 55	127.0	88.9	15	176. 1	123.3	75	225.3	157.7
36	29.5	20, 6	96	78.6	55. 1	- 56	127.8	89.5	16	176. 9	123.9	76	226.1	158.3
37	30.3	21.2	97	79. 5	55.6	57	128.6	90.1	17	177.8	124.5	77 78	226. 9	158, 9
38	31.1	21.8	98	80. 3	56. 2	58	129. 4	90.6	18	178.6	125. 0	48	227.7 $228.5$	159.5
39	31, 9	22.4	99	81.1	56.8	59	130. 2	91.2	19	179.4	125. 6	79 80	228.5	160.0
40	32. 8	22. 9	100	81.9	57.4	60	131. 1	91.8	20	180. 2	126. 2			160, 6
41	33. 6	23.5	101	82. 7	57.9	161	131.9	92.3	221 22	181. 0	126. 8	281	230, 2	161. 2
42	34. 4	24. 1	02	83.6	58.5	62	132.7	92. 9	23	181. 9 182. 7	127.3 $127.9$	82 83	231. 0 231. 8	162. 3
43	35. 2 36. 0	24. 7 25. 2	03 04	84. 4 85. 2	59. 1 59. 7	63	133, 5 134, 3	93. 5 94. 1	23	183. 5	128.5	84	232. 6	162. 9
44 45	36. 9	25. 8	05	86. 0	60. 2	65	135, 2	94. 6	25	184.3	129, 1	85	233. 5	163.5
46	37. 7	26. 4	06	86. 8	60.8	66	136. 0	95. 2	26	185. 1	129. 6	86	234. 3	164, 0
47	38. 5	27. 0	07	87.6	61. 4	67	136. 8	95, 8	27	185. 9	130, 2	87	235. 1	164.6
48	39. 3	27.5	08	88.5	61. 9	68	137. 6	96.4	28	186. 8	130. 8	88	235, 9	165, 2
49	40. 1	28. 1	09	89.3	62.5	69	138. 4	96. 9	29	187.6	131. 3	89	236. 7	165, 8
50	41. 0	28. 7	10	90.1	63. 1	70	139. 3	97.5	30	188. 4	131.9	90	237.6	166.3
51	41.8	29. 3	111	90, 9	63. 7	171	140.1	98, 1	231	189. 2	132.5	291	238. 4	166. 9
52	42.6	29, 8	12	91. 7	64. 2	72	140. 9	98.7	32	190.0	133. 1	92	239, 2	167.5
53	43. 4	30, 4	13	92. 6	64.8	73	141.7	99. 2	33	190. 9	133, 6	-93	240.0	168.1
54	44.2	31.0	14	93.4	65, 4	74	142.5	99.8	34	191.7	134. 2	94	240.8	168. 6
-55	45.1	31.5	15	94. 2	66, 0	75	143. 4	100.4	35	192.5	134.8	95	241.6	169, 2
56	45.9	32. 1	16	95.0	66.5	76	144. 2	100.9	36	193. 3	135. 4	-96	242.5	169.8
57	46.7	32.7	17	95, 8	67. 1	77	145.0	101.5	37	194.1	135. 9	97	243.3	170.4
58	47.5	33.3	18	96.7	67.7	78	145. 8	102. 1	38	195.0	136.5	98	244.1	170.9
59	48.3	33, 8	19	97.5	68, 3	79	146. 6	102. 7	39	195.8	137. 1	99	244.9	171.5
60	49.1	34, 4	20	98.3	68.8	80	147. 4	103. 2	40	196. 6	137.7	300	245.7	172. 1
-						-					-		7	
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

55° (125°, 235°, 305°).

Difference of Latitude and Departure for 35° (145°, 215°, 325°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
<b>5</b> 01	246.6	172. 6	361	295.7	207.0	421	344.9	241.5	481	394. 0	275, 9	541	443, 2	310.3
02	247.4	173. 2	62	296.5	207. 6	22 23	345.7	242.0	82	394.8	276.4	42	444.0	310.9
-03	248.2	173.8	63	297.4	208. 2	23	346.5	242.6	83	395.7	277.0	43	444.8	311.4
04	249.0	174.3	64	298.2	208.8	24	347.3	243.2	84	396.5	277.6	44	445.6	312.0
05	249, 9	174.9	65	299.0	209.3	25	348.1	243. S	85	397.3	278.2	45	446.4	312.6
06	250. 7	175. 5	66	299, 8	209. 9	26	349, 0	244.3	86	398.1	278.7	46	447.3	313. 2
07	251.5	176. 1	67	300.6	210.5	27	349, 8	244.9	87	398, 9	279.3	47	448.1	313, 7
08	252.3	176.6	68	301.5	211.1	28	350.6	245.5	88	399.8	279.9	48	448.9	314.3
- 09	253, 1	177.2	69	302.3	211.6	29	351, 4	246, 0	89	400, 6	280.5	49	449.7	314.9
10	253. 9	177. S	70	303.1	212, 2	30	352. 2	246.6	90	401.4	281.0	50	450.5	315.4
311	254.8	178.4	371	303.9	212.8	431	353.1	247. 2 247. 8	491	402.2	281.6	551	451.4	316.0
12	255.6	178.9	72	304.7	213.4	32	353.9	247.8	92	403.0	282, 2	52	452. 2	316.6
13	256. 4	179.5	73	305.6	213.9	33	354.7	248.3	-93	403.9	282, 8	53	453.0	317 2
14	257.2	180.1	74	306.4	214.5	34	355.5	248, 9	94	404.7	283.3	54	453.8	317.7
15	258.0	180.7	75	307.2	215.1	35	356.3	249.5	95	405.5	283.9	55	454, 6	318.3
16	258.9	181.2	76	308.0	215.6	36	357. 2	250.1	96	406.3	284.5	56	455.5	318, 9
17	259.7	181.8	77	308.8	216, 2	37	358, 0	250, 6	97	407.1	285.1	57	456.3	319.5
18	260.5	182.4	78	309.6	216.8	38	358.8	251.2	- 98	408.0	285.6	58	457.1	320.0
19	261.3	183.0	79	310.5	217.4	39	359.6	251.8	99	408.8	286. 2	59	457.9	320.6
20	262.1	183.5	80	311.3	217.9	40	360.4	252, 4	500	409.6	286.8	60	458.7	321.2
321	263.0	184.1	381	312.1	218.5	441	361.3	252.9	501	410.4	287.4	561	459, 6	321.8
22	263. 8	184.7	82	312.9	219.1	42	362.1	253, 5	02	411.2	287.9	62	460.4	322.3
23	264.6	185.2	83	313.7	219.7	43	362.9	254.1	03	412.1	288.5	63	461. 2	322.9
24	265.4	185. S	84	314.6	220.2	44	363.7	254. 7	04	412.9	289.1	64	462.0	323.5
25	266.2	186.4	85	315.4	220.8	45	364.5	255. 2	05	413, 7	289.7	65	462.8	324.1
26	267.1	187.0	86	316.2	221.4	46	365.4	255.8	06	414.5	290.2	-66	463, 7	324.6
27	267.9	187.5	87	317.0	222.0	47	366.2	256.4	07	415.3	290.8	67	464.5	325. 2 325. 8
28	268.7	188.1	88	317.8	222.5	48	367.0	256.9	08	416.1	291.4	68	465, 3	325.8
29	269.5	188.7	89	318.7	223.1	49	367.8	257.5	09	417.0	291.9	69	466.1	326.4
30	270.3	189.3	90	319.5	223.7	_50	368.6	258.1	_10	417.8	292.5	70	466.9	326, 9
331	271.1	189.8	391	320.3	224.3	451	369.4	258.7	511	418.6	293.1	571	467.8	327.5
32	272.0	190.4	92	321.1	224.8	52	370.3	259. 2	12	419.4	293.7	72	468.6	328, 1
33	272.8	191.0	93	321.9	225.4	53	371.1	259.8	13	420.2	294.2	73	469.4	328.7
34	273.6	191.6	94	322.8	226.0	54	371.9	260.4	14	421.1	294.8	74	470.2	329, 2
35	274.4	192.1	95	323.6	226.5	55	372. 7 373. 5	261.0	15	421.9	295.4	75	471.0	329.8
36	275.2	192.7	96	324.4	227. 1	56	373.5	261.5	16	422.7	296.0	76	471.9	330.4
37	276.1	193.3	97	325.2	227.7	57	374.4	262.1	17	423.5	296.5	77	472.7	331.0
38	276.9	193.9	98	326.0	228.3	58	375.2	262. 7	18	424.3	297. 1	78	473.5	331.5
39	277.7	194.4	99	326. 9	228.8	59	376.0	263.3	19	425. 2	297.7	79	474.3	332. 1
40	278.5	195.0	400	327.7	229, 4	60	376.8	263.8	20	426.0	298.3	80	475.1	332. 7
341	279.3	195, 6	401	328.5	230.0	461	377.6	264. 4	521	426.8	298.8	581	476.0	333.3
42	280. 2	196.1	02	329.3	230.6	62	378.5	265.0	22	427.6	299.4	82	476.8	333.8
43	281. 0	196.7	03	330.1	231. 1	63	379.3	265.5	23	428.4	300.0	83	477.6	334.4
44	281.8	197.3	04	330. 9	231. 7	64	380.1	266. 1	24	429.3	300.5	84	478.4	335.0
45	282.6	197.9	05	331.8	232. 3	65	380. 9	266. 7	25	430.1	301.1	85	479.2	335.6
46	283. 4	198.4	06	332. 6 333. 4	232. 9 233. 4	66	381. 7 382. 6	267. 3 267. 8	$\frac{26}{27}$	430.9	301. 7	86	480.1	336.1
47	284. 3 285. 1	199.0 $199.6$	07	334. 2	234. 0	67 68	383.4	268. 4	28	431.7 432.5	302.3 302.8	87 88	480.9 481.7	336.7 337.3
48 49	285. 1	200.2	09	335.0	234. 6	69	384, 2	269.4	29	433, 4	303.4	89	482.5	337.9
50	286. 7	200. 2	10	335.9	235. 1	70	385.0	269.6	30	434.2	304. 0	90	483.3	338.4
351	287.5	201.3	411	336. 7	235. 7	471	385. 8	270.1	531	435, 0	304. 5	591	484. 2	339. 0
52	288.3	201. 3	12	337, 5	236. 3	72	386.6	270. 7	32	435.8	304. 5	92	484. 2	339. 6
53	289. 2	202.5	13	338.3	236. 9	73	387.5	271.3	33	436.6	305. 7	93	485.8	340.2
54	290. 0	203. 0	14	339.1	237. 4	74	388.3	271. 9	34	437.5	306.3	94	486.6	340. 7
55	290. 8	203.6	15	340.0	238. 0	75	389.1	272.4	35	438.3	306. S	95	487.4	341.3
56	291.6	204. 2	16	340.8	238.6	76	389. 9	273.0	36	439 1	307. 4	96	488.3	341. 9
57	292. 4	204. 7	17	341.6	239. 2	77	390. 7	273.6	37	439. 9	308, 0	97	489.1	342.5
58	293. 3	205. 3	18	342.4	239. 7	78	391.6	274. 2	38	410.7	308.6	98	489.9	343.0
59	294.1	205. 9	19	343. 2	240, 3	79	392.4	274.7	39	441.5	309. 1	99	490.7	343.6
60	294. 9	206.5	20	344.1	240.9	80	393. 2	275. 3	40	442.3	309. 7	600	491.5	344.1
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Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
<del> </del>					·						<u> </u>			

55° (125°, 235°, 305°).

Page 602]

### TABLE 2.

Difference of Latitude and Departure for 36° (144°, 216°, 324°).

		-												
Dist.	Lat.	Dep.	Dist.	Lut.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
,	0 1	0.0		10. 1	35, 9	101	07.0	-, ,	101	1.10. 1	100 (	0.11	105.0	141.7
1	0.3	0, 6	61 62	49.4 $50.2$	36. 4	121 22	97. 9 98. 7	71.1	181 82	146. 4 147. 2	106, 4	241 42	195, 0 195, 8	142. 2
3	1. 6 2. 4	$\frac{1.2}{1.8}$	63	51. 0	37.0	23	99, 5	72.3	83	148.1	107. 0	43	196, 6	142. 8
4	3, 2	2.4	64	51. 8	37.6	24	100.3	-2 O	84	148. 9	108. 2	44	197. 4	143.4
5	4. 0	2.9	65	52.6	38, 2	25	101. 1	72.9 73.5	85	149.7	108.7	45	198. 2	144.0
	4, 9	3.5	66	53.4	38. 8	26	101. 1	74.1	86	150.5	109.3	46	199. 0	144.6
6 7	5.7	4.1	67	54. 2	39.4	20	102.7	74.6	87	151.3	109. 9	47	199, 8	145.2
	6, 5	4.7	68	55. 0	40.0	28	103. 6	75. 2	88	152.1	110.5	48	200.6	145. S
8 9	7. 3	5. 3	69	55, 8	40.6	29	104. 4	75.8	89	152.9	111, 1	49	201. 4	146, 4
10	5.1	5, 9	70	56, 6	41.1	30	105, 2	76.4	90	153.7	111.7	50	202.3	146. 9
	-8.5		77	57.4	41.7	131	106.0	77.0	191	154.5	112.3	251	203. 1	147.5
11		6, 5	11	58. 2	42.3	32	106, 8	0	92	155.3	112.9	52	203. 1	148.1
12 13 ±		7.6	72 73	59. 1	42.9	33	105, 5	77. 6 78. 2	93	156, 1	113. 4	53	204. 7	148.7
14	10.5 $11.3$	0.0	74	59, 9	43.5	34	108.4	78.8	94	156, 9	114.0	54	205, 5	149.3
15	12.1	8. 2 8. 8	75	60, 7	44.1	35	109. 2	79.4	95	157.8	114.6	55	206.3	149. 9
16	12.9	9.4	78	61.5	41.7	36	110, 0	79.9	96	158.6	115. 2	56	207.1	150.5
17	13. S	10.0	76 77	62.3	45, 3	37	110.8	80.5	97	159. 4	115. 8	57	207. 9	151.1
18	14.6	10.6	78	63.1	45.8	38	111.6	81. 1	98	160. 2	116.4	58	208. 7	151.6
19	15.4	11.2	79	63. 9	46, 4	39	112.5	81.7	99	161. 0	117. 0	59	209.5	152. 2
20	16. 2	11.8	80	64. 7	47. 0	40	113.3	82.3	200	161. S	117.6	60	210.3	152. 8
21	17. 0	12.3	81	65, 5	47.6	141	114.1	82.9	201	162.6	118.1	$\frac{-00}{261}$	211.2	153. 4
99	17. 8	$12.5 \\ 12.9$	82	66.3	48, 2	42	114. 9	83.5	02	163.4	118.7	62	212.0	154.0
23	18.6	13.5	83	67.1	48.8	43	115.7	84.1	03	164. 2	119.3	63	212.8	154.6
24	19. 4	14. 1	84	68. 0	49.4	14	116.5	84.6	04	165. 0	119.9	64	213. 6	155. 2
25	20. 2	14.7	85	68. 8	50.0	45	117.3	85, 2	05	165. 8	120.5	65	214.4	155, 8
26	21. 0	15.3	86	69, 6	50, 5	46	118.1	85.8	06	166.7	121. 1	66	215. 2	156. 4
27	21.8	15. 9	87	70.4	51.1	47	118.9	86, 4	07	167.5	121. 7	67	216. 0	156, 9
28	22. 7	16.5	88	71. 2	51.7	48	119.7	87. 0	08	168.3	122.3	68	216. 8	157.5
29	23. 5	17. 0	89	72.0	52.3	19	120.5	87.6	09	169.1	122.8	69	217.6	158. 1
30	24.3	17.6	90	72.8	52.9	50	121, 4	88.2	10	169.9	123, 4	70	218.4	158.7
31	25. 1	18, 2	91	75.6	53.5	151	122.2	88. 8	211	170.7	124.0	271	219, 2	159.3
32	25. 9	18.8	92	74. 4	54.1	52	123. 0	89.3	12	171.5	124.6	72	220, 1	159.9
33	26. 7	19.4	93	75. 2	54. 7	53	123. 8	89.9	13	172.3	125, 2	73	220. 9	160.5
34	27.5	20, 0	94	76.0	55, 3	54	124.6	90.5	14	172.3 173.1	125.8	74 75	221.7	161.1
35	28. 3	20, 6	95	76.9	55, 8	55	125. 4	91.1	15	173.9	126, 4	75	222.5	161.6
36	29, 1	21. 2	96	77.7	56, 4	-56	126, 2	91.7	16	174.7	127.0	76	223.3	162. 2
37	29, 9	21.7	97	78.5	57.0	57	127.0	92.3	17	175.6	127.5	77	224.1	162.8
38	30.7	22, 3	98	79.3	57. 6	58	. 127, 8	92.9	18	176.4	128. 1	78	224. 9	163.4
39	31.6	22. 9	99	80.1	58, 2	59	128.6	93.5	19	177. 2	128.7	79	225, 7	164.0
40	32. 4	23. 5	100	80.9	58, 8	60	129. 4	94.0	20	178.0	129.3	80	226, 5	164, 6
41	33. 2	24.1	101	81.7	59.4	161	130.3	94.6	221	178.8	129.9	281	227. 3	165. 2
42	34.0	24.7	02	82, 5	60.0	62	131.1	95, 2	22	179.6	130.5	82	228.1	165.8
43	34.8	25.3	03	83, 3	60, 5	-63	131.9	95. 8	23	180.4	131.1	-83	229. 0	166.3
4-4	35, 6	+25.9	04	84.1	61.1	64	132.7	96.4	24	181 2	131.7	84	229, 8	166, 9
45	36.4	26.5 27.0	05	84. 9	61.7	65	133, 5	97.0	25	182.0	132, 3	85	230.6	167.5
46		27.0	06	85, 8	62.3	66	134. 3	97.6	26	182.8	132.8	86	231.4	168.1
47	38.0	27.6	07	86, 6	62. 9	67	135. 1	98. 2 98. 7	27	183.6	133.4	87	232. 2	168.7
48	38, 8	28.2	08	87. 4	63, 5	68	135. 9	98.7	28	184.5	134. 0	88	233. 0	169. 3
49	39. 6	28.8	09	88.2	64. 1	69	136, 7	99.3	29	185.3	134.6	89	233. 8 234. 6	169.9
50	40.5	29.4	10	89.0	64.7	_70_	137.5	99, 9	30	186.1	135. 2	90		170.5
51	41.3	30.0	111	89, 8	65, 2	171	138. 3	100, 5	231	186. 9	135. 8	291	235. 4	171.0 171.6
52	42.1	30. 6	12	90.6	65, 8	72	139, 2	101.1	32	187.7	136. 4	92	236. 2	172. 2
53	42.9	31. 2 31. 7	13	91.4	66. 4	73	140.0	101.7	33	188.5	137. 0	93	237. 0 237. 9	172. 2
54	43. 7		14	92. 2	67. 0	74	140.8	102.3	34 35	189.3 190.1	137, 5 138, 1	94 95	237. 9	173. 4
55	44.5	32.3	15 16	93. 0	67.6	75	141.6	102. 9	36	190. 1	138. 7	96	239, 5	174.0
56 57	45, 3 46, 1	32.9	16	93. 8 94. 7	68, 2 68, 8	76 77	142. 4 143. 2	103, 5 104, 0	37	190. 9	139, 3	97	240, 3	174.6
58	46, 9	33, 5 34, 1	18	95, 5	69, 4	78	144.0	104. 6	38	192.5	139. 9	98	241.1	175.9
59	47. 7	34. 7	19	96, 3	69, 9	79	144.8	105. 2	39	193. 4	140.5	99	241. 9	175. 2 175. 7
60	48.5	35, 3	20	97. 1	70, 5	80	145, 6	105, 8	40	194. 2	141.1	300	242.7	176.3
''''	40.0	(117, (3	-"		100.07		1	21, 11		1	1			
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Inkt.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
17750		1+11	14.0	170.70	Lett.	1	3 1		L		1	1		,

542 (1262, 2312, 3069).

Difference of Latitude and Departure for 36° (144°, 216°, 324°).

									,					
Dist.	Let.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
001	0.19. 5	170.0	201	292. 1	979 9	101	910 6	947.5	481	900 T	282.7	541	107.7	318.0
301	243, 5	176.9	361		212. 2	421	340.6	247.5		389.1			437.7	
02	244.3	177.5	62	292.9	212.8	22 23	341,4	248.1	82	390.0	283. 3	42	438.5	318.6
03	245, 1	178.1	63	293.7	213.4	23	342.2	248.6	83	390.8	283. 9	43	439.3	319.1
04	246.0	178.7	64	294.5	214.0	24	343.0	249.2	84	391.6	284.5	44	440.2	319.7
05	246.8	179.3	65	295.3	214.6	25	343, 8	249.8	85	392.4	285.1	45	441.0	320.3
06	247.6	179.9	66	296.1	215. 1	26	344.7	250.4	86	393. 2	285.6	46	441.8	320. 9
07	248, 4	180.5	67	296.9	215. 7	27	345.5	251.0	87	394.0	286. 2	47	442, 6	321.5
- 08	249. 2 250. 0	181.1	68	297.7	216.3	28 29	346.3	251.6 252.2	88	394.8	286, 8	48	443, 4	322.1
09	200.0	181.6	69	298.5	216.9		347.1		89 90	395.6	287.4	49 50	444.2	322.7
10	250.8	182. 2	70	299, 3	217.5	30	347.9	252.8		396.4	288, 0		445.0	323.3
311	251.6	182.8	371	300.2	218.1	431	348.7	253.3	491	397.3	288, 6	551	445.8	323.8
12	252.4	183.4	72	301.0	218.7	32	349.5	253. 9	92	398.1	289. 2	52	446.6	324.4
13	253. 2	184.0	73	301.8	219.3	33	350.3	254.5	93	398. 9	289.8	53	447.4	325.0
14	254.0	184.6	74	302, 6	219.8	34	351.1	255. 1	94	399.7	290.3	54	448.2	325.6
15	254.9	185. 2	75	303.4	220.4	35	351.9	255. 7	95	400.5	290.9 291.5	55	449.0	326. 2
16	255.7	185.8	76	304.2	221.0	36	352.7	256. 3	96	401.3	291. 5	56 57	449.8	326.8
17 18	256, 5 257, 3	186.4	77	305. 0 305. 8	221.6 $222.2$	37 38	353. 6 354. 4	256.9 257.5	97 98	402. 1 402. 9	292. 7	58	450.7 451.5	327. 4 328. 0
19		186.9	78 79		222.8	39		258. 0	99		293. 3	59	452.3	328.5
20	258. 1 258. 9	187.5 188.1	80	306.6 307.4	223.4	40	355. 2 356. 0	258.6	500	403.7	293. 9	60	453.1	329.1
321	259. 7			308.2				259, 2	501	405.3	294.5	561	453. 9	329. 7
321 22	260.5	188.7 189.3	381 82	308.2	224.0 224.5	441 42	356. 8 357. 6	259, 2	02	406. 1	294. 5	62	454.7	330.3
23	261.3	189. 9	83	309. 9	225.1	43	358.4	260.4	03	407.0	295.6	63	455, 5	330.9
24	262.1	190.5	84	310.7	225.7	44	359. 2	261.0	04	407.8	296. 2	64	456.3	331.5
25	262.9	191.0	85	311.5	226.3	45	360. 0	261.6	05	408.6	296. 8	65	457.1	332.1
26	263. 7	191.6	86	312. 3	226. 9	46	360.8	262. 2	06	409.4	297.4	66	457.9	332.7
26 27	264.6	192. 2	87	313. 1	227.5	47	361.6	262.8	07	410. 2	298.0	67	458.7	333.3
28	265. 4	192.8	88	313. 9	228, 1	48	362.4	263. 3	08	411.0	298.6	68	459.5	333. 8
29	266. 2	193.4	89	314.7	228.7	49	363.3	263. 9	09	411.8	299.2	69	460.3	334.4
30	267.0	194.0	90	315.5	229. 2	50	364.1	264.5	10	412.6	299.8	70	461.1	335.0
331	267.8	194.6	391	316.3	229.8	451	364.9	265.1	511	413.4	300.3	571	462.0	335.6
32	268.6	195.2	92	317.1	230.4	52	365.7	265.7	12	414.2	300.9	72	462.8	336. 2
33	269.4	195.7	93	318.0	231.0	53	366.5	266.3	13	415.1	301.5	73	463.6	336.8
34	270.2	196.3	94	318.8	231.6	54	367.3	266.9	14	415.9	302.1	74	464.4	337.4
35	$271.0 \\ 271.8$	196.9	95	319.6	232. 2	55	368.1	267.5	15	416.7	302. 7	75	465. 2	338.0
36	271.8	197.5	96	320. 4	232.8	56	368. 9	268.0	16	417.5	303.3	76	466.0	338.5
37	272.6	198.1	97	321. 2	233. 4	57	369.7	268.6	17	418.3	303.9	77	466.8	339. 1
38	273.5 274.3	198.7	98	$322.0 \\ 322.8$	233.9	58	$370.5 \\ 371.3$	269, 2 269, 8	18	419.1	304.4	78	467.6	339.7
40	274.3	199.3 199.9	99 400	323. 6	234.5 235.1	59 60	372.2	270.4	$\frac{19}{20}$	419.9 420.7	305. 0 305. 6	79 80	468. 4 469. 3	340.3
														340.9
341	275. 9	200.4	401	324. 4 325. 2	235. 7	461	373.0	271.0	521 22	421.5	306. 2	581	470.1	341.5
42 43	276. 7 277. 5	201. 0 201. 6	02	325. 2	236. 3 236. 9	62 63	$373.8 \\ 374.6$	271. 6 272. 2	22	422.3 423.1	306.8 307.4	82 83	470.9 471.7	342. 1 342. 7
41	278.3	201.6	03	326.0	237.5	64	375.4	272. 7	$\frac{25}{24}$	423.1	308.0	84	472.5	343. 2
45	279.1	202. 2	05	327.7	238.1	65	376. 2	273.3	25	424.7	308.6	85	473.3	343.8
46	279.9	203. 4	06	328.5	238. 7	66	377.0	273. 9	$\frac{25}{26}$	425.5	309. 2	86	474.1	344.4
47	280.7	204.0	07	329.3	239. 2	67	377.8	274.5	27	426.4	309.7	87	474.9	345.0
48	281.5	204.6	08	330.1	239. 8	68	378.6	275. 1	28	427.2	310. 3	88	475.7	345.6
49	282.4	205.1	09	330. 9	240.4	69	379.4	275. 7	29	428.0	310. 9	89	476.5	346.2
50	283. 2	205. 7	10	331.7	241.0	70	380. 2	276.3	30	428.8	311.5	90	477.3	346.8
351	284.0	206.3	411	332.5	241, 6	471	381.1	276. 9	531	429.6	312. I	591	478.2	347. 4
52	284.8	206.9	12	333.3	242.2	72	381. 9	277. 4	32	430. 4	312.7	92	479.0	347.9
53	285, 6	207.5	13	334.1	242.8	73	382.7	278.0	33	431.2	313. 3	93	479.8	348.5
54	286.4	208.1	14	334.9	243.4	74	383.5	278.6	34	432.0	313.9	94	480.6	349.1
55	287. 2	208.7	15	335.8	243.9	75	384.3	279.2	35	432.9	314.4	95	481.4	349.7
56	288.0	209, 3	16	336.6	244.5	76	385.1	279.8	36	433, 7	315.0	96	482.2	350.3
57	288.8	209.8	17	337.4	245.1	77	385.9	280.4	37	434.5	315.6	97	483.0	350.9
58	289.6	210.4	18	338. 2	245.7	78	386.7	281.0	38	435.3	316.2	98	483.8	351.5
59	290.4	211.0	19	339.0	246.3	79	387.5	281.6	39	436.1	316.8	99	484.6	352. 1
60	291.3	211.6	20	339.8	246. 9	80	388.3	282. 1	40	436.9	317.4	600	485.4	352.7
									_					<u> </u>
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						F 40 /1	000 00	0 0000						

54° (126°, 234°, 306°).

Page 604]

TABLE 2.

Difference of Latitude and Departure for 37° (143°, 217°, 323°).

									( )		, 020	,.			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
1	0, 8	0.6	61	48.7	36. 7	121	96.6	72.8	181	144.6	108.9	241	192, 5	145, 0	
2	1.6	1. 2	62	49.5	37.3	22	97.4	73.4	82	145, 4	109.5	42	193.3	145. 6	
2 3	2.4	1.2	63	50.3	37.9	23	98, 2	74.0	83	146. 2	110.1	43	194.1	146. 2	
4	3. 2	2.4	64	51.1	38.5	24	99.0	74.6	81	146. 9	110.7	44	194.9	146.8	
5	4.0	2.4	65	51.9	39. 1	25	99.8	75. 2	85	147.7	111.3	45	195.7	147.4	
- 6	4.8	3.6	- 66	52.7	39.7	26	100.6	75.8	- 86	148.5	111.9	46	196.5	148.0	
7	5. 6	4.2	67	53.5	40.3	27	101.4	76.4	87	149.3	112.5	47	197.3	148.6	
- 8	6.4	4.8	68	51.3	40.9	28	102. 2 103. 0	77. 6 77. 6	88	150.1	113.1	48	198.1	149.3	
9	7. 2	5.4	69	55.1	41.5	29	103.0	77.6	89	150.9	113.7	49	198.9	149.9	
10	8.0	6, 0	70	55, 9	42.1	_ 30_	103.8	78.2	90	[151.7]	114.3	50	199. 7	150.5	
11	8.8	6.6	71 72 73	56. 7	42.7	131	104.6	78.8	191	152.5	114.9	251	200, 5	151.1	
12	9.6	7. 2 7. 8	72	57. 5 58. 3	43, 3	32	105.4	79.4	92	153.3	115.5	52	201.3	151.7	
13	10.4	7.8	73	58.3	43.9	33	106.2	80.0	93	154.1	116.2	53	202.1	152.3	
14	11.2	8.4	74	59. 1	44.5	34	107.0	80.6	94	154.9	116.8	54	202.9	152.9	
15	12. 0 12. 8	9.0	75 50	59.9	45. 1	35	107.8	81.2	95	155.7	117.4	55	203. 7	153.5	
16 17	13.6	9. 6 10. 2	76 77 78	60.7 $61.5$	45. 7 46. 3	36 37	108.6 $109.4$	81.8 82.4	96 97	156.5	118,0  $ 118,6 $	56 57	204. 5 205. 2	154. 1 154. 7	
18	14.4	10. 2	-0	62. 3	46. 9	38	110.2	83.1	98	157, 3 158, 1	119.2	58	206. 0	155.3	
19	15. 2	11.4	79	63. 1	47.5	39	111, 0	83.7	99	158. 9	119.8	59	206. 8	155, 9	
20	16. 0	12.0	80	63. 9	48.1	40	111.8	84.3	200	159.7	120, 4	60	207. 6	156.5	
	16. 8	12.6	81	$-\frac{69.7}{64.7}$	48.7	141	112.6	84. 9	201	160.5	121. 0	261	208. 4	157.1	
21 22	17.6	13. 2	82	65, 5	49.3	42	113.4	85.5	02	161.3	121.6	62	209. 2	157. 7	
23	18. 4	13. 8	83	66. 3	50.0	43	114. 2	86.1	03	162.1	122. 2	63	210.0	158. 3	
24	19. 2	14.4	84	67. 1	50, 6	44	115.0	56.7	04	162. 9	122.8	64	210. 8	158, 9	
25	20.0	15, 0	85	67.9	51.2	45	115.8	87 3	05	163. 7	123.4	65	211, 6	159.5	
26	20, 8	15.6	86	68.7	51.2 51.8	46	116.6	87.9	06	164.5	124.0	66	212, 4	160.1	
27	21.6	16. 2	87	69. 5	52.4	47	117.4	88.5	07	165.3	124, 6	67	213.2	160.7	
28	22.4	16.9	- 88	70.3	53. 0	48	118.2	89.1	-08	166, 1	125, 2	68	214.0	161.3	
29	23.2	17.5	89	71.1	53.6	49	119.0	89.7	-09	166. 9	125. 8	69	214.8	161.9	
30	24.0	18.1	90	$_{-71.9}$	54, 2	50	119, 8	90.3	10	167. 7	126, 4	70	215, 6	162.5	
	24.8	18.7	91		54.8	151	120.6		211	168.5		271	216, 4		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															
32   25.6   19.3   92   73.5   55.4   52   121.4   91.5   12   169.3   127.6   72   217.2   163.7   33   26.4   19.9   93   74.3   56.0   53   122.2   92.1   13   170.1   128.2   73   218.0   164.3															
$33 \mid 26.4 \mid 19.9 \mid 93 \mid 74.3 \mid 56.0 \mid 53 \mid 122.2 \mid 92.1 \mid 13 \mid 170.1 \mid 128.2 \mid 73 \mid 218.0 \mid 164.3 \mid$															
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
36 37	28.8	21.7	96	76. 7	80.1	56	124.6	93. 9 94. 5	16	172.5 173.3	130. 0 130. 6	76 77	220. 4 221. 2	166. 1 166. 7	
38	29.5 30.3	22.3 22.9	97 98	77.5 78.3	58. 4 59. 0	57 58	125, 4 126, 2	95.1	17 18	174.1	131. 2	78	222.0	167. 3	
39	31.1	23.5	99	79.1	59.6	59 59	120.2	95. 7	19	174.1	131. 8	79	222.8	167. 9	
40	31. 9	24. 1	100	79.9	60. 2	60	127.0 $127.8$	96.3	20	174. 9 175. 7	132. 4	80	223.6	168, 5	
41	32.7	24.7	101	80.7	60. 8	161	128.6	96. 9	221	176.5	133. 0	281	224. 4	169. 1	
42	33, 5	25. 3	02	81.5	61.4	62	129. 4	97.5	22	177.3	133 6	82	225. 2	169.7	
43	34. 3	25. 9	03	82. 3	62. 0	63	130. 2	98.1	23	178.1	134, 2	83	226.0	170.3	
44	35. 1	26.5	04	83.1	62.6	64	131.0	98.7	24	178.9	134. 8	84	226. 8	170.9	
45	35. 9	27. 1	05	83. 9	63. 2	65	131.8	99.3	25	179.7	135. 4	85	227.6	171.5	
46	*36.7	27, 7	06	84.7	63.8	66	132. 6	99.9	26	180, 5	136.0	86	228.4	172.1	
47	37.5	28, 3	07	85.5	64.4	67	133. 4	100.5	27	181.3	136, 6	87	229. 2	172. 1 172. 7	
48	38, 3	28.9	-08	86.3	65, 0	68	134. 2	101.1	28	182. 1 182. 9	137. 2 137. 8	-88	230, 0	173.3	
49	39. 1	29.5	- 09	87.1	65, 6	69	135. 0	101.7	29	182.9	137. 8	89	230, 8	173.9	
50	39. 9	30.1	_10	_87.8	66. 2	70	135. 8	102.3	-30.	183: 7	138, 4	. (9()	231. 6	174.5	
51	40.7	30, 7	111	88.6	65. 8	171	136. 6	102.9	231	184.5	139, 0	291	232. 4	175.1	
52	41.5	31.3	12	89. 4	67.4	72	137, 4	103.5	32	185, 3	139. 6	92	233, 2	175.7	
53	42.3	31.9	- 13	90. 2	68.0	73	138. 2	104.1	33	186.1	140. 2	93	234, 0	176.3	
54	43.1	32, 5	14	91.0	68, 6	74	139.0	104.7	34	186. 9	140. 8	94	234. 8	176. 9	
55	43.9	33. 1	15	91.8	69. 2	75	139.8	105.3	35	187. 7	141.4	95	235, 6	177.5	
56	44.7	33. 7	16	92.6	69, 8	76 77	140, 6	105.9	36	188, 5	142.0	96 97	236, 4 237, 2	178.1 178.7	
57	45.5	34.3	17	93.4	70.4	14	141.4	106.5	37	189.3	142.6	98	237. 2	179.3	
58 50	46.3	34.9	18	94. 2	71.0	78 79	142. 2 143. 0	107. 1	38 39	190, 1 190, 9	143. 2 143. 8	99	238.8	179. 3	
59 60	47. 1 47. 9	35, 5 36, 1	19 20	95, 0 95, 8	71. 6 72. 2	80	143.8	107.7	40	191.7	144. 4	300	239. 6	180.5	
0.0	41.9	30. 1	-"	30.8	12.2	60	170.0	100.0	1,,	101.1	, 11. 1	17.7	200.0	4.4.0	
Dist	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	I.nt.	
DIOL	Dep.			14.15	1,414.	1	- Archi		I						
						53° (	127°, 233	3°, 307	٥).						

53° (127°, 233°, 307°).

Difference of Latitude and Departure for 37° (143°, 217°, 323°).

	-		Z-IIICI	CIRCO OI			- E-cpure	are for		. 10 , 21	, 020	١٠.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	240, 4	181.1	361	288.3	217. 3	421	336. 2	253. 4	481	384.1	289, 5	541	432.0	325, 6
02	241. 2	181.7	62	289.1	217.9	22	337.0	254.0	82	384.9	290.0	42	432.8	326, 2
-03	242.0	182.4	63	289.9	218.5	23	337.8	254, 6	83	385.7	290.6	43	433.6	326.8
04	242.7	183.0	64	290.7	219.1	24	338.6	255, 2	84	386.5	291.2	44	434.4	327.3
05	243.5	183. 6	65	291.5	219.7	25	339.4	255. 8	85	387.3	291.8	45	435. 2	327. 9
-06	244.3	184. 2	-66	292.3	220.3	26	340.2	256. 4	86	388, 1	292.4	46	436, 0	328. 5
07	245.1	184. 8	67	293.1	220.9	27	341.0	257.0	87	388.9	293.0	47	436.8	329.1
08	245.9	185. 4	68	293. 9	221.5	28	341.8	257.6	88	389. 7	293.6	48	437.6	329.7
09	246.7	186.0	69	294. 7	222. 1	29	342.6	258.2	S9	390.5	294.2	49	438.4	330, 3
10	247.5	186.6	70	295.5	222.7	30	343. 4	258.8	_90_	391.3	294.8	50	439. 2	330.9
311	248.3	187. 2	371	296.3	223. 3	431	344. 2	259.4	491	392.1	295. 4	551	440.0	331.5
12 13	249.1 249.9	187. 8 188. 4	72 73	297.1 297.9	223. 9 224. 5	32 33	345, 0 345, 8	260, 0 260, 6	92	392, 9 393, 7	296.0 296.6	52	440.8	332.1
14	249.9	189.0	10	297.9	224. 5	34	346.6	261. 2	93 94	394.5	296, 6	53	441. 6 442. 4	332.7
15	251.5	189.6	74 75	299.5	225. 7	35	347. 4	261. 8	95	395.3	297. 2	54 55	443. 2	333.3 333.9
16	252.3	190. 2	76	300.3	226. 3	36	348. 2	262. 4	96	396.1	298.5	56	444.0	334.6
17	253. 1	190. S	77	301.1	226. 9	37	349.0	263. 0	97	396. 9	299.1	57	444.8	235. 2
18	253. 9	191.4	78	301.8	227.5	38	349.8	263. 6	98	397.7	299.7	58	445.6	335.8
19	254.7	192.0	79	302.6	228.1	39	350.6	264. 2	99	398.5	300.3	59	446.4	336.4
20	255, 5	192.6	80	303.4	228.7	40	351.4	264.8	500	399.3	300.9	60	447. 2	337. 0
321	256, 3	193, 2	381	304.2	229.3	441	352, 2	265, 4	501	400. 1	301.5	561	448.0	337.6
90	257. 1	193. 8	82	305.0	229. 9	42	353. 0	266. 0	02	400.9	302. 1	62	448.8	338. 2
23	257.9	194.4	83	305. 8	230.5	43	353, 8	266, 6	03	401.7	302.7	63	449.6	338.8
24	258.7	195.0	84	306.6	231, 1	44	354.6	267.2	04	402.5	303.3	64	450.4	339.4
25	259.5	195.6	85	307.4	231.7	45	355. 4	267.8	05	403.3	303.9	65	451.2	340.0
26	260.3	196. 2	86	308.2	232. 3	46	356. 2	268.4	-06	404.1	304.5	66	452.0	340.6
27	261.1	196.8	87	309.0	232.9	47	357.0	269.0	07	404.9	305.1	67	452, 8	341.2
27 28 29	261.9	197.4	88	309.8	233.5	48	357.8	269, 6	-08	405.7	305.7	68	453.6	341.8
	262.7	198.0	89	310.6	234.1	49	358.6	270. 2	09	406.5	306.3	69	454. 4	342.4
30	263.5	198.6	90	311.4	234. 7	_50	359.4	270.8	10	407.3	306. 9	70	455. 2	343.0
331	264.3	199, 2 199, 8	391	312. 2	235. 3	451	360.1	271.4	511	408.1	307.5	571	456.0	343.6
32 33	265. 1 265. 9	200.4	92 93	313. 0 313. 8	235, 9 236, 5	52	360. 9	272. 0 272. 6	12	408.9	308. 2	72	456. 8	344.3
34	266, 7	201, 0	94	314.6	237. 1	53 54	361.7 362.5	273. 2	13 14	409.7 410.5	308.8	73	457. 6 458. 4	344. 9 345. 5
35	267.5	201.6	95	315.4	237. 7	55	363. 3	273. 8	15	411.3	310.0	74 75	459.2	346, 1
36	265.3	202. 2	96	316. 2	238.3	56	364.1	274.4	16	412.1	310.6	76	460.0	346, 7
37	269, 1	202.8	97	317, 0	238.9	57	364.9	275.0	17	412.9	311. 2	77	460.8	347.3
38	269, 9	203.4	98	317.8	239, 5	58	365. 7	275.6	18	413.7	311.8	78	461.6	347.9
39	270.7	204.0	99	318.6	240.1	59	366, 5	276.2	19	414.5	312.4	79	462.4	348.5
40	271.5	204.6	400	319.4	240.7	60	367.3	276. S	20	415.3	313.0	80	463. 2	349.1
341	272.3	205, 2	401	320. 2	241.3	461	368. 1	277, 4	521	416.1	313. 6	581	464.0	349.7
42	273.1	205, 8	02	321.0	241.9	62	368.9	278.0	22	416.9	314, 2	82	464.8	350.3
43	273.9	206.4	-03	321.8	242.5	63	. 369.7	278.6	23	417.7	314.8	83	465, 6	350.9
44	274. 7	207.0	+4	322, 6	243.1	64	370.5	279, 2	24	418.5	315.4	84	466.4	351.5
45	275, 5	207.6	05	323.4	243.7	65	371.3	279.8	25	419.3	316.0	85	467.2	352.1
46	276.3	208.2	06	324. 2	244.3	66	372.1	280, 4	26	420.1	316.6	86	468.0	352. 7
47	277.1	208.8	07	325, 0	244.9	67	372. 9 373. 7	281.0	27	420, 9	317.2	87	468, 8	353, 3
48 49	277.9	209. 4	.08	325, 8	245, 5	68	373.7	281.6	28	421.7	317.8	88	469.6	353, 9
50	278.7 279.5	210, 0 210, 6	09 10	326. 6 327. 4	246, 1 246, 7	69 70	374.5	282.3	29 30	422.5	318.4	89	470.4	354.5
							375.3	282.9		423.3	319.0	90	471.2	355.1
351 52	250.3 281.1	211. 2 211. 8	411 12	328. 2 329. 0	$247.3 \\ 247.9$	471	376, 1	283, 5	531	424.1	319.6	591	472.0	355.7
53	281. 1	211. 8	13	329, 8	248.5	72   73	376.9 377.7	$284.1 \\ 284.7$	32	424.9 $425.7$	320, 2 320, 8	92 93	472.8 473.6	356.3
54	282.7	213.0	14	330.6	249. 2	74	378.5	285.3	34	426.5	320.8 $321.4$	93	474.4	356. 9 357. 5
55	283. 5	213.6	15	331.4	249.8	75	379.3	285, 9	35	427.3	322. 0	95	475.2	358, 1
56	284.3	214. 2	16	332. 2	250. 4	76	380. 1	286.5	36	428, 1	322.6	96	476, 0	358, 7
57	285.1	214.8	17	333, 0	251.0	77	380.9	287.1	37	428.9	323. 2	97	476, 8	359, 3
58	285.9	215. 4	18	333. 8	251.6	78	381.7	287.7	38	429.7	323. 8	98	477.6	359, 9
59	286.7	216.1	19	334, 6	252. 2	79	382.5	288.3	39	430, 5	324. 4	99	478.4	360.5
60	287.5	216.7	20	335, 4	252. 8	80	383.3	288.9	40	431.3	325, 0	600	479.2	361 1
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Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat,	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						520 (1)								
						VO / 10	070 000	0700						

53° (127°, 233°, 307°).

Page	606]

## TABLE 2.

Difference of Latitude and Departure for 38° (142°, 218°, 322°).

188.   Lat.   Log.   Dist.   Lat.   Dep.   Dist.				гипете	ance or 1	Latitud	e and	Departi	ire for	58° (1	142", 210	· , 322	).		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1	0.8	0.6	61	48.1	37. 6	121	95.3	74. 5	181	142.6	111.4	941	189. 9	148.4
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	2.4		63	49.6	38.8		96, 9	75. 7	83			43		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4													192.3	150.2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
8 6.3 4.9 68 53.6 44.9 28 100.9 78.8 88 148.1 115.7 48 195.4 152.7 9 7.1 5.5 69 54.4 4.25 29 101.7 79.4 80 148.9 116.4 4 91 196.2 153.3 10 7.9 6.2 70 55.2 43.1 30 102.4 80.0 30 149.7 117.0 50 147.0 153.9 11 8.7 6.8 71 55.9 44.7 131 100.3 2 80.7 191 150.5 117.6 251 197.8 153.9 11 8.7 6.8 71 1.7 125.1 17.8 251 197.8 153.1 11.2 52 148.6 153.1 13 10.2 8.0 73 57.5 44.9 33 104.8 81.9 93 152.1 118.8 53 189.4 155.1 11.0 8.6 6 74 58.3 45.6 34 105.6 82.5 94 152.9 119.4 54 200.9 157.0 16 12.6 9.9 76 59.9 46.8 36 107.2 83.7 196 154.5 120.7 56 201.7 157.6 16 12.6 9.9 76 59.9 46.8 36 107.2 83.7 196 154.5 120.7 56 201.7 157.6 17 13.4 10.5 17.7 60.7 47.4 37 108.0 84.3 97 155.2 121.3 57 202.5 158.2 18 14.2 11.1 78 61.5 48.0 38 108.7 85.0 99 166.0 12.7 79 62.3 48.6 39 109.5 85.6 99 156.8 122.5 158.2 121.3 57 202.5 158.2 18 14.2 11.1 78 61.5 48.0 38 108.7 85.0 99 156.6 11.7 79 62.3 48.6 39 109.5 85.6 99 156.8 122.5 59 241.1 159.5 20 15.8 12.3 80 63.0 49.3 40 110.3 86.2 200 157.6 123.1 60 244.9 100.1 21 16.5 12.9 81 63.6 6.5 42 111.9 87.4 62 200.5 157.6 123.1 60 244.9 100.1 22 17.3 15.4 48.6 2 51.1 43 112.7 88.0 63 100.0 125.0 63 207.2 101.9 100.1 22 17.3 15.4 86.6 2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 24 18.9 14.8 84 66.2 51.7 44 113.5 88.7 64 100.0 125.0 63 207.2 101.9 100.1 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.0 100.0 125.0 63 207.2 101.9 100.1 100.0 100.0 125.0 63 207.2 100.0 100.0 125.0 63 207.2 100.0 100.0 125.0 63 207.2 100.0 10															
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$\begin{array}{c} 23 & 18.1 \\ 24 & 18.9 \\ 14.8 & 84 \\ 66.2 & 51.7 \\ 15.4 \\ 85 & 67.0 \\ 52.3 \\ 19.7 \\ 15.4 \\ 85 & 67.0 \\ 52.3 \\ 19.7 \\ 15.4 \\ 85 & 67.0 \\ 52.3 \\ 45 & 114.3 \\ 89.3 \\ 05 \\ 161.5 \\ 126.2 \\ 88.7 \\ 04 \\ 160.8 \\ 125.6 \\ 64 \\ 208.0 \\ 016.5 \\ 126.2 \\ 65 \\ 208.8 \\ 163.2 \\ 265 \\ 209. 20.5 \\ 160.0 \\ 86 \\ 86 \\ 87 \\ 88.7 \\ 88.7 \\ 04 \\ 101.5 \\ 101.5 \\ 101.5 \\ 089.9 \\ 90.5 \\ 107 \\ 103.1 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 126.3 \\ 1$								111.9							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23	18.1	14. 2	83	65, 4		43	112.7		-03	160.0	125. 0	63		161.9
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$\begin{array}{c} 28 & 22.1 & 17.2 & 88 & 69.3 & 54.2 & 48 & 116.6 & 91.1 & 08 & 163.9 & 128.1 & 68 & 211.2 & 165.0 \\ 29 & 22.9 & 17.9 & 89 & 70.1 & 54.8 & 49 & 117.4 & 91.7 & 09 & 164.7 & 128.7 & 69 & 212.0 & 165.6 \\ 30 & 23.6 & 18.5 & 90 & 70.9 & 55.4 & 50 & 118.2 & 92.3 & 10 & 165.5 & 129.3 & 70 & 212.8 & 166.2 \\ 31 & 24.4 & 19.1 & 91 & 71.7 & 56.0 & 151 & 119.0 & 93.0 & 211 & 166.3 & 129.9 & 271 & 213.6 & 166.2 \\ 32 & 25.2 & 19.7 & 92 & 72.5 & 56.6 & 52 & 119.8 & 93.6 & 12 & 167.1 & 130.7 & 72 & 214.3 & 167.5 \\ 33 & 26.0 & 20.3 & 93 & 73.3 & 57.3 & 53 & 120.6 & 94.2 & 13 & 167.8 & 131.1 & 73 & 215.1 & 168.1 \\ 34 & 26.8 & 20.9 & 94 & 74.1 & 57.9 & 54 & 121.4 & 94.8 & 14 & 168.6 & 131.8 & 74 & 215.9 & 168.7 \\ 35 & 27.6 & 21.5 & 95 & 74.9 & 58.5 & 55 & 122.1 & 95.4 & 15 & 169.4 & 132.4 & 75 & 216.7 & 169.3 \\ 36 & 28.4 & 22.2 & 96 & 75.6 & 59.1 & 56 & 122.9 & 96.0 & 16 & 170.2 & 133.0 & 76 & 217.5 & 169.9 \\ 37 & 29.2 & 22.8 & 97 & 76.4 & 59.7 & 57 & 123.7 & 96.7 & 17 & 171.0 & 133.6 & 77 & 218.3 & 170.5 \\ 38 & 29.9 & 23.4 & 98 & 77.2 & 60.3 & 58 & 124.5 & 97.3 & 18 & 171.8 & 134.2 & 78 & 219.1 & 171.2 \\ 39 & 30.7 & 24.0 & 99 & 78.0 & 61.0 & 59 & 125.3 & 97.9 & 19 & 172.6 & 131.8 & 79 & 219.9 & 171.8 \\ 40 & 31.5 & 24.6 & 100 & 78.8 & 61.0 & 59 & 125.3 & 97.9 & 19 & 172.6 & 131.8 & 79 & 219.9 & 171.8 \\ 41 & 32.3 & 25.2 & 101 & 79.6 & 62.2 & 161 & 126.9 & 99.1 & 221 & 174.2 & 136.1 & 281 & 221.4 & 173.0 \\ 42 & 33.1 & 25.9 & 02 & 80.4 & 62.8 & 62 & 127.7 & 99.7 & 22 & 174.9 & 136.7 & 82 & 222.2 & 175.6 \\ 43 & 33.9 & 26.5 & 03 & 81.2 & 63.4 & 63 & 128.4 & 100.4 & 23 & 175.7 & 137.3 & 83 & 223.0 & 174.2 \\ 44 & 34.7 & 27.1 & 04 & 82.0 & 64.0 & 64 & 129.2 & 101.0 & 24 & 176.5 & 138.7 & 84 & 2223.8 & 174.8 \\ 45 & 35.5 & 27.7 & 05 & 82.7 & 61.6 & 65 & 130.0 & 101.6 & 25 & 177.3 & 138.5 & 85 & 224.6 & 175.5 \\ 44 & 37.0 & 28.9 & 07 & 84.3 & 65.9 & 67 & 131.6 & 102.8 & 27 & 178.9 & 139.8 & 87 & 226.2 & 176.7 \\ 55 & 44.0 & 32.0 & 12 & 88.3 & 69.0 & 72 & 135.5 & 165.9 & 32 & 182.8 & 142.8 & 92 & 130.1 & 179.8 \\ 56 & 44.1 & 32.0 & 12 & 8$	26														
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58         45,7         35,7         18         93,0         72,6         78         140,0         109,6         08         187,5         146,5         98         234,8         183,5           50         46,5         36,0         19         93,8         73,3         79         141,1         110,2         39         188,3         147,1         59         235,6         184,1           60         47,3         36,9         20         94,6         73,9         80         141,8         110,8         40         189,1         147,8         300         206,4         184,7						70.0				137					
59 46,5 36,6 19 93,8 73,3 79 141,1 110,2 39 188,3 147,1 99 235,6 184,1 60 47,3 36,9 20 94,6 73,9 80 111,8 110,8 40 189,1 147,8 300 236,4 184,7						72.6	78								
60 47.3 36.9 20 94.6 73.9 80 144.8 110.8 40 189.1 147.8 300 236.4 184.7														235, 6	154.1
Dist Dep Lat Dist Dep Lat, Dist, Dep Lat Dist, Dep. Lat, Dist Dep Lat	60	17.3	36, 9	20	94, 6		80	141.8	110,6	40	189, 1	147. 8	1300	206, 4	154.7
Dist Dep   Lat   Dist   Dep   Lat.   Dist, Dep   Lat   Dist, Dep.   Lat.   Dist   Dep   Lat				. '									-		
	Dist	Darge	List	Bist	hep	Lat.	Pist.	Deb	Lact	Dist.	Di-p.	Lat.	Priet	1 1.	1.81

52° (128°, 232°, 308°).

TABLE 2.

[Page 607

Difference of Latitude and Departure for 38° (142°, 218°, 322°).

301 237.2 185.3 361 284.5 222.3 421 331.8 259.2 481 379.0 296.2 541 426.3 332.1 202 238.0 185.9 62 255.3 222.9 22 332.5 259.8 82 379.8 296.8 42 427.1 332.7 303.3 238.8 186.6 36 326.0 225.5 233.3 390.4 83 380.6 297.4 43 427.7 333.4 304 239.6 187.2 64 286.8 224.1 24 334.1 261.0 84 381.4 298.0 44 428.7 335.0 66 241.1 188.4 66 286.8 224.1 24 334.1 261.0 84 381.4 298.0 44 428.7 335.0 66 241.1 188.4 66 288.4 253.3 26 335.7 262.3 86 382.2 298.6 45 4295.3 336.8 294.7 189.0 67 289.2 266.0 28 387.3 262.9 87.8 38.8 298.2 4 47 431.3 336.8 89 242.7 189.0 6 829.0 226.6 28 387.3 262.9 87.8 38.8 298.8 47 431.3 336.8 89 242.7 189.0 6 820.8 272.2 29 383.1 264.1 89 385.3 301.4 48 431.8 337.4 201.0 244.3 190.9 70 291.6 277.8 30.3 38.8 264.7 90 386.1 301.7 50 433.4 338.6 10 244.3 190.9 70 291.6 277.8 30 338.8 264.7 90 386.1 301.7 50 433.4 338.6 12 245.9 192.1 72 293.1 229.0 32 340.4 266.6 93 385.3 301.1 49 432.6 338.0 13 246.6 192.7 73 293.9 229.6 33 341.2 266.6 93 385.5 303.5 55 34 345.5 345.1 12 248.9 192.1 72 293.1 229.0 32 340.4 266.0 92 387.7 302.9 52 435.0 338.8 12 244.7 193.3 74 294.7 293.3 342.0 267.2 94 389.3 304.2 54 436.6 341.1 15 248.2 193.9 759.5 525.0 33.9 26.0 33 341.2 266.6 93 30.0 305.8 385.3 304.2 54 436.6 341.1 15 248.2 193.9 75 295.5 230.9 35 342.8 267.8 95 300.1 304.8 55 347.3 43.1 18 250.6 195.8 78 297.9 232.7 38 345.2 267.7 99 380.2 307.5 64 366 438.1 342.0 267.2 94 389.3 304.2 54 436.6 341.1 18 250.6 195.8 78 297.9 282.7 3 38 345.2 269.7 98 392.4 306.6 58 439.7 344.2 20 252.2 197.0 80 299.4 230.0 40 346.7 270.9 500 340.4 307.8 60 441.3 344.8 22 253.7 198.2 82 301.0 255.2 432.0 440 346.7 270.9 500 340.4 307.8 60 441.3 344.8 22 253.7 198.2 82 301.0 255.2 435.0 440 346.7 270.9 500 340.4 307.8 60 441.3 344.8 22 253.7 198.2 82 301.0 255.2 435.0 50.8 242.0 440.8 307.8 60.0 13.4 44.8 436.3 44.4 44.8 44.8 44.8 44.8 44.8 44.8 44	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
02 238.0 185.9 62 285.3 292.9 22 332.5 259.8 82 379.8 296.8 24 427.1 383.7 304 239.6 187.2 64 266.8 224.1 24 334.1 261.0 84 381.4 298.0 44 428.7 335.0 65 240.3 187.8 65 27.6 224.7 25 333.9 261.7 85 382.2 298.6 4 427.7 353.0 66 241.1 188.4 66 288.4 225.3 26 335.7 262.3 86 382.2 298.6 4 54 295.3 335.6 82 427.7 189.6 65 289.2 296.6 28 357.3 263.5 88 384.5 302.4 4 84 31.8 335.4 208.0 82 242.7 189.6 68 290.0 226.6 28 377.3 263.5 88 384.5 300.4 4 84 31.8 335.4 209.2 246.5 190.2 69 248.5 190.2 69 290.8 227.2 29 385.1 264.1 89 385.3 301.4 48 431.8 335.4 10 244.3 190.9 70 291.6 227.8 30 388.8 294.7 90 386.1 301.7 50 433.4 338.6 12 245.9 192.1 72 283.1 229.0 32 340.4 266.6 93 385.3 301.1 49 432.6 338.0 12 245.9 192.1 72 283.1 229.0 32 340.4 266.6 92 387.7 302.9 52.4 350.0 338.8 12 245.9 192.1 72 283.1 229.0 33 341.2 266.6 93 385.5 301.5 35 35 35 35 345.1 31.1 245.1 31.3 246.6 192.7 73 283.9 229.6 33 341.2 266.6 93 385.3 304.2 54 436.6 341.1 12 249.0 194.6 70 296.3 231.5 33 436.6 285.4 96 380.1 304.8 55 437.4 341.7 16 249.0 194.6 70 296.3 231.5 36 343.6 285.4 96 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 297.1 232.1 33 346.4 286.1 99.3 340.4 366.6 340.1 17 249.8 189.2 77 298.7 1232.1 33 346.2 867.5 95 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 33 346.2 286.5 93 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 38 345.2 286.7 93 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 33 344.2 881.3 242.3 383.3 342.0 260.0 340.0 340.7 37.8 64 441.3 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 3	201001		- Dep.				-					Dep.			z.cp.
02 238.0 185.9 62 285.3 292.9 22 332.5 259.8 82 379.8 296.8 24 427.1 383.7 304 239.6 187.2 64 266.8 224.1 24 334.1 261.0 84 381.4 298.0 44 428.7 335.0 65 240.3 187.8 65 27.6 224.7 25 333.9 261.7 85 382.2 298.6 4 427.7 353.0 66 241.1 188.4 66 288.4 225.3 26 335.7 262.3 86 382.2 298.6 4 54 295.3 335.6 82 427.7 189.6 65 289.2 296.6 28 357.3 263.5 88 384.5 302.4 4 84 31.8 335.4 208.0 82 242.7 189.6 68 290.0 226.6 28 377.3 263.5 88 384.5 300.4 4 84 31.8 335.4 209.2 246.5 190.2 69 248.5 190.2 69 290.8 227.2 29 385.1 264.1 89 385.3 301.4 48 431.8 335.4 10 244.3 190.9 70 291.6 227.8 30 388.8 294.7 90 386.1 301.7 50 433.4 338.6 12 245.9 192.1 72 283.1 229.0 32 340.4 266.6 93 385.3 301.1 49 432.6 338.0 12 245.9 192.1 72 283.1 229.0 32 340.4 266.6 92 387.7 302.9 52.4 350.0 338.8 12 245.9 192.1 72 283.1 229.0 33 341.2 266.6 93 385.5 301.5 35 35 35 35 345.1 31.1 245.1 31.3 246.6 192.7 73 283.9 229.6 33 341.2 266.6 93 385.3 304.2 54 436.6 341.1 12 249.0 194.6 70 296.3 231.5 33 436.6 285.4 96 380.1 304.8 55 437.4 341.7 16 249.0 194.6 70 296.3 231.5 36 343.6 285.4 96 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 297.1 232.1 33 346.4 286.1 99.3 340.4 366.6 340.1 17 249.8 189.2 77 298.7 1232.1 33 346.2 867.5 95 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 33 346.2 286.5 93 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 38 345.2 286.7 93 380.1 304.8 55 437.4 341.7 12 249.8 189.2 77 298.7 1232.1 33 344.2 881.3 242.3 383.3 342.0 260.0 340.0 340.7 37.8 64 441.3 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 349.2 3	301	237. 2	185, 3	361	284. 5	222.3	421	331. 8	259, 2	481	379.0	296. 2	541	426, 3	333.1
03 238.8   186.6   63 286.0   232.5   23 333.3   290.4   83   836.6   297.4   43   427.9   334.3   05 240.3   187.8   65   287.6   224.7   25   334.9   261.7   85   382.2   298.6   45   429.5   335.6   06 241.1   188.4   66   288.4   225.3   26   335.7   262.3   86   382.0   299.2   46   430.3   336.2   07 241.9   189.0   67   289.2   226.0   27   336.5   262.9   87   383.8   299.8   47   431.0   336.2   08 242.7   189.6   68   290.0   226.6   28   337.3   263.5   88   384.5   330.4   48   431.3   332.6   09 243.5   190.9   70   291.6   227.8   30   338.8   264.7   90   386.1   331.7   50   433.4   338.6   10 244.3   190.9   70   291.6   227.8   30   338.8   264.7   90   386.1   331.7   50   433.4   338.6   131 245.7   191.5   371   292.4   228.4   431   339.6   265.4   491   386.9   302.3   551   434.2   338.3   132 246.6   192.7   73   293.9   292.6   33   341.2   266.6   93   385.5   303.5   53   435.8   346.5   132 248.2   193.9   75   295.5   230.9   35   342.8   267.2   94   386.9   302.3   551   434.2   338.3   17 249.8   195.2   77   297.1   232.1   37   344.4   269.1   97   391.6   366.0   58   439.7   349.6   18 250.4   196.4   79   298.7   233.3   39   345.9   270.5   98   389.3   304.5   56   4381.3   342.3   19 251.4   196.4   79   298.7   233.3   39   345.9   270.5   99   386.5   301.7   60   441.3   344.8   19 255.4   196.4   79   298.7   233.3   39   345.9   270.5   399.3   334.4   307.6   65   58   439.7   348.6   19 255.4   196.4   79   298.7   233.3   39   345.9   270.5   399.3   384.5   306.6   58   4397.3   348.5   19 256.1   197.0   381   300.2   234.6   441   347.5   271.5   501   394.8   308.7   304.5   444   347.2   245.5   319.9   58   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.8   436.						222. 9	22							427.1	
04   239,6   187,2   64   266,8   224,1   24   334,1   261,0   84   381,1   248,0   44   428,7   335,0   65   241,1   188,4   66   288,4   225,3   26   335,7   262,3   86   382,2   298,6   45   429,5   335,6   68   242,7   189,6   68   290,0   226,6   28   337,3   263,5   88   381,5   300,4   48   431,8   337,4   241,3   190,9   70   291,6   227,8   30   338,8   264,7   90   386,1   301,7   50   433,4   338,6   331,1   245,1   191,5   371,2   224,2   224,3   331,3   263,5   88   384,5   301,4   48   431,8   337,4   245,9   192,1   72   293,1   229,0   32   340,4   266,6   93   385,3   301,2   54,4   35,4   35,4   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5   34,5		238.8			286, 0	223.5	23	333.3	260, 4					427.9	334.3
05   240, 3   187, 8   65   287, 6   224, 7   25   333, 9   261, 7   85   382, 2   286, 6   45   429, 5   333, 6   334, 9   261, 7   411, 9   189, 0   67   289, 2   226, 0   27   336, 5   262, 9   87   383, 8   299, 8   47   431, 0   336, 8   301, 9   244, 3   190, 9   269, 0   290, 8   287, 2   293, 381, 1   264, 1   89   385, 3   301, 1   49   432, 6   338, 0   339, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1   349, 1		239.6		64	286, 8	224.1	24			84		298.0	44	428.7	335.0
06 241.1   188.4   66   288.4   225.3   26   335.7   262.3   86   383.0   299.2   46   430.3   336.2   360.8   242.7   189.6   68   290.0   226.6   25   337.3   263.5   262.9   87   383.8   289.8   47   48   431.8   336.1   390.9   243.5   180.2   69   290.8   227.2   29   338.1   264.1   80   385.3   301.1   49   431.8   335.3   311.1   245.1   191.5   371   292.4   228.4   431.   389.6   265.4   7   80   386.1   301.7   50   433.4   338.6   338.1   244.1   380.9   275.0   433.4   338.6   338.1   244.5   385.9   385.3   301.1   49   436.6   343.4   338.6   338.1   246.6   189.7   73   293.6   229.6   323.4   4.2   266.6   92   387.7   302.9   52   435.0   338.5   345.1   4247.4   183.3   74   294.7   293.3   343.4   20.2   267.2   94   388.9   305.5   53   355.8   389.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5   349.5		240.3		65				334.9	261.7	85		298, 6			335, 6
08   242.7   189.6   68   290.0   226.6   28   337.3   293.5   88   384.5   300.1   48   431.8   338.6   10   244.3   190.9   70   291.6   227.8   20   338.1   264.1   79   386.9   385.3   301.1   49   432.6   338.0   11   245.9   192.1   72   293.1   229.0   33   388.8   264.7   90   386.1   301.7   50   433.4   338.6   12   245.9   192.1   72   293.1   229.0   32   340.4   296.8   08.7   302.8   551   432.6   338.1   14   247.4   193.3   74   294.7   230.3   34.3   342.0   267.2   44   388.9   305.5   53   345.6   339.1   15   248.2   189.9   75   295.5   230.9   33   341.2   266.6   30.1   30.5   53   345.6   345.1   16   249.0   194.6   76   296.2   221.5   36   343.6   288.8   369.1   304.8   55   437.4   348.8   348.2   17   249.8   180.5   277.2   297.1   232.1   37   344.4   289.1   369.1   306.6   58   438.1   342.3   18   250.6   195.8   78   297.9   232.7   38   345.2   297.3   39   382.4   306.6   58   438.1   342.3   18   253.0   197.0   80   289.4   234.6   441   347.5   271.5   500   394.4   307.8   64   440.5   344.5   23   254.5   188.9   83   301.6   235.6   441   347.5   271.5   500   394.4   307.8   64   441.3   441.3   24   255.2   256.1   200.1   85   303.4   237.0   45   350.4   277.7   46   351.5   274.6   60   398.7   311.6   66   446.5   345.2   25   256.1   200.1   85   305.4   237.7   46   351.5   274.6   60   398.7   311.6   66   446.8   347.7   347.6   247.4   347.5   271.7   271.0   271.5   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   271.0   2	-06			66	288.4	225. 3	26	335. 7		86	383. 0		46	430.3	336.2
99   243.5   190.9   69   290.8   227.2   299   338.1   264.1   89   385.3   301.1   49   432.6   338.6   311   245.1   191.5   371   292.4   228.4   331   339.6   235.4   491   386.9   302.3   551   434.2   339.3   331.1   246.6   192.7   73   293.9   229.6   33   341.2   245.6   61.92.7   73   293.9   229.6   33   341.2   246.6   192.7   73   293.9   229.6   33   341.2   246.6   192.7   73   293.9   229.6   33   341.2   246.6   39   385.5   302.5   53   435.8   340.1   14   247.4   183.3   74   2494.7   220.3   343.6   249.0   148.3   74   247.4   247.4   247.4   248.2   183.9   75   295.5   230.9   35   342.8   267.8   95   380.1   304.8   55   436.6   341.5   16   249.0   184.6   76   236.3   231.5   334.6   236.4   96   389.9   305.4   56   438.1   342.2   343.9   343.0   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   343.6   34	07	241.9	189.0	67	289.2			336. 5	262. 9	87	383. 8	299, 8	47	431.0	336, 8
99 243.5 190.2 69 290.8 227.2 299 338.1 264.1 89 385.3 301.1 49 432.6 338.6 310 245.1 10 244.5 190.9 70 291.6 227.8 30 338.8 264.7 90 386.1 301.7 50 433.4 338.6 311 245.1 191.5 371 292.4 228.4 431 339.6 255.4 491 386.9 302.3 551 434.2 339.3 12 246.6 192.7 73 293.9 229.6 33 341.2 296.6 192 387.7 302.9 52 403.3 349.1 12 245.1 183.3 74 294.7 230.3 34.4 20.2 267.2 4 389.3 302.9 55 345.8 340.5 11 247.4 183.3 74 294.7 230.3 34 342.2 267.2 4 389.3 30.1 304.8 55 435.8 340.5 11 2424.1 183.3 74 294.7 230.3 34 342.2 267.2 4 389.3 30.1 304.8 55 437.4 341.7 341.7 249.8 195.2 77 297.1 232.1 37 344.4 269.1 97 391.6 306.0 57 434.3 14.1 18 250.6 185.8 78 297.9 232.7 3 345.9 270.3 99 383.2 30.6 58 439.7 343.8 345.9 270.3 99 383.2 30.6 58 439.7 344.2 20 252.2 137.0 80 299.4 234.0 40 346.7 270.9 500 384.0 307.2 59 440.5 344.2 20 252.2 137.0 80 299.4 234.0 40 346.7 270.9 500 384.0 307.8 60 441.3 34.2 22 253.7 188.2 82 301.0 255.2 42 348.3 272.1 02 385.6 309.1 62 442.9 346.6 24 255.3 199.5 84 302.6 236.4 441 349.9 273.4 00 386.7 270.3 396.4 300.7 26 441.3 34.2 22 255.3 199.5 84 302.6 236.4 441 349.9 273.4 00 386.7 200.7 26 441.3 34.8 22 255.5 199.5 84 302.6 236.4 44 349.9 273.4 00 386.7 200.7 26 441.3 34.8 22 255.5 201.9 88 305.4 303.4 237.0 45 380.4 300.7 26 444.3 44.3 44.3 44.2 27.3 38.4 38.4 38.4 38.4 38.4 38.4 38.4 38	08	242. 7	189, 6	68	290.0	226, 6	28	337.3	263. 5	88	384.5	300, 4	48	431.8	337.4
1311   245.1   191.5   371   292.4   228.4   431   339.6   255.4   491   386.9   302.3   551   434.2   339.8   312   246.6   192.7   73   293.9   292.0   32   334.0   4   266.6   92   387.7   302.9   55.3   435.0   339.1   14   247.4   193.3   74   294.7   290.3   33   341.2   266.6   93   388.5   303.5   53   435.8   348.5   341.5   15   248.2   193.9   75   296.3   231.5   33   341.2   266.6   93   388.5   304.2   55.4   436.6   341.1   15   248.2   193.9   75   296.3   231.5   36   343.6   266.4   96   390.9   305.4   55.4   436.6   341.1   17   249.8   195.2   77   297.1   232.1   37   344.4   269.1   97   391.6   366.6   366.0   57   436.6   341.2   267.8   36   346.7   267.8   36   346.7   267.0   36   36   36   36   36   36   36   3	09		190. 2		290.8	227. 2			264.1	89	385.3	301.1	49		338.0
12   245.9   192.1   72   293.1   229.0   32   340.4   266.0   92   387.7   302.9   52   485.0   393.9   351.1   248.4   193.3   74   294.7   293.3   341.2   266.6   93   388.5   303.5   53   485.8   340.5   14   247.4   193.3   74   294.7   293.3   341.2   266.6   93   388.5   303.5   53   345.8   340.5   15   248.2   193.9   75   595.5   295.5   293.0   35   341.2   266.6   93   388.3   304.5   54   486.6   341.1   16   249.0   194.6   76   266.3   231.5   36   343.6   248.8   496.3   390.9   305.4   55   64   485.1   342.3   341.1   342.8   343.6   390.9   305.4   56   483.1   342.3   345.2   269.7   98   390.9   305.4   56   483.1   342.3   345.2   269.7   98   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   443.7   343.6   345.2   269.7   38   392.4   307.8   36   441.3   344.8   344.3   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0	10	244.3	190.9	70	291.6	227.8	30	338.8	264.7	90	386. 1	301.7	50	433. 4	338.6
12   245.9   192.1   72   293.1   229.0   32   340.4   266.0   92   387.7   302.9   52   485.0   393.9   351.1   248.4   193.3   74   294.7   293.3   341.2   266.6   93   388.5   303.5   53   485.8   340.5   14   247.4   193.3   74   294.7   293.3   341.2   266.6   93   388.5   303.5   53   345.8   340.5   15   248.2   193.9   75   595.5   295.5   293.0   35   341.2   266.6   93   388.3   304.5   54   486.6   341.1   16   249.0   194.6   76   266.3   231.5   36   343.6   248.8   496.3   390.9   305.4   55   64   485.1   342.3   341.1   342.8   343.6   390.9   305.4   56   483.1   342.3   345.2   269.7   98   390.9   305.4   56   483.1   342.3   345.2   269.7   98   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   483.7   343.6   345.2   269.7   38   392.4   306.6   58   443.7   343.6   345.2   269.7   38   392.4   307.8   36   441.3   344.8   344.3   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   346.7   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0   344.0	311	245.1	191.5	371	292.4	228.4	431	339.6	265, 4	491	386.9	302, 3	551	434.2	339.3
13	12	245.9	192.1		293.1	229.0	32	340.4	266.0	92	387.7	302.9	52	435.0	339.9
15         248. 2         193. 9         75         295. 5         230. 9         35         342. 8         267. 8         95         300. 1         304. 8         55         437. 4         341. 7           17         249. 8         195. 2         77         297. 1         232. 1         37         344. 4         269. 1         97         391. 6         306. 0         57         488. 9         343. 0           18         250. 6         195. 8         78         392. 7         38         345. 2         297. 9         392. 4         306. 6         58         439. 7         343. 0           19         251. 4         196. 4         79         298. 7         233. 3         345. 2         296. 7         98         392. 4         306. 6         58         439. 7         341. 3         344. 8           20         252. 2         197. 0         80         299. 4         234. 6         441         347. 5         271. 5         501         394. 8         308. 1         442. 1         341. 3         344. 8           22         253. 7         198. 8         300. 0         235. 8         43         349. 1         375. 271. 9         309. 6         309. 1         444. 4         3	13		192.7	73	293.9	229.6	33	341.2	266.6	93	388.5	303.5	53	435.8	340.5
16 249.0 194.6 76 296.3 231.5 36 343.6 288.4 96 390.9 305.4 56 488.1 342.2 17 249.8 195.2 77 297.1 292.1 37 344.4 296.1 97 391.6 306.0 5.4 38.7 438.9 343.0 18 250.6 195.8 78 297.9 232.7 38 345.9 269.7 98 392.4 306.6 58 439.7 1348.6 19 251.4 196.4 79 298.7 233.3 39 345.9 270.3 99 333.2 307.2 59 440.5 344.2 20 252.2 197.0 80 299.4 234.0 40 346.7 270.9 500 394.0 307.8 60 441.3 344.8 321 253.0 197.6 381 300.2 234.6 411 347.5 271.5 501 394.8 308.4 501 441.3 344.8 321 253.0 197.6 381 300.2 234.6 414 347.5 271.5 501 394.8 308.4 501 62 442.9 346.2 2 253.7 198.2 82 301.0 255.2 42 343.8 3 272.1 02 395.6 309.1 62 442.9 346.2 2 253.7 198.2 82 301.0 255.2 42 343.8 3 272.1 02 395.6 309.1 62 442.9 346.2 2 253.7 198.2 82 301.0 235.2 42 343.8 3 272.1 02 395.6 309.1 62 442.9 346.2 2 253.7 198.2 82 301.0 235.2 42 343.8 3 272.1 02 395.6 309.1 62 442.9 346.2 252.2 255.1 198.9 83 301.8 235.8 43 349.1 272.7 03 396.4 309.7 63 444.7 347.2 346.6 256.2 56.0 200.7 86 304.2 237.7 46 351.5 274.6 06 398.7 2 310.9 65 446.5 2 347.8 252.2 255.5 201.9 88 305.7 238.9 48 333.0 275.8 80 400.3 312.8 68 447.6 349.7 22 259.5 302.6 89 306.5 239.5 49 335.8 276.4 09 401.1 313.4 69 448.4 330.3 30 260.0 203.2 90 307.3 240.1 50 354.6 277.1 10 401.9 314.0 70 448.8 330.3 260.0 203.2 90 307.3 240.1 50 354.6 277.1 10 401.9 314.0 70 448.8 330.3 260.0 203.2 90 307.3 240.1 50 354.6 277.1 10 401.9 314.0 70 448.8 330.3 262.6 80 305.5 393.5 49 353.8 276.4 40 94.1 133.4 69 448.4 330.3 32.2 400.5 39 30.7 242.0 53 35.8 276.4 40 94.1 133.4 69 448.2 350.8 32.2 250.5 6 94 310.5 242.6 54 357.8 279.5 14 465.0 316.4 74 452.3 333.4 263.2 250.6 94 310.5 242.6 54 357.8 279.5 14 465.0 316.4 74 452.3 333.4 263.2 256.6 207.5 97 312.8 244.7 457.5 50 365.2 277.7 511 402.7 314.6 571.4 450.0 351.4 449.2 350.8 36.2 440.2 350.8 39 36.5 39 36.5 39 38.0 1 36.4 36.4 36.4 36.4 36.4 36.4 36.4 36.4				74				342. 0	267. 2	94			54		341.1
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24         255. 3         199.5         84         302.6         236.4         44         349.9         273.4         04         397.2         310.3         64         444.4         347.2         25         256.1         200.1         85         303.4         237.7         46         351.5         274.6         06         398.7         311.6         66         446.8         349.2           26         256.9         200.7         86         304.2         237.7         46         351.5         274.6         06         398.7         311.6         66         446.8         349.7           29         259.3         202.6         89         306.5         238.9         48         333.0         275.8         08         406.5         349.7         340.1         50         340.1         50         354.6         277.1         10         401.1         313.4         69         448.4         350.3         320.2         200.0         30.8         210.7         451         355.4         277.7         511         402.7         314.6         571         450.7         352.8         48         261.6         204.4         20         308.9         241.3         52         356.2 <td< td=""><td>22</td><td></td><td>198. 2</td><td></td><td></td><td></td><td></td><td></td><td>272.1</td><td></td><td></td><td></td><td></td><td>442.9</td><td></td></td<>	22		198. 2						272.1					442.9	
25 236.1   200.1   85 303.4   237.0   45   350.7   274.0   05   397.9   310.9   65   445.2   347.8   26 256.9   200.7   86 304.2   237.7   46   351.5   274.6   06   398.7   311.6   66   446.6   348.5   27 257.7   201.3   87 305.0   238.3   47   352.2   275.2   07   399.5   312.2   67   446.8   349.1   28 258.5   201.9   88 305.7   238.9   48   353.0   275.8   08   400.3   312.8   68   447.6   349.7   28 258.5   201.9   88 305.7   238.9   48   353.0   275.8   08   400.3   312.2   67   446.8   349.1   30 260.0   203.2   90   307.3   240.1   50   354.6   277.1   10   401.9   314.0   70   449.2   350.9   331   260.8   203.8   391   308.1   240.7   431.   355.4   277.7   511   401.9   314.0   70   449.2   350.9   332   261.6   204.4   92   308.9   241.3   52   356.2   278.3   12   403.5   315.2   72   450.7   352.2   33   262.4   205.0   93   309.7   242.0   53   357.0   278.9   13   404.2   315.8   73   451.5   352.3   35   264.0   206.3   95   311.3   243.2   55   358.5   280.1   15   405.0   316.4   74   452.3   353.4   263.2   205.6   94   310.5   242.6   54   357.8   279.5   14   405.0   316.4   74   452.3   353.4   263.2   205.6   94   310.5   242.6   54   357.8   279.5   14   405.0   316.4   74   452.3   353.4   264.0   206.3   95   311.3   243.2   55   358.5   280.1   15   405.8   317.1   75   453.1   354.0   265.6   207.5   97   312.8   244.4   57   360.1   281.4   17   407.4   318.3   77   454.7   355.2   265.6   207.5   97   312.8   244.4   57   360.1   281.4   17   407.4   318.3   77   454.7   355.2   266.3   208.1   98   313.6   245.0   58   360.9   282.0   18   408.2   318.9   78   455.5   355.4   267.1   208.7   99   314.4   245.7   59   361.7   282.6   19   409.0   319.5   79   456.3   356.4   267.1   208.7   209.9   400   316.2   246.3   60   362.5   283.2   20   409.8   320.2   80   457.1   357.1   268.5   217.9   212.4   65   319.1   249.3   65   366.4   266.3   255.1   234.1   232.0   83   456.3   369.4   277.4   214.3   60   63 32.1   248.7   64   365.6   285.7   29   416.9   325.7   89   464.1	23					235. 8			272.7		396. 4				
26 256.9 200.7 86 304.2 237.7 46 351.5 274.6 06 398.7 311.6 66 446.0 348.5 27 257.2 257.7 201.3 87 305.0 238.3 47 352.2 275.2 07 399.5 312.6 67 446.8 349.1 28 258.5 201.9 88 305.7 238.9 48 333.0 275.8 08 400.3 312.8 68 447.6 349.7 30 202.6 89 306.5 239.5 49 353.8 276.4 09 401.1 313.4 6 69 448.4 350.3 30 260.0 203.2 90 307.3 240.1 50 354.6 277.1 10 401.9 314.0 70 448.2 350.9 30 202.6 89 306.5 239.5 49 353.8 276.4 09 401.1 313.4 6 70 448.2 350.9 30 202.6 203.2 90 307.3 240.1 50 354.6 277.1 10 401.9 314.0 70 448.2 350.9 313 260.8 203.8 391 308.1 240.7 451 355.4 277.7 511 402.7 314.6 571 450.0 351.6 204.4 92 308.9 241.3 52 356.2 277.8 3 12 403.5 315.2 72 450.7 352.2 33 262.4 205.0 93 309.7 242.0 53 357.0 278.9 13 404.2 315.8 73 451.5 352.8 41.2 205.6 94 310.5 242.6 54 357.8 279.5 14 405.0 316.7 47 452.3 353.4 264.8 206.9 96 312.1 243.8 56 359.3 280.7 16 406.6 317.7 76 453.9 354.0 362.4 205.6 207.5 97 312.8 244.4 57 360.1 281.4 17 407.4 318.8 77 454.7 355.2 38 266.3 208.1 98 313.6 245.0 58 360.9 282.0 18 408.2 318.9 78 455.5 355.8 39 266.1 208.7 9 314.4 245.7 59 361.7 282.6 140.0 66.8 317.7 76 453.9 354.0 40 267.9 209.3 400 315.2 246.9 461 363.3 283.8 262.6 3 208.1 19 313.6 245.0 58 360.9 282.0 18 408.2 318.9 78 455.5 355.8 40 267.9 209.3 400 315.2 246.9 461 363.3 283.8 521 410.6 320.8 51.4 57.8 357.4 42 269.5 210.6 02 316.8 247.5 62 364.1 284.4 27 11.3 21.2 44.8 457.8 357.4 42 269.5 210.6 02 316.8 247.5 62 364.1 284.4 27 11.3 321.4 82 458.6 6 383.4 3270.3 211.2 03 317.6 248.1 63 364.9 285.1 23 412.1 322.0 88 459.4 358.9 44 271.1 211.8 04 318.4 248.7 64 365.6 285.7 24 410.6 320.8 54 40.0 369.2 246.9 401.3 314.4 427.1 211.8 04 318.4 248.7 64 365.6 285.7 24 410.6 320.8 54 40.0 369.2 246.9 409.0 319.2 30.0 469.9 321.3 321.5 231.2 68 388.8 288.1 284.1 1.3 321.5 86.4 360.3 360.9 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0 360.0											397. 2				
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28 258.5   201.9   88 305.7   238.9   48   333.8   275.8   08   400.3   312.8   68   447.6   349.7   29 259.3   202.6   89 306.5   239.5   49   333.8   276.4   09   401.1   313.4   69   448.4   350.3   30 260.0   203.2   90   307.3   240.1   50   354.6   277.1   10   401.9   314.0   70   449.2   350.9   331 260.8   203.8   391   308.1   240.7   451   355.4   277.7   511   402.7   314.6   571   450.0   351.6   32 261.6   204.4   92   308.9   241.3   52   356.2   277.8   312   403.5   315.2   72   450.7   352.2   33 262.4   205.0   93   309.7   242.0   53   357.0   278.9   13   404.2   315.8   73   451.5   352.8   34   263.2   205.6   94   310.5   242.6   54   357.8   279.5   14   405.0   316.4   74   452.3   333.4   35   264.0   206.3   95   311.3   243.2   55   358.5   280.1   15   405.8   317.1   75   453.1   354.0   36   264.8   206.9   96   312.1   243.8   56   359.3   280.7   16   406.6   317.7   76   445.3   354.0   38   266.3   208.1   98   313.6   245.0   58   360.9   282.0   18   408.2   318.9   78   455.5   355.8   39   267.1   208.7   97   312.8   244.4   57   59   361.7   282.6   54   409.0   319.5   79   456.3   354.4   40   267.9   209.3   400   315.2   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.1   341   268.7   209.9   401   316.0   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.1   341   268.7   209.9   401   316.0   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.1   341   268.7   209.9   401   316.0   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.1   341   277.3   271.2   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271.3   271						237. 7			274.6						
29 259.3   292.6   89   306.5   239.5   49   353.8   276.4   09   401.1   313.4   69   448.4   350.3   30   260.0   203.2   90   307.3   240.1   50   354.6   277.7   511   402.7   314.6   571   450.0   351.6   32   261.6   204.4   92   308.9   241.3   52   356.2   278.3   12   403.5   315.2   72   450.7   352.2   33   262.4   205.0   93   309.7   242.0   53   357.0   278.9   13   404.2   315.2   72   450.7   352.8   34   263.2   205.6   94   310.5   242.6   54   357.8   279.5   14   405.0   316.4   74   452.3   353.4   35   264.0   206.3   95   311.3   243.2   55   358.5   280.1   15   405.8   317.1   75   453.1   354.0   36   264.8   206.9   96   312.1   243.8   56   359.3   280.7   16   406.6   317.7   76   453.9   354.6   37   265.6   207.5   97   312.8   244.4   57   360.1   281.4   17   407.4   318.3   77   454.7   355.2   38   266.3   208.1   98   313.6   245.0   58   360.9   282.0   18   408.2   318.9   78   455.5   355.8   39   267.1   208.7   99   314.4   245.7   59   361.7   282.6   19   409.0   319.5   79   456.3   354.4   42   269.5   209.9   401   316.0   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.7   42   269.5   210.6   02   316.8   247.5   62   364.1   284.4   22   411.3   321.4   82   458.6   358.4   44   271.1   211.8   04   318.4   248.7   64   365.6   285.7   24   412.9   322.6   84   460.2   339.4   45   271.9   212.4   05   319.1   249.3   65   366.4   286.3   255   414.5   323.8   86   461.8   360.8   46   272.7   213.0   06   319.9   250.0   66   367.2   286.9   26   414.5   323.8   86   461.8   360.8   47   273.4   213.6   07   320.7   250.6   67   368.0   287.5   27   415.3   324.5   87   462.6   361.4   48   274.2   214.3   08   321.2   254.7   253.7   72   371.9   290.6   32   418.4   32.7   59   466.5   364.9   48   277.4   216.7   12   324.7   253.7   72   371.9   290.6   32   418.4   32.5   59   466.5   364.9   49   275.0   214.9   09   322.3   251.8   69   369.6   288.7   29   416.9   325.7   89   446.1   362.6   366.4   49   276.6   216.1   411   323.9	27								275. 2			312.2			
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34   263.2   295.6   94   310.5   242.6   54   357.8   279.5   14   405.0   316.4   74   452.3   333.4   35   264.0   206.3   95   311.3   243.2   55   358.5   280.1   15   405.8   317.1   75   453.1   354.0   36   264.8   206.9   96   312.1   243.8   56   359.3   280.7   16   406.6   317.1   75   453.1   354.0   38   266.3   205.1   98   313.6   245.0   58   360.9   282.0   18   406.2   317.7   76   453.9   354.6   39   267.1   208.7   99   314.4   245.7   59   361.7   282.0   18   408.2   318.3   77   454.7   355.2   39   267.1   208.7   99   314.4   245.7   59   361.7   282.6   19   409.0   319.5   79   456.3   354.4   268.7   209.9   401   316.0   246.9   461   363.3   283.8   521   410.6   320.8   581   457.8   357.7   42   269.5   210.6   02   316.8   247.5   62   364.1   284.4   22   411.3   321.4   82   458.6   358.4   43   270.3   211.2   03   317.6   248.1   63   364.9   255.1   23   412.1   322.0   83   458.6   358.4   44   271.1   211.8   04   318.4   248.7   64   365.6   285.7   24   412.9   322.6   84   460.2   339.5   46   272.7   213.0   06   319.9   250.0   66   367.2   286.9   26   414.5   323.8   86   461.8   360.8   47   273.4   213.6   07   320.7   250.6   67   368.0   287.5   27   415.3   324.5   87   462.6   361.4   48   274.2   214.3   08   321.5   251.2   68   368.8   288.5   288.1   288.1   88   461.8   360.8   49   275.0   214.9   09   322.3   251.8   69   369.6   288.7   29   416.9   325.7   89   464.1   362.6   49   275.0   214.9   09   322.3   251.8   69   369.6   288.7   29   416.9   325.7   89   464.1   362.6   50   275.8   215.5   10   323.7   256.1   76   375.5   291.2   38   349.0   328.8   89   446.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.8   368.		261.6				241.3			278.3						
35         264.0         206.3         95         311.3         243.2         55         358.5         280.1         15         405.8         317.1         75         453.1         334.6         264.8         206.9         96         312.1         243.8         56         359.3         280.7         16         406.6         317.7         76         453.9         334.6         243.2         265.6         207.5         97         312.8         244.4         57         360.1         281.4         17         407.4         318.3         77         454.7         355.2         382.0         261.2         208.2         18         408.2         318.9         78         455.5         355.3         36.4         40.267.9         209.3         400         315.2         246.3         60         362.5         283.2         20         409.0         319.5         79         456.3         353.3         364.1         402.1         409.0         310.2         246.3         60         362.5         283.2         20         409.8         320.2         80         457.1         357.1         357.1         342.2         409.8         320.2         80         457.1         357.1         357.2         342.2															
36         264.8         266.9         96         312.1         243.8         56         359.3         280.7         16         466.6         317.7         76         453.9         354.4         27         360.1         281.4         17         407.4         318.3         77         764.4         457.3         360.1         281.4         17         407.4         318.3         77         454.7         355.5         355.2         38         266.3         308.1         98         313.6         245.0         58         360.9         922.0         18         408.2         318.9         78         455.5         355.8           39         267.1         208.8         79         9314.4         245.7         59         361.7         282.6         19         409.0         319.5         79         456.3         355.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         357.1         337.2         357.2												316. 4	74		353.4
$\begin{array}{c} 437 \\ 285.6 \\ 6 \\ 207.5 \\ 9 \\ 9 \\ 312.8 \\ 244.4 \\ 245.7 \\ 59 \\ 361.7 \\ 282.0 \\ 18 \\ 360.9 \\ 282.0 \\ 18 \\ 360.9 \\ 282.0 \\ 18 \\ 40.2 \\ 261.7 \\ 209.0 \\ 400.8 \\ 318.3 \\ 267.1 \\ 208.7 \\ 209.9 \\ 401 \\ 316.0 \\ 315.2 \\ 246.3 \\ 60 \\ 361.7 \\ 282.6 \\ 60 \\ 361.7 \\ 282.0 \\ 19 \\ 361.7 \\ 282.0 \\ 19 \\ 400.0 \\ 319.5 \\ 79 \\ 408.8 \\ 320.2 \\ 80 \\ 400.8 \\ 313.6 \\ 315.2 \\ 246.3 \\ 60 \\ 361.7 \\ 326.5 \\ 246.3 \\ 60 \\ 361.7 \\ 282.0 \\ 361.7 \\ 282.0 \\ 19 \\ 400.0 \\ 319.5 \\ 79 \\ 400.0 \\ 319.5 \\ 79 \\ 456.3 \\ 356.4 \\ 40.2 \\ 267.9 \\ 401.3 \\ 319.5 \\ 246.3 \\ 60 \\ 361.7 \\ 282.0 \\ 320.0 \\ 310.2 \\ 320.0 \\ 310.0 \\ 316.8 \\ 247.5 \\ 62 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.7 \\ 361.$					311.3							317.1			
$\begin{array}{c} 38 \\ 266.3 \\ 208.1 \\ 208.7 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.3 \\ 209.4 \\ 209.3 \\ 20$					212.1										
$\begin{array}{c} 39 \\ 40 \\ 267.9 \\ 209.3 \\ 400 \\ 315.0 \\ 341.4 \\ 245.7 \\ 246.3 \\ 60 \\ 362.5 \\ 283.2 \\ 20 \\ 400 \\ 80.8 \\ 283.2 \\ 20 \\ 409.8 \\ 320.2 \\ 80 \\ 80 \\ 457.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 357.1 \\ 3$	20				212.6	215.0			201.4						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															
$\begin{array}{c} 42 \\ 269.5 \\ 210.6 \\ 200.3 \\ 211.2 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.3 \\ 211.2 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 211.3 \\ 21$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	42		210.0		310.8	247.0		261 0	985 1		411.0	200 0		150 1	950 0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			911 8							9.1	419 0	399 R			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			919 1			249 3					412.9				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		272. 7				250. 0									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					321.5					28				463.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		275. 0	214.9		322.3	251.8			288. 7	29		325. 7			362.6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															363. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
53     278.2     217.3     13     325.5     254.8     73     372.7     291.2     33     420.0     328.2     93     467.3     305.1       54     279.0     218.0     14     326.2     254.9     74     373.5     291.8     34     420.8     328.8     94     468.1     365.7       55     279.7     218.6     15     327.0     255.5     75     374.3     292.4     35     421.6     329.4     95     468.9     366.3       56     280.5     219.2     16     327.8     256.1     76     375.1     293.7     36     422.4     330.0     96     469.7     366.3       57     281.3     219.8     17     328.6     256.7     7     375.9     293.7     37     423.2     330.0     96     469.7     368.1       58     282.1     220.4     18     329.4     257.4     78     376.7     294.3     38     424.0     331.2     98     471.2     368.1       59     282.9     221.0     19     330.2     258.6     79     377.5     294.9     39     424.7     331.8     99     472.0     368.7       60     283.7			216.7												
54   279. 0   218. 0   14   326. 2   254. 9   74   373. 5   291. 8   34   420. 8   328. 8   94   468. 1   365. 7   55   279. 7   218. 6   15   327. 0   235. 5   75   374. 3   292. 4   35   420. 4   329. 4   95   468. 9   366. 3   56   280. 5   219. 2   16   327. 8   256. 1   76   375. 1   293. 1   36   422. 4   330. 0   96   469. 7   366. 9   57   281. 3   219. 8   17   238. 6   236. 7   77   375. 9   283. 7   37   423. 2   330. 6   97   470. 5   367. 5   282. 1   220. 4   18   329. 4   257. 4   78   376. 7   294. 3   38   424. 0   331. 2   98   471. 2   368. 1   59   282. 9   221. 0   19   330. 2   258. 0   79   377. 5   294. 9   39   424. 7   331. 8   99   472. 0   368. 7   60   283. 7   221. 6   20   331. 0   258. 6   80   378. 2   295. 5   40   425. 5   332. 5   600   472. 8   369. 4   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483. 1   483							73	372.7							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								373.5				328.8			365.7
56     280.5     219.2     16     327.8     256.1     76     375.1     293.7     36     422.4     330.0     96     469.7     366.5       57     281.3     219.8     17     328.6     256.7     77     375.9     293.7     37     423.2     330.6     97     470.5     367.5       58     282.1     220.4     18     329.4     237.4     78     376.7     294.3     38     424.0     331.2     98     471.2     368.1       59     282.9     221.0     19     330.2     258.6     80     378.2     295.5     40     425.5     332.5     600     472.8     369.4       60     283.7     221.6     20     331.0     258.6     80     378.2     295.5     40     425.5     332.5     600     472.8     369.4       Dist.     Dep.     Lat.	55		218.6		327.0	255.5		374.3	292.4		421.6		95		366.3
57     281.3     219.8     17     328.6     256.7     77     375.9     293.7     37     423.2     330.6     97     470.5     367.5       58     282.1     220.4     18     329.4     257.4     78     376.7     294.3     38     424.0     331.2     98     471.2     368.1       59     282.9     221.0     19     330.2     258.6     79     377.5     294.9     39     424.7     331.2     98     471.2     368.7       60     283.7     221.6     20     331.0     258.6     80     378.2     295.5     40     425.5     332.5     600     472.8     369.4       Dist.     Dep.     Lat.	56	280.5	219, 2	16	327.8	256, 1	76	375.1	293, 1		422, 4	330.0	96		366.9
58     282.1     220.4     18     329.4     257.4     78     376.7     294.9     38     424.0     331.2     98     471.2     388.7       59     282.9     221.0     19     330.2     258.0     79     377.5     294.9     39     424.7     331.8     99     472.0     388.7       60     283.7     221.6     20     331.0     258.6     80     378.2     295.5     40     425.5     332.5     600     472.8     369.4       Dist.     Dep.     Lat.	57	281.3	219.8	17	328.6	256.7	77	375.9	293.7	37	423.2	330.6		470.5	367.5
59     282.9     221.0     19     330.2     258.0     79     377.5     294.9     39     424.7     331.8     99     472.0     368.7       60     283.7     221.6     20     331.0     258.6     80     378.2     295.5     40     425.5     332.5     600     472.8     369.4       Dist.     Dep.     Lat.		282.1	220.4					376.7	294.3	38			98	471.2	368.1
Dist. Dep. Lat.								377.5			424.7			472.0	368.7
	60	283.7	221.6	20	331.0	258.6	80	378.2	295, 5	40	425.5	332.5	600	472, 8	369.4
			1										l		
52° (128°, 232°, 308°).	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep:	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
							52° (1	128°, 239	2°. 308°	).					

TABLE 2.

Difference of Latitud and Departure for 39° (141°, 219°, 321°).

												_		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0, 8	0.6	61	47.4	38.4	121	94, 0	76. 1	181	140.7	113. 9	241	187.3	151.7
	1, 6	1.3	62	48. 2	39. 0	22	94.8	76. 8	82	141.4	114.5	42	188. 1	152.3
3	2. 3	1.9	63	49. 0	39. 6	23	95, 6	77.4	83	142. 2	115. 2	43	188.8	152.9
4	3. 1	2.5	64	49. 7	40.3	24	96. 4	78. 0	84	143. 0	115. 8	44	189. 6	153.6
5	3. 9	3. 1	65	50. 5	40. 9	25	97. 1	78. 7	85	143. 8	116. 4	45	190. 4	154. 2
6	4.7	3.8	66	51. 3	41.5	26	97. 9	79. 3	86	144.5	117. 1	46	191. 2	154. 8
7	5. 4	4.4	67	52. 1	42. 2	27	98. 7	79. 9	87	145.3	117.7	47	192. 0	155. 4
8	6. 2	5.0	68	52. 8	42. S	28	99, 5	80, 6	88	146. 1	118.3	48	192. 7	156.1
9	7. 0	5. 7	69	53. 6	43. 4	29	100, 3	81. 2	89	146. 9	118.9	49	193. 5	156.7
10	7.8	6.3	70	54. 4	44. 1	30	101.0	81.8	90	147. 7	119, 6	50	194.3	157.3
11	8.5		71	55. 2	44. 7	131	101.8		191					
12		6. 9	72	56, 0	45.3	32	101. 8	82. 4 83. 1	92	148. 4	120. 2	251 52	195. 1	158. 0
13	9.3 10.1	7. 6 8. 2	73	56. 7	45, 9	33	103. 4	83. 7	93	149.2	120.8 121.5	53	195, 8	158. 6 159. 2
		0.2								150.0			196. 6	
14 15	10. 9 11. 7	8. 8 9, 4	74 75	57. 5 58. 3	46.6	34 35	104. 1 104. 9	84. 3 85. 0	94 95	150. 8 151. 5	122. 1 122. 7	54 55	197. 4	159.8
16			76	59.1	47. 2 47. 8	36			96			56	198. 2	160.5
17	12. 4 13. 2	10.1	40		48.5	37	105. 7	85.6	97	152.3	123. 3		198.9	161.1
18		10.7	77	59, 8 60, 6	49. 1	38	106. 5 107. 2	86. 2 86. 8	98	153. 1	124. 0	57 58	199.7	161.7 162.4
19	14.0	11.3 12.0	79	61.4	49, 7	39	108. 0		99	153.9	124. 6 125. 2	59	200.5	163. 0
20	14.8		80	62. 2				87.5		154.7		60	201.3	
	$-\frac{15.5}{16.0}$	12.6			50.3	40	108.8	88.1	200	155. 4	125.9	-	202. 1	163.6
21	16. 3	13. 2	81	62. 9	51.0	141	109.6	88.7	201	156. 2	126. 5	261	202, 8	164. 3
22	17.1	13.8	82	63. 7	51.6	42	110.4	89.4	02	157.0	127. 1	62	203.6	164.9
23	17. 9	14.5	83	64. 5	52.2	43	111.1	90.0	-03	157.8	127.8	63	204. 4	165. 5
24	18.7	15. 1	84	65. 3	52.9	44	111.9	90, 6	04	. 158.5	128.4	64	205. 2	166.1
25	19, 4	15. 7	85	66. 1	53, 5	45	112.7	91.3	05	159.3	129, 0	65	205. 9	166.8
26	20. 2	16, 4	86	66. 8	54.1	46	113.5	91.9	06	160.1	129, 6	66	206. 7	167.4
27	21.0	17.0	87	67.6	54.8	47	114. 2	92, 5	07	160. 9	130. 3	67	207. 5	168.0
28 29	21.8	17.6	88	68. 4	55.4	48	115.0	93. 1	08	161.6	130, 9	68	208.3	168.7
30	22. 5	18.3	89	69. 2	56, 0	49	115.8	93. 8	09	162.4	131.5	69	209.1	169. 3
	23, 3	18, 9	90	_69, 9	56, 6	50	116. 6	94.4	_10_	163. 2	132, 2	70	209, 8	169, 9
31	24. 1	19, 5	91	70. 7	57.3	151	117.3	95, 0	211	164.0	132, 8	271	210, 6	170.5
32	24. 9	20, 1	92	71.5	57. 9	52	118, 1	95.7	12	164.8	133. 4	72	211.4	171. 2
33	25, 6	20, 8	93	72.3	58, 5	53	118.9	96, 3	13	165, 5	134. 0	73	212. 2	171.8
34	26, 4	21.4	91	73. 1	59, 2	51	119.7	96, 9	14	166, 3	134.7	7.4	212.9	172.4
35	27. 2	22, 0	95	73. S	59, 8	55	120, 5	97.5	15	167. 1	135, 3	7.5	213.7	173, 1
36	28.0	22. 7	96	74.6	60, 4	56	121. 2	98, 2	16	167. 9	135. 9	76	214.5	173. 7
37	28, 8	23, 3	97	75. 4	61.0	57	122.0	98.8	17	168.6	136, 6	77	215.3	174.3
35	29, 5	23, 9	98	76, 2	61.7	58	122. \$	99.4	18	169. 4	137. 2	75	216.0	175.0
39 40	30, 3	24. 5	99	76. 9	62. 3	59	123. 6	100.1	19	170. 2	137. 8	79	216.8	175. 6
	31.1	25, 2	100	77.7	62.9	60	124. 3	100.7	_20	171.0	138.5	80	217. 6	176, 2
41	31. 9	25, 8	101	78, 5	63, 6	161		101.3	221	171.7	139. 1	281	218, 4	176.8
42	32, 6	26, 4	02	79.3	64, 2	62	125, 9	101.9	22	172.5	139. 7	82	219. 2	177.5
43	33.4	27. 1	03	80.0	64. 8	63	126, 7	102.6	23	173, 3	140.3	83	219, 9	178.1
44	34. 2	27.7	04	80, 8	65, 4	61	127. 5	103. 2	24 25	174.1	141.0	84	220. 7	178.7
45	35, 0	24, 3	0.5	81.6	66, 1	65	128. 2	103. 8		174. 9	141.6	85	221.5	179.4
46	35. 7	28, 9	06	82.4	66, 7	665	129, 0	104.5	26	175, 6	142. 2	86	222. 3 223. 0	180, 0
47	36. 5	29, 6	07	83. 2	67. 3	67	129, 8	105. 1	27 28	176. 4	142.9	87	223, 0	180, 6
48	37. 3 38. I	30. 2	08 09	83, 9 84, 7	68, 0 68, 6	68 69	130, 6	105.7	28	177. 2	143.5	88 89	223, 8	181. 2 181. 9
50	38, 1	30, 8 31, 5	10	84. 7 85. 5	69, 2	70	131.3	106.4	30	178.0	141. 1 144. 7	90	225, 4	
			-				132. I	107.0		178.7		1		182.5
51	39, 6	32. 1	111	86, 3	69, 9	171	132. 9	107, 6	231	179.5	145. 4	291	226. 1	183, 1
52	40. 1	32. 7	12	87.0	70.5	72	133, 7	108. 2	32	180. 3	146. 0	92	226, 9	183, 8
53	41.2	33. 4	13	87.8	71.1	73 74	134.4	108, 9	- 33	181.1	146. 6	93	227.7	184. 4
54	42.0	34.0	14	88, 6	71.7	75	135, 2	109.5	34	181. 9	147.3	94	228, 5 229, 3	185.0
55	42.7	31.6	15 16	89, 4	72.4		136, 0	110.1	35	182.6	147.9	95 96		185. 6
56	43, 5	35, 2		90, 1	73.0	76	136, 8	110, 8	36	183.4	148.5		230, 0	186, 3
57	44.3	35, 9	17	90, 9	73.6	177	137. 6	111.4	37	184. 2	149.1	97	230. S	186, 9
58	45, 1	36, 5	18	91.7	74.3	1.75	138.3	112.0	38	185.0	149. 8	99	231.6	157.5
- 59 - 60	45, 9	.37. 1	19 20	92, 5 93, 3	74.9	79	139, 1	112.6	39 40	185, 7 186, 5	150, 4	300	232. 4 233. I	188, 2 188, 8
nu	46, 6	37.8	20	150.00	75, 5	1 "	1509, 31	113, 3	40	120.0	151.0	200	400.1	133.3
101-	Dep.	Lat	Dist.	Ti -	Lat.	Dest	1	1	Dist	Dep	Lat	Dist	14	1
Dilei	pep.	Lat	I Past.	Dep.	1.41,	L Dest	11. 11	Lat.	Dist	19-19	1.01	Dist	Dep.	Lat.
1						511 6	1292, 23	11. 309						
								1 2 121777						

51' (129', 231', 309').

TABLE 2.

[Page 609

Difference of Latitude and Departure for 39° (141°, 219°, 321°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
								201.0		000.0	202.2		120 1	210 1
301	233. 9	189.4	361	280.6	227.1	421	327. 2	264. 9	481	373.8	302.6	541	420.4	340.4
02	234. 7	190.0	62	281.3	227.8	22 23	328. 0	265.5	82	374.6 375.4	303. 3	42	421. 2	341.0
- 03	235.5	190.6	63	282. 1	228.4	23	328.7	266.2	83	375.4	303.9	43	$422.0 \\ 422.7$	341.7
04	236. 3	191.3	64	282, 9	229.0	24	329.5	266.8	84	376.1	304.5	44	422.7	342.3
05	237. 0	191.9	65	283.7	229.7	25	330.3	267.4	85	376.9	305. 2	45	423.5	342. 9
-06	237.8	192, 5	66	284.4	230.3	26	331.1	268.0	86	377.7	305.8	46	424.3	343.6
07	238.6	193. 2	67	285.2	230.9	27	331.9	268.7	87	378.5	306.4	47	425.1	344.2
08	239. 4	193. 8	68	286.0	231.5	28	332.6	269.3	88	379.3	307.1	48	425. 9	344.8
09	240, 1	194. 4	69	286.8	232. 2	29	333.4	269.9	89	380.0	307.7	49	426.6	345.5
10	240.9	195.0	70	287.6	232. 8	30	334. 2	270.6	90	.380. 8	308.3	50	427.4	346.1
311	241.7	195.7	371	288.3	233. 4	431	335, 0	271. 2	491	381.6	308. 9	551	428. 2	346.7
12	242.5	196. 3	571	289. 1	234. 1	32	335.7	271.8	92	382. 4	309.6	52	429. 0	347.4
13			72 73	289. 9	234. 7	33	336.5	272.5	93	383. 1	310. 2	53	429.7	348.0
	243.3	196. 9	42			34		273. 1	94	383. 9	310. 8	54	430. 5	348.6
14	244.0	197.6	74	290.7	235.3 236.0	35	337.3	273. 7	95	384.7	311.5	55	431.3	349. 2
15	244.8	198.2	75	291.4	236. 6		338.1 338.8	274. 3	96	385.5	312.1	56	120 1	349. 9
16	245.6	198.8	76	292. 2	200.0	36		275. 0	97	200.0	910.7	57	432.1 432.8	350.5
17	246, 4	199.5	77	293.0	237. 2	37	339.6			386.2	312.7		100 0	
18	247.1	200.1	78	293.8	237.8	38	340.4	275.6	98	387.0	313.3	58	433.6	351.1
19	247. 9	200.7	79	294.5	238.5	39	341.2	276. 2	99	387.8	314.0	59	434. 4	351.7
20	248.7	201.3	80	295.3	239.1	40	342.0	276. 9	500	388.6	314.7	60	435, 2	352.4
321	249.5	202.0	381	296.1	239.7	441	342.7	277.5	501	389.4	315.3	561	435. 9	353. 0
22 23	250.3	202.6	82	296.9	240.4	42	343.5	278. 1	02	390.1	315.9	62	436.7	353.6
23	251.0	203. 2	83	297.7	241.0	43	344.3	278.7	- 03	390.9	316.5	63	437.5	354.3
24	251.8	203.9	84	298.4	241.6	44	345.1	279.4	04	391.7	317.1	64	438.3	354.9
24 25	252.6	204.5	85	299. 2	242. 2	45	345.8	280.0	05	392.5	317.8	65	439.1	355.5
26	253.4	205.1	86	300.0	242.9	46	346.6	280.6	-06	393. 2	318.4	66	439.8	356.2
27	254.1	205.7	87	300.8	243.5	47	347.4	281.3	07	394.0	319.0	67	440, 6	356. 8
28	254.9	206.4	88	301.5	244.1	48	348.2	281.9	08	394.8	319.6	68	441.4	357.4
29	255. 7	207.0	89	302.3	244.8	49	349.0	282.5	- 09	395.6	320.3	69	442.2	358.1
30	256, 5	207.6	90	303. 1	245.4	50	349.7	283. 2	10	396. 3	320.9	70	443.0	358.7
331	257. 2	208.3	391	303.9	246.0	451	350, 5	283. 8	511	397.1	321.6	571	443.7	359.3
32	258.0	208. 9	92	304.7	246. 7	52	351.3	284.4	1 12	397.9	299 9	72	444.5	359. 9
33	258.8	209.5	93	305. 4	247. 3	53	359 1	285. 0	13	398.7	322. 2 322. 8	73 74 75	445.3	360.6
34	259, 6	210. 2	94	306.2	247. 9	54	352. 1 352. 8	285.7	14	399. 4	323. 4	71	446.1	361.2
35	260. 4	210.8	95	307.0	248.5	55	353.6	286. 3	15	400.2	324. 1	75	446. 9	361.8
36	261.1	211. 4	96	307.8	249. 2	56	354.4	286. 9	16	401.0	324.7	76	447.6	362, 4
37	261. 9	212. 0	97	308.5	249.8	57	355.2	287.6	17	401.8	325.3	77	448.4	363. 1
38	929 7	212.7	98	309.3	250.4	58	355.9	288. 2	18	402.5	325. 9	78	449. 2	363. 7
39	262. 7 263. 5	213. 3	99	310.1	251.1	59	356.7	288.8	19	403.3	326.6	79	450.0	364.3
40	264. 2	213. 9	400	310. 9	251.7	60	357.5	289. 4	20	404.1	327. 2	80	450.7	365.0
341	265, 0	214.6	401	311.6	252. 3	461	358.3	290. 1	521	404.9	327. 8	581	451.5	365. 6
42	265, S	215. 2	02	312. 4 313. 2	252. 9 253. 6	62	359.1	290. 7	22	405.7	328.5	82	452, 3 453, 1	366.2
43	266, 6	215.8	03	313.2	253.6	63	359.8	291.3	23	406.4	329. 1	83	403.1	366. 9
44	267.3	216.4	04	314.0	254. 2	64	360.6	292.0	24	407.2	329. 7	84	453.9	367.5
45	268. I	217.1	05	314.8	254.8	65	361.4	292.6	25	408.0	330.4	85	454.6	368.1
46	268.9	217. 7	06	315.5	255. 5	66	362. 2	293. 2	26	408.8	331.0	86	455.4	368. 8
47	269.7	218.3	07	316.3	256. 1	67	362. 9 363. 7	293. 8	27	409.5	331.6	87	456.2	369.4
48	270.5	219.0	08	316. 3 317. 1 317. 9	256.7	68	363.7	294.5	28	410.3	332.3	88	457.0	370.0
49	271. 2	219.6	09	317.9	257.3	69	364.5	295. 1	. 29	411.1	332. 9	89	457.8	370.6
50	272.0	220, 2	10	318.6	258.0	_70_	365.3	295.7	30	411.9	333. 5	90	458.5	371.3
351	272.8	220.8	411	319.4	258.6	471	366.0	296.4	531	412.6	334. 1	591	459.3	371.9
52	273.6	221.5	12	320, 2	259, 2	72	366. S	297.0	-32	413.4	334.8	92	460.1	372.5
53	274.3	222, 1	13	321.0	259. 9	7.0	367.6	297.6	33	414. 2	335.4	93	460.9	373.2
54	275, 1	222.7	14	321.8	260 5	74	368.4	298.3	34	415.0	336. 1	94	461.6	373.8
55	275.9	223.4	15	322.5	261.1	75	369. 2	298. 9	35	415.8	336. 7	95	462.4	374.4
56	276.7	224.0	16	323. 3	261.8	76 77	369. 9	299.5	36	416.5	337.3	96	463.2	375.1
57	277.5	224.6	17	324.1	262.4	77	370.7	300.1	37	417.3	337. 9	97	464.0	375. 7
58	278.2	225.3	18	324. 9	263.0	78	371.5	300. S	38	418, 1	338.5	98	464.8	376.3
59	279.0	225.9	19	325.6	263, 6	79	372.3	301.4	39	418, 9	339.1	99	465.5	376.9
60	279.8	226.5	20	326.4	264.3	80	373.0	302.0	40	419.6	339. 8	600	466.3	377.6
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
						*10 /*	200 203	0.0000			·			
						o1" (1	29°, 231	~, 309°	).					

# Page 610]

TABLE 2.

Difference of Latitude and Departure for 40° (140°, 220°, 320°).

L							- opure		10 (1		, 020	,.		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	0.8	0.6	61	46.7	39, 2	121	92.7	77.8	181	138.7	116.3	241	184.6	154. 9
2	1.5	1.3	62	47.5	39. 9	22	93.5	78.4	82	139, 4	117.0	42	185. 4	155.6
3	2.3 3.1	1.9	63	48.3	40, 5	23	94. 2	79.1	83	140. 2	117.6	43	186.1	156. 2
4	3.1	2, 6	64	49.0	41.1	24	95.0	79.7	84	141.0	118.3	44	186. 9	156. 8
- 5	3, 8	3. 2	65	49.8	41.8	25	95.8	80.3	85	141.7	118.9	45	187.7	157.5
- 6	4.6	3.9	66	50.6	42.4	26	96.5	81.0	86	142.5	119.6	46	188, 4	158.1
7	5.4	4.5	67	51.3	43.1	27	97.3	81.6	87	143.3	120, 2	47	189. 2	158.8
- 8	6, 1	5.1	68	52.1	43.7	28	98. 1	82.3	88	144.0	120.8	48	190.0	159.4
- 9	6.9	5.8	69	52.9	44, 4	29	98.8	82.9	89	144.8	121.5	49	190.7	160.1
10	7.7	6.4	70	53.6	45, 0	30	99.6	83.6	90	145.5	122.1	50	191.5	160.7
11	8.4		71	54.4	45, 6	131	100.4	84. 2	191	146, 3	122. 8	251	192.3	161.3
12	9. 2	7. 1	$\frac{71}{72}$	55, 2	46.3	32	101.1	84. 8	92	147. 1	123. 4	52	193, 0	162.0
13	10.0	8.4	73	55. 9	46. 9	33	101.9	85, 5	93	147.8	124. 1	53	193, 8	162, 6
14	10.7	9,0	74	56, 7	47.6	34	102. 6	86. 1	94	148.6	124. 7	54	194.6	163, 3
15	11,5	9, 6	75	57, 5	48.2	35	103.4	86, 8	95	149, 4	125. 3	55	195.3	163, 9
16	12.3	10.3	76	58, 2	48.9	36	104. 2	87.4	96	150.1	126.0	56	196, 1	164. 6
17	13.0	10.9	77	59. 0	49.5	37	104. 9	88. 1	97	150. 9	126, 6	57	196. 9	165, 2
18	13.8	11.6	78	59. S	50. 1	38	105. 7	88.7	98	151.7	127, 3	58	197.6	165, 8
19	14, 6	12, 2	79	60.5	50.8	39	106.5	89.3	99	152. 4	127. 9	59	198, 4	166, 5
20	15.3	12.9	80	61.3	51.4	40	107. 2	90.0	200	153. 2	128. 6	60	199, 2	167. 1
					52.1									
21 22	16. 1	13. 5	81	62.0		141	108.0	90.6	201 02	154.0	129. 2	261	199, 9	167.8
23	16.9 17.6	14. 1	82	62.8	52. 7 53. 4	42	108.8	91.3		154.7	129. 8 130. 5	62	200. 7 201. 5	168. 4 169. 1
23	18. 4		- 83	63. 6 64. 3	54.0	43 44		91.9 92.6	03	155.5		63 64	201.5	169. 1
25		15.4	84				110.3		04	156.3	131.1			
20	19.2	16. 1	85	65. 1	54.6	45	111.1	93. 2	05	157.0	131.8	65	203.0	170.3
26 27	19, 9	16.7	86	65, 9	55.3	46	111.8	93, 8	- 06	157.8	132.4	66	203.8	171.0
	20.7	17.4	87	66, 6	55.9	47	112.6	94.5	07	158.6	133. 1	67	204.5	171.6
28	21.4	18.0	88	67.4	56, 6	48	113.4	95.1	08	159.3	133. 7	68	205.3	172.3
29	22, 2	18, 6	89	68. 2	57. 2	49	114.1	95.8	09	160.1	134. 3	69	206. 1	172.9 173.6
_30	_23, 0	19, 3	90	68, 9	57.9	50	114.9	96.4	_10_	160. 9	135. 0	70	206, 8	
31	23. 7	19. 9	91	69. 7	58, 5	151	115. 7	97. 1	211	161.6	135. 6	271	207.6	174. 2
32	24.5	20.6	92	70.5	59. 1	52	116.4	97.7	12	162. 4 163, 2	136. 3	72 73	208.4	174.8
- 33	25.3	21.2	93	71.2	59.8	53	117.2	98.3	13	163, 2	136. 9	73	209. 1	175.5
34	26.0	21.9	94	72.0	60, 4	54	118.0	99, 0	14	163.9	137.6	74	209, 9	176.1
35	26.8	22.5	95	72.8	61.1	55	118.7	99.6	15	164.7	138. 2	75	210, 7	176.8
36	27.6	23. 1	96	73. 5	61.7	56	119.5	100.3	16	165.5	138.8	76	211.4	177.4
37	28.3	23.8	97	74.3	62.4	57	120.3	100.9	17	$166.2 \\ 167.0$	139.5	77	212. 2 213. 0	178.1
38	29.1	24.4	98	75. 1	63, 0	58	121.0	101.6	18	167.0	140. 1	78	213.0	178.7
39	29, 9	25.1	99	75.8	63.6	59	121.8	102. 2	19	167.8	140.8	79	213.7	179.3
40	30, 6	25, 7	100	76.6	64.3	_60	122. 6	102.8	_ 20_	168.5	141.4	80	214.5	180, 0
41	31.4	26.4	101	77.4	64. 9	161	123. 3	103.5	221	169.3	142.1	281	215.3	180, 6
42	32, 2	27.0	02	78. 1	65, 6	62	124.1	104.1	22	170.1	142. 7	82	216, 0	181. 3
43	32.9	27.6	-03	78.9	66, 2	-63	124. 9	104.8	23	170, 8	143, 3	-83	216, 8	181.9
44	33, 7	28, 3	-04	79.7	66, 8	64	125. 6	105, 4	24	171. 6	144.0	84	217.6	182.6
45	34.5	28, 9	-05	80.4	67, 5	65	126.4	106, 1	25	172. 4 173. 1	144. 6	85	218.3	183, 2
46	35. 2	29, 6	-06	81.2	68. 1	-66	127.2	106, 7	26	173. 1	145. 3	86	219. 1	183, 8
47	36, 0	30. 2	-07	82.0	68, 8	67	127.9	107.3	27	173. 9	145. 9	87	219, 9	184.5
48	36, 8	30.9	-08	82.7	69. 4	-68	128. 7	108.0	28	174.7	146.6	-88	220. 6	185, 1
49	37.5	31.5	-09	83, 5	70, 1	- 69	129.5	108, 6	29	175.4	147. 2	89	221.4	185, 8
50	38, 3	32. 1	10	84.3	70.7	. 70	130. 2	109.3	30	176.2	147. 8	- 90	222. 2	186. 4
51	39. 1	32.8	111	85. 0	71.3	171	131.0	109, 9	231	177.0	148.5	291	222. 9	187. 1
52	39. 8	33, 4	12	85, 8	72.0	72 73 74	131, s	110, 6	32	177.7	149. 1	- 92	223. 7	187. 7
-53	40, 6	34, 1	13	86, 6	72. 6 73. 3	73	132. 5 133. 3	111.2	- 33	178.5	149, 8	- 93	224.5	188, 3
54	41.4	34, 7	14	87.3	73, 3	7.4	133. 3	111.8	34	179.3	150.4	94	225.2	189. 0
55	42.1	35, 4	15	88, 1	73, 9	75	134. 1	112.5	35	180.0	151.1	- 95	226, 0	189.6
56	42.9	36, 0	16	88, 9	74.6	76	134. S	113. 1	36	180. 8	151.7	- 96	226. 7	190.3
57	43. 7	36, 6	17	89, 6	75. 2	77	135, 6	113.8	37	181.6	152.3	97	227.5	190. 9
58	44.4	37.3	18	90.4	75, 8	78	136, 4	114.4	38	182. 3	153.0	98	228.3	191, 6
59	45. 2	37. 9	19	91.2	76.5	79	137. 1	115, 1	39	183, 1	153.6	- 99	229.0	192. 2
60	46.0	38, 6	20	91.9	77.1	80	137.9	115.7	40	183. 9	154.3	300	229.8	192.8
Dist.	Dep.	Lat.	Inst.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat	Dist.	Dep.	Lat.
	2.41			* - 1										
1						50° (1	30°, 230	°. 310°	).					

50° (130°, 230°, 310°).

[Page 611

#### TABLE 2.

Difference of Latitude and Departure for 40° (140°, 220°, 320°).

J			ошеге	ence or	Lautud	е апа	терапи	ire for	40. (1	40, 220	, 520	).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	230. 6	193. 5	361	276.5	232, 1	421	322, 5	270, 6	481	368.5	309. 2	541	414.4	347.7
02	231.3	194.1	62	277.3	232.7	22	323. 3	271.3	82	369. 2	309.8	42	415.2	348.4
03	232. 1 232. 9	194.8	63	278.1	233.3	23	324.0	271.9	83	370.0	310.5	43	416.0	349.0
04	232.9	195.4	64	278.8	234.0	24	324.8	272.6	84	370.8	311.1	44	416, 7	349.7
05	233.6	196.1	65	279.6	234.6	25	325.6	273.2	85	371.5	311.7	45	417.5	350.3
- 06	234.4	196.7	- 66	280, 4	235, 3	26	326. 3	273.8	86	372.3	312.4	46	418.3	351.0
07	235. 2	197. 3	67	281.1	235.9	27	327, 1	274.5	87	373.1	313.0	47	419.0	351.6
08	235.9	198.0	68	281. 9	236. 6	28	327.9	275.1	88	373.8	313.6	48	419.8	352, 2 352, 9
09	236. 7	198.6	69	282. 7 283. 4	237. 2	29 30	328, 6 329, 4	$275.8 \\ 276.4$	89 90	374.6 375.4	314.3 314.9	49 50	420.6 421.3	353.5
10	$\frac{237.5}{238.2}$	199.3	70		237. 8			277. 1	491	376, 1	315, 6		422. 1	354. 2
311	238.2 $239.0$	199, 9 200, 6	371	284. 2 285. 0	238, 5 239, 1	431 32	330, 2 330, 9	277. 7	92	376. 9	316. 2	52	422.9	354.8
12 13	239. 0	201. 2	72 73	285.7	239. 7	33	331.7	278.3	93	377.7	316. 9	53	423.6	355, 5
14	240.5	201. 8	74	286. 5	240.4	34	332, 5	279, 0	94	378.4	317.5	54	424.4	356.1
15	241.3	202.5	75	287.3	241.0	35	333, 2	279.6	95	379. 2	318.2	55	425, 2	356.8
16	242.1	203.1	76	288.0	241.7	36	334. 0	280.3	96	380.0	318.8	56	425.9	357.4
17	242.8	203.8	77	288.8	242.3	37	334. 8	280.9	97	380.7	319.5	57	426.7	358, 0
18	243.6	204.4	78	289.6	243.0	38	335, 5	281.6	98	381.5	320.1	58	427.5	358.7
19	244.4	205.1	79	290.3	243, 6	39	336. 3	282.2	99	382.3	320.8	59	428, 2	359.3
20	245.1	205.7	80	291.1	244.3	40	337. 1	282.8	500	383.0	321.4	_60	429, 0	360.0
321	245.9	206.3	381	291.9	244.9	441	337.8	283.5	501	383.8	322.0	561	429.8	360. 6
22 23	246.7	207.0	82	292.6	245. 6	42	338.6	284.1	02	384.6	322.7	62	430.5	361. 2
23	247.4	207.6	83	293. 4	246.2	43	339. 4	284.8	03	385.3	323.3	63	431.3	361. 9
$\frac{24}{25}$	248. 2	208.3	84	294. 2 294. 9	246. 8 247. 5	44	340.1	285.4 $286.0$	04	386.1	324.0 $324.6$	64 65	432. 1 432. 8	362.5 363.2
$\frac{25}{26}$	249.0 $249.7$	208. 9 209. 6	85 86	295.7	248.1	45 46	340.9 341.7	286. 7	05 06	386. 8 387. 6	325. 2	66	433.6	363. 8
97	250. 5	210. 2	87	296.5	248. 8	47	349 4	287. 3	07	388.4	325. 9	67	434.3	364.5
27 28	251.3	210. 8	88	297.2	249.4	48	342. 4 343. 2	288.0	08	389. 2	326. 5	68	435, 1	365.1
29	252.0	211.5	89	298.0	250.1	49	344.0	288.6	-09	389.9	327.1	69	435. 9	365.8
30	252.8	212.1	90	298.8	250.7	50	344.7	289.3	10	390.7	327.8	70	436.6	366.4
331	253, 6	212.8	391	299.5	251.3	451	345.5	289.9	511	391.5	328.4	571	437. 4	367.0
32	254.3	213.4	92	300.3	252.0	-52	346, 3	290.5	12	392. 2	329. 1	72	438. 2	367.7
33	255.1	214.1	93	301.1	252.6	53	347.0	291, 2	13	393. <b>0</b>	329.7	73	438.9	368.3
34	255.9	214.7	94	301.8	253.3	54	347. 8	291, 8	14	393. 8	330. 4	74	439. 7	369.0
35	256. 6	215.3	95	302.6	253.9	55	348. 6 349, 3	292. 5 293. 1	15	394.5 395.3	331. 0 331. 6	75 76	440.5 441.2	369.6 370.2
36 37	257. 4 258, 2	216. 0 216. 6	96 97	303. 4 304. 1	254.6 255.2	56 57	350. 1	293. 8	16 17	396.1	332. 3	77	442.0	370. 9
38	258. 9	217. 3	98	304.9	255. 8	58	350. 8	294. 4	18	396.8	332. 9	78	442.8	371.5
39	259.7	217. 9	99	305.7	256. 5	59	351.6	295. 0	19	397.6	333. 6	79	443.5	372.2
40	260.5	218.6	400	306.4	257.1	60	352.4	295.7	20	398.3	334. 2	80	444.3	372. 2 372. 8
341	261.2	219.2	401	307. 2	257.8	461	353.1	296.3	521	399. 1	334. 9	581	445.1	373.5
42	262.0	219.8	02	308.0	258.4	62	353.9	297.0	22	399.9	335.5	82	445.8	374.1
43	262, 8	220.5	03	308.7	259, 1	63	354. 7	297.6	23	400.6	336. 1	83	446.6	374.8
44	263.5	221.1	04	309.5	259. 7	64	355.4	298.3	24	401.4	336. 8	84	447.4	375.4
45	264.3	221.8	05	310. 2	260.3	65	356.2	298. 9 299. 5	25 26	402. 2 402. 9	337. 4	85	448. 1 448. 9	376.0
46 47	265. 1 265. 8	222.4 $223.1$	06 07	311. 0 311. 8	$\begin{vmatrix} 261.0 \\ 261.6 \end{vmatrix}$	66 67	357. 0 357. 7	300. 2	$\frac{26}{27}$	402.9	338. 7	86 87	448.9	376.7 377.3
48	266. 6	223. 7	08	312.5	262. 3	68	358.5	300. 8	28	404.5	339. 4	88	450.4	378.0
49	267.4	224.3	09	313. 3	262. 9	69	359.3	301.5	29	405. 2	340.0	89	451. 2	378.6
50	268. 1	225.0	10	314. 1	263. 6	70	360.0	302. 1	30	406.0	340. 6	90	452.0	379.2
351	268. 9	225.6	411	314.8	264. 2	471	360.8	302. 8	531	406, 8	341.3	591	452.7	379.9
52	269.6	226.3	12	315. 6	264. 8	72	361. 6	303.4	32	407.5	341.9	92	453.5	380.5
53	270.4	226, 9	13	316. 4	265.5	73	362. 3	304.0	33	408.3	342.6	93	454.3	381. 2
54	271. 2	227.6	14	317. 1 317. 9	266.1	74	363. 1	304.7	34	409.1	343. 2	94	455.0	381.8
55	271.9	228. 2	15	317.9	266. 8	75	363.9	305.3	35	409.8	343. 9	95	455.8	382.4
56	272.7	228. 8	16	318.7	267. 4	76 77	364.6	306.0	36	410.6	344, 5	96 97	456.6	383.1
57 58	273.5 274.2	229, 5 230, 1	17 18	319.4 320.2	$\begin{vmatrix} 268.1\\ 268.7 \end{vmatrix}$	77 78	365, 4 366, 2	306. 6 307. 3	37 38	411.4	345. 2 345. 8	98	457.3 458.1	383.7 384.4
59	275.0	230. 1	19	321.0	269. 3	79	366. 9	307. 9	39	412. 9	346. 4	99	458. 9	385.0
60	275.8	231. 4	20	321.7	270. 0	80	367.7	308.5	40	413.7	347. 1	600	459.6	385.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
I	'		•	·	·	•—-	·	•	•	·	·		·	

50° (130°, 230°, 310°).

TABLE 2.

Difference of Latitude and Departure for 41° (139°, 221°, 319°).

l			- THE IC	nee or 1.		· una .	- Parta				, 010	).			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
1	0.8	0.7	61	46.0	40, 0	121	91, 3	79.4	181	136, 6	118.7	241	181.9	158, 1	
2	1.5	1.3	62	46.8	40.7	20	92. 1	80.0	82	137. 4	119.4	42	182.6	158. 8	
3	2.3	2.0	63	47.5	41.3	23	92. 8	80.7	83	138, 1	120, 1	43	183.4	159, 4	
4	3, 0	2.6	64	48.3	42.0	24	93, 6	81.4	84	138.9	120.7	44	184.1	160.1	
5	3, 8	3.3	65	49. 1	42.6	25	94.3	82.0	85	139.6	121.4	45	184.9	160.7	
- 6	4.5	3.9	66	49.8	43, 3	26	95. 1	82.7	86	140.4	122.0 $122.7$	46	185.7	161.4	
7	5, 3	4.6	67	50.6	44.0	27	95, 8	83, 3	87	141.1	122.7	47	186.4	162, 0	
8	6, 0	5. 2	65	51. 3	44.6	28	96. 6	84.0	88	141. 9	123.3	48	187. 2	162.7	
10	6, 8 7, 5	5, 9 6, 6	69 70	52. 1 52. S	45, 3 45, 9	29 30	$97.4 \\ 98.1$	84. 6 85. 3	89 90	142.6 $143.4$	124,0   124,7	49 50	187. 9 188. 7	163. 4 164. 0	
$\frac{10}{11}$		7. 2		53.6	46, 6	131	98.9	85.9	191	144.1	125. 3	251	189. 4	164. 7	
12	9.1	7.9	71	54.3	47. 2	32	99.6	86, 6	92	144.9	126, 0	52	190. 2	165.3	
13	9, 8	8.5	72 73 74	55. 1	47.9	33	100.4	87.3	93	145. 7	126, 6	53	190. 9	166.0	
14	10, 6	9, 2	74	55, S	48.5	34	101. 1	87. 9	94	146. 4	127. 3	54	191. 7	166, 6	
15	11.3	9, 8	7.5	56, 6	49. 2	35	101.9	88, 6	95	147. 2	127.9	55	192.5	167.3	
16	12.1	10.5	76 77 78	57.4	49.9	- 86	102.6	89.2	96	147. 9	128.6	56	193.2	168.0	
17	12, 8	11.2	77	58, 1	50.5	37	103.4	89, 9	97	148.7	[129, 2]	57	194.0	168, 6	
18	13.6	11.8	78	58, 9	51.2	38	104.1	90, 5	98	149.4	129, 9	58	194.7	169.3	
19	14.3	12.5	79	59, 6	51.8	39	104. 9	91.2	99	150. 2	130.6	59	195.5	169. 9	
20	15.1	13. 1	-80	60.4	52.5	40	105, 7	91.8	200_	150. 9	131.2	60	196.2	170.6	
21 22	15. 8	13.8	81	61.1	53.1	141	106. 1	92, 5 93, 2	201	151.7	131. 9 132. 5	261	197.0	171.2	
23	$\frac{16, 6}{17, 4}$	14. 4 15, 1	82   83	61.9 62.6	53, 8 54, 5	42 43	107. 2 107. 9	93. 8	02	152, 5 153, 2	133. 2	62 63	197. 7 198. 5	171. 9 172. 5	
24	18.1	15. 7	84	63, 4	55. 1	44	108.7	94.5	04	154. 0	133. 8	64	199. 2	173. 2	
25	18.9	16, 4	85	64. 2	55, 8	45	109, 4	95, 1	05	151.7	134.5	65	200.0	173.9	
26	19.6	17.1	86	64. 9	56, 4	46	110.2	95, 8	-06	155, 5	135.1	66	200.8	174.5	
27	20.4	17.7	87	65, 7	57.1	47	110.9	96.4	-07	156.2	135, 8	67	201.5	175.2	
28	21.1	18.4	88	66, 4	57.7	48	111.7	97, 1	08	157, 0	136. 5	68	202.3	175.8	
29 30	21.9	19.0	89	67. 2	58.4	49	112.5	97.8	- 09	157.7	137.1	69 70	203, 0	176.5	
	$-\frac{22.6}{0.00}$	19.7	90	$\frac{-67.9}{68.7}$	59.0	$-\frac{50}{151}$	113.2	98, 4 99, 1	$\frac{10}{211}$	$\frac{158.5}{159.2}$	137. 8 138. 4		$\frac{203.8}{204.5}$	177.1	
31 32	23. 4 24. 2	20, 3 21, 0	91 92	69, 4	59. 7 60. 4	52	114. 0 114. 7	99. 7	12	160, 0	139, 1	271	204. 5	177.8 $178.4$	
33	24. 9	21.6	93	70.2	61.0	53	115.5	100.4	13	160, 8	139. 7	72 73 74	206, 0	179.1	
34	25.7	22.3	94	70.9	61.7	54	116. 2	101.0	14	161.5	140.4	74	206, 8	179.8	
35	26, 4	23, 0	95	71.7	62.3	55	117.0	101.7	15	162, 3	141.1	75	207.5	180.4	
36	27. 2	23. 6	96	72.5	63.0	56	117.7	102.3	16	163, 0	141.7	76 77 78	208.3	181.1	
37	27. 9	24.3	97	73. 2	63, 6	57	118, 5	103.0	17	163, 8	142.4	177	209. 1	181.7	
38	28.7	24. 9	98	74.0	61.3	58	119.2	103.7	18	164. 5	143.0	48	209, 8	182.4	
39	29, 4	25, 6	100	74.7	64.9	59 60	120, 0	104, 3	19	165.3	143.7	79	210.6	183.0	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
43	32, 5	28, 2	03	77. 7	67. 6	63	123. 0	106, 9	23	168.3	146.3	83	213. 6	185, 7	
44	33. 2	28, 9	- 04	78.5	68.2	64	123.8	107.6	24	169, 1	147.0	84	214.3	186, 3	
45	34.0	29.5	05	79, 2	68, 9	65	124.5	108.2	25	169, S	117.6	85	215, 1	187.0	
46	34. 7	30. 2	-06	80.0	69, 5	66	125.3	108.9	26	170, 6	148, 3	86	215, 8	187.6	
47	35, 5	30, 8	07	80, 8	70. 2	67	126, 0	109, 6	27 28	171.3	148, 9	87	216, 6 217, 4	188, 3	
48 49	36, 2 37, 0	31.5 32.1	08	81.5 82.3	70, 9 71, 5	68	126, 8 127, 5	110.2 $110.9$	28	172.1	149, 6 150, 2	88 89	218. 1	188, 9   189, 6	
50	37. 7	32. 5	10	83, 0	72.2	70	128.3	111.5	30	172. 8 173. 6	150. 9	90	218.9		
51	38, 5	33.5	111	83, 8	70 8	171	129.1	112.2	231	174. 3	151. 5	291	219.6	190, 9	
52	39, 2	31. 1	12	84.5	72. 8 73. 5	72	129, 8	112.8	32	175. 1	152. 2	92	220.4	191. 6	
53	40, 0	34. S	13	85, 3	74.1	72 73	130, 6	113.5	- 33	175, 8	152, 9	-93	221.1	192.2	
54	40, 8	4 35, 4	14	86, 0	74.8	7.1	131.3	114.2	34	176, 6	153, 5	91	221.9	192. 9	
55	11.5	36.1	15	86, 8	75, 1	75	132. 1	114.8	35	177.4	154. 2	95	222, 6 223, 4	193, 5	
56 57	42.3 43.0	36, 7	16 17	87. 5 88. 3	76. 1 76. 8	$\frac{76}{77}$	132, 8 133, 6	115, 5 116, 1	36 37	178.1 $178.9$	15 L 8 155, 5	96 97	223.4	194, 2 194, 8	
58	43, 0 43, 8	38.1	1 15	89, 1	77. 1	14	134. 3	116, 1	38	179.6	156, 1	98	224. 9	195, 5	
59	44, 5	38.7	19	89, 8	78. 1	79	135, 1	117.4	39	180, 1	156, 8	99	225, 7	196, 2	
60	45, 3	39, 4	20	90,6	78.7	80	135, 8	118.1	40	181, 1	157.5	2(0)	226, 4	196, 8	
			-			-			Ì		-				
Inst.	Tup.	Lat.	Dist.	Dep.	Lat.	Dust.	Dep	Lnt.	Dist.	Dep.	Lut.	Dist.	Dep.	Lat.	
1			-										-		

49° (131°, 229°, 311°).

Difference of Latitude and Departure for 41° (139°, 221°, 319°).

301 02 03 04 05 06 07	227. 2 227. 9 228. 7 229. 4 230. 2 230. 9 231. 7	197. 5 198. 1 198. 8 199. 4	361 62 63	272. 5 273. 2	Dep. 236, 9	Dist. 421	117, 7	Dep. 276. 2	Dist. 481	163. 0	Dep. 315, 6	Dist. 541	408, 3	Dep. 354, 9	
02 03 04 05 06	227. 9 228. 7 229. 4 230. 2 230. 9	198. 1 198. 8 199. 4	62	272. 5 273. 9	236. 9		317.7	976 9	181	363.0	215 6	541	408 3	251.0	
02 03 04 05 06	227. 9 228. 7 229. 4 230. 2 230. 9	198. 1 198. 8 199. 4	62	973 9	. 200.0										
04 05 06	229. 4 230. 2 230. 9	199.4	62		237.5	22	318.5	276. 9	82	363.8	316. 2	42	409.0	355.6	
05 06	230. 2 230. 9		00	274.0	238. 2	23	319. 2	277.5	83	364.5	316.9	43	409.8	356, 2	
06	230.9		64	274.7	238, 8	24	320.0	278.2	84	365.3	317.5	44	410.6	356.9	
	230.9	200.1	65	275.5	239.5	25	320. 8	278.8	85	366.0	318. 2	45	411.3	357.5	
		200. 8 201. 4	66 67	276.2 277.0	240. 1 240. 8	26 27	321. 5 322. 3	279.5 280.1	86 87	366.8 367.5	318.8 319.5	46 47	412.1	358, 2 358, 8	
08	232.5	202. 1	68	277.7	241. 4	28	323. 0	280. 8	88	368.3	320.1	48	412.8	359. 5	
09	233. 2	202. 7	69	278.5	242. 1	29	323. 8	281.5	89	369.0	320. 8	49	414.3	360, 2	
10	234.0	203.4	70	279.2	242.7	30	324.5	282.1	90	369.8	321.5	50	415.1	360. 8	
311	234.7	204.0	371	280.0	243, 4	431	325.3	282.8	491	370.6	322. 1	551	415.8	361.5	
12	235.5	204.7	72	280.8	244.1	32	326.0	283.4	92	371.3	322.8	52	416.6	362.1	
13	236. 2	205. 4	73	281.5	244.7	33	326.8	284.1	93	372.1	323. 4	53	417.3	362.8	
14	237.0 $237.7$	206. 0 206. 7	74 75	282. 3 283. 0	245.4 $246.0$	34 35	327. 5 328. 3	284. 7	94	372. 8 373. 6	324. 1	54	418.1	363.4	
15 16	238. 5	207. 3	76	283.8	246. 7	36	329.1	285. 4 286. 0	95 96	374.3	324. 7 325. 4	55 56	418. 9 419. 6	364.1 364.8	
17	239. 2	208.0	77	284.5	247.3	37	329, 8	286, 7	97	375. 1	326. 0	57	420.4	365.4	
18	240. 0	208.6	78	285.3	248.0	38	330.6	287.4	98	375.8	326. 7	58	421.1	366.1	
19	240.8	209.3	79	286.0	248.7	- 39	331.3	288.0	99	376.6	327.4	59	421.9	366.7	
20	241.5	209.9	80	286.8	249.3	40	332.1	288.7	500	377.3	328.0	60	422.6	367.4	
321	242.3	210.6	381	287.5	250.0	441	332. 8	289.3	501	378.1	328.7	561	423.4	368.0	
22 23	243.0 $243.8$	$211.3 \\ 211.9$	82 83	288.3 $289.1$	250.6 251.3	42 43	333. 6 334. 3	290. 0 290. 6	02	378.9 379.6	329.3	62	424. 1	368.7	
24	244.5	212.6	84	289, 8	251. 9	44	335. 1	291.3	03 04	380. 4	330. 0 330. 6	63 64	424. 9 425. 7	369. 4 370. 0	
25	245.3	213. 2	85	290.6	252.6	45	335.8	292.0	05	381. 1	331.3	65	426.4	370.7	
26	246.0	213.9	-86	291.3	253. 2	46	336.6	292.6	06	381.9	332.0	66	427. 2	371 3	
27	246.8	214.5	87	292.1	253. 9	47	337.4	293. 3	07	382.6	532.6	67	427.9	372. 0 372. 6 373. 3	
28 29	247.5	215. 2 215. 9	88 89	292. 8	254.6	48	338.1	293.9	08	383.4	333.3	68	428.7	372.6	
30	248.3 249.1	216.5	90	293. 6 294. 3	255. 2 255. 9	49 50	338, 9 339, 6	294.6 295.2	09 10	384. 1 384. 9	333.9 334.6	69 70	429, 4 430, 2	374.0	
331	249. 8	217. 2	391	295. 1	256, 5	451	340. 4	295. 9	511	385. 7	335. 2	571	430. 9	374.6	
32	250.6	217.8	92	295. 8	257. 2	52	341, 1	296.5	12	386. 4	335.9	72	431.7	375.3	
33	251.3	218.5	93	296.6	257.8	53	341.9	297. 2	13	387. 2	336.5	73	432. 4	375.9	
34	252.1	219.1	94	297.4	258.5	54	342.6	297.9	14	387.9	337. 2	74	433. 2	376.6	
35	252.8	219.8	95 96	298.1	259. 2	55	343.4	298.5	15	388. 7	337. 9	75	434.0	377.2	
36 37	253.6 $254.3$	220.4 $221.1$	96	298. 9 299. 6	259. 8 260. 5	56 57	344.1	299, 2 299, 8	16 17	389, 4 390, 2	338.5 339.2	76 77	434.7	377.9	
38	255.1	221. 8	98	300, 4	261. 1	58	345. 7	300.5	18	390. 2	339, S	78	435, 5 436, 2	378. 5 379. 2	
39	255. 8	222, 4	99	301.1	261.8	59	346.4	301.1	19	391.7	340. 5	79	437. 0	379. S	
40	40     2554, 6     223, 1     400     301, 9     262, 4     60     347, 2     301, 8     20     892, 4     341, 1     80     437, 7     380, 5       11     257, 4     223, 7     401     302, 6     263, 1     461     347, 9     302, 5     521     393, 2     341, 8     581     488, 5     381, 2       12     258, 1     224, 4     02     303, 4     203, 7     62     348, 7     303, 1     22     394, 0     342, 5     82     439, 2     341, 8       2     38, 2     38, 2     38, 2     38, 2     38, 2     38, 2     38, 2     38, 2														
341	40   256, 6   223, 1   400   301, 9   262, 4   60   347, 2   301, 8   20   389, 4   341, 1   80   437, 7   380, 5   41   257, 4   223, 7   401   302, 6   263, 1   461   347, 9   302, 5   521   383, 2   341, 8   581   438, 5   581, 2   42   258, 1   224, 4   02   303, 4   263, 7   62   348, 7   303, 1   22   384, 0   342, 5   82   439, 2   331, 8														
	258. 1 258. 9	224, 4 225, 0	02	303, 4		62					342.5				
43 44	258, 9 259, 6	225. 7 225. 7	04	304, 2	264. 4 265. 1	64	349, 4 350, 2	303. 8 304. 4	28 24	394.7 395.5	343, 1 343, 8	83 84	440. 0 440. 7	882. 5 883. 2	
45	260.4	226.3	05	305. 7	265. 7	65	350. 9	305.1	25	396, 2	344.4	85	441.5	353, 5	
46	261.1	227.0	-06	306.4	266, 4	-66	351.7	305.7	26	397.0	345.1	86	442.3	384.5	
47	261.9	227.7	07	307.2	267.0	67	352.5	306.4	27	397.7	345.7	87	443.0	355.1	
48	262.6	228.3	08	307.9	267.7	68	353, 2	307.0	28	398, 5	846, 4	-88	443.8	385. 8	
49	263.4	229, 0 229, 6	09 10	305.7	268, 3	69 70	354.0	307.7	29	399, 2	347.0	50	444.5	386.4	
$\frac{50}{351}$	264. 2 264. 9	230. 3	411	310. 2	269, 0 269, 6	70 471	354, 7 355, 5	308.4	531	400.0	347. 7 348. 4	_90 591	445, 3	887. I 887. 7	
52	265. 7	230. 5	12	310. 2	270, 3	72	356, 2	309. 0	32	400.7	349, 0	92	446.8	855.4	
53	266.4	231.6	13	311.7	271.0	73	357. 0	310, 3	33	402.2	349, 7	93	447.5	389, I	
54	267.2	939 3	14	312.5	271.6	74	357.7	311.0	34	403, 0	350.3	94	448.3	389.7	
55	267.9	232.9	15	313.2	272, 3	75	358, 5	311.6	35	403, 8	351.0	95	449.1	390, 4	
56	268.7 $269.4$	233, 6 234, 2	16 17	314. 0 314. 7	272. 9 273. 6	76	359, 2	312, 3 312, 9	36	404.5	351.6	96	449, 8	391.0	
57 58	270. 2	234.2	18	315, 5	274.2	78	360. 0 360. 8	312. 9	37 38	405, 3 406, 0	352, 3 352, 9	97 98	$\frac{450.6}{451.3}$	391.7 392.3	
59	270. 9	235.5	19	316.2	274.9	79	361.5	314. 3	39	406.8	358.6	99	452.1	393.0	
60	271.7	236, 2	20	317.0	275, 6	80	362.3	314.9	40	407.5	354.3	600	452.8	1393, 6	
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Irep.	Lat.	
						49° (13	31°, 229	°, 311°	).						

# Page 614]

TABLE 2.

Difference of Latitude and Departure for 42° (138°, 222°, 318°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat,	Dep.	Dist.	Lat.	Dep.
					4.5	2.31				104 -	101 1		170.1	101.0
1	0.7	0.7	61	45. 3	40, 8	121	89, 9	81.0	181	134.5	121.1	241	179.1	161. 3
-2	1.5	1.3	62	46. 1	41.5	22 23	90. 7	81.6	82	135.3	121.8	42	179. 8	161.9
3	2. 2	2.0	63	46, 8	42. 2		91.4	82.3	83	136. 0	122.51	43	180.6	162. 6
4	3, 0	2. 7	64	47.6	42.8	24	92. 1	\$3.0	84	136. 7	123.1	44	181.3	163.3
5	3. 7	3.3	65	48.3	43.5	25	92.9	83, 6	85	137. 5	123.8	45	182.1	163. 9
- 6	4, 5	4.0	66	49.0	44.2	26	93, 6	84.3	86	138. 2	124.5	46 47	182.8	164. 6
7	5, 2	4.7	67	49. 8	44.8	27	94.4	85, 0	87	139, 0	125, 1	48	183, 6	165.3 165.9
8	5, 9	5, 4	68	50.5	45.5	28   29	95.1	85, 6	89	139. 7	125.8 126.5	49	185. 0	166. 6
9	6. 7	6.0	69	51.3	46.2	30	95, 9	86.3 87.0	90	140.5	127.1	50	185. 8	167. 3
10	7.4	6.7	70	52.0	46.8		96.6			141. 2				
11	8. 2	7.4	71	52. 8	47.5	131	97.4	87. 7	191	141. 9	127. 8	251	186.5	168. 0
12	8.9	8.0	72	53. 5	48.2	32	98.1	88, 3	92 93	142.7	128.5	52 53	187.3	168. 6 169. 3
13	9. 7	8.7	73	54. 2	48.8	33	98, 8	89. 0		143. 4	129, 1 $129, 8$	54	188. 0 188. 8	170.0
14	10.4	9.4	74	55. 0	49. 5	34 35	99, 6	89.7	94 95	144.2	130.5	55	189, 5	170. 6
15 1	11.1	10.0	75	55. 7	50.2	36	100.3	90.3	96	144.9	131. 1	56	190. 2	171. 3
16	11.9	10.7	76 77	56.5	50, 9 51, 5	37	101.4 101.8	91. 0 91. 7	97	145, 7 146, 4	131, 8	57	191.0	172.0
17	12.6	11.4 $12.0$	78	57. 2 58. 0	52, 2	38	102. 6	92.3	98	147.1	132, 5	58	191.7	172.6
18	13.4	12.7	79	58. 7	52, 9	39	103, 3	93, 0	99	147. 9	133. 2	59	192.5	173. 3
19 20	14. 1 14. 9	13.4	80	59, 5	53.5	40	104. 0	93. 7	200	148.6	133. 5	60	193, 2	174.0
								94. 3			134. 5	261	194. 0	174.6
21	15.6	14. 1	81	60. 2	54. 2	141 42	104. 8 105. 5	95, 0	201 02	149. 4 150. 1	135. 2	62	194.0	175.3
22 23	$\frac{16.3}{17.1}$	14.7	82 83	60. 9 61. 7	54. 9 55. 5	43	106, 3	95.7	02	150. 1	135, 8	63	195.4	176. 0
		16. 1	84	62.4	56, 2	44	107. 0	96, 4	0.5	151.6	136. 5	64	196, 2	176. 7
24 25	17. S 18. 6	16, 7	85	63, 2	56, 9	45	107. 8	97. 0	05	152. 3	137. 2	65	196. 9	177.3
26	19.3	17.4	86	63. 9	57.5	46	108.5	97. 7	06	153. 1	137. 8	66	197. 7	178.0
27	20. 1	18. 1	87		58.2	47	109. 2	98. 4	07	153. S	138, 5	67	198.4	178.7
28	20. 8	18. 7	88	65, 1	58, 9	48	110.0	99, 0	08	154. 6	139. 2	68	199, 2	179.3
29	21. 6	19.4	89	66. 1	59, 6	49	110.7	99, 7	-09	155. 3	139. 8	69	199, 9	180, 0
30	22, 3	20.1	90	66. 9	60, 2	50	111.5	100, 4	10	156, 1	140, 5	70	200.6	180.7
31	23, 0	20.7	91	67, 6	60.9	151	112.2	101.0	211	156, 8	141.2	271	201.4	181.3
32	23, 8	21.4	92	68. 1	61, 6	52	113.0	101.7	12	157. 5	141.9	72	202. 1	182.0
83	21.5	22.1	93	69, 1	62.2	53	113.7	102.4	13	158. 3	142.5	72 73	202.9	182.7
34	25. 3	22. 8	94	69, 9	62.9	51	114. 1	103, 0	11	159, 0	143.2	74	203. 6	183.3
35	26, 0	23.4	95	70.6	63, 6	55	115, 2	103.7	15	159, 8	143.9	75	204. 4	184.0
36	26. 8	24. 1	96	71.3	64.2	56	115.9	104.1	16	160, 5	144.5	76 77	205, 1	184.7
37	27.5	24. 8	97	72.1	64.9	57	116.7	105.1	17	161.3	145.2	77	205, 9	-185, 3
1 38	25. 2	25, 1	93	72.8	65, 6	58	117. 4	105.7	18	162.0	145.9	78	206, 6	186.0
139	29, 0	26.1	99	73.6	66, 2	59	118.2	106.4	19	162, 7	146. 5	79	207.3	186, 7
40	29.7	26, 8	100	74.3	66, 9	60	118.9	107.1	20	163, 5	117. 2	50	208, 1	187, 1
41	20, 5	27. 4	101	75.1	67. 6	161	119.6	107.7	221	164.2	147.9	281	208, 8	188.0
42	31. 2	28. 1	02	75, 8	68, 3	62	120.4	108.4	22	165, 0	148.5	82	209, 6	188, 7
4.1	32.0	25.5	03	76, 5	68, 9	63	121. 1	109.1	23	165. 7	149, 2	83	210.3	189, 1
44	32, 1	29.4	1.01	77. 3	624, 6	64	121.9	109.7	21	166, 5	149, 9	84	211.1	190, 0
45	33.4	30, [	-05	78, 0	70.3	65	-122, 6	110.4	25	167. 2	150, 6		211.8	190 7
46	34. 2	1.30, 8	- 06	78.8	, 70, 9	66	123. 4	111.1	26	168.0	151. 2	86	212.5	191. 4
47	34. 9	31. 1	07	79.5	71. 6 72. 3	67	124.1	111.7	27	168, 7	151. 9	87	213.3	192. 0 192. 7
45	35, 7	+ 32. 1	08	80, 3	72. 3	68	124.8	112. 1	28	169.4	152.6	88 89	214. 0 214. 8	192.7
49	36, 4	32.8	00	81.0	72. 9	69	125, 6	113.1	29 30	170. 2	, 153, 2	90	214.8	194. 0
50 -	37. 2	33, 5	10	81.7	73. 6	70	126, 3	113.8	1	170.9	[53, 9			
51	37, 9	34.1	111	82.5	74.3	171	127.1	114.4	231	171.7	151.6	291	216.3	191.7
52	28 6	31, 8	12	83. 2	74. 9	72	127. 8	115.1	32	172.4	155, 2	92	217.0	195, 1
53	39, 4	35, 5	13	84.0	75, 6	73	128, 6	115.8	33	173.2	-155, 9 -156, 6	93	217.7	196, 1
54	40 1	36, 1	11	81.7	76. 3	71 75	129, 3	116.4 117.1	34 35	173, 9 174, 6	157. 2	95	219.2	197. 4
55	10, 9	36. 8	15	85, 5 86, 2	77.0	76	130, 1	117. 8	36	175. 1	157. 9	96	220, 0	198.1
56	11, 6	37. 5 38. 1	16	86, 9	77. 6	77	131. 5	-117.8 -118.4	37	176. 1	158.6	97	220.7	198, 7
57	42. 4 El. 1	138.3	1 1	57. 7	70, 0	1 48	132.3	119, 1	38	176.9	159, 3	98	221.5	199, 4
50	43. 8	39.5	1 6	85 1	79.6	79	133, 0	119, 8	39	177.6	159, 9	99	000 0	200.1
60	11.6	10, 1	1 50	53. 2	\$0,3	80	133, 8	120.1	10	178. 1	160, 6	300	222.9	200.7
1 "	11.0	0.5.1	1 "			1			1			ŧ	-	
[314]	Inch	1	Dist.	Dep.	Lat	15.5	10 p	1 1	po-	11 .	1 .	I post	D-p.	· Lat.
I Prise	10.34	27481	Live	4 ** 15.	1 1.165	1			1.			4		
1							0.02 0.04							

181 (1321, 2281, 3121)

Difference of Latitude and Departure for 42° (138°, 222°, 318°).

			Dinere	nce or i	- Carried	C wind	Departi	it for	12 (1	00 , 222	, , , , , ,	<i>)</i> •			
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
301	223, 7	201.4	361	268.3	241.6	421	312.9	281.7	481	357.5	321.9	541	402.1	362.0	
02	224.4	202. 1	62	269.0	242. 2	22 23	313. 6	282. 4 283. 0	82	358.2	322, 5 323, 2	42	402.8	362. 7 363. 3	
03	225, 2	202. 8	63	269.8	$242.2 \\ 242.9$	23	314. 4	283. 0	83	358.9	323. 2	43	403.5	363.3	
04	225.9	203.4	64	270.5	1243.61	24	315.1	283.7	84	359.7	323, 9	44	404, 3	364.0	
05	226.6	204.1	65	971.9	244. 2	25	315.8	284. 4	85	360.4	324.6	45	405.0	364.7	
-06	227.4	204.8	66	272.0	244.9	26	316.6	285, 1	86	361.2	325, 2	46	405.8	365.4	
07	228, 1	205.4	-67	272. 0 272. 7 273. 5 274. 2	245, 6	27	317.3	285.7	87	361.9	325, 9	47	406, 5	366.0	
08	228.9	206. 1	68	273.5	246. 2	28	318.1	286.4	-88	362.7	326, 6	48	407.2	366.7	
09	229.6	206.8	-69	274.2	246. 9	29	318.8	287. I	89	363.4	327. 2	49	408.0	367.4	
10	230.4	207.4	70	275.0	247.6	30	319.6	287.7	90	364.1	327.9	50	408, 7	368.0	
311	231.1	208. 1	371	275. 7	248.3	431	320.3	288, 4	491	364.9	328.6	551	409.5	368.7	
12 13	231.9	208.8	72 73	276.5 277.2 277.9	248.9	32	321. 0 321. 8	289.1	92	365, 6	329. 2 329. 9	52	410.2	369.4	
13	232.6	209.4	73	277.2	249.6	33	321.8	289.7	93	366.4	329.9	53	411.0	370.0	
14	233.3	210.1	74	277.9	$\{250, 3\}$	34	322. 5 323. 3	290.4	94	367.1	[330, 6]	54	411.7	370.7	
15	234.1	210.8	75	278.7	250.9	35	323.3	291.1	95	367.9	331.3	55	411.7 412.4 413.2	371.4 372.0	
16	234.8	211.5	76	279.4	251.6	36	324.0	291.7	96	368.6	331.9	56	413.2	372.0	
17	235.6	212. 1	77	280.2	252.3	37	$324.8 \\ 325.5$	292.4	97	369.3	332.6	57	413, 9	372.7	
18	236. 3 237. 1	212.8	78	280.9	252. 9 253. 6	38	325.5	293.1	98	370.1	333.3	58	414.7	373. 4 374. 1	
19	237.1	213.5	79	281.7	253.6	39	326.2	293. 8	99	370.8	333. 9	59	415.4	3/4.1	
20	237.8	214.1	80	282.4	254.3	40	327. 0	294.4	500	371.6	334.6	_60	416, 2	374.7	
321	238. 6	214.8	381	283.1	254.9	441	327.7	295.1	501	372. 3 373. 1 373. 8	335.3	561	416.9	375. 4	
22 23	239. 3	215.5	82	283.9	255.6	42	328.5	295.8	02	373.1	335. 9	62	417. 6 418. 4	376. 1	
23	240.0	216. 1	83	284.6	256.3	43	329. 2	296. 4	03	373.8	336.6	63	418.4	376. 7	
24 25	240.8	216. 8	84	285.4	257.0	44	330.0	297. 1	04	374.5	337. 2	64	419.1	377.4	
	241.5 $242.3$	217.5	85	286.1	257.6	45	330.7	297.8	05	375.3	337. 9	65	419.9 420.6	378. 1 378. 7	
26 27	243.0	218. 1 218. 8	86 87	286. 9 287. 6	258.3 259.0	46 47	331.4	298.4 299.1	06 07	376.0	338.6 339.3	66 67	420.6	379.4	
28	243.8	219.5	88	288.3	259. 6	48	332, 2 332, 9	299. 1	08	376. 8 377. 5	339. 9	68	199 1	380.1	
29	244.5	220, 1	89	289.1	260. 3	49	333. 7	300.4	09	378.3	340.6	69	422. 1 422. 8	380.7	
30	245. 2	220. S	90	289, 8	261. 0	50	334.4	301.1	10	379.0	341.3	70	423.6	381.4	
331	246. 0	221.5	391	290.6	261.6	451	335. 2	301. 8	511	379.7	341.9	571	424.3	289 1	
32	246. 7	999 9	92	291.3	262. 3	52	335. 9	302.5	12	380, 5	342.6	79	425. 1	382. 1 382. 8 383. 4 384. 1	
33	246.7 $247.5$	222. 2 222. 8	93	292.1	263.0	53	336.6	303.1	13	381, 2	343. 3	72 73	425. 8	383 4	
34	248. 2	223.5	94	292. 8	263. 6	54	337.4	303. 8	14	382.0	343.9	74	426.6	384.1	
35	249.0	224. 2	95	293.5	264. 3	55	338. 1	304.5	15	382.7	344.6	75	427.3	384.8	
36	249.7	224.8	96	294.3	265.0	56	338, 9	305. 1	16	383, 5	345. 3	76	428.0	385.4	
37	250.4	225.5	97	295.0	265. 7	57	339.6	305.8	17	384.2	346.0	77	428.8	388 1	
38	250.4 $251.2$	226. 2	98	295.8	265, 7 $266, 3$	58	340.4	306.5	18	384.9	346.6	77 78	429.5	386.8	
39	251.9	226.8	99	296.5	267.0	59	341.1	307.1	19	385.7	347.3	79	430.3	387.4	
40	40 252.7 227.5 400 297.3 267.7 60 341.8 307.8 20 386.4 348.0 80 431.0 388.1 341 253.4 228.2 401 298.0 268.3 461 342.6 308.5 521 387.2 348.6 581 431.8 388.8														
341		228. 2	401	298.0	268.3	461	342.6	308.5	521	387. 2	348.6	581	431.8	388.8	
42	254.2	228.8	02	298.7	269.0	62	343.3	309.1	22	387.9	349.3	82	432. 5 433. 2 434. 0	389.4	
43	254.9	229.5	-03	299.5	269, 7	63	344.1	309.8	23	388.7	350.0	83	433. 2	390.1	
44	255, 6	230. 2	04	300.2	270.3	64	344.8	310.5	24	389.4	350.6	84	434.0	390.8	
45	256.4	230.9	05	301.0	271.0	65	345.6	311.2	25	390.1	351.3	85	434. /	391.4	
46	257.1	231.5	06	301.7	271. 7	66	346.3	311.8	26	390. 9	352.0	86	435, 5	392, 1	
47	257.9	$232.2 \\ 232.9$	07	$302.5 \\ 303.2$	272. 3 273. 0	67	347. 0 347. 8	312. 5 313. 2	27 28	391.6	352.6	87	436. 2 437. 0	392.8	
48	258.6	232.9	08	303.2	273. 0	68	347.8	313. 2	28	392.4	353.3	88	437.0	393.4	
49	259.4	233. 5	09	303. 9	273. 7	69	348.5	313.8	29	393.1	354.0	89	437. 7	394.1	
50	260. 1	234. 2	10	304.7	274.3	70	349.3	314.5	30	393. 9	354.6	90	438, 4	394.8	
351	260.8	234. 9	411	305. 4	275. 0	471	350.0	315. 2	531	394. 6	355. 3	591	439. 2	395.4	
52 53	261. 6 262. 3	235.5 236.2	12	306.2	275.7	72	350.8	315.8	32	395.3	356.0	92	440.0	396. 1 396. 8	
54	263. 1	236. 9	13 14	306. 9 307. 7	$276.4 \\ 277.0$	73 74	351, 5 352, 3	316. 5 317. 2	33 34	396. 1 396. 8	356.6 357.3	93 94	440.7	397.5	
55	263. 8	237. 5	15	308.4	277. 7	75	353. 0	317. 8	35	397, 6	358.0	95	119 9	398.1	
56	264.6	238. 2	16	309.1	278. 4	76	353, 7	318.5	36	398.3	358.6	96	449 0	398. 8	
57	265.3	238. 9	17	309, 9	279.0	76 77	354. 5	319. 2	37	399.1	359, 3	97	441. 4 442. 2 442. 9 443. 7	399. 5	
58	266. 0	239. 6	18	310. 6	279. 7	78	355, 2	319.9	38	399.8	360.0	98	444.4	400.1	
59	266. 8	240. 2	19	311.4	280, 4	79	356.0	320.5	39	400.6	360.6	99	445.2	400.8	
60	267. 5	240. 9	20	312.1	281.0	80	356. 7	321. 2	40	401.3	361.3	600	445. 9	401.5	
						1	,,,,,,		1		331.0				
Dist.	Dep.	Lat,	Dist,	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	
_							<u> </u>		1						
						48° (1	32°, 228	°, 312°	).						

TABLE 2.

Difference of Latitude and Departure for 43° (137°, 223°, 317°).

														i	
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat .	Dep.	
,	0 -	Λ -		11.0	41.6	121	00 E	82.5	181	132. 4	123, 4	241	176.3	164.4	
$\begin{array}{c c} 1 \\ 2 \end{array}$	0.7	0.7	$\frac{61}{62}$	44.6	42.3	22	88, 5 89, 2	82. 5	82	133. 1	124.1	42	177.0	165.0	
3	1.5	$\frac{1.4}{2.0}$	63	45.3 46.1	43.0	23	90.0	83, 9	83	133.8	124.1 $124.8$	43	177.7	165.7	
	$\frac{2.2}{2.9}$	2.7	64	46.8		24	90.7	84, 6	84	134.6	125. 5	44	178.5	166.4	
4 5	3.7	3.4	65	47.5	43.6 44.3	25	91.4	85.2	85	135.3	126, 2	45	179.2	167.1	
6		4.1	66	48.3	45.0	26	92.2	85. 9	86	136. 0	126. 9	46	179.9	167. 8	
7	4.4	4.8	67	49.0	45.7	27	92.9	86, 6	87	136.8	127.5	47	180.6	168.5	
s s	5, 1 5, 9	5.5	68	49.7	46.4	28	93.6	87.3	88	137.5	128. 2	48	181.4	169.1	
9	6.6	6, 1	69	50.5	47.1	29	94.3	88.0	89	138. 2	128. 9	49	182.1	169.8	
10	7.3	6, 8	70	51. 2	47.7	30	95. 1	88.7	90	139. 0	129.6	50	182, 8	170.5	
				51.9	48.4	131	$-\frac{35.1}{95.8}$	89. 3	191	139. 7	130, 3	251	183.6	171.2	
11	8.0	7.5	71	52.7				90.0	92		130. 9	52	154.3	171. 9	
12	8.8	8. 2 8. 9	72 73		49.1	32 33	96.5	90.7	93	140.4 $141.2$	131.6	53	185, 0	171.9	
13	9.5		13	53. 4	49.8		97.3				132, 3	54	185. 8	173. 2	
14	10. 2	9.5	74 75	54.1	50.5	34 35	98.0	91.4 92.1	94 95	141.9 $142.6$	133. 0	55	186.5	173. 9	
15	11.0	10. 2		54.9	51.1		98.7	92.1	96	143. 3	133.7	56	187. 2		
16	11.7	10.9	76	55.6	51.8	36	99.5		97		134. 4	57	188.0	174.6	
17	12.4	11.6	77	56.3	52. 5	37	100.2	93.4		144.1	135.0	58	188.7	175.3 $176.0$	
18	13. 2	12.3	78	57.0	53. 2	38 39	100.9	94.1 94.8	98 99	144.8	135.7	59	189.4	176.0	
19	13. 9	13.0	79	57.8	53.9		101.7			145.5		60	190. 2	177.3	
_20_	_14.6	13.6	80_	58.5	54.6	40	102.4	95. 5	200	146.3	136. 4				
21	15.4	14.3	81	59, 2	55. 2	141	103, 1	96, 2	201		137.1	261	190.9	178.0	
22	16.1	15.0	82	60.0	55.9	42	103.9	96.8	02	147. 7	137.8	62	191.6	178.7	
23	16.8	15. 7	83	60.7	56, 6	43	104.6	97.5	- 03	148.5	138.4	63	192.3	179.4	
24	17.6	16.4	84	61.4	57.3	44	105.3	98. 2	04	149. 2	139.1	64	193.1	180.0	
25	18.3	17.0	85	62. 2	58.0	45	106.0	98, 9	05	149.9	139.8	65	193. 8	180.7	
26	19.0	17.7	-86	62.9	58.7	46	106.8	99.6	-06	150.7	140.5	66	194.5	181.4	
27	19, 7	18, 4	87	63, 6	59.3	47	107.5	100, 3	07		141.2	67	195.3	182.1	
28	20.5	19, 1	88	64.4	60.0	48	108, 2	100.9	08	152.1	141.9	68	196.0	182.8	
29	21.2	19.8	89	65.1	60.7	49	109.0	101.6	09	152.9	142.5	69	196, 7	183.5	
30	21.9	20, 5	90	65, 8	61.4	50_	109. 7	102.3	_10_	153. 6	143, 2	70	197.5	184.1	
31	22. 7	21.1	- 91	66, 6	62. 1	151	110.4	103.0	211	154.3	143.9	271	198. 2	184.8	
- 32	23, 4	21.8	92	67.3	62.7	52	111.2	103, 7	12	155.0	144.6	72	198, 9	185, 5	
- 33	24.1	22.5	-93	68.0	63.4	53	111.9	104.3	13	155. 8	145.3	73	199.7	186. 2	
34	24. 9	23, 2	94	68.7	64. 1	54	112, 6	105, 0	14	156, 5	145.9	74	200.4	186, 9	
35	25, 6	23. 9	95	69.5	64.8	55	113.4	105.7	15	157. 2	146. 6	75	201. I	187.5	
- 36	26. 3	24.6	96	70.2	65. 5	56	114.1	106, 4	16	158, 0	147.3	76	201.9	188, 2	
37	27, 1	25. 2	97	70.9	66, 2		114.8	107. 1	17	158.7	148.0	77	202.6	188.9	
38	27, 8	25, 9	98	71.7	66, S	58	-115.6	107. 8	18	159.4	148.7	7.8	203.3	189.6	
39				72.4											
40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
41	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
42									22	162.4	151.4				
43	31.4	29, 3	-03	75.3	70.2	63	119, 2	111.2	23	163.1	152. 1 152. 8	83	207.0	193, 0	
44	32, 2	30, 0	04	76, 1	70, 9	64	119.9	111.8	24	163. S	152.5	S4	207.7	193.7	
45	32, 9	30.7	05	76.8	71.6	65	120.7	112.5	25	164, 6	153.4	85	208, 4	194.4	
46	33, 6	31.4	06	77.5	72.3 73.0	66	121.4	113. 2	26	165, 3	154.1	86	209, 2	195, 1	
-17	34. 4	32. 1	07	78.3	73.0	67	122. 1	113.9	27	166, 0	154. 8	87	209, 9	195.7	
48	35.1	32.7	08	79, 0	73. 7	68	122. 9	114.6	28	166, 7	155. 5	88	210.6	196, 4	
49	35, S	33.4	- 09	79.7	74.3	69	123, 6	115.3	29	167.5	156, 2 156, 9	89 90	211.4 212.1	197.1 197.8	
50	36, 6	34. 1	10	80, 4	75, 0	_70	124.3	115, 9	30	165.2		1			
51	37.3	34.8	111	81.2	75. 7	171	125, 1	116.6	231	168, 9	157.5	291	212.8	198.5	
52	38, 0	35, 5	12	81.9	76, 4	72	125, 8	117.3	32	169.7	158.2	92	213, 6	199, 1	
53	1. 38, 8	36, 1	13	82.6	77. 1	73	126.5	118.0	33	170, 1	158, 9	93 94	214.3 215.0	199, 8	
54	39, 5	, 36, 8	1.1	83, 1	77.7	74	127. 3	118.7	34	171.1	159, 6	94	215.7		
55	40.2	37.5	15	81.1	78, 4	75	128, 0	119.3	35	171.9	160.3		216.7	201, 2 201, 9	
56	41.0	38.2	16	84.8	79, 1	76	128.7	120, 0	36	172.6	161.0			201.9	
57	41.7	38, 9	17	85, 6	79, 8	37	129, 4	120.7	37	173.3	161.6	97	217. 2	203, 2	
58	42.4	39, 6	18	86, 3	80, 5	78	130, 2	121.4	38	174.1	162.3		217. 9	009.0	
59	43, 1	40.2	19	87, 0	SL 2	79	130, 9	122. 1	39	174. S	163, 0	300	218.7	203, 9 204, 6	
60	43, 9	40.9	20	1 87.5	51.5	80	131, 6	122, 8	40	175, 5	163. 7	1,0(11)	219, 4	m(P2, f)	
-			1			-			1		1.4	16st.	Dep.	- Lat	
Dist.	Dep	Lat	Dist.	Dep.	Lat.	Dist.	Dep	Lat.	Dist.	Dep.	Lat	Lust	repo	1364	
-						47	339, 227	0 1100	1						
1						41	1111 1 1111	, 010	<i>j</i> •						

Difference of Latitude and Departure for 43° (137°, 223°, 317°).

$\begin{array}{cccccccccccccccccccccccccccccccccccc$				лие <b>г</b> е	ence of 1	atitud	e and	Departi	ire for	43° (1	37°, 228	5°, 317°	')•			
02 220 9 206 0 62 294.8 246.9 22 308.6 287.8 82 352.5 328.7 42 396.4 399.7 303 321.6 206.7 263 528.1 208.5 248.3 24 310.1 289.2 84 354.0 330.1 44 307.9 371.0 65 223.1 208.0 65 267.0 248.9 25 310.8 289.9 85 354.7 330.8 45 398.6 371.7 300.3 201.0 289.0 86 267.0 248.9 25 310.8 289.9 85 354.7 330.8 45 398.6 371.7 300.2 328.2 304.7 30.9 4 67 208.4 250.9 4 67 208.4 250.9 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.9 251.7 29 313.8 292.6 89 357.7 335.4 44 63 397.3 372.4 10 226.7 211.4 70 270.6 252.3 30 314.5 293.3 90 358.4 334.2 50 402.2 375.1 12 228.2 212.8 72 272.1 253.7 32 316.0 294.6 92 359.8 355.5 52 403.7 376.2 311. 227.5 213.5 73 27.8 254.4 33 314.5 293.3 90 358.4 334.2 50 402.2 375.1 12 228.2 212.8 72 272.1 253.7 32 316.0 294.6 92 359.8 335.5 52 403.7 376.2 311. 227.5 213.5 73 27.8 254.4 33 316.7 396.5 396.6 336.6 336.6 336.6 356.7 340.4 377.1 14 229.7 214.2 273.5 255.1 34 317.4 296.0 94 361.3 336.6 5 54 405.2 377.8 359.1 31.2 31.2 31.5 73 274.3 255.8 33 318.9 297.4 36 362.0 337.6 55 400.2 377.4 325.8 16 231.1 215.5 76 275.7 257.1 257.8 38 310.0 298.0 94 361.3 336.9 54 405.2 377.8 359.0 323.3 216.6 8 397.2 377.9 259.5 33 31.4 39.0 385.2 337.6 38.8 39.6 386.6 336.6 386.6 386.8 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 38	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
02 220 9 206 0 62 294.8 246.9 22 308.6 287.8 82 352.5 328.7 42 396.4 399.7 303 321.6 206.7 263 528.1 208.5 248.3 24 310.1 289.2 84 354.0 330.1 44 307.9 371.0 65 223.1 208.0 65 267.0 248.9 25 310.8 289.9 85 354.7 330.8 45 398.6 371.7 300.3 201.0 289.0 86 267.0 248.9 25 310.8 289.9 85 354.7 330.8 45 398.6 371.7 300.2 328.2 304.7 30.9 4 67 208.4 250.9 4 67 208.4 250.9 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.4 250.0 4 67 208.9 251.7 29 313.8 292.6 89 357.7 335.4 44 63 397.3 372.4 10 226.7 211.4 70 270.6 252.3 30 314.5 293.3 90 358.4 334.2 50 402.2 375.1 12 228.2 212.8 72 272.1 253.7 32 316.0 294.6 92 359.8 355.5 52 403.7 376.2 311. 227.5 213.5 73 27.8 254.4 33 314.5 293.3 90 358.4 334.2 50 402.2 375.1 12 228.2 212.8 72 272.1 253.7 32 316.0 294.6 92 359.8 335.5 52 403.7 376.2 311. 227.5 213.5 73 27.8 254.4 33 316.7 396.5 396.6 336.6 336.6 336.6 356.7 340.4 377.1 14 229.7 214.2 273.5 255.1 34 317.4 296.0 94 361.3 336.6 5 54 405.2 377.8 359.1 31.2 31.2 31.5 73 274.3 255.8 33 318.9 297.4 36 362.0 337.6 55 400.2 377.4 325.8 16 231.1 215.5 76 275.7 257.1 257.8 38 310.0 298.0 94 361.3 336.9 54 405.2 377.8 359.0 323.3 216.6 8 397.2 377.9 259.5 33 31.4 39.0 385.2 337.6 38.8 39.6 386.6 336.6 386.6 386.8 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 380.6 38	301	220. 1	205. 3	361	264. 0	246, 2	421	307.9	287. 1	481	351. 8	328. 1	541	395. 7	369. 0	
03		220 9					22		287.8							
65   223.1   208.0   65   267.0   248.9   25   310.8   289.9   85   354.7   330.8   45   398.6   377.4     67   224.5   209.4   67   268.4   250.3   27   312.3   291.9   85   354.7   332.4   46   398.6   377.4     68   225.3   210.1   68   269.1   251.0   28   313.0   291.9   88   356.9   332.8   48   400.8   373.7     69   226.0   210.7   69   269.9   251.7   29   313.8   292.6   89   257.7   332.5   49   401.5   373.7     70   226.7   271.4   70   270.6   225.3   30   314.5   293.3   90   358.4   343.2   50   402.2   375.1     71   227.5   212.1   371   271.3   233.0   431   315.2   293.9   491   339.1   334.9   551   403.0   376.5     71   228.9   213.5   73   272.8   254.4   33   316.7   295.3   30   366.6   335.5   52   403.7   376.5     71   228.9   213.5   73   272.8   254.4   33   316.7   295.3   30   366.6   336.2   53   404.4   377.8     71   229.7   271.2   273.5   255.1   34   317.4   296.0   49   361.3   336.9   54   405.2   377.8     71   231.8   276.5   275.0   256.4   36   318.9   297.4   40   361.3   336.9   54   405.2   377.8     71   231.8   276.5   275.0   256.4   36   318.9   297.4   40   361.3   338.9   57   405.2   377.8     71   231.8   276.5   277.0   275.7   257.1   377   379.6   298.0   479   363.5   338.9   57   407.4   379.9     72   234.8   215.9   381   278.7   259.8   341.1   329.5   300.8   501   336.6   58   406.6   379.2     234.8   215.9   381   278.7   259.8   411   322.5   300.8   501   364.9   341.0   60   409.6   381.2     232.5   216.6   978   277.9   259.5   240   213.8   301.1   500.9   367.4   341.0   60   409.6   381.2     233.3   217.6   79   277.7   259.5   40   213.8   301.1   500.9   367.4   341.0   60   409.6   381.2     234.8   215.9   381   278.7   259.8   411   322.5   300.8   501   366.4   341.0   60   409.6   381.2     234.8   215.9   381   278.7   259.8   411   322.5   300.8   500   365.7   341.0   60   409.6   381.2     234.8   212.9   235.0   255.3   40   212.2   40   212.2   40   212.2   40   212.2   40   212.2   40   212.2   40   212.2   40   212.2		221.6	206.7		265.5	247.6			288.5	83	353, 2	329.4				
06   223.8   205.7   66   267.7   249.6   26   311.6   290.5   86   355.4   331.4   46   399.3   372.4   370.0   205.0   205.5   200.4   67   268.4   250.3   27   312.3   291.2   87.7   356.2   332.1   47   46   400.8   373.7   370.0   226.7   211.4   70   270.6   252.3   30   314.5   293.3   89   357.7   335.5   49   400.8   373.7   370.1   371.4   40   292.6   7   211.4   70   270.6   252.3   30   314.5   293.3   89   358.4   332.5   50   402.2   375.1   371.4   273.5   283.1   294.6   89   357.7   335.5   49   402.2   375.1   371.4   293.7   212.1   371.3   233.0   313.6   294.6   89   357.7   334.9   551   403.0   375.8   371.4   371.1   325.9   313.5   372.8   254.4   33   316.0   294.6   89   359.8   355.5   52   403.7   376.5   51.5   230.4   341.3   57.5   230.4   341.3   57.5   230.4   33.3   360.6   336.2   53   403.2   373.6   55   50.5   373.5   50.5   375.5   50.5   373.5   373.5   375.5   375.1   373.6   375.5   375.5   375.5   375.5   375.1   373.6   375.5   375.5   375.5   375.1   373.6   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   375.5   37		222.3					24									
08   225.3   210.1   68   269.1   251.0   28   313.0   291.9   88   356.6   382.8   48   400.8   377.4   10   226.7   211.4   70   270.6   252.3   30   314.5   293.3   90   358.4   333.5   49   401.5   374.4   11   227.5   212.1   317.   271.3   233.0   313.1   527.3   293.9   49   359.1   334.9   551   403.0   375.8   12   228.2   212.8   72   272.1   253.7   32   316.0   294.6   92   359.8   335.5   52   403.7   376.5   13   228.9   213.5   73   272.8   254.4   33   316.0   294.6   92   359.8   335.5   552   403.7   376.5   14   229.7   214.2   74   273.5   255.1   34   317.4   296.0   94   361.3   336.9   551   405.2   377.8   15   230.4   214.8   75   274.3   255.8   35   318.1   296.7   56   362.0   337.6   55   406.6   379.2   16   231.1   215.5   76   275.0   256.4   36   318.9   297.4   96   362.8   333.3   56   406.6   379.2   17   231.8   216.2   77   275.7   257.7   257.1   37   319.6   298.0   97   363.5   383.9   57   409.8   18   232.6   216.9   78   276.5   257.8   38   320.3   298.7   98   364.2   336.6   58   408.1   379.8   19   233.3   317.6   79   277.2   258.5   39   321.1   299.4   934.9   364.9   340.3   59   408.8   381.2   20   234.0   218.2   80   277.9   259.5   403.2   303.0   500   367.7   341.0   60   409.6   6381.9   232   234.8   218.9   381   278.7   259.8   441   322.5   300.8   500   367.1   342.4   62   411.0   383.3   232   234.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.1   342.4   62   411.0   383.3   232   236.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.1   342.4   62   411.0   383.3   232   236.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.8   343.0   63   411.0   383.3   234   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   2		223.1													371.7	
08   225.3   210.1   68   269.1   251.0   28   313.0   291.9   88   356.6   382.8   48   400.8   377.4   10   226.7   211.4   70   270.6   252.3   30   314.5   293.3   90   358.4   333.5   49   401.5   374.4   11   227.5   212.1   317.   271.3   233.0   313.1   527.3   293.9   49   359.1   334.9   551   403.0   375.8   12   228.2   212.8   72   272.1   253.7   32   316.0   294.6   92   359.8   335.5   52   403.7   376.5   13   228.9   213.5   73   272.8   254.4   33   316.0   294.6   92   359.8   335.5   552   403.7   376.5   14   229.7   214.2   74   273.5   255.1   34   317.4   296.0   94   361.3   336.9   551   405.2   377.8   15   230.4   214.8   75   274.3   255.8   35   318.1   296.7   56   362.0   337.6   55   406.6   379.2   16   231.1   215.5   76   275.0   256.4   36   318.9   297.4   96   362.8   333.3   56   406.6   379.2   17   231.8   216.2   77   275.7   257.7   257.1   37   319.6   298.0   97   363.5   383.9   57   409.8   18   232.6   216.9   78   276.5   257.8   38   320.3   298.7   98   364.2   336.6   58   408.1   379.8   19   233.3   317.6   79   277.2   258.5   39   321.1   299.4   934.9   364.9   340.3   59   408.8   381.2   20   234.0   218.2   80   277.9   259.5   403.2   303.0   500   367.7   341.0   60   409.6   6381.9   232   234.8   218.9   381   278.7   259.8   441   322.5   300.8   500   367.1   342.4   62   411.0   383.3   232   234.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.1   342.4   62   411.0   383.3   232   236.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.1   342.4   62   411.0   383.3   232   236.2   220.3   83   280.1   260.5   42   232.3   301.4   02   367.8   343.0   63   411.0   383.3   234   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   242.2   2															372.4	
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16   231.1   215.5   76   275.0   256.4   36   318.9   297.4   96   362.8   338.3   56   406.6   379.2   18   232.6   216.9   78   276.5   257.8   38   320.3   298.7   98   364.2   339.6   58   407.4   19   233.3   217.6   79   277.2   259.2   40   321.8   300.1   500   365.7   341.0   60   409.6   381.9   20   234.0   218.2   80   277.9   259.2   40   321.8   300.1   500   365.7   341.0   60   409.6   381.9   22   235.5   219.6   82   279.4   260.5   42   323.3   301.4   02   367.1   342.4   410.3   382.6   23   236.2   220.3   83   280.1   261.2   43   324.0   302.1   03   367.8   343.0   63   411.8   344.0   25   237.7   221.0   84   280.8   261.9   44   322.5   303.8   60   348.4   340.3   63   411.8   344.0   25   237.7   221.7   85   281.6   262.6   45   325.5   303.5   65   369.3   344.4   65   412.5   384.6   25   237.7   221.7   85   281.6   262.6   45   325.5   303.5   65   369.3   344.4   65   412.5   384.6   26   238.4   222.3   86   282.3   263.9   47   336.9   304.9   07   370.8   345.8   67   414.7   386.7   28   239.9   223.0   87   233.0   263.9   47   336.9   304.9   07   370.8   345.8   67   414.7   386.7   28   239.9   241.4   225.1   30   286.5   266.0   50   329.1   306.2   09   372.3   347.1   09   416.2   388.1   30   241.4   225.1   30   286.5   266.0   50   329.1   306.2   09   372.3   347.1   09   416.2   388.1   31   242.1   225.7   30   286.7   266.0   50   329.1   306.9   10   373.0   347.8   70   416.9   388.7   32   242.8   226.4   92   286.7   267.3   52   330.6   308.3   31.0   16   377.4   351.9   70   416.9   388.7   32   243.8   226.4   92   286.7   267.3   52   330.6   308.3   31.0   377.5   346.5   68   415.4   377.4   32   242.8   226.4   92   286.7   267.3   52   330.6   308.3   31.0   377.5   348.2   349.2   72   418.3   399.1   32   242.8   226.4   92   286.7   267.3   52   330.6   331.0   31.0   377.4   351.9   378.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4   379.4	14		214.2	74	273.5	255. 1		317.4	296.0	94	361, 3	336. 9		405.2	377.8	
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321         234.8         218.9         381         278.7         298.8         441         322.5         300.8         501         366.1         311.7         561         410.3         382.6         22.235.5         219.6         682         279.4         260.5         42         323.3         301.1         02.3         367.1         342.4         62         411.0         383.3         303.1         03.3         367.8         341.0         63         411.8         384.0         23         21.7         21.7         82.1         26.2         21.2         43         324.7         302.1         03         367.8         341.0         63         411.8         384.0         22         223.0         82         280.2         262.6         45         325.7         303.5         50         393.3         341.4         65         411.8         382.3         282.2         282.3         283.3         283.3         283.3         283.3         301.9         273.0         301.9         373.0         345.1         66         414.0         386.0         282.2         303.0         304.9         373.0         347.1         69         416.2         383.1         304.0         373.3         347.1         69			217.0		277.0	250.0										
22         235         5         219         6         82         279.4         260.5         42         323.3         301.4         02         367.8         340.6         63         411.8         384.0         23         236.2         220.3         367.8         340.6         63         411.8         384.0         222.1         84         280.8         261.9         44         324.7         302.8         04         368.6         343.7         64         412.5         384.6         262.238.4         222.3         86         282.3         263.3         46         326.3         304.2         06         370.0         345.1         66         414.0         386.0         227.239.2         223.0         87         283.0         263.9         47         326.9         304.9         07         370.8         345.1         66         7414.7         386.7         267.2         282.9         292.2         283.0         283.9         283.9         293.0         283.9         343.4         346.2         266.7         448.3         287.7         355.3         346.9         347.3         348.3         347.1         69         416.2         388.1           321.2         21.2         21.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
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26         238.4         292.3         86         282.3         263.3         46         326.2         304.2         06         370.0         345.1         66         614.0         386.0           27         239.2         292.3         7         88         283.7         264.6         48         327.7         305.5         08         371.5         346.5         68         415.4         387.6           29         240.6         224.4         89         284.5         265.3         49         328.4         306.2         09         372.3         347.1         69         416.2         388.1           301         241.4         225.7         391         286.0         266.7         451         330.6         308.3         123.7         347.8         70         416.9         388.7           321         242.8         226.4         92         286.7         266.7         52         303.6         303.3         12         374.5         349.2         72         411.6         389.4           324.5         227.1         93         287.4         268.0         53         333.3         300.0         13         375.2         349.9         73         419.1	25		221.7											413. 2		
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40 248.7 231.9 400 292.6 272.8 60 336.5 313.7 20 380.3 354.6 80 424.2 385.6 341 249.4 232.6 401 293.3 273.5 461 337.2 314.4 521 381.1 355.5 581 2424.9 366.2 422.8 250.1 233.2 02 294.0 274.2 62 337.9 315.1 22 381.8 356.0 82 425.7 396.9 43 250.9 233.9 03 294.7 274.9 63 338.7 315.8 23 382.6 350.7 8 426.4 397.6 44 251.6 234.6 04 295.5 275.5 64 339.4 316.5 24 383.3 357.4 84 427.1 388.3 456.2 252.3 235.3 05 296.2 276.2 65 340.1 317.1 25 384.0 358.1 85 427.9 399.0 46 253.1 236.0 06 296.9 276.9 6 6 340.8 317.8 26 384.7 358.7 86 428.6 839.6 47 253.8 236.7 07 297.7 277.6 67 341.6 318.5 27 385.5 359.4 87 429.3 400.3 48 254.5 237.3 08 298.4 278.3 68 342.3 319.2 25 386.2 360.1 88 430.1 401.0 49 255.3 238.0 09 299.1 278.9 69 343.0 319.9 29 386.9 360.8 89 430.8 401.7 50 256.0 238.7 10 299.9 276.6 70 343.7 320.5 30 387.6 361.5 90 431.5 402.4 552.5 257.4 240.1 12 301.3 281.0 72 345.2 321.9 32 380.1 362.8 9 431.5 402.4 552.5 257.4 240.1 12 301.3 281.0 72 345.2 321.9 32 380.1 362.8 9 433.8 401.7 55 257.4 240.1 12 301.3 281.0 72 345.2 321.9 32 380.1 362.8 92 433.0 403.7 55 257.4 240.1 12 301.3 281.0 72 345.2 321.9 32 380.1 362.8 92 433.0 403.7 55 256.0 232.2 240.8 13 302.1 281.7 73 345.9 322.6 33 389.9 365.5 93 433.7 404.4 54 258.9 241.4 14 302.8 282.4 74 346.7 323.3 34.3 90.6 364.2 94 434.5 405.1 55 259.6 242.1 15 303.5 283.0 75 347.4 324.6 35 391.3 384.9 36.5 99 433.5 405.5 56 260.4 242.8 16 304.3 283.7 76 348.1 324.6 36 392.0 365.5 99 433.7 404.4 55 259.6 242.1 15 305.2 283.0 75 347.4 324.6 35 392.3 369.9 365.5 99 433.7 405.5 56 260.4 242.8 16 304.3 283.7 75 344.9 326.6 38 393.5 366.2 97 436.7 940.5 56 260.4 242.8 16 304.3 283.7 75 344.9 326.6 38 393.5 369.9 98 433.7 404.4 56 266.8 244.2 18 305.7 255.1 78 349.6 35.3 37 392.8 366.2 97 436.7 940.5 56 260.4 242.8 18 305.7 255.1 834.6 36.3 393.5 369.9 98 433.7 404.4 56.2 266.6 244.8 19 306.4 285.8 79 350.3 326.7 39 344.2 367.6 99 438.1 408.5 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 344.2 367.6 99 438.1 408.5 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 344.2 367.6 99 438.		247.2			291.1	271.4			312.4		378.9			422.7		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		247.9			291.8	272.1										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$																
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$														
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	42	$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					294.7	274.9					382.6			107 1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			235. 3		296.9	276. 9								427. 9		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			236, 0											428.6		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						277.6				27					400.3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	48	254.5	237.3	08	298.4	278.3	68	342.3	319.2	28	386.2	360.1	88	430.1	401.0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	49	255.3				278.9			319.9						401.7	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$																
53 258.2 240.8 13 302.1 221.7 73 345.9 322.6 33 389.9 363.5 93 433.7 404.4 54 258.9 241.4 14 302.8 282.4 74 346.7 323.3 34 390.6 364.2 94 434.5 405.1 55 259.6 242.1 15 303.5 283.0 75 347.4 324.0 35 391.3 364.9 95 435.2 405.8 56 260.4 242.8 16 304.3 283.7 76 348.1 324.6 36 392.0 365.5 96 435.9 406.5 57 261.1 243.5 17 305.0 224.4 77 348.9 325.3 37 392.8 366.2 97 436.7 407.2 58 261.8 244.2 18 305.7 285.1 78 349.6 326.0 38 393.5 366.2 97 436.7 407.2 58 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 394.2 367.6 98 437.4 407.8 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 30 394.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat.		256, 7														
54 258.9 241.4 14 302.8 282.4 74 346.7 323.3 34 300.6 364.2 94 434.5 405.1 55 259.6 242.1 15 303.5 230.0 75 347.4 324.0 35 391.3 364.9 95 435.2 405.8 56 260.4 242.8 16 304.3 283.7 76 348.1 324.6 36 392.0 365.5 96 435.9 406.5 57 261.1 243.5 17 305.0 284.4 77 348.9 325.3 37 392.8 366.2 97 436.7 407.2 58 261.8 244.2 18 305.7 285.1 78 349.6 236.0 38 303.5 366.9 98 437.4 407.2 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 394.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat.		257.4				281.0										
55 259.6 242.1 15 303.5 283.0 75 347.4 324.0 35 391.3 364.9 95 435.2 405.8 56 260.4 242.8 16 304.3 283.7 76 348.1 324.6 36 392.0 365.5 96 435.9 406.5 57 261.1 243.5 17 305.0 284.4 77 348.9 325.3 37 382.8 366.2 97 436.7 407.5 58 261.8 244.2 18 305.7 285.1 78 349.6 326.0 38 382.5 366.9 98 437.4 407.8 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 394.2 367.6 99 438.1 407.8 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat.						281.7										
56 260.4 242.8 16 304.3 283.7 76 348.1 324.6 36 392.0 365.5 96 435.9 406.5 57 261.1 243.5 17 305.0 284.4 77 348.9 325.3 37 392.8 366.2 97 436.7 407.2 58 261.8 244.2 18 305.7 285.1 78 349.6 326.0 38 303.5 366.9 98 437.4 407.2 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 304.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat.						282.4	74							434.5		
57 261.1 243.5 17 305.0 284.4 77 348.9 325.3 37 392.8 366.2 97 436.7 407.2 58 261.8 244.2 18 305.7 285.1 78 349.6 236.0 38 393.5 366.9 98 437.4 407.8 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 304.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat.							70		394.0							
58 261.8 244.2 18 305.7 285.1 78 349.6 226.0 38 393.5 366.9 98 437.4 407.8 59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 394.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat. Dist. Dep. L							77		325. 3							
59 262.6 244.8 19 306.4 285.8 79 350.3 326.7 39 384.2 367.6 99 438.1 408.5 60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep.   Lat. Dist.   Dep.   Dep.   Dep.   Lat. Dist. Dep.   D																
60 263.3 245.5 20 307.2 286.4 80 351.1 327.4 40 394.9 368.3 600 438.8 409.2 Dist. Dep. Lat. Lat. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.				19		285.8										
	60			20									600			
47° (133°, 227°, 313°).	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	
			-			4	7° (1	33°, 227	°, 313°	).						

## Page 618]

#### TABLE 2.

Difference of Latitude and Departure for 44° (136°, 224°, 316°).

			Differe	nce or	Dattitte	e and	гераги	ure for	44. ()	1501, 22	4-, 516	٠,٠			
Iri-t	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
1	0.7	0.7	61	43. 9	42, 4	121	87. 0	84.1	181	130, 2	125. 7	241	173.4	167. 4	
2	1.4	1.4	62	44.6	43. I	22	87. 8	84.7	82	130, 9	126.4	42	174.1	168, 1	
3	3.0	2. 1 2. 8	63	45.3	43. 8	23	88, 5	85, 4	-83	131.6	127.1	43	174.8	168.8	
4	2.9	2. 8	64	46.0	44.5	24	89, 2	86, 1	84	132.4	127. 8	44	175.5	169.5	
5	3.6	3.5	65	46.8	45, 2	25	89, 9	86, 8	85	133. 1	128.5	45	176, 2	170. 2	
6	4.3	4. 2	66	47.5	45. S	26	90, 6	87, 5	86	133. S	129, 2	46	177.0	170.9	
- 7	5, 0	4.9	67	48.2	46, 5	27	91.4	88, 2	87	134.5	129.9	47	177.7	171.6	
8 9 .	5, 8 6, 5	5, 6 6, 3	68 69	48, 9	47. 2	28 29	92, 1	44, 9	88 89	135, 2	130, 6	48	178, 4	172.3	
10	7. 2	6, 9	70	49, 6 50, 4	47, 9 48, 6	30	92. 8 93. 5	89, 6	90	136, 0 136, 7	131.3 132.0	49 50	179, 1	173.0	
11	7.9	7.6	$\frac{70}{71}$	51.1	49, 3	131	$=$ $\frac{691.0}{94.2}$	91.0	191			$\frac{30}{251}$	179, 8	173.7	
12	8,6	8.3	72	51. 8	50.0	32	95. 0	91.7	92	137, 4 138, 1	132. 7 133. 4	52	181, 3	174. 4 175. 1	
13	9. 4	9.0	73	52. 5	50, 7	33	95, 7	92.4	93	138, 8	134. 1	53	182. 0	175. 7	
14	10.1	9.7	74	53, 2	51.4	31	96, 4	93, 1	94	139, 6	134.8	54	182. 7	176. 4	
15	10.8	10.4	75	54.0	52. 1	35	97. 1	93, 8	95	140, 3	135, 5	55	183. 4	177.1	
16	11.5	11.1	76	54.7	52.8	- 36	97. 8	94.5	96		136, 2	56	184.2	177, 8	
17	12.2	11.8	77	55. 4	53, 5	37	98, 5	95, 2	97	141.7	136, 8	57	184.9	178.5	
18	12.9	12.5	78	56, 1	54.2	38	99, 3	95, 9	98	142.4	137.5	58	185.6	179, 2	
19	13. 7	13. 2	79	56. 8	54.9	39	100.0	96, 6	99		138. 2	59	186.3	179.9	
_ 20	14. 4	13, 9	80	_57, 5	55, 6	40	100, 7	97.3	200	143. 9	138, 9	60	187.0	180, 6	
21 22	15.1	14, 6 15, 3	81	58, 3	56, 3	141	101.4	97. 9	201		139.6	261	187.7	181.3	
23	15, 8 16, 5	16. 0	82 83	59, 0 59, 7	57. 0 57. 7	42 43	102, 1 $102, 9$	98, 6 99, 3	02	145.3 146.0	140.3	62 63	188, 5 189, 2	-182.0 $-182.7$	
24	17. 3	16. 7	84 1	60, 4	58, 4	44	103, 6	100, 0	04	146.7	141.0	61		183.4	
25	18, 0	17. 4	85	61. 1	59, 0	45	104, 3	100.7	05	147. 5	112.4	65	190, 6	181, 1	
26	18.7	18.1	86	61. 9	59.7	46	105, 0	101, 4	(16)	148, 2	143.1	66	191.3	184.8	
27	19.4	18.8	87	62. 6	60.4	47	105.7	102, 1	07	148.9	143.8	67	192.1	185, 5	
28	20. 1	19.5	88	63.3	61. I	48	106.5	102.8	0%	149, 6	144.5	68	192, 8	186, 2	
29	20, 9	20.1	89	64.0	61.8	49	107.2	103.5	60	150.3	145.2	69	193, 5	186, 9	
_30	21.6	20, 8	90 +	64.7	62.5	50	107.9	104. 2	_10	151.1	145, 9	70	194.2	187, 6	
31	22, 3	21.5	91	65, 5	63, 2	151	108, 6	104.9	211	151.8	146, 6	271	194. 9	188, 3	
32 33	23. 0 23. 7	22. 2	92 93	66, 2 66, 9	63, 9 64, 6	52 53	109, 3 110, 1	105, 6 106, 3	12 13	152, 5 153, 2	147. 3 148. 0	72 73	195, 7 196, 4	188, 9 189, 6	
34	21, 5	23, 6	94	67, 6	65, 3	51	110.1	100.5	14	153. 9	148, 7	74	197. 1	190, 3	
::5	25, 2	24. 3	95	68, 3	66, 0	55	111, 5	107. 7	15	154. 7	149, 4	75	197. 8	191.0	
36	25. 9	25. 0	516	69. 1	66, 7	56	112.2	108, 4	16	155, 4	150, 0	76	198, 5	191.7	
37	26, 6	25, 7	97	69, 8	67, 4	57	112.9	109. 1	17	156, 1	150.7	77	199.3	192, 4	
38	27.3	26.4	98	70.5	68.1	58	113.7	109, 8	18	156. 8	151.4	78	200, 0	193. 1	
39	28.1	27. 1	99	71. 2	68, 8	59	111.4	110.5	19	157, 5	152.1	79	200, 7	193, 8	
40	28. %	27. S	100	71.9	69, 5	- 60	115. 1	111.1	20	158, 3	152.8	_80	201.4	194, 5	
	$\begin{bmatrix} 11 & 29.5 & 28.5 & 101 & 72.7 & 70.2 & 161 & 115.8 & 111.8 & 221 & 159.0 & 153.5 & 281 & 202.1 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 195.2 & 1$														
43	31, 7	30, 6	0.3	74. 1	72.2	64	116.3	113.2	23	161. 1	155, 6	81	203. 6	196, 6	
45	32. 4	31, 3	05	75. 5	72. 9	65	118.7	114.6	25	161. 9	156, 3	85	205, 0	198. 0	
46	33. 1	32. 0	06	76. 3	73. 6	1915	119.4	115.3	26	162.6	157, 0	86	205. 7	198, 7	
47	33, 8	32. 6	07	77.0	74.3	67	120. 1	116, 0	27	163, 3	157, 7	87	206, 5	199, 4	
48	34.5	33. 3	-08	77.7	75, 0	68	120.8	116.7	28	164.0	158, 4	88	207.2	200, 1	
49	35, 2	34.0	-09	78. 4	75, 7	69	121.6	117. 4	29	164.7	159, 1	89	207, 9	200, S	
. 50	36, 0	34.7	10_	79, 1	76.4	70	122.3	118.1	30	165, 4	159, 8	_90	208. 6	201, 5	
51	36, 7	35.4	111	79. 8	77.1	171	123, 0	118, 8	231	166, 2	160, 5	291	209. 3	202, 1	
52	37. 1	36, 1	12	80, 6	77. 8	7.0	123. 7	119.5	32	166, 9	161. 2	92	210, 0	202. S	
53 54	38, 1 38, 8	36, 8 37, 5	13	81, 3 82, 0	78, 5 79, 2	73 74	124. ‡ 125. 2	120, 2 120, 9	33 34	167, 6 $168, 3$	161.9 162.6	93 94	210, 8 211, 5	203, 5 204, 2	
55 55	39, 6	38, 2	14	82.7	79, 9	75	125, 2	121, 6	35	168. 3	163. 2	95	211.0	204.9	
56	40, 3	38 9	16	83. 4	80, 6	76	126, 6	122.3	36	169, 8	163, 9	96	212.9	205, 6	
57	41.0	39, 6	17	84.2	81.3	77	127. 3	123.0	37	170.5	164.6	97	213. 6	206.3	
58	41.7	40, 3	is	84.9	82.0	73	128.0	123. 6	35	171.2	165, 3	98	214.4	207.0	
59	42.4	41.0	19	85, 6	82.7	79	128, 8	124.3	39	171.9	166, 0	99	215.1	207.7	
60	40.2	41.7	20	86.3	83, 4	80	129, 5	125, 0	40	172.6	186, 7	200	215, 8	208.4	
								1							
Dist	1000	Lat	Dist	[11.15	leit.	Dist	hip	Lat	Dist.	Dep.	Lu'.	D =0	Dep	Lat.	
1						642 . 13	21 996	91.63							

Difference of Latitude and Departure for 44° (136°, 224°, 316°).

l			Differe	ence of	Latitue	ie and	Depart	ure for	44 (	130 , 22	4 , 510	).		
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	216. 5	209. 1	361	259. 7	250.8	421	302, 8	292.5	481	346. 0	334. 1	541	389, 2	375. 8
02	217. 2	209.8	62	260. 4	251.5	22	303.6	293, 2	82	346. 7	334. 8	42	389. 9	376.5
03	218.0	210, 5	63	261. I	252. 2	23	304.3	293, 8	83	347.4	335.5	43	390.6	377. 2
04	218.7	211.2	64	261.8	252.9	24	305.0	294.5	84	348.2	336. 2	44	391.3	377.9
05	219.4	211.9	65	262.6	253.6	25	305.7	295, 2	85	348, 9	336. 9	45	392.0	378.6
06	220, 1	212.6	66	263.3	254. 3	26	306.4	295. 9	86	349, 6	337.6	46	392.8	379, 3
07	220.8	213, 3	67	264.0	254. 9	27	307. 2	296, 6	87	350.3	338.3	47	393.5	380.0
08	221.6	214.0	68	264.7	255. 6	28	307.9	297.3	88 89	351.0	339. 0	48	394. 2	380.7
09 10	222.3 223.0	214. 7 215, 4	69 70	265, 4 266, 2	256.3 257.0	29 30	308. 6 309. 3	298. 0 298. 7	90	351.7 352.5	339. 7 340. 4	49 50	394. 9 395. 6	381.4
	223. 7	216. 0		266. 9	257. 7	431	310.0	299. 4	491	353. 2				382.1
311 12	224. 4	216. 7	371 72	267.6	258, 4	32	310. 8	300.1	92	353. 9	341, 1 341, 8	$\frac{551}{52}$	396. 4 397. 1	382. 7 383. 4
13	225. 2	217. 4	73	268. 3	259. 1	33	311.5	300. 8	93	354.6	342.5	53	397. 8	384.1
14	225. 9	218. 1	74	269.0	259. 8	34	312. 2	301.5	94	355. 3	343. 2	54	398.5	384.8
15	226, 6	218.8	75	269.8	260, 5	35	312.9	302. 2	95	356.1	343.9	55	399, 2	385.5
16	227.3	219.5	76	270.5	261. 2	36	313, 6	302.9	96	356.8	344.6	56	400.0	386. 2
17	228.0	220.2	77	271.2	261.9	37	314.4	303.6	97	357.5	345. 2	57	400.7	386, 9
18	228.8	220.9	78	271.9	262.6	38	315. 1	304.3	98	358. 2	345.9	58	401.4	387.6
19	229, 5	221.6	79	272.6	263.3	39	315.8	305.0	99	358.9	346.6	59	402.1	388.3
20	230. 2	222.3	80	273.4	264.0	40	316.5	305.7	500	359.7	347.3	_60	402.8	389.0
321	230. 9	223.0	381	274. 1	264. 7	441	317. 2	306.4	501	360.4	348.0	561	403.6	389.7
22 23	231. 6 232. 3	223. 7 224. 4	82 83	274. 8 275. 5	265. 4 266. 1	42 43	318. 0 318. 7	307. 0	02 03	361. 1 361. 8	348.7	62	404.3	390.4
24 24	233. 1	225. 1	84	276. 2	266. 8	44	319.4	307.7	03	362, 5	349. 4 350. 1	63 64	405, 0 405, 7	391.1 391.8
25	233.8	225. 8	85	276. 9	267.5	45	320.1	309.1	05	363.3	350. 8	65	406. 4	392.5
26	234. 5	226.5	86	277. 7	268.1	46	320. 8	309. 8	06	364.0	351.5	66	407. 2	393. 2
27	235. 2	227. 2	87	278.4	268.8	47	321.5	310.5	07	364.7	352, 2	67	407.9	393. 9
28	235.9	227.9	88	279.1	269, 5	48	322, 3	311.2	08	365.4	352, 9	68	-108.6	394.6
29	236.7	228.6	89	279.8	270.2	49	323.0	311.9	-09	366, 1	353.6	69	409.3	395.3
30	237.4	229, 2	90	280, 5	270, 9	50	323. 7	312.6	10	366. 9	354.3	70	410.0	396. <b>0</b>
331	238. 1	229, 9	391	281.3	271.6	451	324.4	313. 3	511	367, 6	355.0	571	410.7	396.7
32	238.8	230. 6	92	282.0	272.3	52	325.2	314.0	12	368.3	355. 7	72	411.5	397.3
33 34	239, 5 $240, 3$	231.3	93 94	282.7 $283.4$	$\begin{array}{c} 273.0 \\ 273.7 \end{array}$	53	325. 9	314.7	13 14	369.0	356.4	73	412. 2 412. 9	398.0
35	241.0	232. 0 232. 7	95	284.1	274.4	54 55	326. 6 327. 3	315.4 316.1	15	369. 7 370. 5	357. 1 357. 8	74 75	413.6	398.7 399.4
36	241.7	233, 4	96	284. 9	275. 1	56	328.0	316.8	16	371.2	358, 4	76	414.3	400.1
37	242.4	234. 1	97	285, 6	275.8	57	328.7	317.5	17	371.9	359.1	77	415. 1	400.8
38	243.1	234.8	98	286.3	276.5	58	329.5	318.2	18	372.6 373.3	359. 8	78	415.8	401.5
- 89	243.9	235.5	99	287.0	277.2	59	330, 2	318, 9	19	373.3	360.5	79	416.5	402.2
-2()	244.6	236. 2	400	287.7	277.9	60	330. 9	319.6	20	374.1	361.2	_80	417.2	402.9
341	245, 3	236.9	401	288.5	278.6	461	331.6	320.2	521	374. 8	361.9	581	417. 9	403.6
42	246. 0	237.6	02	289. 2	279.3	62	332, 3	320. 9	22	375.5	362. 6	82	418.7	404.3
43 44	246, 7 $247, 5$	238. 3 239. 0	03 04	289, 9 290, 6	280. 0 280. 7	63 64	333, 1 333, 8	321.6 322.3	23 24	376. 2 376. 9	363.3	83 84	419.4	405.0
45	248.2	239. 7	05	291.3	281. 3	65	334, 5	323. 0	25	377.7	364. 0 364. 7	85	420. 1 420. 8	405. 7 406. 4
46	248. 9	240. 4	06	292. 1	282, 0	66	335, 2	323. 7	26	378.4	365. 4	86	421.5	407.1
47	249.6	241.1	07	292.8	282.7	67	335.9	324. 4	27	379.1	366.1	87	422.3	407.8
48		241.7	08	293.5	283.4	68	336.7	325, 1	28	379.8	366.8	88	423.0	408.5
49	251.1	242, 4	- 09	294.2	284.1	69	337.4	325, 8	29	380, 5	367.5	89	423.7	409.1
50	251.8	243.1	10	294. 9	284.8	_70	338.1	326.5	30	381.2	368. 2	90	424.4	409.9
351	252.5	243, 8	411	295. 7	285.5	471	338. 8	327. 2	531	382. 0	368. 9	591	425, 1	410.5
52	253, 2	244.5	12	296. 4	286. 2	72	339.5	327. 9	32	382. 7	369, 6	92	425. 9	411.2
53 54	253.9 254.6	245, 2 245, 9	13 14	297.1 $297.8$	286.9 $287.6$	73	340.3 341.0	$328.6 \\ 329.3$	33	383. 4 384. I	370.3 371.0	93 94	426.6	411.9
55	255, 4	246.6	15	297.8	288.3	74 75	341.7	330, 0	34 35	384.1	371.7	95	427.3 428.0	412. 6 413. 3
56	256. I	247. 3	16	299. 2	289. 0	76	342.4	330, 7	36	385. 6	372, 4	96	428.7	414.0
57	256. 8	248. 0	17	300.0	289. 7	77	343. 1	331.4	37	386.3	373, 1	97	429.5	414.7
58	257.5	248. 7	18	300.7	290.4	78	343.8	332. 1	38	387.0	373. 7	98	430. 2	415.4
59	258.2	249.4	19	301.4	291.1	79	344.6	332.7	39	387.7	374.4	99	430. 9	416.1
60	259, 0	250.1	20	302. I	291.8	80	345.3	333.4	40	388.4	375, 1	600	431.6	416.8
-			-			-								
Dist.	Dep.	Lat.	Dist. ;	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist,	Dep.	Lat.
						20 /20		0.7.10						

Page 620]

TABLE 2.

Difference of Latitude and Departure for 45° (135°, 225°, 315°).

l							A			,					
Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	
1	0. 7	0.7	61	43. 1	43. 1	121	85. 6	85. 6	181	128.0	128.0	241	170.4	170.4	
2 3	1.4	1.4	62	43.8	43.8	22	86.3	86.3	- 82	128, 7	128.7	42	171.1	171.1	
3	2. 1	2.1	63	44.5	44.5	23	87.0	87.0	-83	129.4	129, 4	43	171.8	171.8	
4	2. 8	2, 8	64	45, 3	45, 3	24	87.7	87.7	84	130.1	130.1	44	172.5	172.51 $173.2$	
5	3.5	3, 5	65	46, 0	46.0	25	88, 4	88.4	85	130.8	130.8	45	173.2	173.2	
6 -	4.2	4. 2	- 66	46. 7	46.7	26	89. 1	89.1	-86	131.5	131.5	46	173.9	173.9	
- 7	4.9	4.9	67	47. 4	47.4	27	89. 8	89.8	87	132. 2	132. 2	47	174.7	174.7	
S	5. 7	5. 7	68	48. 1	48.1	28 29	90.5	90.5	88	132.9	132.9	48	175.4	175.4	
9 10	6. 4 7. 1	6. 4	69 70	48.8 49.5	48, 8 49, 5	30	91. 2 91. 9	91. 2 91. 9	89 90	133. 6 134. 4	133, 6 134, 4	49 50	176.1 $176.8$	176.1 $176.8$	
		$-\frac{7.1}{7.8}$		50. 2			92.6	92.6	191	135, 1	135.1	$\frac{30}{251}$	177.5	177.5	
11 12	7. 8 8. 5	8.5	71	50. 9	50. 2 50. 9	131 32	93. 3	93.3	92	135. 8	135, 8	52	178.2	178.2	
13	9, 2	9. 2	72 73	51.6	51.6	33	94. 0	94. 0	93	136.5	136. 5	53	178.9	178.9	
14	9. 9	9.9	74	52. 3	52. 3	34	94.8	94.8	94	137. 2	137. 2	54	179.6	179.5	
15	10.6	10.6	75	53, 0	53. 0	35	95.5	95. 5	95	137. 9	137. 9	55	180.3	140.3	
16	11.3	11.3	76	53. 7	53, 7	36	96. 2	96, 2	96		138.6	56	181.0	181.0	
17	12.0	12.0	77	54.4	54.4	37	96. 9	. 96, 9	97	139.3	139.3	57	181.7	181.7	
18	12.7	12.7	78	55, 2	55, 2	38	97.6	97.6	98	140.0	140.0	58	182.4	182.4	
19	13.4	13.4	79	55.9	55.9	39	98, 3	98.3	99	140.7	140.7	59	183, 1	183, 1	
20	14. 1	14.1	80	56. 6	56.6	40	99, 0	99, 0	200	141.4	141.4	_60	183, 8	183, 8	
21	14.8	14.8	81	57.3	57.3	141	99.7	99.7	201	142.1	142.1	261	184.6	154.6	
22	15.6	15, 6	82	58, 0	-58.0	42	100, 4	100.4	02	142, 8	142.8	62	185, 3	185.3	
23	16, 3	16.3	-83	58.7	58. 7	43		101, 1	- 03	143.5	143.5	-63	186, 0	186.0	
24	17.0	17.0	84	59. 4	59.4	44	101.8	101.8	04	144. 2	144.2	64	186.7	186.7	
25	17. 7	17. 7	85	60. 1	60, 1	45	102.5	102.5	05	145.0	145.0	65	187.4	187.4 188.1	
26	18. 4	18, 4 19, 1	86 87	60, 8 61, 5	60.8 61.5	46 47	103, 2 $103, 9$	103, 2 103, 9	06 07	145, 7 $146, 4$	145.7 146.4	66 67	188.8	158.8	
27 28	19. I 19. 8	19, 8	88	62. 2	62. 2	48	104.7	104. 7	08	147.1	147. 1	68	189.5	189.5	
29	20.5	20, 5	89	62. 9	62. 9	49	105, 4	105.4	09	147. 8	147. 8	69	190, 2	190, 2	
30	21. 2	21.2	90	63. 6	63, 6	50	106. 1	106.1	10	148.5	148, 5	70	190.9	190, 9	
31	21. 9	21.9	91	64.3	64.3	151	106, 8	106, 8	211	149. 2	149. 2	271	191.6	191.6	
32	22. 6	22.6	92	65, 1	65, 1	52	107.5	107.5	12	149, 9	149, 9	72	192, 3	192.3	
33	23, 3	23. 3	93	65, 8	65, 8	53	108, 2	108, 2	13	150, 6	150, 6	73	193.0	193, 0	
34	24.0	24.0	94	66, 5	66, 5	54	108, 9	108.9		151.3	151.3	74	193, 7	193.7	
35	24.7	24.7	95	67.2	67.2	55	109, 6	109, 6		152.0	152.0	75	194.5	194.5	
36	25, 5	25, 5	96	67. 9	67. 9	56	110.3	110.3		152, 7	152.7	76	195, 2	195, 2	
37	26, 2	26, 2	97	68, 6	68, 6	57	111.0	111.0		153.4	153.4	77	195, 9	195.9	
38	26, 9	26, 9	98 99	69, 3 70, 0	69. 3	58 59	111.7 112.4	111.7 112.4	18 19	154, 1 154, 9	154. 1 154. 9	78 79	196, 6 197, 3	196, 6 197au	
39 40	27. 6 28. 3	27.6 $28.3$	100	70.7	70. 0 70. 7	60	113, 1	113. 1	20	155, 6	155, 6	80	198.0	198, 0	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
44	31. 1	31. 1	04	73. 5	73.5	64	116.0	116, 0		158. 4	158.4	84	200, 8	200, 8	
45	31, 8	31. 8	05	74.2	74.2	65	116.7	116, 7	25	159. 1	159, 1	85	201.5	201.5	
46	32.5	32. 5	-06	75, 0	75, 0	66	117.4	117.4		159, 8	159, 8	86	202.2	202.2	
47	33. 2	33. 2	()7	75, 7	75.7	67	118.1	-118.4		160, 5	160, 5	87	202.9	202, 9	
48	33.9	33, 9	115	76, 4	76, 4	65	118, 8	118, 8		-161.2	161.2		203, 6	203, 6	
49	34.6	34, 6	09	77.1	77.1	69	119.5	-119, 5		161.9	161.9	89	204.4	204, 4	
50	35, 4	_35, 4	10	77.8	77.8	70	120, 2	120, 2	30	162, 6	162, 6	500	205.1	205.1	
51	36. 1	36. 1	111	78.5	78.5	171	120, 9	-120, 9	231	163. 3	163, 3	291	205, 8	205, 3	
52	36, 8	36, 8	12	79. 2	79. 2	72 73	121.6	121.6		164.0	164, 0	92	206, 5	206.5	
53	37. 5	37. 5	13	79, 9	79, 9	- 1	122. 3 123. 0	$\frac{122.3}{123.0}$	33	164, 8 165, 5	-164, 8 -165, 5	93	207, 2	207, 2 207, 5	
54	38, 2	38, 2 38, 9	14	80, 6	80, 6 81, 3	74 75	123. 0	-123.0 $-123.7$	35	168, 2	166, 2	95	205, 6	205.4	
55 56	39, 6	39, 6	16	82.0	S1. 3 S2. 0	76	124.5	-125.7 $-124.5$		166, 9	166, 9	100	209, 3	200.3	
57	40.3	10, 3	17	82.7	\$2.7	76	125, 2	125. 2	37	167.6	167.5	197	210.0	210.0	
55	41.0	41.0	1 18	\$3.4	53. 4	78	125. 9	125, 9		168, 3	168.0	115	210.7	230.7	
59	41.7	41.7	19	84.1	84.1	79	126, 6	126, 6		169, 0	169, 0	90	211.4	211.4	
60	12. 1	12. 1	20	81.9	84.9	50	127. 3	127. 3		169.7	169.7	200	212. 1	212.1	
1			1			1			1					_	
Dist	Dep.	Last.	Dist.	Dep.	Lat.	Dist	Lep	Lat.	Dist.	Dep.	Int	Dist.	Dep	Lat.	
1									•			•			
						45 (1	35°, 225	c. 315°	١.						

Difference of Latitude and Departure for 45° (135°, 225°, 315°).

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
301	212.8	212.8	361	255.3	255. 3	421	297.7	297. 7	481	340.1	340.1	541	382.5	382.5
02	213.5	213.5	62	256.0	256.0	22	298.4	298.4	82	340.8	340.8	42	383. 2	383. 2
03	214.3	214.3	63	256, 7	256.7	23	299.1	299. 1	83	341.5	341.5	43	383, 9	383.9
04	215.0	215.0	64	257.4	257.4	24	299, 8	299.8	84	342. 2	342. 2	44	384.7	384.7
05	215. 7	215.7	65	258.1	258.1	25	300, 5	300.5	85	342.9	342.9	45	385, 4	385, 4
06	216.4	216.4	- 66	258.8	258.8	26	301. 2	301.2	86	343.6	343.6	46	386.1	386.1
07	217.1	217.1	67	259, 5	259, 5	27	301.9	301.9	87	344.3	344.3	47	386. 8	386, 8
08	217, 8	217. 8	68	260, 2	260.2	28	302.6	302.6	88	345. 1	345.1	48	387.5	387.5
09	218, 5	218.5	69	260. 9	260.9	29	303, 4	303.4	89	345.8	345.8	49	388. 2	388. 2
10	219, 2	219, 2	70	261, 6	261.6	30	304.1	304. 1	90	346.5	346.5	50	388. 9	388.9
311	219, 9	219, 9	371	262.3	262.3	431	304.8	304, 8	491	347. 2	347. 2	551	389, 6	389. 6
12	220.6	220.6	72 73	263.0	263.0	32	305.5	305, 5	92	347.9	347. 9	52	390.3	390.3
13	221, 3	221.3	73	263.8	263.8	33	306. 2	306, 2	93	348, 6	348.6	53	391.0	391.0
14	222.0	222.0	74	264.5	264.5	34	306.9	306.9	94	349.3	349.3	54	391.7	391.7
15	222.7	222.7	75	265.2	265.2	35	307.6	307.6	95	350.0	350.0	55	392.4	392.4
16	223.4	223.4	76	265.9	265.9	36	308.3	308.3	96	350.7	350.7	56	393. 1	393.1
17	224.2	224.2	77	266.6	266. 6	37	309.0	309.0	97	351.4	351.4	57	393, 9	393.9
18	224.9	224.9	78	267.3	267.3	38	309.7	309. 7	98	352. 1	352, 1	58	394.6	394.6
19	225.6	225. 6	79	268.0	268.0	39	310.4	310.4	99	352, 8	352, 8	59	395. 3	395, 3
_20	226.3	226, 3	80	268.7	268.7	40	311.1	311.1	500	353. 5	353. 5	_60_	396, 0	396. 0
321	227.0	227.0	381	269.4	269.4	441	311.8	311.8	501	354.3	354. 3	561	396. 7	396.7
22	227. 7	227.7	82	270.1	270.1	42	312.5	312.5	02	355. 0	355.0	62	397.4	397.4
23	228.4	228.4	83	270.8	270.8	43	313.3	313.3	03	355.7	355, 7	63	398.1	398.1
24	229, 1	229.1	84	271.5	271.5	44	314.0	314.0	04	356. 4	356. 4	64	398. 8	398.8
25	229, 8	229.8	85	272.2	272.2	45	314.7	314.7	05	357.1	357.1	65	399.5	399.5
26	230.5	230, 5	86	272.9	272.9	46	315.4	315.4	-06	357.8	357. S	66	400.2	400.2
27	231.2	231. 2	87	273.7	273.7	47	316.1	316.1	07	358.5	358.5	67	400.9	400.9
28	231.9	231.9	88	274.4	274.4	48	316.8	316.8	08	359. 2	359, 2	68	401.6	401.6
29	232, 6	232. 6	89	275.1	275.1	49	317.5	317.5	09	359.9	359, 9	69	402.3	402.3
30	233. 3	233, 3	90	275.8	275.8	50	318. 2	318. 2	10	360.6	360. 6	_70	403.0	403.0
331	234. 1	234.1	391	276.5	276.5	451	318.9	318. 9	511	361.3	361.3	571	403.8	403.8
32	234.8	234.8	92	277.2	277.2	52	319.6	319.6	12	362.0	362.0	72	404.5	404.5
33	235.5	235.5	93	277.9	277.9	53	320.3	320.3	13	362. 7	362.7	73	405.2	405. 2
34	236, 2	236.2	94	278.6	278.6	54	321.0	321.0	14	363.5	363.5	74	405, 9	405.9
35	236, 9	236. 9	95	279.3	279.3	55	321.7	321.7	15	364.2	364.2	75	406.6	406.6
36	237.6	237.6	96	280.0	280.0	56	322. 4	322.4	16	364.9	364.9	76	407.3	407.3
37	238.3	238.3	97	280.7	280.7	57	323. 2	323. 2	17	365. 6	365. 6	77	408.0	408.0
38	239, 0	239.0	98	281.4	281.4	58	323.9	323.9	18	366.3	366.3	78	408.7	408.7
39	239.7	239. 7	99	282.1	282. 1	59	324.6	324.6	19	367. 0	367.0	79	409.4	409.4
40	240.4	240.4	400	282.8	282.8	60	325.3	325.3	20	367.7	367.7	80	410.1	410.1
341	241.1	241.1	401	283.6	283.6	461	326.0	326. 0	521	368.4	368. 4	581	410.8	410.8
.42	241.8	241.8	02	284.3	284.3	62	326.7	326. 7	22	369.1	369.1	82	411.5	411.5
43	242.5	242.5	03	285.0	285.0	63	327.4	327.4	23	369.8	369, 8	83	412.2	412.2
44	243. 2	243. 2	04	285.7	285. 7	64	328.1	328.1	24	370.5	370.5	84	412.9	412.9
45	244.0	244.0	05	286.4	286.4	65	328.8	328.8	25	371.2	371. 2	85	413.7	413.7
46	244.7	244.7	06	287.1	287.1	66	329. 5	329.5	26	371.9	371. 9	86	414.4	414.4
47 48	245.4 246.1	245. 4 246. 1	$\begin{bmatrix} 07 \\ 08 \end{bmatrix}$	287.8 $288.5$	287. 8	67	330. 2	330.2	27 28	372. 6 373. 4	372.6	87 88	415.1	415. 1 415. 8
48	246, I 246, S	$\frac{246.1}{246.8}$	08	289.2	$   \begin{array}{c}     288, 5 \\     289, 2   \end{array} $	68 69	330. 9	330.9	28 29	374.1	373. 4 374. 1	89 89	415. 8 416. 5	416.5
50	240. 8	247.5	10	289.2	289. 2	70	331. 6 332. 3	331. 6 332. 3	30	374.1	374. 8	90	417. 2	417. 2
						·								
351	248, 2	248, 2	411	290.6	290. 6	471	333.1	333. 1	531	375.5	375. 5	591	417.9	417. 9
52	248. 9	248.9	12	291.3	291. 3	72	333.8	333.8	32	376.2	376. 2	92	418.6	418.6
53 54	249, 6 250, 3	249.6 250.3	13	292. 0 292. 7	292. 0 292. 7	73 74	334.5 335.2	334. 5 335. 2	33 34	376.9 377.6	376.9 377.6	93	419.3 420.0	419.3 420,0
55	251. 0	250. 3 251. 0	14 15	293. 5	293.5	75	335, 9	335. 9	34	378.3	378.3	94 95	420.0	420.0
56	251.7	-251.0 $-251.7$	16	294, 2	294. 2	76			36	379.0	379.0	96 96	420.7	420.7
57	252.4	251. 7 252. 4	17	294. 2	294. 2	77	336.6 337.3	336. 6 337. 3	37	379.0	379.7	96	$\frac{421.4}{422.1}$	421.4
58	253. 1	253.4 $253.1$	18	295, 6	295, 6	78	338.0	338.0	38	380.4	380. 4	98	422. 1	422. 1
59	253.9	253. 9	19	296.3	296.3	79	338.7	338.7	39	381, 1	381.1	99	423.6	423.6
60	254.6	254. 6	20	297. 0	297. 0	80	339.4	339. 4	40	381.8	381. 8	600	424.3	424.3
00	202.0	±04. €	20	207.0	201.0		999. 4	338, 4	30	001.0	301.0	000	454.0	454.0
Die	Thur.	T t	Dist	D	Tot	Dist	D	Tut	Dist	Don	Lot	Triot	T)r.	Tot
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
1														



## Meridional Parts, or Increased Latitudes.

rendiqual	ranto,	OI	increased	Daniud
	Cor	np.	$\frac{1}{293.465}$	

M.	0°										
		1°	20	3°	40	50	6°	70	8º	90	М.
0	0.0	59. 6	119. 2	178. 9	238. 6	298.3	358. 2	418. 2	478.3	538, 6	0
1 i l	1.0	60, 6	20. 2	79. 9	39, 6	99.3	59, 2	19. 2	79.3	39, 6	1
2 3	2. 0	61.6	21.2	80.8	40.6	300.3	60.2	20. 2	80.3	40.6	2
3	3.0	62.6	22. 2	81.8	41.6	01.3	61.2	21.2	81.3	41.6	3
4	4.0	63.6	23. 2	82.8	42.5	02.3	62. 2	22.2	82.3	42.6	4
5	5. 0 6. 0	64. 6 65. 6	124. 2 25. 2	183. 8 84. 8	243, 5 44, 5	303, 3 04, 3	363, 2 64, 2	423. 2 24. 2	483. 3 84. 3	543. 6 44. 6	5 6
6 7	7.0	66, 5	26. 2 26. 2	84. 8 85. 8	44. 5	05.3	65. 2	24. 2	84. 3 85. 3	44.6	7
8	7. 9	67.5	27. 2	86, 8	46, 5	06. 3	66. 2	26. 2	86.3	46.6	8
9	8.9	68.5	28. 2	87. 8	47.5	07. 3	67. 2	27. 2	87.3	47.6	9
10	9.9	69. 5	129.1	188.8	248.5	308.3	368, 2	428. 2	488.3	548, 6	10
11	10.9	70.5	30. 1	89. 8	49.5	09.3	69. 2	29. 2	89.3	49.6	11
12	11.9	71.5	31.1	90.8	50.5	10.3	70. 2	30. 2	90.4	50.6	12
13	12. 9	72.5	32.1	91.8	51.5	11.3	71.2	31.2	91.4	51.7	13
14	13.9	73, 5	33, 1	92.8	52.5	12.3	72.2	32. 2	92.4	52.7	14
15	14. 9	74. 5	134.1	193. 8	253. 5	313. 3	373. 2	433. 2	493.4	553.7	15
16	15. 9	75.5	35. 1	94.8	54.5	14.3	74.2	34. 2	94.4	54.7	16
17	16.9	76. 5	36.1	95.8	55. 5	15. 3	75. 2	35. 2	95, 4	55.7	17
18 19	17. 9 18. 9	77. 5 78. 5	37. 1 38. 1	96. 8 97. 8	56. 5 57. 5	16.3 17.3	76. 2 77. 2	36. 2 37. 2	96. 4 97. 4	56. 7 57. 7	18 19
$-\frac{19}{20}$				198.8	258. 5	$\frac{17.3}{318.3}$	$\frac{77.2}{378.2}$	438. 2	498. 4	558.7	20
20	19. 9 20. 9	79. 5 80. 5	139. 1 40. 1	99.7	208. 5 59. 5	19.3	79, 2	39. 2	99. 4	59.7	21
22	21. 9	81.5	41.1	200. 7	60.5	20.3	80. 2	40. 2	500.4	60. 7	22
23	22.8	82.4	42. 1	01. 7	61.5	21.3	81. 2	41. 2	01.4	61. 7	23
24	23. 8	83. 4	43. 1	02. 7	62.5	22. 3	82, 2	42, 2	02.4	62. 7	24
25	24, 8	84. 4	144.1	203. 7	263. 5	323. 3	383, 2	443, 2	503, 4	563. 7	25
26	25.8	85.4	45. 1	04.7	64.5	24.3	84, 2	44, 2	04.4	64.7	26
27	26.8	86.4	46.0	05.7	65.5	25, 3	85, 2	45. 2	05.4	65.7	27
28	27.8	87.4	47.0	06.7	66. 5	26. 3	86.2	46. 2	06.4	66.8	28
29	28.8	88.4	48.0	07.7	67.4	27. 3	87.2	47.2	07.4	67.8	29
30	29.8	89.4	149.0	208. 7	268.4	328.3	388. 2	448. 2	508.4	568. 8	30
31 32	30. 8 31. 8	90.4	50. 0 51. 0	09. 7 10. 7	69.4	29. 3 30. 3	89. 2 90. 2	49. 2 50. 2	09. 4 10. 4	69. 8 70. 8	31 32
33	31.8	91.4 92.4	52.0	10.7	70.4 $71.4$	31. 3	90.2	51.2	11.4	70.8	33
34	33. 8	93.4	53.0	12.7	72. 4	32.3	92. 2	52. 2	12.4	72.8	34
35	34.8	94.4	154, 0	213. 7	273. 4	333. 3	393. 2	453. 2	513. 4	573.8	35
36	35. 8	95.4	55.0	14.7	74. 4	34.3	94. 2	54.3	14.5	74.8	36
37	36.7	96. 4	56, 0	15. 7	75. 4	35. 3	95. 2	55.3	15.5	75.8	37
38	37.7	97.3	57.0	16. 7	76. 4	36, 2	96.2	56. 3	16.5	76. 8	38
39	38.7	98.3	58.0	17.7	77.4	37.2	97. 2	57.3	17. 5	77.8	39
40	39.7	99.3	159.0	218. 7	278.4	338. 2	398.*2	458. 3	518.5	578.8	40
41	40.7	100.3	60.0	19.7	79.4	39. 2	99. 2	59.3	19. 5	79. 9	41
42	41. 7 42. 7	01.3	61.0	20.6	80.4	40. 2	400. 2	60.3	20. 5	80. 9	42
43	42.7	02.3	62.0	$21.6 \\ 22.6$	81.4	41. 2	01.2	61. 3 62. 3	21.5	81. 9 82. 9	43 44
41	43.7	03.3	63.0		82.4	42.2	02, 2		22.5		
45 46	44.7	104. 3 05. 3	164. 0 65. 0	223. 6 24. 6	283, 4 84, 4	343. 2 44. 2	403. 2 04. 2	463.3 64.3	523. 5 24. 5	583. 9 84. 9	45 46
46	45. 7 46. 7	06.3	66.0	25.6	84. 4 85. 4	44. 2 45. 2	04. 2	65.3	24.5	84. 9 85. 9	47
48	47.7	07.3	67. 0	26.6	86.4	46, 2	06. 2	66.3	26.5	86.9	48
49	48.7	08.3	68. 0	27.6	87.4	47. 2	07. 2	67.3	27.5	87.9	49
50	49.7	109.3	168.9	228, 6	288.4	348, 2	408. 2	468.3	528.5	588. 9	50
51	50.7	10.3	69. 9	29.6	89.4	49. 2	09. 2	69. 3	29.5	89.9	51
52	51.6	11.3	70.9	30.6	90.4	50.2	10.2	70.3	30.5	90.9	52
53	52.6	12.3	71.9	31.6	91.4	51. 2	11. 2	71.3	31.5	91.9	53
54	53.6	13. 2	72.9	32.6	92.4	52. 2	12.2	72.3	32.5	93.0	54
55	54.6	114. 2	173.9	233. 6	293. 4	353. 2	413, 2	473. 3	533. 5	594.0	55
56	55. 6 56. 6	15. 2 16. 2	74. 9 75. 9	34. 6 35. 6	94.4	54. 2 55. 2	14, 2 15, 2	74.3 75.3	34. 6 35. 6	95, 0 96, 0	56 57
57 58	57.6	16. 2 17. 2	76.9	36, 6	95. 4 96. 3	56. 2 56. 2	15. 2 16. 2	76.3	35. 6 36. 6	96.0	58
59	58.6	18. 2	77.9	37.6	96.3	56. 2 57. 2	17. 2	77.3	37.6	98.0	59
M.	00	10	20	30	40	50	60	70	80	90	М.

Page 622]

### TABLE 3.

# Meridional Parts, or Increased Latitudes.

М.	10-	110	15	13°	14	15	16°	170	181	195	М.
Ü	599, 0	659, 6	720. 5	781.5	842.8	904. 4	966. 3	1028.5	1091.0	1153. 9	0
1	600, 0	60, 6	21.5	82. 5	43. 9	05.4	67.3	29.5	92.0	54. 9	1
2	01.0	61. 7	22.5	83, 6	44.9	06, 5	68.3	30.5	93. 1	56, 0	2
3	02.0	62. 7	23, 5	84. 6	45. 9	07. 5	69. 4	31. 6	94. 1	57. 0	3
	$=\frac{03,0}{0}$	63. 7	24.5	85, 6	46, 9	= 08, 5	70.4	32.6	95, 2	58.1	4
5	604. 1	664. 7	725.5	786, 6	847.9	909.6	971.4	1033. 7	1096. 2	1159.1	5
6	05.1	65. 7	26. 6	87. 6	49.0	10, 6	72.5	34. 7	97.3	60, 2	6
- 7	06.1	66. 7 67. 7	$\frac{27.6}{28.6}$	85, 7 89, 7	50. 0 51. 0	$\frac{11.6}{12.6}$	73. 5 74. 6	35, 7 36, 8	98, 3 99, 4	61. 2 62. 3	7 8
9	08.1	68.7	28, 6	90.7	51.0 52.0	13. 7	74. 6 75. 6	36. 8 37. 8	1100.4	63, 3	. 8 . 9
	609. 1	669. 8	$\frac{20.6}{730.6}$	$=\frac{30.7}{791.7}$	853, 1	914. 7		1038.9		1164.4	10
10	10, 1	70, 8	31.6	92.7	54. 1	15, 7	77.7	39, 9	02.5	65.4	11
12	11. 1	71.8	20.7	93. 8	55, 1	16. 8	78.7	40. 9	02. 5	66, 5	12
13	12. 1	72.8	32. 7 33. 7	94, 8	56, 1	17. 8	79. 7	42, 0	04.6	67. 5	
14	13. 1	73. S	34. 7	95, S	57. 2	18, 8	80. 8	43, 0	05, 6	68. 6	14
15	614.1	674.8	735. 7	796, 8	858.2	919.8	981.8	1044.1	1106.7	1169. 7	15
16	15. 2	75, 8	36. 7	97. S	59. 2	20, 9	82.8	45. 1	07. 7	70.7	16
17	16. 2	76. S	37.7	98.9	60, 2	21. 9	83. 9	46, 1	08.8	71.8	17
18	17. 2	77. 9	38.8	99.9	61. 3	22.9	84. 9	47. 2	09, 3	72. 8	18
19	18.2	78.9	39, 8	800, 9	62.3	24. 0	85.9	48.2	10.9	73, 9	19
20	619. 2	679. 9	740. 8	801.9	863, 3	925. 0	987.0	1049, 3	1111.9	1174.9	20
21	20. 2	80.9	41. 8	02. 9	64. 3	26. 0	88.0	50.3	13. 0	76, 0	21
1)-)	21. 2	81.9	42.8	04. 0	65, 4	27. 1	89. 0	51.3	14.0	77.0	22
23	22. 2	82.9	43. 8	05. 0	66, 4	28. 1	90. 1	52.4	15. 0	78.1	23
24	23. 2	83, 9	44.9	06, 0	67. 4	29, 1	91.1	53. 1	16.1	79. 1	24
25	624.2	684. 9	745. 9	807. 0	868, 5	930. 1	992.1	1054, 5	1117.1	1180.2	25
26	25.3	86.0	46, 9	08.1	69, 5	31. 2	93. 2	55, 5	18. 2	81. 2	26
27	26.3	87. 0	47. 9	09. 1	70.5	32. 2	94. 2	56, 6	19. 2	82.3	27
28	27.3	88, 0	48.9	10, 1	71.5	33. 2	95, 3	57, 6	20, 3	83, 3	28
293	28, 3	89, 0	49.9	11.1	72.6	34.3	96, 3	58, 6	21.3	84 4	29
30	629, 3	690, 0	751.0	812.1	873, 6	935, 3	997.3	1059, 7	1122.4	1185, 5	
31	30. 3	91.0	52.0	13. 2	74.6	36, 3	98.4	60.7	23.4	86.5	31
32	31.3	92.0	53, 0	14. 2	75.6	37, 4	99, 4	61.8	24.5	87, 6	32
33	32.3	93. 1	54.0	15, 2	76. 7	38, 4	1000.4	62, S	25, 5	85, 6	33
34	23, 3	94.1	55.0	16, 2	77.7	39. 4	01.5	63, 9	26, 6	- 59, 7	34
35	634.3	695, 1	756, 0	817.3	878. 7	940, 5	1002, 5	1064.9	1127.6	1190, 7	35
26	35, 4	96, 1	57. 1	18.3	79.7	41.5	03.6	65. 9	28.7	91.8	36
37	36, 4	97. 1	55.1	19.3	50.5	42.5	04, 6	67.0	29. 7	92. S 93. 9	37 38
38	37.4	98, 1 99, 1	59, 1 60, 1	20, 3	81. 8 82. 8	43, 6 44, 6	05, 6 06, 7	68, 0	30. 8 31. 8	93. 9 95. 0	39
39	38. 1			$=\frac{21.3}{21.3}$						1196, 0	40
40	639, 4	700.2	761.1	822.4	883, 8	945, 6	1007, 7	1070, 1	1132. 9 33. 9	97. 1	41
41	40.4	01.2	62, 2 63, 2	23, 4 24, 4	84.9 85.9	$\frac{46.7}{47.7}$	08, 7	71. 2 72. 2	35. 0	97. 1	42
43	41. 1	03, 2	64, 2	24. 4	86, 9	48.7	10.8	73. 2	36, 0	99. 2	43
4.1	43, 4	04.2	65, 2	26, 5	88, 0	49, 7	11.8	74. 3	37. 1	1200.2	44
45	644.5	705, 2	766, 2	827. 5	889. 0	950. S	T012.9	1075, 3	1138.1	1201.3	- 45
46	45.5	06, 2	67.3	28.5	90, 0	51. 5	13. 9	76. 4	39. 2	02.3	46
47	46, 5	07. 3	68.3	29.5	91. 0	52. 8	15. 0	77. 4	40, 2	03. 4	47
15	47.5	08.3	69. 3	30, 5	92.1	53. 9	16, 0	78.5	41.3	04, 5	48
40	48.5	(19.3	70.3	31.6	93, 1	54.9	17.0	79, 5	42.3	05, 5	49
50	649, 5	710.3	771.3	832.6	894.1	955, 9	1018, 1	1080, 5	1143. 4	1206.6	-50
51	50, 5	11.3	72.3	33. 6	95. 2	57. 0	19. 1	81.6	44.4	07, 6	-51
52	51.5	12.3	73. 4	34. 6	96, 2	58, 0	20, 2	82.6	45, 5	08.7	52
53	52, 5	13.4	74. 1	35.7	97. 2	59, 0	21. 2	83, 7	46.5	09.7	53
54	53, 6	14.4	75.4	36, 7	98, 2	60.1	99 9	81.7	47.6	10, 8	54
55	654, 6	715. 1	776, 1	837.7	899, 3	961.1	1023.3	1085, 8	1148.6	1211.8	55
56	55, 6	16, 4	77.4	38.7	\$660.35	62.1	24, 3	86, 8	49, 7	12.9	56
57	56, 6	17. 4	78.5	39. 8	01.3	63, 2	25, 3	87.9	50.7	14.0	57
F	57. 6	18.4	79.5	40, 8	02.3	64. 2	26, 4	88, 9	51. 8	15.0	53
50	58, 6	19.1	80.5	41. %	03.4	65, 2	27, 4	89, 9	52. 5	16. 1	59
										_	
			(2	13	1:	1.5	1.65	17	15	1.9	M

### TABLE 3.

### Meridional Parts, or Increased Latitudes.

M.	200	21°	920	23°	240	250	26°	270	280	290	М.
0	1217.1	1280. 8	1344. 9	1409.5	1474.5	1540. 1	1606. 2	1672.9	1740. 2	1808. 1	0
1	18.2	81.9	46.0	10.6	75.6	41.9	07.3	74.0	41.3	09.2	1
2	19.3	82.9	47.1	11.6	76. 7	42.3	08.4	75. 1	42.4	10.4	2 3
3	20.3	84.0	48.1	12.7	77.8	43. 4 44. 5	09.5 10.6	$76.2 \\ 77.4$	43.6 44.7	11.5 $12.6$	3 4
$-\frac{4}{5}$	$\frac{21.4}{1222.4}$	$\frac{85.1}{1286.1}$	49. 2 1350. 3	13.8	$\frac{78.9}{1480.0}$	1545, 6	1611.7	1678.5	1745. 8	1813. 8	- 5
6	23. 5	87. 2	51.4	16.0	81.1	46, 7	12.9	79.6	46. 9	14.9	6
7	24.5	88. 3	52. 4	17. 1	82. 2	47.8	14.0	80.7	48.1	16. 1	7
8	25, 6	89. 3	53.5	18, 1	83, 3	48.9	15.1	81.8	49, 2	17. 2	8
9	26.7	90.4	54.6	19.2	84.3	50.0	16. 2	82.9	50.3	18.3	9_
10	1227. 7 28. 8	1291.5 92.5	1355. 7 56. 7	1420.3 21.4	1485. 4 86. 5	1551.1 52.2	1617.3 18.4	1684. 1 85. 2	1751. 5 52. 6	1819. 5 20. 6	10 11
$\frac{11}{12}$	29.8	92. 5 93. 6	57.8	22.5	87.6	53. 3	19.5	86.3	53.7	21.8	12
13	30.9	94.7	58. 9	23.5	88.7	54, 4	20.6	87.4	54.8	22. 9	13
14	32.0	95.7	59.9	24.6	89.8	55.5	21.7	88.5	56.0	24.0	14
15	1233.0	1296.8	1361.0	1425.7	1490.9	1556.6	1622. 8	1689. 7	1757.1	1825. 2	15
16	34.1	97.9	62.1	26.8	92.0	57.7	23. 9 25. 0	90.8	58.2 59.4	$\frac{26.3}{27.5}$	16 17
17 18	35, 1 36, 2	98. 9 1300. 0	63. 2 64. 2	27. 9 29. 0	93, 1 94, 2	58.8 59.9	26. 2	91. 9 93. 0	60.5	28.6	18
19	37, 3	01.1	65.3	30.0	95. 2	61.0	27. 3	94.1	61.6	29.7	19
20	1238.3	1302.1	1366. 4	1431.1	1496.3	1562.1	1628. 4	1695.3	1762.7	1830. 9	20
21 22	39.4	03. 2	67.5	32. 2	97.4	63. 2	29.5	96.4	63. 9	32.0	21
22	40.4	04. 3	68.5	33. 3	98.5	64.3	30.6	97.5	65.0	33. 2 34. 3	22 23
23 24	$\frac{41.5}{42.6}$	05.3 06.4	69, 6 $70, 7$	34. 4 35. 4	99.6 1500.7	65. 4 66. 5	31, 7 32, 8	98.6 99.7	66, 1 67, 3	35, 4	23
25	1243.6	1307. 5	1371.8	1436, 5	1501.8	1567.6	1633. 9	1700. 9	1768.4	1836, 6	25
26	44.7	08.5	72.8	37.6	02.9	68.7	35.0	02.0	69.5	37. 7	26
27	45.7	09.6	73.9	38.7	04.0	69.8	36.1	03. 1	70.7	38.9	27
28	46.8	10.7	75.0	39.8	05.1	70.9	37.3	04. 2	71.8	40.0	28 29
29	47.9	11.7	76.1	40.9	06. 2	72.0	38.4	05.3	$\frac{72.9}{1774.1}$	$\frac{41.2}{1842.3}$	30
30 31	1248. 9 50. 0	1312. 8 13. 9	1377. 1 78. 2	1442.0 43.0	1507. 3 08. 4	1573. 1 74. 2	40, 6	1706, 5 07, 6	75. 2	43.4	31
32	51.0	14.9	79.3	44, 1	09.4	75. 3	41.7	08.7	76.3	44, 6	32
33	52.1	16.0	80.4	45.2	10.5	76. 4	42.8	09, 8	77.4	45.7	33
34	53. 2	17.1	81.5	46.3	11.6	77.5	43.9	10.9	78.6	46, 9	34
35	1254.2 $55.3$	1318.2	1382.5	1447. 4	1512.7	1578.6	1645. 0	1712, 1 18, 2	1779.7	1848. 0 49. 2	35 36
36 37	56. 4	19. 2 20. 3	83, 6 84, 7	48.5 49.5	13. 8 14. 9	79. 7 80. 8	46. 2 47. 3	14.3	80. 8 82. 0	50.3	37
38	57.4	21.4	85.8	50.6	16.0	81.9	48. 4	15. 4	83.1	51. 4	38
39	58.5	22. 4	86. S	51.7	17.1	83.0	49.5	16.6	84. 2	52.6	39
40	1259, 5	1323.5	1387.9	1452, 8	1518.2	1584.1	1650.6	1717.7	1785.4	1853. 7	40
41	60.6	24.6	89.0	53. 9	19.3	85. 2	51.7	18.8	86.5	54.9 56.0	41 42
42 43	61. 7 62. 7	25. 6 26. 7	90.1 91.1	55. 0 56. 1	20.4 $21.5$	86. 3 87. 4	52, 8 53, 9	19. 9 21. 1	87. 6 88. 8	57. 2	43
44	63. 8	27. 8	92. 2	57. 1	22.6	88. 5	55. 1	22. 2	89. 9	58.3	44
45	1264.9	1328, 9	1393.3	1458, 2	1523.7	1589.6	1656, 2	1723. 3	1791.1	1859.5	45
46	65. 9	29, 9	94.4	59.3	24.8	90.7	57.3	24.4	92. 2	60.6	46
47	67.0	31.0	95.5	60. 4	25. 9	91.8	58. 4	25. 5	93. 3	61.8	47
48 49	68, 0 69, 1	32. 1 33. 1	96. 5 97. 6	61.5 62.6	27. 0 28. 0	92. 9 94. 1	59. 5 60. 6	26. 7 27. 8	94, 5 95, 6	62. 9 64. 0	48 49
50	1270. 2	1334. 2	1398.7	1463.7	1529. 1	1595. 2	1661. 7	$\frac{27.8}{1728.9}$	1796. 7	1865, 2	50
51	71. 2	35. 3	99.8	64. 8	30. 2	96.3	62, 9	30, 0	97.9	66.3	51
52	72.3	36, 3	1400.9	65.8	31.3	97.4	64.0	31. 2	99.0	67.5	52
53	73.4	37.4	01.9	66.9	32, 4	98, 5	65.1	32. 3	1800.1	68.6	53 54
54 55	$\frac{74.4}{1275.5}$	38.5	03.0	68.0	33.5 1534.6	99, 6	66.2 1667.3	33.4 1734.5	$\frac{01.3}{1802.4}$	69. 8 1870. 9	55
55 56	1275. 5 76. 6	1339. 6 40. 6	1404. 1	1469, 1 70, 2	1534. 6 35. 7	01.8	68, 4	35.7	1802. 4	72.1	56
57	77.6	41.7	06.2	71.3	36.8	02. 9	69, 5	36.8	04. 7	73. 2	57
58	78.7	42.8	07.3	72.4	37.9	04.0	70.7	37.9	05.8	74.4	58
59	79.7	43.8	08.4	73.5	39, 0	05.1	71. S	39.1	07.0	75.5	59
М.	200	210	290	280	240	250	26°	270	250	290	М.

TABLE 3.

### Meridional Parts, or Increased Latitudes.

М.	30°	31°	320	33°	34°	35°	36°	87°	380	39∘	м.
0	1876. 7	1946, 0	2016. 0	2086, 8	2158, 4	2230. 9	2304. 2	2378. 5	2453. 8	2530. 2	0
ĭ	77.8	47.1	17.2	88.0	59.6	32.1	05.5	79.8	55. 1	31.5	i
2	79.0	48.3	18.3	89.2	60.8	33.3	06.7	81.0	56.4	32.8	2 3
3	80.1	49, 4	19.5	90.3	62.0	34.5	07. 9	82.3	57.6	34.0	3
4	81.3	50, 6	20. 7_	91.5	63, 2	35. 7	09.2	83.5	58.9	35.3	4
5	1882. 4	1951.8	2021.9	2092.7	2164.4	2236. 9	2310.4	2384. 8	2460.2	2536, 6	- 5
6	83.6	52.9	23.0	93, 9	65. 6	38. 2	11.6	86.0	61.4	37. 9	- 6
7	84. 7	54.1	24.2	95.1	66.8	39, 4	12.9	87, 3	62.7	39, 2	7
8	85.9	55.3	25.4	96.3	68.0	40.6	14.1	88.5	64.0	40.5	8
9	87. 0	56. 4	26.6	97.5	69.2	41.8	15.3	89.8	65, 2	41.7	9
10	1888. 2 89. 3	1957. 6	2027.7	2098. 7	2170.4	2243.0	2316.5	2391.0	2466.5	2543.0	10
$\frac{11}{12}$	89. 3 90. 5	58. 7 59. 9	28. 9 30. 1	99.8	71.6	44. 2 45. 5	17.8	92. 3 93. 5	67.8	44.3	11 12
13	90. 5 91. 6	61. 1	31. 3	2101. 0 02. 2	72. 8 74. 0	46.7	19, 0 20, 3	93. 5	69, 0 70, 3	45, 6 46, 9	13
13	92. 8	62. 2	32.4	03. 4	74. 0 75. 2	47.9	20. 5	96.0	71.6	48.2	14
15	1893. 9	1963. 4	2033. 6	2104.6	2176.4	2249. 1	2322. 7	2397. 3	2472.8	2549. 5	15
16	95. 1	64. 6	34.8	05.8	77.6	50.3	24.0	98.5	74.1	50.7	16
17	96. 2	65. 7	36.0	07.0	78.8	51.6	25. 2	99.8	75. 4	52.0	17
18	97. 4	66. 9	37. 1	08. 2	80.0	52.8	26. 4	2401.0	76.6	53, 3	18
19	98.5	68, 1	38.3	09. 4	81, 2	54.0	27.7	02. 3	77.9	54.6	19
20	1899, 7	1969, 2	2039. 5	2110.6	2182.5	2255, 2	2328. 9	2403.5	2479.2	2555, 9	20
21	1900.8	70. 4	40. 7	11.8	83. 7	56.4	30. 1	04.8	80, 4	57. 2	21
22	02.0	71.5	41.8	12.9	84.9	57.7	31.4	06.0	81.7	58. 5	22
23	03.1	72.7	43.0	14.1	86, 1	58, 9	32.6	07.3	83.0	59, 8	23
24	04.3	73.9	44.2	15. 3	87.3	60.1	33. 8	08, 5	84.3	61.0	24
25	1905.5	1975. 0	2045, 4	2116.5	2188.5	2261.3	2335.1	2409, 8	2485, 5	2562. 3	25
26	06, 6	76. 2	46.6	17. 7	89.7	62.5	36.3	11.1	86, 8	63, 6	26
27	07.8	77.4	47.7	18.9	90.9	63, 8	37. 6	12.3	88.1	64.9	27-
28	08.9	78.5	48.9	20. 1	92. 1	65.0	38.8	13. 6	89. 3	66, 2	28
29	10. 1	79.7	50.1	21.3	93. 3	66.2	40.0	14.8	90, 6	67.5	29
30	1911. 2	1980. 9	2051. 3 52. 5	2122.5	2194. 5	2267. 4 68. 7	2341.3 42.5	2416. 1 17. 3	2491. 9 93. 2	2568, 8 70, 1	30 31
31 32	12. 4 13. 5	82. 0 83. 2	53.6	23. 7 24. 9	95, 7 96, 9	69, 9	43.7	18.6	94.4	71. 4	32
33	14.7	84. 4	54.8	26. 1	98.1	71. 1	45.0	19.8	95. 7	72.7	33
34	15, 8	85, 5	56, 0	27. 3	99. 4	72. 3	46. 2	21. 1	97.0	73.9	34
35	1917. 0	1986, 7	2057. 2	2128.5	2200.6	2273, 5	2347.5	2422. 3	2498.3	2575. 2	35
36	18. 2	87. 9	58. 4	29.6	01.8	74. 8	48.7	23. 6	99.5	76. 5	36
37	19. 3	89. 1	59, 5	30. 8	03. 0	76.0	49.9	24. 9	2500, S	77.8	37
38	20, 5	90, 2	60, 7	32.0	04.2	77. 2	51. 2	26, 1	02.1	79.1	38
39	21.6	91.4	61.9	33. 2	05, 4	78.4	52.4	27.4	03, 4	80, 4	39
40	1922, 8	1992, 6	2063.1	2134.4	2206, 6	2279.7	2353.7	2428.6	2504.6	2581.7	40
41	23, 9	93, 7	64.3	35, 6	07.8	80, 9	54.9	29.9	05. 9	83. 0	41
42	25. 1	94.9	65, 5	36, 8	09, 0	82.1	56, 1	31. 2	07.2	84.3	42
43	26, 3	96, 1	66, 6	38, 0	10.2	83, 3	57.4	32. 4	08, 5	85, 6	43
44	27. 4	97. 2	67. 8	39. 2	11.5	84, 6		33.7	09. 7	86, 9	44
45	1928, 6	1998, 4	2069, 0	2140, 4	2212.7	2285, 8	2359, 9	2434. 9	2511.0	2588 2	45
46	29.7	99, 6	70. 2	41.6	13. 9	87.0	61.1	36, 2	12.3	89. 5 90. 8	46
47	30, 9	2000, 7	71.4	42.8	15. 1 16, 3	88, 3 89, 5	62. 4 63. 6	37, 4 38, 7	13. 6 14. 8	90, 8	48
48 49	33, 2	01. 9	72, 6 73, 7	45, 2	16. 3		64, 8	40, 0	16, 1	98.4	49
$-\frac{49}{50}$	1934, 4	2004. 3	2074.9	2146, 4	2218.7	2291.9	2366, 1	2441. 2	2517. 4	2594 7	50
51	35, 5	2004. 5	76.1	47. 6	19.9	93, 2	67, 3	42.5	18.7	96.0	51
52	36.7	06, 6	77. 3	48.8	21. 1	94.4	68.6	43. 7	20, 0	97.3	52
53	37. 8	07. 8	78.5	50.0	22. 1	95, 6	69, 8		21. 2	95. 5	53
54	39, 0	08.9	79. 7	51.2	23. 6	96, 9	71.1	46, 3	22.5	99, 8	54
55	1940, 2	2010, 1	2080, 8	2152.4	2224. 5	2298, 1	2372.3	2447.5	2523, 8	2601.1	55
56	41.3	11.3	82.0	53, 6	26, 0	99, 3	73, 6	48.8	25, 1	02.4	56
57	42.5	12. 5	83. 2	54. 8	27. 2	2300, 5	74. 8	50, 1	26, 4	03.7	57
58	43, 6	13.6	84.4	56, 0	28.4	01.8	76.1	51.3	27, 6	(65, 0	58
59	44.8	14. 8	85, 6	57. 2	29, 6	03.0	77.3	100.3	28, 9	06, 3	59
										9000	М.
М.	30	31	32	83	34	82	36	87	85	890	M.

[Page 625

## TABLE 3.

### Meridional Parts, or Increased Latitudes.

М.	40°	41°	42°	43°	440	450	46°	470	480	490	М.
0	2607. 6	2686. 2	2766. 0	2847.1	2929.5	3013. 4	3098.7	3185. 6	3274.1	3364. 4	0
1	08.9	87. 6 88. 9	67. 4	48.5 49.9	30.9 32.3	14.8 16.2	3100. 1 01. 6	87. 1	75.6	65.9	1
2 3	10.2	90. 2	68. 7 70. 1	51. 2	32.3	17.6	03.0	88. 5 90. 0	77. 1 78. 6	67. 4 69. 0	2 3
4	12.8	91.5	71.4	52.6	35. 1	19. 0	04.4	91.4	80. 1	70.5	4
5	2614.1	2692.8	2772.8	2853. 9	2936. 5	3020.4	3105.9	3192.9	3281.6	3372.0	5
6 7	15. 4	94. 2	74.1	55. 3	37.9	21.8	07. 3	94, 4	83.1	73.5	6
8	16.8 18.1	95. 5 96. 8	75. 4 76. 8	56. 7 58. 0	39. 3 40. 6	23, 3 24, 7	08. 8 10. 2	95. 8 97. 3	84. 6 86. 1	75.1 76.6	7 8
9	18.1	98.1	78.1	59.4	42.0	26. 1	11.6	98.8	86.1	78.1	9
10	2620, 7	2699. 5	2779.5	2860. 8	2943, 4	3027.5	3113, 1	3200. 2	3289. 0	3379.6	10
11	22.0	2700.8	80.8	62.1	44.8	28.9	14.5	01.7	90.5	81.2	11
12	23. 3	02.1	82. 2	63. 5	46. 2	30.3	16.0	03. 2	92.0	82.7	12
13 14	24. 6 25. 9	03. 4 04. 8	83. 5 84. 8	64. 9 66. 2	47.6 49.0	31. 7 33. 2	17. 4 18. 8	04. 6 06. 1	93.5	84. 2 85. 7	13
15	2627.2	2706.1	2786. 2	2867. 6	2950. 4	3034. 6	3120. 3	3207.6	95. 0 3296. 5	3387.3	14
16	28.5	07. 4	87.5	69. 0	51.8	36. 0	21. 7	09.0	98. 0	88.8	16
17	29.8	08.7	88.9	70.3	53. 2	37.4	23. 2	10.5	99. 5	90.3	17
18	31.1	10.1	90. 2	71.7	54.5	38.8	24.6	12.0	3301.0	91.8	18
19	32.4	11.4	91.6	73.1	55.9	40.2	26.0	13. 4	02.5	93.4	19
20 21	2633. 7 35. 0	2712. 7 14. 0	2792. 9 94. 3	2874.4 75.8	2957. 3 58. 7	3041. 7 43. 1	3127. 5 28. 9	3214. 9 16. 4	3304. 0 05. 5	3394. 9 96. 4	20 21
22	36.3	15. 4	95.6	77.2	60.1	44.5	30. 4	17. 9	05. 5	98. 0	22
23	37. 6	16. 7	97.0	78.6	61.5	45. 9	31. 8	19.3	08. 5	99.5	23
24	38.9	18.0	98.3	79.9	62.9	47.3	33.3	20.8	10.0	3401.0	24
25	2640. 2	2719.3	2799.7	2881.3	2964.3	3048.7	3134.7	3222. 3	3311.5	3402.6	25
26 27	41.6 42.9	20. 7 22. 0	2801.0	82, 7 84, 0	65. 7 67. 1	50, 2 51, 6	36, 2 37, 6	23. 7 25. 2	13.0	04.1	26 27
28	42.9	23. 3	02.4	85.4	68.5	53.0	37. 6	25. Z 26. 7	14. 5 16. 0	05, 6 07, 2	28
29	45, 5	24.7	05.1	86.8	69, 9	54. 4	40.5	28. 2	17.5	08. 7	29
30	2646.8	2726.0	2806.4	2888.2	2971.3	3055, 9	3141.9	3229.6	3319.0	3410. 2	30
31	48.1	27.3	07.8	89.5	72.7	. 57.3	43.4	31.1	20.5	11.8	31
32	49. 4	28, 6	09. 1	90.9 92.3	74. 1	58.7	44.8	32.6	22. 1	13.3	32
33 34	50.7 52.0	30.0 31.3	10. 5 11. 8	93. 7	75, 5 76, 9	60. 1 61. 5	46.3 47.7	34. 1 35. 6	23. 6 25. 1	14. 8 16. 4	33 34
35	2653. 3	2732.6	2813. 2	2895.0	2978.3	3063.0	3149. 2	3237.0	3326. 6	3417.9	35
36	54.7	34.0	14. 5	96. 4	79. 7	64.4	50.6	38.5	28, 1	19.5	36
37	56.0	35, 3	15.9	97.8	81.1	65.8	52.1	40.0	29, 6	21.0	37
38 39	57.3	36, 6	17. 2 18. 6	99. 2 2900. 5	82.5	67. 2 68. 7	53.5	41.5	31.1	22.5	38
40	$\frac{58.6}{2659.9}$	38.0 2739.3	2820. 0	2900. 5	83. 9 2985. 3	3070.1	55.0 3156.4	42. 9 3244. 4	32.6	$\frac{24.1}{3425.6}$	39
41	61. 2	40.6	2820.0	03.3	2985. 5 86. 7	71.5	57.9	45. 9	35, 6	3420.6	41
42	62.5	42.0	22.7	04.7	88.1	72. 9	59.4	47. 4	37. 1	27. 2 28. 7	42
43	63. 9	43.3	24. 0	06.1	89.5	74.4	60.8	48.9	38.6	30. 2	43
44	65. 2	44.6	25.4	07.4	90.9	75.8	62.3	50.3	40. 2	31.8	44
45 46	2666. 5 67. 8	2746.0 47.3	2826. 7 28. 1	2908. 8 10. 2	2992. 3 93. 7	3077. 2 78. 7	3163. 7 65. 2	3251. 8 53. 3	3341.7 43.2	3433, 3 34, 9	45 46
47	69.1	48, 6	28.1	10.2	95. <i>i</i> 95. 1	80.1	66, 6	53. 3 54. 8	43.2	34. 9 36, 4	47
48	70.4	50.0	30, 8	13.0	96, 5	81.5	68, 1	56.3	46. 2	38.0	48
49	71.7	51.3	32. 2	14.3	97.9	82.9	69.5	57.8	47.7	39, 5	49
50	2673.1	2752.7	2833. 5	2915.7	2999.3	3084, 4	3171.0	3259.3	3349, 2	3441.0	50
51 52	74. 4 75. 7	54, 0 55, 3	34. 9 36. 2	17. 1 18. 5	3000. 7 02. 1	85, 8 87, 2	72. 5 73. 9	60, 7 62, 2	50, 8 52, 3	42.6	51
53	77. 0	56. 7	37.6	18. 5	03, 5	87.2	75. 4	63, 7	53. S	44. 1 45. 7	52 58
54	78.3	58. 0	39. 0	21. 2	04, 9	90.1	76. 8	65. 2	55. 3	47. 2	54
55	2679.6	2759.3	2840.3	2922.6	3006.3	3091.5	3178.3	3266, 7	3356, 8	3448, 8	55
56	81.0	60, 7	41.7	24.0	07.7	93, 0	79.7	68. 2	58.3	50. 3	56
57 58	82.3	62.0	43. 0 44. 4	25. 4 26. 8	09, 2	94.4	81. 2 82. 7	69.7	59. 9	51.9	57 -
58 59	83. 6 84. 9	63. 4 64. 7	45. S	26. 8 28. 2	10.6 12.0	95, 8 97, 3	84. 1	71. 1 72. 6	61 4 62.9	53.4 55.0	58 59
00	01.0		2	2	1=.0					100.0	- 00

## TABLE 3.

### Meridional Parts, or Increased Latitudes.

М.	50°	510	520	53°	54°	55°	56°	570	5%	593	М.
0	3456. 5	3550.6	3646.7	3745.1	3845, 7	3948. 8	4054.5	4163.0	4274.4		0
1	58.1	52. 2	48.4	46.7	47.4	50, 5	56, 3	64. 8	76.3	91.0	1
2	59, 6	53. 8	50.0	48. 4 50. 0	49. 1 50. 8	52, 3 54, 0	58. 1 59. 8	66, 6 65, 5	78. 2 80. 1	92, 9 94, 9	2 3
3 4	61. 2 62. 7	55, 4 56, 9	51.6 53.2	51. 7	52.5	55, 7	61.6	70.3	82. 0	96, 8	4
- 5	3464. 3	3558.5	3654.8	3753, 4	3854. 2	3957. 5	4063, 4	4172.1	4283, 9	4398, 8	5
- 6 - 6	65.9	60.1	56.5	55. 0	55, 9	59.2	65. 2	74. 0	85.7	4400.7	6
7	67.4	61.7	58.1	56.7	57.6	61, 0	67. 0	75. 8	87. 6	02.6	7
8	69. 0	63, 3	59. 7	58. 3	59, 3	62. 7	68, 8	77.7	89.5	04.6	8
- 9	70.5	64. 9	61.3	60.0	61, 0	64.5	70.6	79, 5	91.4	06, 5	9
10	3472.1	3566. 5	3663, 0	3761.7	3862, 7	3966, 2	4072.4	4181.3	4293, 3	4408.5	10
11	73.6	68.1	64. 6	63.3	64, 4	68.0	74.2	83, 2	95.2	10.4	- 11
12	75.2	69. 7	66, 2	65, 0	66. 1	69. 7	76. 0	85, 0	97.1	12.4	12
13	76. 7	71.3	67.9	66. 7	67. 8	71, 5 73, 2	77.7	86.9 88.7	99, 0 4300, 9	14.3 16.3	13 14
14	78.3	72.8	69, 5	64, 3	69.5	3975.9	79. 5 4081. 3	4190.6	4302.8	4418.2	15
15 16	3479. 9 81. 4	3574.4 76.0	3671, 1 72, 7	3770. 0 71. 7	72.9	76.7	83. 1	92.4	04.7	20. 2	16
17	83. 0	77. 6	74. 4	73.3	74.6	78.5	84.9	94. 2	06.6	22. 1	17
18	84. 5	79. 2	76, 0	75.0	76, 3	80. 2	86, 7	96.1	08, 5	24. 1	18
19	86, 1	80, 8	77. 6	76. 7	78. 1	82.0	88.5	97. 9	10.4	26, 1	19
20	3487.7	3582.4	3679, 3	3778.3	3879, 8	3983, 7	4090, 3	4199, 8	4312.3	4128.0	20
21	89. 2	84. 0	80.9	80, 0	81.5	85, 5	92.1	4201.6	14. 2	30, 0	21
()-)	90. S	85, 6	82.5	81.7	83. 2	87. 2	93. 9	03, 5	16, 1	31.9	22
23	92.4	87. 2	84. 2	83, 3	84.9	89, 0	95, 7	05, 3	18.0	33. 9	23
24	93, 9	88, 8	85, 8	85, 0		90. 7	97.5	07. 2	19. 9	35, S	24
25	3495, 5	3590, 4	3687.4	3786, 7		3992, 5	4099, 3	4209.0	4321.8	4437.8	25
26	97. 1	92, 0	89. 1	88, 4	90.0	94, 3	4101, 1	10, 9 12, 8	23. 7 25. 6	39, 8 41, 7	26 27
27	98, 6	93, 6 95, 2	90. 7 92. 3	90, 0 91, 7	91. 8 93, 5	96.0 97.8	02. 9	12.8	25. 6 27. 5	43. 7	28
25	3500, 2	95, 2 96, 8		93.4	95. 2	97.8	06,6	16.5	29.4	45. 7	29
$-\frac{29}{30}$	01.8		3695, 6	3795. 1	3896, 9		4108, 4		4331.3		30
31	3503, 3 01, 9	3600, 0		96.8		03, 1	10.2	20.2	33. 2	49, 6	31
32	06.5	01.6		98. 4	3900, 1	04. 8	12.0	22.0	35. 2	51.6	32
33	08, 0	03, 2	3700, 5	3800.1	02, 1	06, 6	13. 8	23, 9	37.1	53, 5	33
34	09, 6	04.8	02. 2	01.8	03, 8	08, 3	15, 6	25, 8	39, 0	55, 5	34
35	3511.2	3606, 4	3703, S	3803, 5	3905, 5	4010.1	4117.4	4227.6	4340, 9	4457.5	35
336	12. 7	08.0	05, 5	05, 1	07. 2	11.9	19. 2	29, 5	42.8	59, 4	36
37	14. 3	09, 6	-07.1	(b), S	09.0	13, 6	21.0	31.3	44.7	61.4	37
118	15, 9	11.2	08.7	08.5	10.7	15.4	22.9	33, 2	46, 6	63, 4 65, 4	38
39	17.5		10, 4	10. 2	12.4	17. 2	24.7	35.1	48, 6		40
40	3519, 0	3614.5	3712.0	3811.9	3914.1	4018, 9 20, 7	4126.5 28.3	4236, 9	4350, 5 52, 4	4467, 3	41
41	20, 6	16. 1	13.7	13. 6	15. 9 17. 6	20.7	30, 1	40.7	54. 3	71.3	42
42 43	22. 2 23. 7	17, 7	15.3 17.0	45. 2 17. 0	19.3	24.3	31. 9	42.5	56, 2	73.3	43
44	25, 3	20, 9	18.6	18.6	21. 0	26. 0	33. 8	44.4	58, 2	75.3	44
-45		3622, 5	3720.3		3922, 8	4027. 5	4135, 6	4246.3	4360, 1	4477.2	45
46	28.5	24. 1	21. 9	22.0	21.5	29.6	37. 4	48, 1	62, 0	79. 2	46
47	30. 1	25, 7	23, 6	23. 7	26, 2	31. 4	39, 2	50, 0	63, 9	81.2	47
45	31.6	27.3	25, 2	25.4	28, 0	33. 1	41.0	51.9	65, 9	83, 2	48
49	33. 2	29, 0	26, 9	27. 1	29.7	34. 9	12, 9		67. 8	85, 2	19
50	3534.8	3630, 6	-3728, 5	3828, 7	3931.4	4036, 7	4144.7	4255, 6	-1369.7	4487.2	50
51	36, 4	32. 2	30, 2	30, 4	33. 2	38, 5	46, 5	57. 5	71. 7	89, I 91, I	51 52
52	37. 9	33. 5	34.5	32, 1 33, 8	34, 9 36, 6	40, 2 42, 0	48.3 50.2	59, 4 61, 3	73, 6 75, 5	91. I 93. I	53
58 54	39, 5 41, 1	35, 4 37, 0	33, 5 35, 1	33, 8 35, 5	36.6	43. 8	50, 2 52, 0	63. 1	77.4		51
- 55				3837. 2	3940. 1	1045 6	4153.8	4265, 0	4379. 1	4497. 1	55
. 5 ts	3542.7 44.3	3638, 6	3736, 8 38, 4	38.9	41.5	47. 1	35, 7	66, 9	81.3	99. 1	56
57	45.9	41. 9	38. 4 40. I	40.6	43. 6	19.1	57.5	68, 8	83, 2	4501, 1	57
1 3%	47 4	13. 5	11.7	12.3	15. 3	50, 9	59, 3	70.7	85, 2	03.1	58
1 50	[9, 0	15.1	43.4	45, 0	17. 0	52.7	ti1, 1	72.5	87.1	05, 1	59
											-
M	50	5.1	95	53	5.4	3.5	56	57	54	592	М.

## TABLE 3.

#### Meridional Parts, or Increased Latitudes.

TABLE 3.

### Meridional Parts, or Increased Latitudes.

М.	700	740	720	73°	740	750	76°	770	780	790	М.
0	5943. 9	6123, 5	6312.5	6512.0	6723. 2	6947. 7	7187, 3	7444.4	7721.6	8022.7	0
1	46, 8	26, 6	15, 8	15.4	26.8	51.6	91.5	48.8	26, 4	27.9	1
2 3	49, 7 52, 7	29, 7 32, 8	19, 0 22, 3	18, 9 22, 3	30.5	55. 4	95, 6	53.3	31.3	33, 2	2
4	55, 6	35, 8	25, 5	22. 3 25. 7	34. 1 37. 7	59, 3 63, 2	99, 7 7203, 9	57. 7 62. 2	36. 1 40. 9	38, 5 43, 7	3
- 5	5958, 5	6138.9	6328.8	6529.1	6741.4	6967.1	7208.0	7466, 7	7745.8	8049. 0	- 5
6	61.5	42.0	32.0	32, 6	45, 0	70.9	12.2	71. 1	50, 6	54.3	6
7	64.4	45, 1	35, 3	36, 0	48.7	74.8	16.4	75, 6	55, 5	59, 6	7
5	67.3	48. 2	38, 5	39.5	52.3	78.7	20.5	80. 1	60.3	64, 9	- 8
= 9_	70, 3	51.3	41.8	42.9	56, 0	82, 6	24.7	84, 6	_ 65, 2	70.2	9
10 11	5973. 2 76. 2	6154. 4 57. 5	6345, 0 48, 3	6546, 4 49, 8	6759, 7 63, 3	6986, 5 90, 4	7228, 9 33, 1	7489, 1 93, 6	7770.1	8075, 5	10
12	79. 1	60.6	51.6	53. 3	67. 0	94.3	37. 3	98. 1	74.9 79.8	86.1	11 12
13	82. 1	63. 7	51.8	56, 7	70. 7	98.3	41.5	7502, 6	84.7	91.5	13
14	85, 0		58, 1	60, 2	74.3	7002.2	45. 7	67.1	89.6	96. 8	14
15	5988, 0	6169, 9	6361, 4	6563.7	6778.0	7006. T	7249. 9	7511.7	7794.5	8102.2	15
16	90.9	73.0	64.7	67, 1	81.7	10.0	54.1	16, 2	99, 4	07, 5	16
17	93. 9	76. 1	67. 9	70.6	85, 4	14.0	58, 3	20.7	7804.3	12, 9	17
18	96. 9	79. 2	71.2	74. 1	89. 1	17.9	62.5	25, 3	09.3	18.3	18
	99, S	82.3	74.5	77.6		21.8	66.7	29.8	14.2	23.7	19
20 21	6002, 8 05, 8	6185, 5 88, 6	6377. 8 81. 1	6581.0 84.5	6796, 5 6800, 2	7025, 8 29, 7	7270. 9 75. 2	7534, 4 38, 9	7819. 1 24. 1	8129, 1 34, 5	20 21
22	08. 7	91.7	84. 4	88, 0	03. 9	33. 7	79. 4	43, 5	29. 0	39. 9	22
23	11. 7	94. 8	87. 7	91. 5	07. 6	37. 7	83. 7	18, 1	34.0	45.3	23
24	14.7	98, 0	91.0	95, 0	11.3	41.6	87.9	52.7	39, 0	50.8	24
25	6017.7	6201.1	6394.3	6598, 5	6815.0	7045.6	7292. 2	7557.3	7844.0	8156, 2	25
26	20.7	04.2	97. 6	6602, 0	18.8	49. 6	96. 4	61.8	48. 9	61.6	26
27	23. 6	07.4	6400, 9	05, 5	22, 5	53. 5	7300. 7	66. 4	53.9	67.1	27
28 29	26, 6 29, 6	10, 5 13, 7	04. 3 07. 6	09, 0 12, 5	26, 2 30, 0	57. 5 61. 5	05. 0 09. 2	71.0 75.7	58. 9 63. 9	72.6 78.0	28 29
30	6032.6	6216, 8	6410. 9	6616. 1	6833. 7	7065. 5	7313.5	7580, 3	7868, 9	8183. 5	30
31	35, 6	20, 0	14. 2	19, 6	37. 4	69. 5	17.8	84. 9	74.0	89.0	31
32	38.6	23. 1	17.6	23, 1	41.2	73. 5	22. 1	89. 5	79. 0	94. 5	32
33	41.6	26, 3	20. 9	26, 6	44.9	77.5	26.4	94. 2	84.0	8200.0	33
34	44.6	29.4	24.2	30, 2	48. 7	81.5	30, 7	98. 8	89, 1	05, 5	34
35	6047.6	6232, 6	6427.6	6633, 7	6852.4	7085, 5	7335.0	7603.4	7894.1	8211.1	35
36	50, 6	35, 8	30, 9	37. 2	56. 2	89, 5	39.3	08.1	99. 2	16.6	36
37 38 .	53, 6 56, 6	38, 9 42, 1	34. 2 37. 6	40. 8 44. 3	60. 0 63. 7	93. 5 97. 6	43. 6 47. 9	12. 8 17. 4	7904. 2 09. 3	22. 1 27. 7	37 38
39	59. 7	45. 3	40. 9	47. 9	67.5	7101.6	52.3	22. 1	14. 4	33. 3	39
40	6062, 7	6248. 4	6444.3	6651.4	6871.3	7105.6	7356, 6	7626, 8	7919.4	8238, 8	40
41	65, 7	51, 6	47.6	55. 0	75. 1	09. 7	60, 9	31. 4	24. 5	44. 4	41
42	68. 7 71. 7	54.8	51.0	58.5	78.9	13. 7	65.3	36. 1	29. 6	50, 0	42
43	71.7	58, 0	54.4	62. 1	82, 6	17.8	69, 6	40.8	34.7	55, 6	43
-44	74.8	61.2	57.7	65. 7	86, 4	21.8	74.0	45, 5	39. 9	61. 2	44
45	6077.8	6264. 4	6461.1	6669, 2	6890, 2 94, 0	7125.9	7378.3	7650, 2 55, 0	7945, 0 50, 1	8266, 8 72, 4	45 46
46	80, 8 83, 9	67. 6 70. 8	64, 5 67, 8	72. 8 76. 4	97.8	29, 9 34, 0	82. 7 87. 1	59.7	55, 2	78. 1	47
48	86, 9	74. 0	71.2	80.0	6901.7	38, 1	91. 4	64. 4	60. 4	83. 7	48
49	89. 9	77. 2	74.6	83.5	05, 5	42. 2	95, 8	69. 1	65, 5	89, 3	49
50	6093. 0		6478.0	6687. 1	6909.3	7146.2	7400.2	7673.9	7970.7	8295, 0	50
51	96, 0	83.6	81.4	90.7	13, 1	50, 3	04.6	78.6	75. 9	8300.7	51
52	99, 1	86, 8	84.8	94, 3	16.9	54.4	09, 0	83.4	81.0	06, 4	52
53 54	6102. 1 05. 2	90, 0	88, 2	97. 9	20, 8 24, 6	58, 5 62, 6	13. 4 17. 8	88. 1 92. 9	86. 2 91. 4	12.0	53 54
55	6108, 2	93, 2 6296, 4	91.6 6495.0	6701. 5 6705. 1	6928, 4	7166.7	7422.2	7697. 7	7996.6	8323.4	55
55 56 1	11.3	99, 6	98, 4	08.7	32.3	70, 8	26, 6	7702.5	8001.8	29, 2	56
57	14.3	6302, 9	6501.8	12.4	36, 1	75. 0	31. 1	07. 2	07.0	34. 9	57
58	17. 4	06. 1	05, 2	16.0	40. 0	79. 1	35.5	12.0	12.2	40.6	58
59	20.5	09, 3	08, 6	19, 6	43.8	83, 2	39, 9	16, 8	17.5	46. 4	59
М.	700	712	720	73°	74	750	767	770	750	793	М.

## Length of a Degree in Latitude and Longitude.

		Degree of Long.			Degree of Lat.		Lat.
Lat.	Naut. miles.	Statute miles.	Meters.	Naut. miles.	Statute miles.	Meters.	Lat.
0							0
0	60, 068	69, 172	111 321	59, 661	68, 704	110 567	- 0
ĭ	0.059	9. 162	1 304	. 661	. 704	568	ĭ
- 6	0.031	9, 130	1 253	. 662	. 705	569	2
$\frac{2}{3}$	59, 986	9,078	1 169	. 663	.706	570	3
4	9, 922	9,005	1 051	. 664	.708	573	4
5	59, 840	68, 911	110 900	59, 666	68, 710	110 576	5
6	9, 741	8, 795	0 715	. 668	.712	580	6
7	9.622	8,660	0 497	. 670	.715	584	7
8	9, 487	8, 504	0 245	. 673	718	589	8
9	9, 333	8. 326	109 959	.676	721	595	9
10	59, 161	68, 129	109 641	59, 680	68, 725	110 601	10
11	8.971	7, 910	9 289	. 684	. 730	608	11
12	8, 764	7. 670	8 904	.687	. 734	616	12
13	8,538	7.410	8 486	. 692	.739	624	13
14	8, 295	7. 131	8 036	. 697	.744	633	14
15		66, 830	107 553	59, 702	68. 751		
16	58. 034 7. 756	6,510	7 036	. 707	. 757	110 643 653	15 16
17					. 764	663	
	7.459	6.169	6 487	. 713			17
18 19	7.146	5.808	5 906 5 294	. 719 . 725	. 771	675	18
	6, 816	5, 427			. 778	686	19
20	56, 468	65. 026	104 649	59. 732	68. 786	110 699	20
21	6. 102	4.606	3 972	. 739	. 794	712	21
22 23	5. 720	4.166	3 264	. 746	. 802	725	22
23	5. 321	3.706	2 524	. 754	.811	739	23
	4.905	3. 228	1 754	. 761	. 820	753	24
25	54, 473	62.729	100 952	59. 769	68. 829	110 768	25
26	4.024	2. 212	0 119	. 777	. 839	783	26
27	3.558	1.676	99 257	. 786	. 848	799	27
28	3.076	1.122	8 364	. 795	. 858	815	28
29	2.578	0.548	7 441	, 804	. 869	832	29
30	52.064	59.956	96 488	59.813	68. 879	110 849	30
31	1.534	9.345	5 506	. 822	. 890	866	31
32	0, 989	8. 716	4 495	. 831	. 901	883	32
33	0.428	8.071	3 455	. 841	.912	901	- 33
34	49.851	7. 407	2 387	. 851	. 923	919	34
35	49, 259	56. 725	91 290	59.861	68. 935	110 938	35
36	8, 653	6.027	0 166	. 871	. 946	956	36
37	8, 031	5.311	89 014	.881	. 958	975	37
38	7. 395	4.579	7 835	. 891	. 969	994	38
39	6.744	3.829	6 629	. 902	. 981	111 013	39
40	46.079	53, 063	85 396	59.912	68. 993	111 033	40
41	5.399	2, 281	4 137	. 923	69,006	052	41
42	4.706	1.483	2 853	. 933	.018	072	42
43	4.000	0.669	1 543	. 944	. 030	091	43
44	3.280	49.840	0 208	. 954	. 042	111	44
45	2.546	8, 995	78 849	. 965	. 054	131	45

TABLE 4.

Length of a Degree in Latitude and Longitude.

الن		Degree of Long.		l .	Degree of Lat.		١
Lat.	Naut. miles.	Statute miles,	Meters.	Naut. miles.	Statute miles.	Meters.	Lat.
c							0
45	42.546		/8 849	59, 965	69. 054	111 131	45
46	1.801		7 466	.976	. 066	151	46
47	1.041	7. 261	6 058	.987	. 079	170	47
48	0.268		4 628	. 2527	.091	190	48
49	39, 484	5, 469	3 174	60, 008	, 103	210	49
50	38, 688	44. 552	71 698	60, 019	69.115		50
51	7.880	9 691	0.200	. 029	. 127	249	51
52	7.060	2. 676	68 680	. 039	. 139	268	
53	6, 229		7 140	, 050	. 151	287	53
54	5, 386	0.749	5 578 63 996	60, 070	69. 175	306	54
55	34, 532	39, 766	63 996	60, 070	69. 175	111 325	55
56	3, 668	8. 111	2 395 0 774	, 080	. 086	343	
57	2, 794	1.10±	0 774	. 090	. 197	362	57
58	1.909	6.745	50 125	100	000	380	58
59	1.015	5.716	7 478	. 109	. 220	397	59
60	30.110	34. 674	55 802	60.118	69, 230 , 241	111 415	60
61	29, 197	3, 623	4 110	. 128	. 241	432	61
62	8, 275	2.560	2 400	. 137	. 251	448	62
63	7.344	1 400	0.0==	1.40	. 261	464	63
64	6, 404	0, 406	48 934 47 177 5 407 3 622	. 154	. 261 . 271 69. 281	480	64
65	25, 456	29, 315	47 177	60, 162	69. 281	111 496	
66	4, 501	8, 215	5 407	. 170	. 290	511	66
67	3, 538	7.106	3 622	. 178	. 299	525	67
68	2, 567	5, 988	1 823	. 186	. 308	539	68
69	1.590	4, 862	0 012 38 188	, 193	. 316	553	69
70	20, 606	23. 729	38 188	60, 200		111 566	70
71	19, 616	2,589	6 353	. 207		578	71
72 73	8, 619		4 506	. 213	. 340	590	72
73	7, 617	0, 287	2 648	. 220 . 225	. 347	602	73
74	6, 609	19, 127	0 781 28 903	. 225	. 354	613	74
75	15, 596	17, 960	28 903 1	60, 231	69.360	111 623	75
$\frac{76}{77}$	4,578	6, 788	7 017	. 236	. 366	633	76 77
77	3, 556	5, 611	5 123	. 241	. 372	642	77
78	2.529	4, 428	3 220	. 246	. 377	650	78
79	1.499	3. 242	1 311	. 250		658	79
80	10, 465	12, 051	19 394	60, 254	69, 386		80
81	9, 428	10, 857	7 472	. 257	. 390	671	81
82	8, 388	9, 659	5 545	. 260	. 394	677	82
83	7.345	8, 458	3 612 1 675	. 263	. 397	682	83
84	6, 300	7, 255	1 675	. 265	. 400	687	84
85	5, 253	6, 049	9.735	60, 268	69, 402	111 691	
86	4. 205	4. 842	7.792	. 269	. 404	694	86
87	3, 154	3, 632	5 846	. 270	, 405	696	
88	2. 103	2, 422	3.898	. 271	. 407	698	88
89	1.052	1, 211	1 949		, 407	699	89
90	0	0	0	. 272	. 407	699	90

## Distance of an Object by Two Bearings.

Difference between the course and second bearing, in		Dif	ference betwee	n the course and	first bearing, in	points.	
points.	2	21/4	21/2	234	3	31/4	31∕2
points.  3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2%  2. 19   1. 31 1. 76   1. 12 1. 47   0. 99 1. 12   0. 83 1. 00   0. 77 0. 91   0. 73 0. 83   0. 69 0. 77   0. 66 0. 72   0. 60 0. 77   0. 66 0. 72   0. 63 0. 60   0. 57 0. 58   0. 54 0. 50   0. 55 0. 54 0. 54   0. 47 0. 46   0. 49 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 43   0. 40 0. 41   0. 35 0. 45   0. 32 0. 46   0. 31 0. 47   0. 30 0. 48   0. 29 0. 50   0. 28 0. 51   0. 26 0. 55   0. 22 0. 55   0. 22	2. 42 1. 53 1. 94 1. 30 1. 62 1. 15 1. 40 1. 04 1. 23 0. 95 1. 10 0. 89 1. 00 0. 83	2% 2.64 1.77 2.12 1.50 1.77 1.31 1.53 1.18 1.34 1.08 1.20 1.00 0.93 0.94 1.00 0.88 0.93 0.84 0.86 0.80 0.93 0.81 0.69 0.68 0.67 0.66 0.67 0.66 0.67 0.66 0.64 0.64 0.62 0.62 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	2. 85 2. 01 2. 29 1. 69 1. 91 1. 48 1. 65 1. 32 1. 45 1. 21 1. 18 1. 04 1. 108 0. 98 1. 00 0. 92 0. 93 0. 88 0. 88 0. 84 0. 83 0. 80 0. 79 0. 77 0. 75 0. 74 0. 72 0. 72 0. 69 0. 69 0. 69 0. 67 0. 67 0. 65 0. 65 0. 63 0. 63 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 59 0. 50 0. 59 0. 59 0. 50 0. 59 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50 0. 50	3.05   2.26 2.45   1.90 2.05   1.65 1.77   1.47 1.56   1.34 1.39   1.23 1.39   1.23 1.39   1.23 1.00   0.96 0.94   0.91 1.00   0.96 0.94   0.91 1.00   0.96 0.94   0.91 1.00   0.96 0.94   0.91 0.89   0.89 0.87   0.80 0.77   0.77   0.77 0.74   0.74 0.72   0.72 0.69   0.69   0.69 0.68   0.67 0.66   0.65 0.63   0.61 0.62   0.59 0.60   0.48 0.60   0.48 0.60   0.48 0.60   0.44 0.60   0.44 0.60   0.44 0.60   0.44 0.61   0.41 0.61   0.41 0.61   0.41 0.61   0.41 0.62   0.39 0.63   0.63   0.64   0.31 0.63   0.65   0.60   0.44 0.60   0.44   0.63   0.61   0.41 0.61   0.41 0.61   0.41   0.61   0.41 0.62   0.39 0.63   0.66   0.48   0.63   0.66   0.46   0.31 0.68   0.29   0.69   0.29	3. 25 2.51 2.61 2.10 2.1.88 1.62 1.66 1.46 1.35 1.24 1.35 1.24 1.35 1.24 1.35 1.24 1.10 0.98 0.94 0.93 0.90 0.89 0.86 0.86 0.86 0.79 0.79 0.76 0.76 0.75 0.70 0.70 0.71 0.70 0.66 0.65 0.67 0.63 0.67 0.65 0.57 0.66 0.61 0.65 0.59 0.66 0.61 0.65 0.59 0.66 0.67 0.63 0.49 0.66 0.67 0.63 0.49 0.66 0.67 0.63 0.49 0.66 0.67 0.63 0.49 0.67 0.68 0.51 0.68 0.69 0.66 0.61 0.65 0.57 0.64 0.55 0.64 0.51 0.63 0.49 0.66 0.47 0.65 0.49 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.66 0.47 0.67 0.67 0.67 0.68 0.47 0.68 0.47 0.68 0.47 0.68 0.47 0.47 0.68 0.47 0.47 0.68 0.47 0.47 0.68 0.47 0.47 0.68 0.47 0.47 0.68 0.47 0.47 0.47 0.68 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.67 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.4

TABLE 5A.

## Distance of an Object by Two Bearings.

Difference between the course

Inference between the course and second		Di	ifference betwee	n the course and	i first bearing, it	points.	
bearing, in points.	37,	4	P.	41/2	41/4	5	51/4
4.5.5.5.6.6.6.6.7.7.7.7.7.7.7.7.7.9.9.9.9.9.9.0.00037 1111111111111111111111111111111111	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3. 62 3. 01 2. 91 2. 50 2. 44 2. 15 2. 10 1. 90 1. 85 1. 71 1. 65 1. 56 1. 50 1. 44 1. 38 1. 33 1. 27 1. 25 1. 10 1. 10 1. 10 1. 10 0. 95 0. 95 0. 95 0. 95 0. 95 0. 85 0. 83 0. 82 0. 80 0. 80 0. 87 0. 85 0. 83 0. 82 0. 80 0. 80 0. 74 0. 75 0. 68 0. 74 0. 65 0. 71 0. 55 0. 71 0. 55 0. 71 0. 55 0. 71 0. 43 0. 72 0. 40 0. 71 0. 43 0. 71 0. 43 0. 72 0. 40 0. 73 0. 43 0. 74 0. 65 0. 71 0. 43 0. 71 0. 43 0. 72 0. 40 0. 73 0. 40 0. 74 0. 65 0. 74 0. 65 0. 75 0. 68 0. 71 0. 55 0. 71 0. 55 0. 71 0. 55 0. 71 0. 55 0. 71 0. 43 0. 72 0. 40 0. 73 0. 43 0. 74 0. 65 0. 75 0. 32 0. 77 0. 74 0. 65 0. 77 0. 75 0. 32 0. 77 0. 70 0. 77 0. 70 0. 70 0. 77 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70	3, 80 3, 26 3, 05 2, 89 2, 55 2, 31 1, 94 1, 82 2, 10 2, 10 1, 73 1, 16 1, 17 1, 17 1, 10 1, 10 1, 10	3.96 3.49 3.18 2.83 2.266 2.46 2.29 2.16 2.02 1.19 2.02 1.39 1.81 1.75 1.64 1.61 1.39 1.38 1.30 1.39 1.30 1.30 1.22 1.22 1.15 1.15 1.15 1.15 1.15 1.15 1.09 1.09 0.96 0.93 0.93 0.89 0.90 0.85 0.86 0.77 0.84 0.74 0.82 0.70 0.81 0.67 0.77 0.46 0.78 0.55 0.77 0.46 0.78 0.48 0.78 0.40 0.79 0.61 0.79 0.61 0.79 0.61 0.79 0.40 0.79 0.40	4, 12 3, 72 3, 31 3, 05 2, 77 2, 61 1, 38 1, 84 1, 170 1, 69 1, 56 1, 55 1, 20 1, 135 1, 20 1, 19 1, 14 1, 12 1, 20 1, 19 1, 14 1, 12 1, 10 0, 10 1, 00 0, 96 1, 00 0, 97 1,	4. 26   3. 94   3. 42   3. 32   2. 86   2. 17   2. 13   2. 17   2. 13   2. 17   2. 13   1. 162   1. 50   1. 50   1. 50   1. 162   1. 50   1. 50   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 1	4. 40
	54	5 V,	6	61/4	6%	634	7
8 27 - 17 17 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 4.63 & 4.49 \\ 3.72 & 3.65 \\ 3.11 & 3.08 \\ 2.68 & 2.67 \\ 2.36 & 2.36 \\ 2.11 & 2.11 \\ 1.12 & 1.12 \\ 1.192 & 1.76 \\ 1.75 & 1.49 \\ 1.42 & 1.38 \\ 1.22 & 1.31 \\ 1.17 & 1.09 \\ 1.09 & 0.93 \\ 1.03 & 0.82 \\ 1.00 & 0.77 \\ 0.96 & 0.68 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0.63 \\ 0.94 & 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4.83 4.77 3.87 3.86 3.24 3.24 2.79 2.79 2.79 2.79 2.18 2.46 2.46 2.20 1.98 1.83 1.80 1.69 1.64 1.40 1.58 1.40 1.58 1.40 0.50 1.37 1.12 1.22 1.04 1.17 0.97 1.04 0.73 1.02 0.68 1.07 0.73 1.02 0.68 1.09 0.69 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49 0.96 0.49	4. 91	4.97 4.97 3.39 3.99 3.99 3.34 3.34 2.88 2.87 2.53 2.57 2.23 2.06 2.00 1.89 1.81 1.75 1.64 1.62 1.50 1.53 1.38 1.31 1.09 1.25 1.01 1.21 0.93 1.37 1.18 1.31 1.09 1.25 1.01 1.21 0.93 1.10 0.74 1.10 0.74 1.10 0.75 1.10 0	5,03 5,03 4,04 4,03 3,38 3,36 2,56 2,51 2,29 2,28 1,99 1,57 1,63 1,44 1,25 1,39 1,15 0,83 1,44 0,77 0,98 1,11 0,71 1,08 0,63 1,44 0,77 1,10 0,50 1,04 0,54 1,00 0,58 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1,00 0,43 1

## Distance of an Object by Two Bearings.

Difference between the course and second					Differe	nce be	tween t	he cou	rse and	first be	earing,	in poin	ts.			
bearing, in points.	7	34	1	1/2	1	34		s	- 8	14	8	1/2	s	34		9
5.50 9 9 14 15 10 10 10 11 11 11 11 12 12 12 12 12 12 13 13 13 13 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	5.07 4.07 4.07 4.07 3.41 2.94 2.58 2.31 2.10 1.92 1.78 6.1.47 1.40 1.34 1.28 1.23 1.19 1.15 1.12 1.10 1.10 1.07 1.07 1.03	5.06 4.05 3.37 2.88 2.51 1.98 1.61 1.34 1.22 1.12 0.85 0.87 0.87 0.60 0.73 0.61 0.55 0.50 0.44 0.39	5.100 4.10 3.43 2.95 2.60 2.33 1.79 1.67 1.48 1.41 1.34 1.29 1.24 1.20 1.16 1.13 1.10 1.08	5.08 4.06 3.36 2.87 2.49 2.19 1.95 1.75 1.58 1.43 1.30 0.91 0.91 0.83 0.76 0.63 0.57 0.40	5.12 4.11 3.44 2.96 2.61 2.34 2.12 1.80 1.68 1.57 1.41 1.35 1.29 1.24 1.20 1.10 1.10 1.10 1.10 1.10	5.06 4.03 3.34 2.84 2.16 2.16 1.92 1.71 1.54 1.39 1.26 0.87 0.79 0.72 0.65 0.52 0.46 0.41	5.13 4.12 2.97 2.61 2.34 2.12 1.95 1.80 1.68 1.49 1.41 1.35 1.29 1.25 1.20 1.17 1.13 1.11	5.03 3.39 2.79 2.41 2.11 1.87 1.50 1.22 1.10 0.91 0.82 0.74 0.67 0.60 0.53 0.47	5.12 4.11 3.44 2.96 2.61 1.90 1.68 1.57 1.49 1.41 1.35 1.29 1.24 1.20 1.16 1.13	4.97 3.93 3.24 2.74 2.36 1.82 1.62 1.30 1.17 1.05 0.86 0.77 0.69 0.62 0.55 0.42	5.10 4.10 3.43 2.95 2.60 2.33 2.11 1.79 1.67 1.57 1.48 1.41 1.29 1.24 1.20 1.16	4.88 3.86 3.17 2.67 2.29 2.20 1.76 1.55 1.38 1.24 1.11 1.00 0.89 0.72 0.64 0.56 0.50 0.43	5.07 4.07 3.41 2.94 2.58 2.31 1.92 1.78 1.66 1.47 1.40 1.34 1.28 1.23 1.19 1.15	4.77 3.76 3.08 2.59 2.22 1.69 1.32 1.17 1.05 0.93 0.83 0.74 0.66 0.58 0.51 0.44	5.03 4.04 2.38 2.91 2.56 2.29 2.29 1.65 1.65 1.46 1.39 1.32 1.27 1.22 1.18	4.64 3.65 2.98 2.50 2.13 1.61 1.41 1.25 0.87 0.68 0.60 0.52 0.45
	9	1/4	9	1/2	9	3/4	1	.0	10	1/4	10	1/2	10	3/4		11
10 1 10 1 10 1 10 1 1 1 1 1 1 1 1 1 1 1	4.97 3.99 3.34 2.88 2.53 2.27 2.06 1.89 1.75 1.62 1.53 1.44 1.37 1.31 1.25 1.21	4.50 3.52 2.87 2.39 2.04 1.75 1.52 1.33 1.18 1.03 0.91 0.80 0.71 0.62 0.54 0.46	4.91 3.94 3.30 2.84 2.50 2.24 2.03 1.86 1.72 1.61 1.51 1.42 1.35 1.29 1.24	4.33 3.38 2.74 2.28 1.93 1.66 1.44 1.25 1.09 0.96 4 0.73 0.64 0.55 0.47	4.83 3.87 3.24 2.79 2.46 2.20 2.00 1.83 1.69 1.48 1.40 1.33 1.27	4.14 3.22 2.61 2.16 1.82 1.56 1.34 1.16 1.01 0.88 0.76 0.66 0.57 0.49	4.74 3.80 3.18 2.74 2.41 2.16 1.96 1.86 1.55 1.46 1.38 1.31	3.94 3.05 2.46 2.03 1.71 1.45 1.24 1.07 0.92 0.80 0.69 0.59 0.50	4.63 3.72 3.11 2.68 2.36 2.11 1.92 1.76 1.63 1.52 1.42 1.35	3.72 2.88 2.31 1.90 1.59 1.34 1.14 0.98 0.84 0.72 0.61 0.52	4.52 3.63 3.04 2.62 2.30 2.06 1.87 1.72 1.59 1.48 1.39	3.49 2.69 2.15 1.76 1.46 1.23 1.04 0.88 0.75 0.63 0.53	4.40 3.53 2.95 2.55 2.24 2.01 1.82 1.67 1.54 1.44	3.20 2.50 1.98 1.62 1.34 1.11 0.94 0.79 0.66 0.55	4.26 3.42 2.86 2.47 2.17 1.94 1.76 1.62 1.50	3.01 2.30 1.82 1.47 1.21 1.00 0.83 0.69 0.57
	11	14	11	1/2	11	*	1	2	12	1/4	12	1/2	12	%	1	18
121 121 121 13 13	4.12 3.31 2.77 2.38 2.10	2.77 $2.10$ $1.65$ $1.32$	3.96 3.18 2.66 2.29	2.51 1.90 1.48 1.18	3.80 3.05 2.55	2.26 1.69 1.31	3.62 2.91	2.01 1.50	3.44	1.77						

# Page 634]

## TABLE 5B.

## Distance of an Object by Two Bearings.

Difference	Difference between the course and first bearing.						
the course and second	20°	990	240	2410	24°	80°	820
between the course and second bearing.  30° 32 34 44 46 48 50 52 54 56 66 66 68 70 72 74 76 68 82 84 86 88 90 92 94 69 98 100 2 104 106 108 110 112 114 116 118 120 122 124 126 130	1, 97 0, 98 1, 64 0, 87 1, 41 0, 79 1, 24 0, 73 1, 11 0, 68 1, 00 0, 64 0, 91 0, 61 0, 78 0, 56 0, 78 0, 56 0, 78 0, 56 0, 78 0, 56 0, 65 0, 51 0, 66 0, 47 0, 65 0, 51 0, 66 0, 47 0, 53 0, 48 0, 56 0, 47 0, 53 0, 48 0, 56 0, 47 0, 48 0, 43 0, 44 1 0, 40 0, 49 0, 43 0, 41 1 0, 40 0, 39 0, 39 0, 38 0, 37 0, 37 0, 36 0, 36 0, 37 0, 37 0,	2. 16 1, 14 1. 80 1, 01 1. 155 0, 91 1. 36 0, 84 1. 21 0, 78 1. 10 0, 73 1. 00 0, 69 0, 92 0, 66 0, 85 0, 64 0, 85 0, 67 0, 75 0, 59 0, 71 0, 57 0, 66 0, 50 0, 67 0, 56 0, 64 0, 54 0, 55 0, 64 0, 55 0, 64 0, 65 0, 50 0, 64 0, 54 0, 54 0, 49 0, 52 0, 48 0, 46 0, 45 0, 43 0, 43 0, 43 0, 43 0, 43 0, 43 0, 43 0, 43 0, 42 0, 42 0, 43 0, 43 0, 38 0, 38 0, 38 0, 37 0, 38 0, 37 0, 38 0, 37 0, 38 0, 38 0, 38 0, 37 0, 38 0, 33 0, 38 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 39 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30 0, 30	24°  2.34 1.31 1.96 1.15 1.68 1.04 1.32 0.88 1.09 0.78 1.09 0.78 1.09 0.78 1.09 0.77 0.68 0.67 0.68 0.77 0.66 0.77 0.66 0.77 0.67 0.67 0.68 0.77 0.68 0.77 0.69 0.69 0.60 0.73 0.62 0.69 0.60 0.73 0.62 0.69 0.60 0.73 0.64 0.74 0.65 0.75 0.53 0.55 0.55 0.55 0.55 0.55 0.55 0.55	2.52 1.48 2.52 1.181 1.30 1.81 1.16 1.59 1.06 1.28 0.92 1.17 0.98 1.28 0.92 1.108 0.73 0.88 0.73 0.88 0.73 0.78 0.68 0.79 0.68 0.77 0.66 0.77 0.66 0.77 0.66 0.77 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.57 0.56 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	2.70	3.60°  2. 88	3. 05
120 122 124 126 128	0, 35 0, 30 0, 35 0, 30 0, 35 0, 29 0, 36 0, 29 0, 36 0, 28 0, 37 0, 27 0, 37 0, 27 0, 38 0, 26	0, 38   0, 33   0, 38   0, 32   0, 38   0, 32   0, 39   0, 31   0, 39   0, 30   0, 40   0, 29   0, 41   0, 28	0. 41   0. 36 0. 41   0. 35 0. 41   0. 34 0. 42   0. 34 0. 42   0. 33 0. 42   0. 32 0. 43   0. 32 0. 43   0. 31 0. 44   0. 30	0. 44 0. 38 0. 44 0. 37 0. 45 0. 36 0. 45 0. 35 0. 45 0. 35 0. 46 0. 33 0. 47 0. 32	0. 47   0. 41 0. 47   0. 40 0. 47   0. 39 0. 47   0. 38 0. 48   0. 38 0. 48   0. 37 0. 48   0. 36 0. 49   0. 35 0. 49   0. 34	0.50   0.43 0.50   0.42 0.50   0.42 0.50   0.41 0.50   0.40 0.51   0.38 0.52   0.37 0.52   0.36	0,53   0,46 0,53   0,45 0,53   0,44 0,53   0,43 0,53   0,42 0,54   0,41 0,54   0,40 0,54   0,39 0,55   0,38
138 140 142 144 146 148 150 152 154 156 158	$\begin{array}{cccc} 0,39 & 0,26 \\ 0,39 & 0,25 \\ 0,40 & 0,25 \\ 0,41 & 0,24 \\ 0,42 & 0,24 \\ 0,43 & 0,23 \\ 0,45 & 0,22 \\ 0,46 & 0,22 \\ 0,48 & 0,21 \\ 0,49 & 0,20 \\ 0,51 & 0,19 \\ 0,53 & 0,18 \end{array}$	0, 42   0, 28 0, 42   0, 27 0, 43   0, 27 0, 44   0, 26 0, 45   0, 25 0, 46   0, 25 0, 48   0, 23 0, 50   0, 22 0, 52   0, 21 0, 52   0, 21 0, 54   0, 20 0, 56   0, 19	$\begin{array}{cccc} 0.45 & 0.30 \\ 0.45 & 0.29 \\ 0.46 & 0.28 \\ 0.47 & 0.28 \\ 0.49 & 0.27 \\ 0.49 & 0.26 \\ 0.50 & 0.25 \\ 0.52 & 0.24 \\ 0.53 & 0.23 \\ 0.55 & 0.22 \\ 0.57 & 0.21 \\ 0.59 & 0.20 \end{array}$	$\begin{array}{c cccc} 0.47 & 0.32 \\ 0.48 & 0.31 \\ 0.49 & 0.30 \\ 0.50 & 0.29 \\ 0.51 & 0.28 \\ 0.52 & 0.27 \\ 0.53 & 0.26 \\ 0.54 & 0.25 \\ 0.56 & 0.24 \\ 0.57 & 0.23 \\ 0.59 & 0.22 \\ 0.61 & 0.21 \\ \end{array}$	0.50 0.33 0.51 0.32 0.51 0.32 0.52 0.31 0.53 0.30 0.54 0.29 0.55 0.28 0.57 0.27 0.58 0.25 0.60 0.24 0.61 0.23 0.63 0.22	$\begin{array}{cccc} 0.53 & 0.35 \\ 0.53 & 0.53 & 0.34 \\ 0.54 & 0.33 \\ 0.55 & 0.32 \\ 0.56 & 0.31 \\ 0.57 & 0.30 \\ 0.58 & 0.29 \\ 0.59 & 0.28 \\ 0.60 & 0.26 \\ 0.62 & 0.25 \\ 0.63 & 0.24 \\ 0.65 & 0.22 \\ \end{array}$	0, 55         0, 37           0, 56         0, 36           0, 56         0, 35           0, 57         0, 34           0, 58         0, 32           0, 59         0, 31           0, 60         0, 30           0, 61         0, 29           0, 62         0, 27           0, 64         0, 26           0, 66         0, 25           0, 67         0, 23

Difference between the course			Difference be	etween the cours	e and first beari	ng.	
and second bearing.	34°	360	380	400	450	110	160 .
44° 46 48 50 52 54 56 68 60 62 64 66 68 70 72 74 76 88 90 92 94 100 102 104 116 118 110 112 124 126 128 130 132 124 126 138 130 132 144 146 148 150 154 155 156	3.22   2.22 2.69   1.99 2.69   1.99 2.03   1.55 1.81   1.44 1.63   1.37 1.17   1.17 1.12   1.00 1.12   1.00 1.12   1.00 1.12   1.00 1.12   1.00 1.12   1.00 1.05   0.89 0.87   0.89 0.87   0.89 0.87   0.89 0.67   0.66 0.63   0.66 0.63   0.66 0.65   0.66 0.65   0.66 0.65   0.66 0.65   0.66 0.65   0.66 0.65   0.66 0.65   0.66 0.66   0.65 0.66   0.65 0.67   0.66 0.66   0.66 0.66   0.66 0.66   0.66 0.67   0.66 0.66   0.67   0.82 0.83   0.83 0.85   0.93 0.86   0.93 0.86   0.93 0.87   0.93 0.88   0.93 0.95   0.95 0.95   0.95	3.39 2.43 1.86 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 2.13 1.68 1.57 1.35 1.57 1.35 1.15 1.25 1.13 1.18 1.07 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	3. 55 2. 63 2. 96 2. 27 2. 54 2. 01 1. 99 1. 65 1. 80 1. 53 1. 64 1. 42 1. 151 1. 20 1. 151 1. 20 1. 101 1. 05 1. 05 1. 01 1. 00 0. 94 0. 92 0. 91 1. 100 1. 05 1. 05 1. 01 1. 00 0. 94 0. 92 0. 91 0. 89 0. 88 0. 86 0. 85 0. 83 0. 83 0. 80 0. 80 0. 78 0. 78 0. 74 0. 74 0. 72 0. 70 0. 70 0. 60 0. 63 0. 65 0. 63 0. 55 0. 66 0. 65 0. 63 0. 55 0. 63 0. 50 0. 63 0. 55 0. 66 0. 64 0. 65 0. 50 0. 62 0. 54 0. 62 0. 54 0. 63 0. 65 0. 66 0. 62 0. 63 0. 65 0. 66 0. 63 0. 67 0. 62 0. 70 0. 28 0. 67 0. 25	3. 70	3. 85 3. 04 3. 22 2. 60 2. 77 2. 29 2. 43 2. 06 2. 17 1. 88 1. 96 1. 73 1. 79 1. 61 1. 65 1. 51 1. 43 1. 34 1. 27 1. 26 1. 21 1. 20 1. 16 1. 14 1. 11 1. 09 1. 07 0. 96 0. 96 0. 93 0. 93 0. 90 0. 90 0. 90 0. 90 0. 87 0. 87 0. 87 0. 87 0. 87 0. 87 0. 70 0. 68 0. 71 0. 68 0. 71 0. 68 0. 71 0. 68 0. 70 0. 63 0. 68 0. 59 0. 69 0. 61 0. 67 0. 51 0. 67 0. 50 0. 69 0. 61 0. 67 0. 50 0. 69 0. 60 0. 67 0. 50 0. 69 0. 60 0. 67 0. 50 0. 69 0. 60 0. 67 0. 50 0. 68 0. 50 0. 69 0. 61 0. 67 0. 50 0. 69 0. 60 0. 67 0. 50 0. 69 0. 60 0. 69 0. 60 0. 69 0. 60 0. 69 0. 60 0. 70 0. 7	4. 00 3. 24 3. 34 2. 77 2. 87 2. 44 2. 52 2. 18 2. 25 1. 98 2. 03 1. 83 1. 85 1. 69 2. 25 1. 98 2. 03 1. 83 1. 85 1. 69 1. 71 1. 58 1. 58 1. 49 1. 131 1. 21 1. 18 1. 16 1. 13 1. 12 1. 18 1. 16 1. 13 1. 12 1. 10 8 1. 07 1. 04 1. 04 1. 00 1. 00 0. 97 0. 97 0. 97 0. 97 0. 97 0. 93 0. 81 0. 93 0. 81 0. 83 0. 82 0. 80 0. 80 0. 78 0. 84 0. 83 0. 82 0. 80 0. 80 0. 78 0. 79 0. 76 0. 77 0. 74 0. 70 0. 70 0. 71 0. 60 0. 72 0. 62 0. 71 0. 60 0. 70 0. 55 0. 70 0. 53 0. 70 0. 54 0. 70 0. 55 0. 70 0. 53 0. 70 0. 54 0. 70 0. 55 0. 70 0. 55 0. 70 0. 53 0. 70 0. 55 0. 70 0. 50 0. 70 0. 55 0. 70 0. 55 0. 70 0. 50 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0. 70 0.	4. 14 3. 43 3. 46 2. 93 2. 97 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57 2. 57

# Page 636]

# TABLE 5B.

Difference between		ing.					
the course and second bearing.	4%°	500	520	540	560	580	60->
58° 60 62 64 66 68 70 72 74 78 80 82 84 86 88 90 91 102 104 116 118 120 122 124 126 128 130 132 134 136 138 140 141 146 152 154 156 156 156 156	4.28 3.6 3.57 3.17 3.07 2.74 2.40 2.2 2.47 2.2 40 2.2 2.17 2.6 4.1 4.3 1.70 1.6 1.3 1.20 1.3 1.20 1.3 1.20 1.3 1.20 1.3 1.20 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4, 66 4, 19 3, 89 3, 55 3, 34 3, 10 2, 94 2, 76 2, 16 2, 10 2, 19 1, 95 1, 85 1, 82 1, 72 1, 16 1, 16 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 15 1, 16 1, 16 1, 16 1, 16 1, 16 1, 16 1, 16 1, 16 1, 17 1, 17 1, 17 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18 1, 18	4, 77   4, 36 3, 99   3, 71 3, 43   3, 22 3, 01   2, 86 2, 48   2, 58 2, 42   2, 35 2, 42   2, 35 1, 16 1, 1	4. 88	4. 99   4. 69   4. 69   4. 173   3. 96   3. 58   3. 44   3. 14   3. 05   2. 13   2. 19   2. 13   2. 19   2. 13   2. 19   2. 13   2. 19   2. 13   2. 19   2. 13   1. 73   1. 73   1. 73   1. 73   1. 73   1. 73   1. 73   1. 74   1. 14   1. 139   1. 27   1. 25   1. 21   1. 16   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 10   1. 1

between the course			Differenc	Difference between the		irst bearing.		
and second bearing.	620	64°	660	68°	700	720	740	760
72° 74 76 80 82 84 86 890 94 96 992 104 106 112 114 116 1130 132 124 126 128 130 132 144 146 148 150 152 154 156 158	1. 09   0. 98 1. 07   0. 94 1. 04   0. 90 1. 02   0. 86 1. 00   0. 83 0. 98   0. 79 0. 95   0. 73 0. 94   0. 70 0. 93   0. 67 0. 92   0. 64 0. 91   0. 61 0. 90   0. 58 0. 90   0. 55	1. 04   0, 86 1. 02   0, 82 1. 00   0, 79 0. 98   0, 75 0. 97   0, 72 0. 96   0, 69 0, 95   0, 66 0, 94   0, 63 0, 93   0, 60 0, 92   0, 57 0, 91   0, 54	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 4.46 \\ 4.39 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.83 \\ 3.85 \\ 3.85 \\ 3.85 \\ 3.95 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.71 \\ 2.$	1. 11 0. 87 1. 09 0. 83 1. 06 0. 79 1. 04 0. 75 1. 03 0. 71 1. 01 0. 68 1. 00 0. 64 0. 99 0. 61 0. 98 0. 57	$\begin{array}{c} 3.93 \ 3.92 \\ 3.45 \ 3.45 \\ 3.68 \ 3.68 \\ 3.68 \ 3.68 \\ 2.78 \ 2.78 \\ 2.54 \ 2.53 \\ 2.34 \ 2.33 \\ 2.17 \ 2.17 \\ 2.17 \ 2.17 \\ 2.17 \ 2.17 \\ 2.17 \ 2.17 \\ 1.79 \ 1.74 \\ 1.79 \ 1.74 \\ 1.79 \ 1.74 \\ 1.79 \ 1.74 \\ 1.54 \ 1.45 \\ 1.48 \ 1.37 \\ 1.24 \ 1.30 \\ 1.37 \ 1.23 \\ 1.37 \ 1.23 \\ 1.37 \ 1.23 \\ 1.37 \ 1.23 \\ 1.32 \ 1.11 \\ 1.24 \ 1.30 \\ 1.32 \ 1.11 \\ 1.24 \ 1.30 \\ 1.32 \ 1.11 \\ 1.24 \ 1.30 \\ 1.12 \ 1.30 \\ 1.12 \ 0.86 \\ 1.10 \ 0.82 \\ 1.10 \ 0.82 \\ 1.10 \ 0.82 \\ 1.10 \ 0.80 \\ 1.10 \ 0.80 \\ 1.10 \ 0.59 \\ 0.59 \ 0.55 \\ 0.99 \ 0.55 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.52 \\ 0.98 \ 0.98 \ 0.52 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \ 0.98 \ 0.98 \\ 0.98 \$	3. 97 3. 97 3. 97 3. 93 3. 49 3. 41 3. 11 3. 11 3. 12 80 2. 57 2. 55 2. 36 2. 34 2. 19 2. 19 2. 18 1. 74 1. 72 1. 63 3. 11 1. 74 1. 72 1. 63 3. 11 1. 50 1. 37 1. 34 1. 16 1. 29 1. 10 1. 25 1. 04 1. 12 0. 99 0. 76 6. 11 1. 19 0. 94 1. 11 0. 80 1. 10 0. 90 0. 76 6. 10 70 0. 72 1. 10 70 0. 72 1. 10 70 0. 72 1. 10 70 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 64 1. 10 0. 10 0. 64 1. 10 0. 10 0. 64 1. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

# Page 638]

# TABLE 5B.

Difference between			Difference	e between the	course and fi	rst bearing.		
the course and second bearing.	750	N0°	450	1842	<b>&gt;6</b> °	447	900	920
88° 90 92 94 96 98 100 102 104 106 118 110 1112 114 116 122 124 126 128 130 132 134 146 148 140 142 144 156 158	1.66 1.52 1.59 1.43 1.59 1.43 1.52 1.34 1.41 1.19 1.36 1.13 1.32 1.06 1.28 1.01 1.21 0.90 1.18 0.85 1.13 0.76 1.15 0.80 1.13 0.76 1.17 0.63 1.09 0.67 1.07 0.63 1.05 0.59 1.03 0.51	$\begin{array}{c} 4.74 \ 4.73 \\ 4.07 \ 4.06 \\ 3.57 \ 3.55 \\ 3.19 \ 3.16 \\ 3.257 \ 3.25 \\ 2.263 \ 2.57 \\ 2.25 \ 2.16 \\ 2.10 \ 2.00 \\ 1.86 \ 1.71 \\ 1.85 \ 1.31 \\ 1.42 \ 1.83 \\ 1.47 \ 1.25 \\ 0.98 \\ 1.19 \ 0.93 \\ 1.42 \ 1.18 \\ 1.33 \ 1.14 \\ 1.18 \\ 1.33 \ 1.04 \\ 1.29 \ 0.98 \\ 1.19 \ 0.88 \\ 1.19 \ 0.88 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ 0.86 \\ 1.19 \ $	3.20 3.16 2.290 2.83 2.64 2.56 2.143 2.34 2.141 1.98 1.98 1.83 1.87 1.71 1.77 1.59 1.68 1.49 1.64 1.33 1.87 1.71 1.76 1.99 1.64 1.33 1.87 1.71 1.77 1.59 1.61 1.33 1.87 1.71 1.48 1.23 1.49 1.90 1.20 0.96 1.20 0.96 1.20 0.85 1.120 0.85 1.120 0.60 1.120 0.60 1.120 0.60 1.120 0.60 1.120 0.60 1.100 0.60	4.78 4.76 4.11 4.76 3.61 3.55 3.22 3.15 3.22 3.15 2.91 2.82 2.45 2.33 2.27 2.13 2.12 1.99 1.82 2.12 1.82 1.188 1.69 1.188 1.69 1.188 1.00 1.188 1.00 1.189 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	4.12 4.06 3.23 3.13 2.92 2.80 2.96 2.53 2.45 2.31 2.12 1.94 2.10 1.70 1.15 1.17 1.17 1.17 1.17 1.17 1.17 1.17 1.17	4. 13 4. 04 3. 52 3. 63 3. 52 3. 63 3. 52 3. 63 3. 52 2. 78 4. 62 2. 67 2. 51 2. 46 2. 28 2. 28 2. 08 1. 79 1. 52 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 62 1. 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_	94	967	957	100	102	101	106	10%
104° 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 136 137 140 141 148 150 152 151 156 158 160	1, 13 0, 16	1,11   3,86 3,61   3,35 3,22   2,94 2,91   2,61 2,65   2,12 2,65   2,12 2,27   1,92 2,27   1,92 2,12   1,76 1,99   1,61 1,88   1,36 1,69   1,64 1,69   1,6 1,69   1,6 1,69   1,6 1,09   1,6 1,09   1,6 1,09   1,6 1,09   1,6 1,09   1,6 1,09   1,0 1,09   1,0 1,00   1,0 1,0 1,0   1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	4.76 4.48 4.09 3.89 3.80 3.59 3.28 3.20 2.88 3.20 2.88 2.64 2.29 2.43 2.96 2.26 1.87 2.11 1.77 1.17 1.32 1.68 1.21 1.77 1.32 1.68 1.21 1.54 1.03 1.48 0.95 1.43 0.88 1.38 0.81 1.39 0.69 1.20 0.69 1.20 0.69 1.20 0.69 1.20 0.69	4.74 4.40 4.07 8.72 3.57 3.21 3.57 3.21 3.19 2.81 2.63 2.23 2.42 2.01 2.25 1.82 2.40 1.65 1.47 0.11 1.56 1.38 1.47 0.91 1.47 0.93 1.47 0.93 1.47 0.93 1.47 0.93 1.47 0.93 1.49 0.64 1.49 0.50 1.49 0.50	[1, 21, 0, 49] [1, 18, 0, 14	4.67 4.19 4.01 3.54 4.01 3.52 3.05 3.14 2.66 2.84 2.35 2.59 2.10 2.39 1.88 2.21 1.70 2.07 1.51 1.91 1.40 1.83 1.27 1.74 1.16 1.55 0.89 1.45 0.81 1.40 0.74 1.35 0.67 1.31 0.61 1.27 0.56 1.23 0.50	4. 62 4. 08 3. 97 3. 84 3. 49 2. 96 3. 11 2. 58 2. 81 [2. 27 2. 57 2. 02 2. 36 [1. 81 2. 19 4. 63 4. 81 4. 21 4. 81 4. 21 4. 81 4. 21 4. 81 4. 21 4. 81 6. 92 4. 81 6. 69 4. 81 6. 69 6. 92 6. 93 6. 93 6. 93 6. 94 6. 94	4.57 3.96 3.93 3.33 3.93 3.35 2.86 3.08 2.19 2.78 2.19 2.54 1.94 2.31 1.71 1.56 2.03 1.41 1.79 1.15 1.70 1.05 1.62 0.95 1.54 0.86 1.48 0.85 1.42 0.71 1.32 0.58 1.32 0.58 1.32 0.58

the course I	Difference between the course and first bearing.													
ind second bearing.	110	J.	11	စ္	11	<b>1</b> °	11	60	11	ရှဝ	12	000	1	230
120° 1224 124 126 128 130 131 131 136 138 140 142 144 146 150 151 152 160	4. 52 3. 88 3. 41 2. 75 2. 51 2. 31 2. 14 2. 00 1. 68 1. 67 1. 46 1. 40 1. 35		5, 34 4, 46 3, 83 3, 36 2, 71 2, 48 2, 28 2, 12 1, 97 1, 85 1, 76 1, 58 1, 51 1, 44 1, 33 1, 29 1, 25	4, 53 3, 70 3, 10 2, 65 2, 30 2, 01 1, 78 1, 58 1, 42 1, 27 1, 14 1, 03 0, 93 0, 93 0, 64 0, 75 0, 68 0, 61 0, 48 0, 43	5. 26 4. 39 3. 78 2. 96 2. 67 2. 44 2. 25 1. 95 1. 63 1. 55 1. 42 1. 37 1. 32 1. 27	4, 36 3, 55 2, 98 2, 54 2, 20 1, 92 1, 50 1, 34 1, 20 1, 07 0, 96 0, 78 0, 78 0, 76 0, 56 0, 49 0, 43	5. 18 4. 32 3. 72 3. 26 2. 91 2. 63 2. 40 2. 21 1. 80 1. 61 1. 53 1. 46 1. 34 1. 29	4. 19 3. 41 2. 85 2. 42 2. 09 1. 83 1. 61 1. 42 1. 13 1. 01 0. 80 0. 72 0. 64 0. 57 0. 50 0. 44	5. 08 4. 25 3. 60 2. 58 2. 36 2. 17 2. 01 1. 88 1. 58 1. 58 1. 58 1. 37 1. 37 1. 32	4. 01 3. 25 2. 71 2. 30 1. 98 1. 73 1. 52 1. 34 1. 18 1. 09 4 0. 83 0. 74 0. 68 0. 58 0. 51 0. 45	4. 99 4. 17 3. 58 3. 14 2. 80 2. 53 1. 98 1. 84 1. 73 1. 65 1. 47 1. 41 1. 35	3. 82 3. 10 2. 57 2. 18 1. 88 1. 42 1. 25 1. 19 0. 87 0. 60 0. 53 0. 46	4. 88 4. 08 3. 51 3. 08 2. 748 2. 26 2. 08 1. 81 1. 70 1. 52 1. 44 1. 38	3. 63 2. 93 2. 44 2. 06 1. 75 1. 53 1. 17 1. 03 0. 80 0. 70 0. 62 0. 54 0. 47
	124	2	12	6°	1:	!≼∍	13	(O ³	18	20	13	10	1	36°
134° 136 138 140 142 144 146 148 150 152 154 156 158	3. 99 3. 43 3. 01 2. 68 2. 42 2. 21 2. 04 1. 89 1. 77 1. 66 1. 56 1. 48	3. 43 2. 77 2. 29 1. 93 1. 65 1. 42 1. 24 1. 08 0. 95 0. 95 0. 64 0. 56 0. 48	4. 66 3. 89 3. 34 2. 94 2. 37 2. 16 1. 99 1. 85 1. 72 1. 62 1. 53 1. 45	3. 23 2. 60 2. 15 1. 81 1. 54 1. 32 1. 14 0. 99 0. 87 0. 76 0. 66 0. 57 0. 49	4.54 3.79 3.26 2.86 2.55 2.30 2.10 1.94 1.80 1.68 1.58 1.49	3. 04 2. 44 2. 01 1. 68 1. 43 1. 22 1. 05 0. 91 0. 79 0. 68 0. 59 0. 51	4. 41 3. 63 3. 17 2. 78 2. 48 2. 24 1. 88 1. 75 1. 63 1. 53	2. 84 2. 27 1. 86 1. 55 1. 31 1. 12 0. 96 0. 83 0. 71 0. 61 0. 52	4. 28 3. 57 3. 07 2. 70 2. 40 2. 17 1. 98 1. 83 1. 70 1. 58	2. 63 2. 10 1. 72 1. 43 1. 20 1. 02 0. 87 0. 74 0. 64 0. 54	4. 14 3. 46 2. 97 2. 61 2. 33 2. 10 1. 92 1. 77 1. 64	2. 43 1. 93 1. 58 1. 30 1. 09 0. 92 0. 78 0. 66 0. 56	4.00 3.34 2.87 2.52 2.25 2.03 1.85 1.71	2. 24 1. 77 1. 44 1. 18 0. 99 0. 83 0. 69 0. 58
148° 150 152 154 156 158	3. 22 2. 77 2. 43 2. 17	2. 04 1. 61 1. 30 1. 06 0. 88 0. 73	3.70 3.09 2.33 2.08 2.08	1. 85 1. 45 1. 16 0. 95 0. 78	3.55 9.64 2.964 2.964	1. 66 1. 30 1. 04 0. 84	3, 38 2, 83 2, 43	1. 48 1. 15 0, 91	3. 22 2. 69	1. 31	3, 05	1.14		

TABLE 6.

### Distance of Visibility of Objects at Sea.

Height, feet.	Nautical miles.	Statute mile*.	Height, feet.	Nautical miles.	Statute miles	Height, feet.	Nautical miles.	Statute miles.
1	1, 1	1.3	100	11.5	13. 2	760	31.6	36. 4
2	1. 7	1.9	105	11.7	13.5	780	32.0	36, 9
3	2.0	2.3	110	12.0	13. 8	800	32.4	37. 3
4	2. 3	2.6	115	12.3	14.1	820	32. 8	37. 5
5	2. 5	2.9	120	12.6	14.5	840	33. 2	35, 3
6	2.8	3, 2	125	12. 0	14. 5	860		
7	2. 8	3, 5	130		15.1		33. 6	38. 7
				13. 1		880	34. 0	39, 2
- 8	3. 1	3, 7	135	13, 3	15. 3	900	34. 4	39, 6
9	3, 5	4.0	140	13. 6	15. 6	920	34. 7	40, 0
10	3.6	4.2	145	13.8	15. 9	940	35. 2	40.5
11	3.8	4.4	150	14.1	16, 2	960	35, 5	40.9
12	4.0	4.6	160	14.5	16, 7	980	35. 9	41.3
13	4. 2	4.8	170	14.9	17. 2	1,000	36. 2	41.7
14	4, 3	4.9	180	15.4	17.7	1,100	38.0	43.8
15	4.4	5.1	190	15. S	18, 2	1,200	39, 6	45. 6
16	4,6	5.3	200	16, 2	18.7	1,300	41.3	47. 6
17	4.7	5.4	210	16, 6	19.1	1,400	42.9	49.4
18	4.9	5, 6	220	17.0	19. 6	1,500	44. 4	51.1
19	5.0	5. 8	230	17. 4	20, 0	1,600	45. 8	52. s
20	5. 1	5, 9	240	17. 7	20. 4	1,700	47. 2	54. 4
21	5. 3	6. 1	250	18. 2	20. 9	1, 800	48.6	56, 0
22		6. 2	260	18. 5	21. 3			57.5
	5.4					1,900	. 49, 9	59.0
23	5, 5	6. 3	270	18.9	21. 7	2,000	51.2	
24	5.6	6, 5	280	19. 2	22. 1	2, 100	52.5	60, 5
25	5.7	6, 6	290	19.6	22.5	2, 200	53, 8	61.9
26	5, 8	6.7	300	19, 9	22.9	2,300	55, 0	63.3
27	6, 0	6, 9	310	20, 1	23, 2	2, 400	56, 2	64.7
28	6.1	7.0	320	20, 5	23, 6	2,500	57.3	66.0
29	6, 2	7.1	330	20, 8	24. 0	2,600	58, 5	67.3
30	6, 3	7. 2	340	21.1	24. 3	2,700	59. 6	68. 6
31	6.4	7.3	350	21.5	24.7	2,800	60, 6	69, S
32	6, 5	7.5	360	21.7	25, 0	2,900	61.8	71. 1
33	6, 6	7.6	370	22. 1	25. 4	3,000	62. 8	72.3
34	6.7	7.7	380	22.3	25, 7	3, 100	63, 8	73.5
35	6, 8	7.8	390	22. 7	26. 1	3, 200	64, 9	74. 7
36	6, 9	7. 9	400	22. 9	26. 4	3, 300	65, 9	75.9
37	6. 9	8.0	410	23. 2	26. 7	3,400	66. 9	77.0
38	7. 0	8.1	420	23. 5	27. 1	3,500	67. 8	78.1
			430	23. 8	27. 4	3,600	68. 8	79. 2
39	7.1	8, 2						
40	7.2	8.3	440	24.1	27. 7	3,700	69. 7	80.3
41	7.3	8, 4	450	24.3	28.0	3,800	70. 7	81.4
42	7.4	8.5	460	24. 6	28.3	3, 900	71.6	82.4
43	7.5	8.7	470	24. 8	28, 6	4,000	72.5	83.5
44	7. 6	8, 8	480	25. 1	28, 9	4, 100	73.4	84.5
45	7.7	8.9	490	25.4	29, 2	4, 200	74.3	No. 6
46	7.8	9. 0	500	25, 6	29, 5	4,300	75. 2	86, 6
47	7.9	9.0	520	26. 1	30. 1	4, 400	76. 1	87.6
48	7.9	9.1	540	26. 7	30.7	4,500	76. 9	88, 5
49	8, 0	9. 2	560	27.1	31. 2	4,600	77.7	89. 5
50	8.1	9.3	580	27. 6	31. 8	4, 700	78.6	90.5
55	8.5	9.8	600	28.0	32. 3	4, 800	79. 4	91.4
60	8.9	10. 2	620	28.6	32. 9	4,900	80. 2	92.4
65	9. 2	10. 2	640	29. 0	33. 4	5,000	81. 0	93, 3
							88.8	102. 2
70	9.6	11.0	660	29, 4	33.9	6,000		110.5
75	9. 9	11.4	680	29, 9	34.4	7,000	96, 0	
80	10.3	11.8	700	30, 3	34.9	8,000	102.6	118.1
85	10.6	12. 2	720	30. 7	35, 4	9,000	108.7	125. 2
90	10.9	12.5	740	31.1	35.9	10,000	114.6	132.0
95	11.2	12.9						

TABLE 7.

[Page 641

For converting Arc into Time, and the reverse.

0	Н. М.	0	Н. М.		н. м.	, , –	Н. М.	0	Н. М.	0	Н, М,
<b>-</b>				-,-		- ,	M. S.	,	M. S.		M. S.
-	S. 3	"	S 10	. ,,	S. ¿		S. 3	"	S. 100	<i>;,</i>	S. at
1 2 3 3 4 4 5 5 6 6 7 8 9 10 112 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 9 30 31 32 33 33 33 34 34 35 36 37 38 9 40 41 42 43 44 44 45 46 47 48 49	0 4 4 0 8 8 0 12 0 16 0 12 0 16 0 12 0 16 0 12 0 16 0 12 0 16 1 12 0 16 1 12 0 17 12 1 16 1 12 0 17 12 1 16 1 12 1 16 1 12 1 12 1 15 1 12 1 15 1 12 1 15 1 12 1 15 1 12 1 15 1 12 1 15 1 1 1 1	61 62 63 64 65 66 67 72 73 74 75 76 77 78 80 81 82 83 84 85 88 89 90 91 92 93 94 95 99 90 100 102 103 104 105 106 107 108 109 109 109 109 109 109 109 109 109 109	4 4 8 8 4 12 4 16 6 1 20 6 24 4 5 2 2 8 5 5 20 5 5 4 8 5 5 5 2 5 5 5 6 6 6 6 20 6 24 6 32 6 6 32 6 6 40 6 48 6 5 2 6 6 7 7 4 8 7 116	,	8 4 8 8 8 12 8 16 8 16 8 16 8 20 8 24 8 32 8 32 8 32 8 40 8 44 8 8 52 9 10 9 4 8 9 12 9 12 9 12 9 12 9 12 9 12 10 10 10 10 10 10 10 10 10 10 10 10 10	181 182 183 184 185 186 187 190 191 192 193 194 195 196 201 202 203 204 205 206 207 208 210 211 212 213 214 215 216 227 228 224 225 226		241 242 243 244 245 246 247 248 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 267 268 269 270 271 272 273 274 275 277 278 279 280 281 282 283 284 285 288 289 289 280 281 281 281 281 281 281 281 281 281 281	M. S. & & & & & & & & & & & & & & & & & &	301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 320 321 322 323 324 325 326 327 328 329 330 331 331 342 343 343 344 345 346 347 348 349	M. S. & & & & & & & & & & & & & & & & & &
49 50 51	3 16 3 20 3 24	109 110 111	$\begin{array}{r} 7 & 16 \\ 7 & 20 \\ \hline 7 & 24 \end{array}$	169 170 171	$\begin{array}{r} 11 & 16 \\ 11 & 20 \\ \hline 11 & 24 \end{array}$	$\frac{229}{230}$	15 16 15 20 15 24	$\frac{289}{290}$	19 16 19 20 19 24	$\frac{349}{350}$	$\begin{array}{r} 23 \ 16 \\ 23 \ 20 \\ \hline 23 \ 24 \\ \end{array}$
52 53 54 55 56 57 58 59	3 28 3 32 3 36 3 40 3 44 3 48 3 52 3 56	112 113 114 115 116 117 118	7 28 7 32 7 36 7 40 7 44 7 48 7 52 7 56	172 173 174 175 176 177 178 179	11 28 11 32 11 36 11 40 11 44 11 48 11 52 11 56	232 233 234 235 236 237 238	15 28 15 32 15 36 15 40 15 44 15 48 15 52 15 56	292 293 294 295 296 297 298 299	19 28 19 32 19 36 19 40 19 44 19 48 19 52	352 353 354 355 356 357 358 359	23 28 23 32 23 36 23 40 23 44 23 48 23 52 23 56

Note.—When turning seconds of are into time, and vice versa, it should be remembered that the fractions are sixtieths; thus, the value in time of 42" is not 2.48, but 245=2.8.

Page 642]

### TABLE 8.

#### Sidereal into Mean Solar Time.

Sidercal	1								
	0,4	15	25	35	45	5 ^h	6 ^h	73	For seconds.
m.	m, $s$ ,	т. я	m. s.	m. s.	m. s.	m. s.	m. s.	m. 8.	8 8.
9	0.0,000	0 9, 830	0 19,659	0 29, 489 0 29, 653	0 39,318 0 39,482	0 49, 148 0 49, 312	0 58, 977 0 59, 141	1 8,807 1 8,971	1 0,003
1 2	0 0, 164 0 0, 328	0 9, 993 0 10, 157	0 19, 823 0 19, 987	0.29, 816	0.39,646	0 49, 475	0.59,305	1 9, 135	2 .005
3	0.0,323	0 10, 137	0 20, 151	0.29,950	0.39,810	0 49, 639	0.59,469	1 9, 298	5 7008
4	0 0, 655	0 10, 485	0.20, 314	0.30, 144	0.39, 974	0.49, 503	0.59,633	1 9,462	4 011
-5	0 0, 819	0.10, 649	0.20,478	0.30, 308	0.40, 137	0.49, 967	0.59,796	$1^{-}$ 9, 626	5 .014
6	0.0,983	0.10, 813	0.20, 642	0.30,472	0.40,301	0.50, 131	0.59, 960	1 - 9,790	6, .016
7	0.1,147	0.10,976	0.20,806	0.30,635	0.40,465	0.50, 295	1 - 0.124	1 9,951	7 , 019
8	0.1.311	0.11,140	0.20, 970	0.30,799	0.40,623	0.50,458	1 - 0.288	-1.40,118	3 , 022
9	$-0.1,474^{\circ}$	0.11,304	0/21, 134	0.30,963	0.40,793	0.50,622	-1 = 0.452	1_10, 281	9 _ , 025
10	0.1,638	0.11,468	0.21,297	0.31,127	0.40,956	0.50,756	1 0, 616	1 10, 445	10 , 027
11	0.1,802	0.411,632	0.21,461	0.31,291	0.41,120	0.50, 950	1 0, 779	1 10,609	11 .030
12	0.1,966	0.11,795	0 21, 625	0.31, 455	0 11, 284	0.51, 111	1 0.943	1 10,773	12 033
13	0 2.130	0.11,959	0 21,789	0 31, 618	0 41, 448	0 51, 275 0 51, 441	1 I. 107	1 10, 937 1 11, 100	13 . 035 11 . 038
14	0 2, 294	0 12, 123	0 21, 953 0 22, 117	0_31, 782   0_31, 946	0 41, 612 0 41, 776	0 51, 605	1 1, 271 1 1, 435	T 11, 264	15 .041
I5   I6	0 2, 457 0 2, 621	0 12, 287 0 12, 451	0 22, 117 0 22, 280	0.32,110	0 41, 430	0.51,769	1 1, 450	1 11, 428	16 .044
17	0 2,785	0 12, 615	0 22, 144	0 32, 274	0 42, 103	0.51,933	1 1.762	1 11, 592	17 .046
isl	0 2, 949	0 12, 778	0 22, 608	0 32, 438	0 42, 267	0.52,097	1 1.926	1 11, 756	18 . 049
19	0.3, 113	0.12,942	0 22,772	0.32,601	0.42.431	0.52,260	-1 - 2,090	-1.41,920	19 - 0.052
201	0 3, 277	0.13, 106	0.22,936	0.32, 765	6 42, 595	0.52,424	1 2, 254	1.12,083	20 , 055
21	0.3,440	0.13,270	0.23,099	0.32,929	0.42,759	0.52,588	-1 - 2.418	1 - 12, 247	21 , 057
22	0.3,604	0.13, 434	0.23, 263	0.33, 093	0.42,922	0.52, 752	1 - 2.582	1.12.411	22060
23	0.05,768	0.13,598	0 23, 427	0.33, 257	0.43,086	0.52,916	1 2.745	1 12, 575	23 . 063
21	0.3,932	0.13,761	0.23,591	0.33,420	0.43, 250	0.53, 080	1 - 2,909	1 12, 739	24 . 066
25	0.4,096	0.13,925	0.23,755	0.33, 584	0 43, 414	0.53, 243	1 3,073	1 12, 903	25 . 068
26	0.4,259	0.14, 089	0 23, 919	0.33,748	0 43, 578	0 53, 407	1 3, 237 1 3, 401	1 13, 066 1 13, 230	26 . 071 27 . 074
27	0 4, 423	0 11, 253	0 24.082	0.33, 912	0 43, 742 0 43, 905	0 53, 571 0 53, 735	1 3, 564	1 13, 230 1 13, 394	28 . 076
25 29	$\begin{array}{c} 0.4,587 \\ 0.4,751 \end{array}$	0 14, 417 0 14, 581	0 24, 246 0 24, 410	0 34, 076 0 34, 240	0 44, 069	0.53, 899	3, 725	1 13, 558	29 . 079
$\frac{1}{30}$	0 4, 915	0 14, 744	0 24, 574	0 34, 403	0.44, 233	0 54, 063	1 3, 892	1 13, 722	30 .082
31	0.5,079	0 14, 744	0 24, 738	0.34,567	0 44, 397	0.54, 226	1 4, 056	1 13, 886	31 , 085
32	0.5, 242	0 15, 072	0.24,902	0 34, 731	0.44.561	0.54,390	-1 4, 220	1 14, 049	32 . 087
33	0.5, 406	0.15,236	0.25, 065	0.34, 895	0.44,721	0.54,554	1 4.384	1.14,213	33 , 090
34	0.5,570	-0.45,400	0.25, 229	0.35, 059	0.44,855	0.54,718	1 4.547	1 14. 377	31 .093
35	0.5,734	0.45,563	0.25,393	0.35,223	-0 $-45$ , $052$	0.54,882	-1 - 4.711	1 14, 541	35 . 096
36	0.5, 595	0.15,727	0.25,557	0.35,386	0.45, 216	0.55, 046	1 4,875	1 14,705	36 .098
37	0.6,062	0/15, 891	0 25, 721	0.35, 550	0 45, 380	0.55, 209	1 5, 039 1 5, 203	1 14, 868 1 15, 032	37 . 101 38 . 104
35	0.6, 225	0 16, 055	0.25, 885 0.26, 048	0.35, 714 0.35, 878	0 45, 541 0 45, 707	0 55, 373 0 55 537	1 5, 367	1 15, 196	39 . 106
39	0.6,389	0 16, 219		0.36, 042	0.45, 871	0.55, 701	1 5, 530	1 15, 360	40
10	0.6,553	0.16,383	0 26, 212 0 26, 376	0.36,206	0 46, 035	0 55, 865	1 5,694	1 15, 524	41 .112
41   42	0 6, 881	0 16, 710	0 26, 540	0.36,369	0 46, 199	0.56, 028	1 5, 858	1.45,688	42 . 115
43	0.7,015	0.16,874	0.26, 704	0.36,533	0.46,363	0.56, 192	-1 - 6,022	1.45,851	43 . 117
411	0.7,208	0.17,038	0.26,867	0.36,697	0.46,527	-0.56,356	1 6, 186	-1.16,015	447 . 120
15	0.7, 372	0.17, 202	0.27, 031	0.36,861	0.46,690	0.56,520	1 6, 350	1-16, 179	45 123
46	0.7,536	0.17,366	0.27, 195	0.37,025	-0.46,854	-0.56,684	-1 - 6,513	1 16, 343	16   -126
17	0.7  700	0.17,529	0 27, 359	0.37,188	-0.47,018	0.56,848	1 6,677	1 16, 507	47 . 128
1	0.7,864	-0.17,693	0 27, 523	0.37,352	0 47, 182	0.57, 011	1 6.841	1 16, 671	48 . 131 49 . 131
49	0.8,027	0 17, 857	0.27, 687	0.37,516	0.47,346	0 57, 175	1 7,005	1 16, 834 1 16, 898	50 , 137
50	0.8, 191	0.18, 021	0 27, 850	0.37,680	0 47, 510	0.57,339	1 7, 169 1 7, 332	1 17, 162	51 . 139
51	0 8,355	0.18.185	0.28,014	0.37, 844 0.38, 008	0 47, 673 0 47, 837	0 57, 503	1 7, 496	1 17, 326	52 142
52  53	0.8,519	0.18,349 0.18,512	-0.28,178 -0.28,342	0.38,008	0.48.001	0.57,831	1 7,660	1 17, 490	53 , 115
54	0 5 517	0 18, 676	0.25,506	0.38,335	0.48, 165	0.57, 994	1 7, 821	1 17, 651	54 . 147.
55	-0.9,010	0.18, 840	0 28, 670	0.38, 499	0.48, 329	0.58, 158	1 7,988		55 , 150
5h	0.9, 174	0.19,001	0.28, 833	0.78 663	0.48 192	0.58,322	1 8, 152	1 17,981	56, 153
57	0.9,338	0.19, 168	0.28,597	0.38.827	0.48,656	0.58 186	F 8, 315	-1.18,145	157 . 156
55	0.9,502	, 0, 19, 331	0.29,161	0.75.101	4) 45 -00	0.5%,550	1 8,479	1 15 100	
50		0 19, 495	0.29,325	0.39.154	0.12 021	0.58.814	1 × 613	1/15, 474	59 0, 161

### TABLE 8.

# Sidereal into Mean Solar Time.

Sidereal.	To be subtracted from a sidereal time interval.											
Sid	Sh	94	10 ^h	116	12h	13h	14b	156	For seconds.			
m. 0 1 2 3 4	m. s. 1 18.636 1 18.800 1 18.964 1 19.128 1 19.292	m. \$. 1 28, 466 1 28, 630 1 28, 794 1 28, 958 1 29, 121	m. s. 1 38, 296 1 38, 459 1 38, 623 1 38, 787 1 38, 951	m. s. 1 48, 125 1 48, 289 1 48, 453 1 48, 617 1 48, 780	m. s. 1 57, 955 1 58, 119 1 58, 282 1 58, 446 1 58, 610	m. s. 2 7.784 2 7.948 2 8.112 2 8.276 2 8.440	m. 8. 2 17.614 2 17.778 2 17.941 2 18.105 2 18.269	m. s. 2 27, 443 2 27, 607 2 27, 771 2 27, 935 2 28, 099	s. s. 1 0.003 2 .005 3 .008 4 .011			
5 6 7 8 9 10 11 12 13	1 19, 456 1 19, 619 1 19, 783 1 19, 947 1 20, 111 1 20, 275 1 20, 439 1 20, 602 1 20, 766	1 29. 285 1 29. 449 1 29. 613 1 29. 777 1 29. 940 1 30. 104 1 30. 268 1 30. 432 1 30. 596	1 39. 115 1 39. 279 1 39. 442 1 39. 606 1 39. 770 1 39. 934 1 40. 098 1 40. 261 1 40. 425	1 48, 944 1 49, 108 1 49, 272 1 49, 436 1 49, 600 1 49, 763 1 49, 927 1 50, 091 1 50, 255	1 58. 774 1 58. 938 1 59. 101 1 59. 265 1 59. 429 1 59. 593 1 59. 757 1 59. 921 2 0.084	2 8.603 2 8.767 2 8.931 2 9.095 2 9.259 2 9.423 2 9.586 2 9.750 2 9.914	2 18. 433 2 18. 597 2 18. 761 2 18. 924 2 19. 088 2 19. 252 2 19. 416 2 19. 580 2 19. 744	2 28. 263 2 28. 426 2 28. 590 2 28. 754 2 28. 918 2 29. 082 2 29. 245 2 29. 409 2 29. 573	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
14 15 16 17 18 19 20	1 20. 930 1 21. 094 1 21. 258 1 21. 422 1 21. 585 1 21. 749 1 21. 913 1 22. 077	1 30, 760 1 30, 923 1 31, 087 1 31, 251 1 31, 415 1 31, 579 1 31, 743	1 40,589 1 40,753 1 40,917 1 41,081 1 41,244 1 41,408 1 41,572	1 50.419 1 50.583 1 50.746 1 50.910 1 51.074 1 51.23\$ 1 51.402	2 0.248 2 0.412 2 0.576 2 0.740 2 0.904 2 1.067 2 1.231 2 1.395	2 10.078 2 10.242 2 10.405 2 10.569 2 10.733 2 10.897 2 11.061 2 11.225	2 19. 907 2 20. 071 2 20. 235 2 20. 399 2 20. 563 2 20. 727 2 20. 890	2 29. 737 2 29. 901 2 30. 065 2 30. 228 2 30. 392 2 30. 556 2 30. 720	$\begin{array}{c c} 14 & .038 \\ \hline 15 & .041 \\ 16 & .044 \\ 17 & .046 \\ 18 & .049 \\ \hline 19 & .052 \\ \hline 20 & .055 \\ \hline \end{array}$			
21 22 23 24 25 26 27 28	1 22.077 1 22.241 1 22.404 1 22.568 1 22.732 1 22.896 1 23.060 1 23.224	1 31. 906 1 32. 070 1 32. 234 1 32. 398 1 32. 562 1 32. 726 1 32. 889 1 33. 053	1 41, 736 1 41, 900 1 42, 064 1 42, 227 1 42, 391 1 42, 555 1 42, 719 1 42, 883	1 51.565 1 51.729 1 51.893 1 52.057 1 52.221 1 52.385 1 52.548 1 52.712	2 1.395 2 1.559 2 1.723 2 1.887 2 2.050 2 2.214 2 2.378 2 2.542	2 11, 225 2 11, 388 2 11, 552 2 11, 716 2 11, 880 2 12, 044 2 12, 208 2 12, 371	2 21. 054 2 21. 218 2 21. 382 2 21. 546 2 21. 709 2 21. 873 2 22. 037 2 22. 201	2 30, 884 2 31, 048 2 31, 211 2 31, 375 2 31, 539 2 31, 703 2 31, 867 2 32, 031	21 .057 22 .060 23 .063 24 .066 25 .068 26 .071 27 .074 28 .076			
30 31 32 33 34 35	1 23, 387 1 23, 551 1 23, 715 1 23, 879 1 24, 043 1 24, 207 1 24, 370	1 33. 217 1 33. 381 1 33. 545 1 33. 708 1 33. 872 1 34. 036 1 34. 200	1 43, 047 1 43, 210 1 43, 374 1 43, 538 1 43, 702 1 43, 866 1 44, 029	1 52, 876 1 53, 040 1 53, 204 1 53, 368 1 53, 531 1 53, 695 1 53, 859	2 2.706 2 2.869 2 3.033 2 3.197 2 3.361 2 3.525 2 3,689	2 12, 535 2 12, 699 2 12, 863 2 13, 027 2 13, 191 2 13, 354 2 13, 518	2 22, 365 2 22, 529 2 22, 692 2 22, 856 2 23, 020 2 23, 184 2 23, 348	2 32, 194 2 32, 358 2 32, 522 2 32, 686 2 32, 850 2 33, 013 2 33, 177	29 .079 30 .082 31 .085 32 .087 33 .090 34 .093 35 .096			
36 37 38 39 40 41 42	1 24, 534 1 24, 698 1 24, 862 1 25, 026 1 25, 190 1 25, 353 1 25, 517	1 34. 364 1 34. 528 1 34. 691 1 34. 855 1 35. 019 1 35. 183 1 35. 347	1 44, 193 1 44, 357 1 44, 521 1 44, 685 1 44, 849 1 45, 012 1 45, 176	1 54, 023 1 54, 187 1 54, 351 1 54, 514 1 54, 678 1 54, 842 1 55, 006	2 3. 852 2 4. 016 2 4. 180 2 4. 344 2 4. 508 2 4. 672 2 4. 835	2 13, 682 2 13, 846 2 14, 010 2 14, 173 2 14, 337 2 14, 501 2 14, 665	2 23, 512 2 23, 675 2 23, 839 2 24, 003 2 24, 167 2 24, 331	2 33, 341 2 33, 505 2 33, 669 2 33, 833 2 33, 996 2 34, 160	$\begin{array}{ccc} 36 & .098 \\ 37 & .101 \\ 38 & .104 \\ 39 & .106 \\ 40 & .109 \\ 41 & .112 \\ \end{array}$			
43 44 45 46 47 48 49	1 25, 517 1 25, 681 1 25, 845 1 26, 009 1 26, 172 1 26, 336 1 26, 500 1 26, 664	1 35, 511 1 35, 674 1 35, 674 1 36, 838 1 36, 166 1 36, 330 1 36, 493	1 45, 340 1 45, 340 1 45, 504 1 45, 668 1 45, 832 1 45, 995 1 46, 159 1 46, 323	1 55, 170 1 55, 170 1 55, 333 1 55, 497 1 55, 661 1 55, 825 1 55, 989 1 56, 153	2 4, 855 2 4, 999 2 5, 163 2 5, 327 2 5, 491 2 5, 655 2 5, 818 2 5, 982	2 14, 665 2 14, 829 2 14, 993 2 15, 156 2 15, 320 2 15, 484 2 15, 648 2 15, 812	2 24, 658 2 24, 822 2 24, 986 2 25, 150 2 25, 314 2 25, 477	2 34, 488 2 34, 652 2 34, 816 2 34, 979 2 35, 143 2 35, 307	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
50 51 52 53 54 55 56	1 26, 664 1 26, 828 1 26, 992 1 27, 156 1 27, 319 1 27, 483 1 27, 647 1 27, 811	1 36, 495 1 36, 657 1 36, 821 1 36, 985 1 37, 149 1 37, 313 1 37, 476 1 37, 640	1 46, 525 1 46, 487 1 46, 651 1 46, 815 1 46, 978 1 47, 142 1 47, 306 1 47, 470	1 56, 153 1 56, 316 1 56, 480 1 56, 644 1 56, 808 1 56, 972 1 57, 136 1 57, 299	2 6, 982 2 6, 146 2 6, 310 2 6, 474 2 6, 637 2 6, 801 2 6, 965 2 7, 129	2 15, 976 2 16, 139 2 16, 303 2 16, 467 2 16, 631 2 16, 795 2 16, 959	2 25, 641 2 25, 805 2 25, 969 2 26, 133 2 26, 297 2 26, 460 2 26, 624 2 26, 788	2 35, 471 2 35, 635 2 35, 798 2 35, 962 2 36, 126 2 36, 290 2 36, 454 2 36, 618	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
57 58 59	1 27, 975 1 28, 138 1 28, 302	1 37, 804 1 37, 968 1 38, 132	1 47, 634 1 47, 797 1 47, 961	1 57, 463 1 57, 627 1 57, 791	2 7. 293 2 7. 457 2 7. 620	2 17, 122 2 17, 286 2 17, 450	2 26, 952 2 27, 116 2 27, 280	2 36, 781 2 36, 945 2 37, 109	57 . 156 58 . 158 59 0, 161			

TABLE S.

#### Sidereal into Mean Solar Time.

real.	'To be subtracted from a sidereal time interval.											
Side	164	175	15h	199	20%	21	525	235	For seconds			
muaphs   m 0 1 2 3 4   5 6 7 8 9   12 1 2 2 4   5 6 7 8 9   12 1 2 2 4   5 6 7 8 9   12 1 2 2 4   5 6 7 8 9   12 2 2 4   5 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 4   15 6 7 8 9   12 2 2 2 4   15 6 7 8 9   12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 37, 273 2 37, 437 2 37, 437 2 37, 764 2 37, 764 2 37, 768 2 38, 962 2 38, 584 2 38, 584 2 38, 584 2 38, 584 2 38, 584 2 38, 584 2 39, 675 2 39, 675 2 39, 675 2 40, 589 2 40, 577 2 41, 589 2 42, 585 2 42,	2 47, 102 2 47, 102 2 47, 430 2 47, 594 2 47, 594 2 48, 985 2 48, 985 2 48, 747 2 48, 741 2 48, 741 2 48, 741 2 48, 550 2 49, 550 2 49, 550 2 50, 551 2 50, 577 2 51, 596 2 51, 596 2 51, 596 2 51, 596 2 51, 596 2 52, 517 2 52, 517	184 2 56, 932 2 57, 096 2 57, 290 2 57, 290 2 57, 557 2 58, 210 2 58, 210 2 58, 210 2 58, 210 2 58, 210 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 58, 570 2 59, 570 3 0, 045 3 0, 045 3 0, 046 3 1, 028 3 0, 536 3 0, 700 3 0, 864 3 1, 192 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 559 3 1, 550 3 1, 550 3 1, 550 3 2, 502 5 2, 502 5 2, 502 6 2, 500 6 2, 500	m.	208  31 16, 591  31 16, 591  31 16, 755  31 17, 083  31 17, 216  31 17, 216  31 17, 574  31 17, 574  31 17, 574  31 18, 393  31 18, 393  31 18, 393  31 18, 393  31 18, 571  31 18, 885  31 19, 212  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  31 19, 376  3	21 28 26 421 3 26 555 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	225 78. 4 3 36, 250 3 36, 414 3 36, 742 3 36, 906 3 37, 903 3 37, 907 3 37, 561 3 37, 233 3 37, 237 3 37, 561 3 37, 255 3 38, 162 3 38, 162 3 38, 162 3 38, 162 3 38, 163 3 40, 182 3 40, 182 3 41, 163 3 41, 163	3 46,080 3 46,241 3 46,571 3 46,571 3 46,571 3 47,080 3 47,227 3 47,280 3 47,580 3 47,580 3 47,580 3 47,580 3 48,537 3 50,683 3 50,683 3 50,683 3 50,683 3 50,683 3 50,683 3 50,683 3 51,588 3 51,588 3 51,588 3 51,588	1 0.003 2 .005 3 .008 4 .011 5 .014 6 .016 7 .019 8 .022 10 .027 11 .030 12 .033 13 .035 14 .038 15 .041 14 .038 15 .041 17 .046 18 .049 18 .049 20 .055 20 .055 21 .057 22 .060 23 .063 23 .063 25 .068 26 .071 27 .074 28 .074 29 .073 30 .082 31 .083			
34 35	2 45, 007 2 45, 171 2 45, 171 2 45, 398 2 18, 339 2 18, 526 2 18, 526 2 14, 180 2 14, 181 2 14, 481 2 14, 481 2 14, 482 2 14, 528 2 44, 928 2 15, 500 2 15, 500 2 16, 100 2 16,	2, 52, 836	3 2,666	3-12, 496	3 22, 325	3, 32, 155	3 41,984	3.51,814	35 , 096			

Mean Solar into Sidereal Time.

i l					To be added	l to a mean ti	me interval.				
Mean.		<b>0</b> h	15	2h	3h	<b>4</b> h	<b>5</b> b	6և	7h	For	seconds.
							-				
$0^{m}$	0	s, 0.000	m. s. 0 9, 856	m. s. 0 19.713	m. s. 0 29, 569	m, s, 0 39, 426	$0^{m, s.}$ 0 49. 282	m. s. 0 59.139	m. s. 1 8,995	8.	8.
1	0	0.164	0 10.021	0 19.877	0 29.734	0 39,590	0 49, 447	0 59, 303	1 9.160	1	0.003
3	0	0.329 0.493	0 10.185	0 20.041 0 20.206	0 29, 898 0 30, 062	0 39.754	0 49.611 0 49.775	0 59,467 0 59,632	1 9.324 1 9.488	3	. 005 . 008
4	ő	0. 657	0 10.514	0 20.370	0 30.002	0 40.083	0 49.775	0 59.796	1 9.652	4	.011
5	0	0.821	0 10,678	0.20,534	0 30.391	0 40.247	0 50.104	0 59.960	1 9.817	5	. 014
6 7	0	0.986 $1.150$	0 10.842	0 20,699	0 30.555	0 40, 412	0 50, 268	1 0.124	1 9.981	6.7	. 016
8	0	1. 314	0 11.006	0 20.863	0 30.719	0 40.576	0 50.432	1 0.289	1 10.145	ŝ	.022
9	ŏ	1.478	0 11, 335	0 21.191	0 31,048	0 40.904	0 50.761	1 0.617	1 10.474	9	.025
10	0	1.643	0 11.499	0 21.356	0 31. 212	0 41.069	0 50.925	1 0.782	1 10.638	10	.027
$\frac{11}{12}$	0	1.807 1.971	0 11.663 0 11.828	0 21.520 0 21.684	0 31.376 0 31.541	0 41.233 0 41.397	0 51.089	1 0.946	1 10.802	$\frac{11}{12}$	.030
13	ŏ	2.136	011.992	0 21.849	0 31.705	0 41.561	0 51.418	1 1.274	1 11.131	13	.036
14	0	2.300	0 12.156	0 22.013	0 31.869	0 41.726	0 51.582	1 1.439	1 11. 295	14	.038
15 16	0	$\frac{2.464}{2.628}$	0 12.321 0 12.485	0 22.177 0 22.341	0 32.034	0 41.890 0 42.054	0 51.746	1 1.603 1 1.767	1 11.459 1 11.624	15 16	.041
17	0	2.793	0 12.649	0.22,506	0 32.362	0 42.219	0 52,075	1 1.932	1 11.788	17	.047
18	0	2.957	0 12.813	0 22.670	0 32.526	0 42.383	0 52, 239	1 2.096	1 11.952	18	.049
19 20	$\frac{0}{v}$	3, 121	0 12.978	0 22.834	$\frac{0}{0} \frac{32.691}{32.855}$	0 42.547	0 52.404	1 2.260	$\frac{1}{1}$ 12. 117 $\frac{1}{1}$ 12. 281	$\frac{19}{20}$	.052
21	0	3.450	0 13, 306	0 23. 163	0 33, 019	0 42.876	0 52.732	1 2.589	1 12.445	21	.057
22	0	3.614	0 13.471	0 23, 327	0 33.183	0 43.040	0 52.896	1 2,753	1 12.609	22	.060
$\frac{23}{24}$	0	3.778 $3.943$	0 13.635	0 23, 491 0 23, 656	0 33.348	0 43.204	0 53, 061 0 53, 225	1 2.917 1 3.081	1 12.774 1 12.938	$\frac{23}{24}$	. 063
25	0	4. 107	0 13.963	0 23, 820	0 33.676	0 43, 533	0 53, 389	1 3, 246	1 13, 102	$\frac{25}{25}$	. 068
26	0	4.271	0 14.128	0 23, 984	0 33,841	0 43,697	0 53.554	1 3.410	1 13. 266	26	.071
27 28	0	4. 435 4. 600	0 14, 292 0 14, 456	0 24, 148	0 34.005 0 34.169	0 43, 861 0 44, 026	0 53.718	1 3.574	1 13, 431 1 13, 595	27 28	.074
29	ő	4.764	0 14. 620	0 24. 477	0 34. 333	0 44. 190	0 54.046	1 3.903	1 13.759	29	.079
30	0	4.928	0 14.785	0 24, 641	0.34,498	0 44.354	0 54.211	1 4.067	1 13.924	30	. 082
$\frac{31}{32}$	0	5. 093 5. 257	0 14.949 0 15.113	0 24.805 0 24.970	0 34.662	0 44.518 0 44.683	0 54, 375	1 4.231 1 4.396	1 14.088 1 14.252	31 32	. 085
33	0	5. 421	0 15, 113	0 24. 970	0 34. 990	0 44.847	0 54. 703	1 4.560	1 14. 416	33	.090
34	0	5,585	0 15, 442	0 25, 298	0 35, 155	0 45, 011	0.54,868	1 4,724	1.14.581	34	. 093
35 36	0	5, 750 5, 914	0 15.606 0 15.770	0 25, 463 0 25, 627	0 35, 319 0 35, 483	0 45, 176 0 45, 340	0 55, 032	1 4.888 1 5.053	1 14.745 1 14.909	35 36	. 096
37	0	6.078	0 15.770	0 25, 627	0 35, 483	0 45.504	0 55, 361	1 5. 217	1 15.073	37	. 101
38	0	6.242	0 16.099	0 25.955	0 35.812	0 45.668	0 55, 525	1 5.381	1 15, 238	38	. 104
39	0	6.407	0 16. 263	0 26, 120 0 26, 284	$\frac{0}{0} \frac{35,976}{36,140}$	0 45, 833	0 55, 689	$\frac{1}{1}$ 5.546	1 15, 402 1 15, 566	39 40	.107
$\frac{40}{41}$	0	6, 735	0 16, 427	0 26, 284 0 26, 448	0 36.140	0 45.997	0 55, 853 0 56, 018	1 5.710	1 15, 731	41	,110
42	0	6.900	0.16.756	0.26.612	0 36.469	0 46, 325	0 56, 182	1 6.038	1 15, 895	42	. 115
43 44	0	7.064 $7.228$	0 16.920	0 26.777 0 26.941	0 36.633	0 46.490 0 46.654	0 56, 346 0 56, 510	1 6.203 1 6.367	1 16.059 1 16.223	43 44	.118
45	0	7. 392	0 17. 033	0 27. 105	0 36. 962	0 46, 818	0 56, 675	1 6.531	1 16, 388	45	. 123
46	0	7.557	0 17.413	0 27, 270	0 37. 126	0 46.983	0 56, 839	1 6,695	1 16.552	46	. 126
47 48	0	7. 721 7. 885	0 17.577 0 17.742	0 27, 434	0 37, 290 0 37, 455	0 47. 147	0 57, 003 0 57, 168	1 6.860 1 7.024	1 16.716 1 16.881	47 48	. 129
49	0	8, 049	0 17.742	0 27.598	0 37.455	0 47.311	0 57.168	1 7.188	1 17. 045	49	. 134
50	0	8, 214	0.18,070	0 27.927	0 37.783	0 47.640	0 57, 496	1 7.353	1 17. 209	50	. 137
51	0	8, 378	0 18, 234	0 28,091	0 37.947	0 47. 804	0 57.660	1 7.517	1 17.373 1 17.538	51 52	. 140
52 53	0	8, 542 8, 707	0 18, 399 0 18, 563	0 28, 255 0 28, 420	0 38, 112 0 38, 276	0 47.968 0 48.132	0 57.825 0 57.989	1 7.681	1 17.538 1 17.702	53 53	. 142
54	ŏ	8, 871	0 18, 727	0.28,584	0 38, 440	0 48, 297	0 58, 153	1 8.010	1 17, 866	54	. 148
55	0	9, 035	0 18, 892	0 28, 748	0 38, 605	0 48, 461	0 58, 317	1 8.174	1 18, 030	55	. 151
56 57	0	9. 199 9. 364	0 19.058 0 19.220	0 28, 912 0 29, 077	0 38.769 0 38.933	0 48, 625	0 58, 482	1 8.338 1 8.502	1 18, 195 1 18, 359	56 57	. 153
58	0	9.528	0.19.384	0 29, 241	0 39.097	0.48.954	0 58, 810	1 8.667	1 18, 523	58	. 159
59	0	9.692	0 19.549	0 29.405	0 39, 262	0 49, 118	0 58, 975	1 8.831	1 18,688	59	0.162
					-	-				<u>'</u>	

### TABLE 9.

#### Mean Solar into Sidereal Time.

1 1 2 1 3 1 4 1 5 1	8 ^k 1. 8, 852 1. 19, 016 1. 19, 180 1. 19, 345	95 m. \$ 1.28,708	10	(1)	125	1	1	-	
0 1 1 1 2 1 3 1 4 1 5 1	1 18, 852 1 19, 016 1 19, 180	1.28,708				184	145	15%	For seconds.
2 1 3 1 4 1 5 1	1 19, 180		m. s. 1 38,565	m. s. 1 48, 421	m. s. 1 58, 278	m. s. 2 8.134	m. s. 2 17, 991	m. s. 2 27, 847	£ .
4 1 5 1		1 28, 873 1 29, 037	1 38, 729 1 38, 893	1 48, 585 1 48, 750	1 58,442 1 58,606	2 8, 298 2 8, 463	2 18, 155 2 18, 319	2 28.011 2 28.176	1 0,003
	19.509	1 29, 201 1 29, 365	1 39, 058 1 39, 222	1 48, 914 1 49, 078	1 58,771 1 58,935	2 8, 627 2 8, 791	2 18, 483 2 18, 648	2 28, 340 2 28, 504	3 .008 4 .011
	19, 673 19, 837	1 29, 530 1 29, 694	1 39, 386 1 39, 550	1 49, 243 1 49, 407	1 59, 099 1 59, 263	2 8,956 2 9,120	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 28, 668 2 28, 833	5 .014 6 .016
8 1		1 29, 858 1 30, 022	1 39, 715 1 39, 879	1 49,571 1 49,735	1 59,428 1 59,592	2 9.284 2 9.448	2 19, 141 2 19, 305	2 28, 997 2 29, 161	7 .019 8 .022
10 1	20, 330	$\frac{1 \ 30.187}{1 \ 30.351}$	1 40,043	1 49, 900 1 50, 064	1 59,756 1 59,920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 19, 469 2 19, 633	2 29, 326	$ \begin{array}{c c} 9 & .025 \\ \hline 10 & .027 \end{array} $
	20, 659 20, 823	1 30, 515 1 30, 680	1 40,372 1 40,536	1 50, 228 1 50, 393	$\begin{bmatrix} 2 & 0.085 \\ 2 & 0.249 \end{bmatrix}$	2 9,941 2 10,105	2 19, 798 2 19, 962	2 29, 654 2 29, 818	11 .030 12 .033
	20, 987 21, 152	1 30.844 1 31.008	1 40,700 1 40,865	1 50,557 1 50,721	$\begin{bmatrix} 2 & 0.413 \\ 2 & 0.578 \end{bmatrix}$	2 10, 270 2 10, 434	2 20, 126 2 20, 290	2 29, 983 2 30, 147	13 .036 14 .038
	21.316 21.480	$\begin{array}{cccc} 1 & 31.172 \\ 1 & 31.337 \end{array}$	1 41, 029 1 41, 193	1 50, 885 1 51, 050	2 0.742 2 0.906	2 10,598 2 10,763	2 20, 455 2 20, 619	2 30, 311 2 30, 476	15 . 041 16 . 044
	21. 644 21. 809	1 31, 501 1 31, 665	1 41.357 1 41.522	1 51, 214 1 51, 378	2 1,070 2 1,235	2 10, 927 2 11, 091	2 20,783 2 20,948	2 30, 640 2 30, 804	17 .047 18 .049
	21, 973	1 31.829 1 31.994	$\frac{1}{1} \frac{41.686}{41.850}$	1 51, 542	$\frac{2}{2} = \frac{1.399}{1.563}$	2 11, 255	2 21.112	2 30, 968	$\frac{19}{20}$ $\frac{.052}{.055}$
21 1	22, 302 22, 466	1 32, 158 1 32, 322	1 42, 015 1 42, 179	1 51, 571 1 52, 035	2 1.727 2 1.892	2 11,584	2 21, 440 2 21, 605	2 31, 297 2 31, 461	21 .057 22 .060
	22, 630 22, 794	1 32, 487 1 32, 651	1 42, 343 1 42, 507	1 52, 200 1 52, 364	2 2, 056 2 2, 220	2 11, 912 2 12, 077	2 21, 769 2 21, 933	2 31, 625 2 31, 790	23 . 063 24 . 066
$\overline{2}5 - 1$	22, 959 23, 123	1 32, 815 1 32, 979	1 42, 672 1 42, 836	1 52,528 1 52,692	2 2,385 2 2,549	2 12, 241 2 12, 405	2 22, 098 2 22, 262	2 31, 954 2 32, 118	$ \begin{array}{c c} 25 & .068 \\ 26 & .071 \end{array} $
27 1	1 23, 287 1 23, 451	1 33, 144 1 33, 308	1 43,000 1 43,164	1 52,857 1 53,021	$\begin{array}{cccc} 2 & 2.713 \\ 2 & 2.877 \end{array}$	2 12,570 2 12,734	2 22, 426 2 22, 590	2 32, 283 2 32, 447	27 .074 28 .077
29 1	1 23, 616 1 23, 780	1 33, 472 1 33, 637	1 43, 329	1 53, 185	$\frac{1}{2}$ $\frac{2}{3}$ $\frac{3.042}{3.206}$	2 12, 898 2 13, 062	2 22, 755	2 32, 611	$\begin{array}{c c} 29 & .079 \\ \hline 30 & .082 \end{array}$
31 1	1 23, 944 24, 109	1 33, 801 1 33, 965	1 43, 657 1 43, 822	1 53, 514 1 53, 678	2 3,370 2 3,534	2 13, 227 2 13, 391	2 23, 083 2 23, 247	2 32, 940 2 33, 104	31 .085 32 .088
33 1		1 34, 129 1 34, 294	1 43, 986 1 44, 150	1 53, 842 1 54, 007	2 3,699 2 3,863	2 13, 555 2 13, 720	2 23, 412 2 23, 576	2 33, 268 2 33, 432	33 , 090 34 , 093
35 1	1 24, 60T 1 24, 766	1 34, 458 1 34, 622	1 44, 314 1 41, 479	1 54, 171 1 54, 335	$\begin{bmatrix} 2 & 4.027 \\ 2 & 4.192 \end{bmatrix}$	2 13, 884 2 14, 048	2 23, 740 2 23, 905	2 33, 597 2 33, 761	35 . 096 36 . 099
37 1	24, 930 1-25, 094	1 34, 786 1 34, 951	1 44, 643 1 44, 807	1 54, 499 1 54, 664	2 4,356 2 4,520	2 14, 212 2 14, 377	2 24, 069 2 24, 233	9 33,925 9 34,669	37 . 101 18 . 104
39   1 40   1	1 25, 259	1 35, 115 1 35, 279	1 44, 971 1 45, 136	1 54, 828 1 54, 992	2 4, 684 2 4, 849	2 14, 541 2 14, 705	2 24, 397	2 34, 254	$\begin{vmatrix} 39 &107 \\ 40 &110 \end{vmatrix}$
41   1 12   1	1 25, 587	1 35,441 1 35,608	1 45,300	1 55, 156 1 1 55, 321	2 5.013 2 5.177	2 14, 869 2 15, 034	2 24, 726 2 24, 890	2 84, 582 2 84, 747	41 .112 42 .115
13 1		1 35,772 1 35,936	1 45, 629 1 45, 793	1 55, 485 1 55, 649	2 5, 542 2 5, 506	2 15, 198 2 15, 362	2 25, 054 2 25, 219	2 34, 911 2 35, 675	43 .118 44 .120
5   1  46   1	1 26, 244	1 36, 101 1 36, 265	1 45, 957 1 46, 121	1 55, 814 1 55, 978	2 5,670 2 5,834	2 15,327 2 15,691	2 25, 383° 2 25, 547	2 85, 239 2 85, 404	45 . 123 46 . 126
47 1 48 1	1 26, 573	1 36, 429 1 36, 593	1 46, 286	1 56, 142	2 5,499 2 6 163	2 15, 855 2 16, 019	2 25, 712 2 25, 876	9 35,568 9 35,756	47 . 129 48 . 131
49 1	1 26 901 1 27, 066	1,36,758	1 16, 614	1.56.471	2 6 327	2 16, 184 2 16, 348	2 26, 040	1 2 36, 06	49 - 104 50 - 137
51 1 52 1	1 27, 230	1 87, 086 1 87, 251	1 46,913 1 47,107	1 56, 799 1 56, 964	2 6,656 2 6,820	2 46,512 2 46,676	2 26, 369 2 26, 533	2 36, 225 2 36, 385	51 .140 52 .112
58 1	1 27, 558 1 27, 723	1 37, 415 1 37, 579	1 47, 271 1 47, 436	1 57, 128 1 57, 292	2 6 984 2 7,149	2 16, 841 2 17, 005	2 26, 697 2 26, 861	2 36, 554 2 36, 718	53 .145 54 .148
55	1 27, 887 1 28 051	1 37, 743 1 37, 908	1 47, 600 1 17, 764	1 57, 456 1 57, 621	2 7, 313 2 7, 477	2 17, 169 2 17, 334	2 27, 026 2 27, 190	2 36, 882 2 37, 047	55 . 151 56 . 153
57 1	E 28 215 E 28 380	1 38 672 1 38, 236	1 47, 928 1 48 193	1 57, 785 1 57, 949	2 7.611 2 7.806	2 17, 498 2 17, 662	9 27, 354 2 27, 519	2 37, 211 2 37, 375	57 . 156 58 . 159
	1 28, 541	1 08 400	1 48, 257	1 58, 113	2 7,970	2 17, 826	E E71683	2 37,539	59 0, 162

### TABLE 9.

Mean Solar into Sidereal time.

				To be adde	d to a mean t	ime interval.			
Mean	16h	175	184	195	204	21h	224	23h	For seconds
m. 0 1 2 3 4	m. s. 2 37, 704 2 37, 868 2 38, 032 2 38, 196 2 38, 361	m. s. 2 47, 560 2 47, 724 2 47, 889 2 48, 053 2 48, 217	m, s, 2 57, 417 2 57, 581 2 57, 745 2 57, 909 2 58, 074	m. s. 3 7.273 3 7.437 3 7.602 3 7.766 3 7.930	m. s. 3 17, 129 3 17, 294 3 17, 458 3 17, 622 3 17, 787	m. s. 3 26, 986 3 27, 150 3 27, 315 3 27, 479 3 27, 643	m. s. 3 36, 842 3 37, 007 3 37, 171 3 37, 335 3 37, 500	m. s. 3 46, 699 3 46, 863 3 47, 027 3 47, 192 3 47, 356	\$. 1 0.003 2 0.005 3 0.008 4 011
5 6 7 8 9	2 38, 525 2 38, 689 2 38, 854 2 39, 018 2 39, 182 2 39, 346	2 48, 381 2 48, 546 2 48, 710 2 48, 874 2 49, 039 2 49, 203	2 58, 238 2 58, 402 2 58, 566 2 58, 731 2 58, 895 2 59, 059	3 8.094 3 8.259 3 8.423 3 8.587 3 8.751 3 8.916	3 17, 951 3 18, 115 3 18, 279 3 18, 444 3 18, 608 3 18, 772	3 27. 807 3 27. 972 3 28. 136 3 28. 300 3 28. 464 3 28. 629	3 37, 664 3 37, 828 3 37, 992 3 38, 157 3 38, 321 3 38, 485	3 47, 520 3 47, 685 3 47, 849 3 48, 013 3 48, 177 3 48, 342	5 .014 6 .016 7 .019 8 .022 9 .025 10 .027
11 12 13 14 15 16	2 39, 511 2 39, 675 2 39, 839 2 40, 003 2 40, 168 2 40, 332	2 49. 367 2 49. 531 2 49. 696 2 49. 860 2 50. 024 2 50. 188	2 59. 224 2 59. 388 2 59. 552 2 59. 716 2 59. 881 3 0.045	3 9.080 3 9.244 3 9.409 3 9.573 3 9.737 3 9.901	3 18. 937 3 19. 101 3 19. 265 3 19. 429 3 19. 594 3 19. 758	3 28. 793 3 28. 957 3 29. 122 3 29. 286 3 29. 450 3 29. 614	3 38, 649 3 38, 814 3 38, 978 3 39, 142 3 39, 307 3 39, 471	3 48, 506 3 48, 670 3 48, 834 3 48, 999 3 49, 163 3 49, 327	$\begin{array}{cccc} 11 & .030 \\ 12 & .033 \\ 13 & .036 \\ 14 & .038 \\ \hline 15 & .041 \\ 16 & .044 \\ \end{array}$
17 18 19 20 21 22	2 40, 496 2 40, 661 2 40, 825 2 40, 989 2 41, 153 2 41, 318	2 50, 353 2 50, 517 2 50, 681 2 50, 846 2 51, 010 2 51, 174 2 51, 338	3 0. 209 3 0. 373 3 0. 538 3 0. 702 3 0. 866 3 1. 031	3 10,066 3 10,230 3 10,394 3 10,559 3 10,723 3 10,887	3 19, 922 3 20, 086 3 20, 251 3 20, 415 3 20, 579 3 20, 744	3 29,779 3 29,943 3 30,107 3 30,271 3 30,436 3 30,600	3 39, 635 3 39, 799 3 39, 964 3 40, 128 3 40, 292 3 40, 456	3 49, 492 3 49, 656 3 49, 820 3 49, 984 3 50, 149 3 50, 313	17 .047 18 .049 19 .052 20 .055 21 .057 22 .060
23 24 25 26 27 28 29	2 41. 482 2 41. 646 2 41. 810 2 41. 975 2 42. 139 2 42. 303 2 42. 468	2 51. 338 2 51. 503 2 51. 667 2 51. 831 2 51. 995 2 52. 160 2 52. 324	3 1.195 3 1.359 3 1.523 3 1.688 3 1.852 3 2.016 3 2.181	3 11, 051 3 11, 216 3 11, 380 3 11, 544 3 11, 708 3 11, 873 3 12, 037	3 20, 908 3 21, 072 3 21, 236 3 21, 401 3 21, 565 3 21, 729 3 21, 893	3 30, 764 3 30, 929 3 31, 093 3 31, 257 3 31, 421 3 31, 586 3 31, 750	3 40, 621 3 40, 785 3 40, 949 3 41, 114 3 41, 278 3 41, 442 3 41, 606	3 50, 477 3 50, 642 3 50, 806 3 50, 970 3 51, 134 3 51, 299 3 51, 463	23 . 063 24 . 066 25 . 068 26 . 071 27 . 074 28 . 077 29 . 079
30 31 32 33 34 35	2 42. 632 2 42. 796 2 42. 960 2 43. 125 2 43. 289 2 43, 453	2 52, 488 2 52, 653 2 52, 817 2 52, 981 2 53, 145 2 53, 310	3 2, 345 3 2, 509 3 2, 673 3 2, 838 3 3, 002 3 3, 166	3 12, 201 3 12, 366 3 12, 530 3 12, 694 3 12, 858 3 13, 023	3 22, 058 3 22, 222 3 22, 386 3 22, 551 3 22, 715 3 22, 879	3 31, 914 3 32, 078 3 32, 243 3 32, 407 3 32, 571 3 32, 736	3 41.77I 3 41.935 3 42.099 3 42.264 3 42.428 3 42.592	3 51, 627 3 51, 791 3 51, 956 3 52, 120 3 52, 284 3 52, 449	30 .082 31 .085 32 .088 33 .090 34 .093 35 .096
36 37 38 39 40 41	2 43, 617 2 43, 782 2 43, 946 2 44, 110 2 44, 275 2 44, 439	2 53, 474 2 53, 638 2 53, 803 2 53, 967 2 54, 131 2 54, 295	3 3.330 3 3.495 3 3.659 3 3.823 3 3.988 3 4.152	3 13. 187 3 13. 351 3 13. 515 3 13. 680 3 13. 844 3 14. 008	3 23, 043 3 23, 208 3 23, 372 3 23, 536 3 23, 700 3 23, 865	3 32, 900 3 33, 064 3 33, 228 3 33, 393 3 33, 557 3 33, 721	3 42,756 3 42,921 3 43,085 3 43,249 3 43,413 3 43,578	3 52,613 3 52,777 3 52,941 3 53,106 3 53,270 3 53,434	36 .099 37 .101 38 .104 39 .107 40 .110 41 .112
42 43 44 45 46 47	2 44, 603 2 44, 767 2 44, 932 2 45, 096 2 45, 260 2 45, 425	2 54, 460 2 54, 624 2 54, 788 2 54, 952 2 55, 117 2 55, 281	3 4.316 3 4.480 3 4.645 3 4.809 3 4.973 3 5.137	3 14, 173 3 14, 337 3 14, 501 3 14, 665 3 14, 830 3 14, 994	3 24, 029 3 24, 193 3 24, 358 3 24, 522 3 24, 686 3 24, 850	3 33, 886 3 34, 050 3 34, 214 3 34, 378 3 34, 543 3 34, 707	3 43, 742 3 43, 906 3 44, 071 3 44, 235 3 44, 399 3 44, 563	3 53, 598 3 53, 763 3 53, 927 3 54, 091 3 54, 256 3 54, 420	$\begin{array}{cccc} 42 & .115 \\ 43 & .118 \\ 44 & .120 \\ \hline 45 & .123 \\ 46 & .126 \\ 47 & .129 \\ \end{array}$
48 49 50 51 52 53	2 45, 589 2 45, 753 2 45, 917 2 46, 082 2 46, 246 2 46, 410 2 46, 574	2 55, 445 2 55, 610 2 55, 774 2 55, 938 2 56, 102 2 56, 267 2 56, 431	3 5, 302 3 5, 466 3 5, 630 3 5, 795 3 5, 959 3 6, 123 3 6, 287	3 15, 158 3 15, 322 3 15, 487 3 15, 651 3 15, 815 3 15, 980 3 16, 144	3 25, 015 3 25, 179 3 25, 343 3 25, 508 3 25, 672 3 25, 836	3 34, 871 3 35, 035 3 35, 200 3 35, 364 3 35, 528 3 35, 693 3 35, 857	3 44, 728 3 44, 892 3 45, 056 3 45, 220 3 45, 385 3 45, 549 3 45, 713	3 54, 584 3 54, 748 3 54, 913 3 55, 077 3 55, 241 3 55, 405 3 55, 570	$ \begin{array}{c cccc} 48 & .131 \\ 49 & .134 \\ \hline 50 & .137 \\ 51 & .140 \\ 52 & .142 \\ \hline 53 & .145 \\ \end{array} $
54 55 56 57 58 59	2 46, 574 2 46, 739 2 46, 903 2 47, 067 2 47, 232 2 47, 396	2 56, 451 2 56, 595 2 56, 759 2 56, 924 2 57, 088 2 57, 252	3 6, 287 3 6, 452 3 6, 616 3 6, 780 3 6, 944 3 7, 109	3 16, 144 3 16, 308 3 16, 472 3 16, 637 3 16, 801 3 16, 965	3 26, 000 3 26, 165 3 26, 329 3 26, 493 3 26, 657 3 26, 822	3 36, 857 3 36, 185 3 36, 350 3 36, 514 3 36, 678	3 45, 715 3 45, 878 3 46, 042 3 46, 206 3 46, 370 3 46, 535	3 55, 734 3 55, 734 3 55, 898 3 56, 063 3 56, 227 3 56, 391	$\begin{bmatrix} 54 & .148 \\ 55 & .151 \\ 56_1 & .153 \\ 57 & .156 \\ 58 & .159 \\ 59 & 0.162 \end{bmatrix}$

TABLE 10.

	Lat.		, > - 0 % - 9 > 0 x 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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TABLE 10.

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South latitude: 21° to 40°—March 21 to June 22.

South Latitude: 41° to 60°—March 21 to June 22.

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South Latitude: 0° to 20°,—June 22 to September 23,

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	proz		೨ ಎಂ ವಿನಜನದ ನಡೆಸುದ್ದರು ಮನೆಗೆ ನಡೆಸುದ್ದರು ಮನೆಸುವ ನಡೆಸುದ್ದರು ಮನೆಸುವ ನಡೆಸುವ ನಡೆಸುವ ನಡೆಸುವ ನಡೆಸುವ ನಡೆಸುವ ನಡೆಸುವ ನಡೆಸ	3
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South Latitude: 21° to  $40^{\circ} - \mathrm{December}$  22 to March 21.

TABLE 10.

	Ā.		9 5 8 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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	2	Ç.,	ස්ප්රත්වර්ත්වර් විට විට විතිස් සිතිව සිත්ව ස දීම් මෙම මෙම මෙම මෙම මෙම සිත්ව ස
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F	7	5.0	ස්විතියින් සිත්සින් සිත්සින් සිත්සින් සිත්ස් විතිය br>සිත්සින් සිත්සින් සි
	9	3	ස්විත්ත්වය සම්බන්ධ සම සම්බන්ධ සම් සම්බන්ධ සම්බන්ධ සම් සම්බන්ධ සම්බන්ධ සම්බන්ධ සම්බන්ධ සම් සම්බන්ධ සම්බන්ධ සම්බන්ධ සම්
	33	2-	ස්වුස්ත්ව රුතු වැන්ව දින්ව දින්ව දින්ව සහ සහ වෙන
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Mean Time of Sun's Visible Rising and Setting.

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ocal n		65	°81	m 4	2 57	36	2708	33	2 T S	00 4 84 4 87	33	4.4	44	4.7 89.4 8.4	38.5	4.82				× 4 ×							
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# Page 672]

## TABLE 11.

For reducing the Time of the Moon's passage over the Meridian of Greenwich to the Time of its passage over any other Meridian. The numbers taken from this Table are to be added to the Time at Greenwich in West Longitude, subtracted in East Longitude.

ongi-					Dany v	rariatio	n of the	moon's	passing i	ne meri	dlan.				Long
ude.	40m	42m	44m	46m	450	50 ^m	52m	54∞	56≃	58n	60m	62m	640	66m	tude
٥	m.	m.	m.	778.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m,	٥
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
10	1	1	1	1	1	1	1	1	2	2	2	2	2	2 3	10
15	2	2	2 2	3	3	2	2	2	2 3	2 3	2	3	3		15
20	2	2	2	2		3	3	3			3	3	4	4	20
25	3	3	3	- 3	3	3	4	4	4	4	4	4	4	5	25
30	3	3	4	4	4	4	4	4	5	5	5	5	5	5	30
35	4	4	4	4	5	5	5	5	5	- 6	6	6	6	6	35
40	4	5	5	- 5	5	6	6	6	6	6	7	7	7	7	40
45	5	5	5	6	6	6	6	7	7	7	7	8	8	8	45
50	- 6	6	- 6	6	7	7	7	7	8	8	8	9	9	9	50
55	6	6	7	7	7	8	8	8	9 ;	9	9	9 .	10	10	55
60	7	7	7	- 8	- 8	8	9	9	9 1	10	10 /	10	11	11	60
65	7	- 8	8	8	9	9	9	10	10 .	10	11	11	12	12	65
70	- 8	- 8	9	9	- 9	10	10	10	11	11	12	12	12	13	70
75	8	9	- 9	10	10	10	11	11	12	12	12	13	13	14	75
80	9	9	10	10	11	11	12	12	12	13	13	14	14	15	80
85	9	10	10	11	11	12	12	13	13	14	14	15	15	16	85
90	10	10	11	11	12	12	13	13	14	14	15	15	16	16	90
95	11	11	12	12	13	13	14	14	15	15	16	16	17	17	95
100	11	12	12	13	13	14	14	15	16	16	17	17	18	18	100
105	12	12	13	13	14	15	15	16	16	17	17	18	19	19	105
110	12	13	13	14	15	15	16	16	17	18	18	19	20	20	110
115	13	13	14	15	15	16	17	17	18	19	19	20	20	21	115
120	13	14	15	15	16	17	17	18	19	19	20	21	21	22	120
125	14	15	15	16	17	17	18	19	19	20	21	22	22	23	125
130	14	15	16	17	17	18	19	19	20	21	22	22	23	24	130
135	15	16	16	17	18	19	19	20	21	22	22	23	24	25	135
140	16	16	17	18	19	19	20	21	22	23	23	24	25	26	140
145	16	17	18	19	19	20	21	20	23	23	24	25	26	27	145
150	17	17	18	19	20	21	22	22	23	24	25	26	27	27	150
155	17	18	19	20	21	22	22	23	24	25	26	27	28	28	155
160	18	19	20	20	21	22	23	24	25	26	27	28	28	29	160
165	18	19	20	21	22	23	24	25	26	27	27	28	29	30	165
170	19	20	21	22	23	24	25	25	26	27	28	29	30	31	170
175	19	20	21	22	23	24	25	26	27	28	29	30	31	32	175
180	20	21	22	23	24	25	26	27	28	29	30	31	32	33	180
	40**	420	44=	46m	450	50m	50=	54=	56=	58m	60m	62=	64-	66=	1-

### TABLE 12.

[Page 673

M.	0 1 1 1 2 2 2 2 2 2 3 3 3 4 4 4	0 1 1 1 2 2 2 2 3 3	19" 0 1 1 1 2 2 2 3 3 3	M. 1 2 3 4 5 6 7 8 9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 1 1 1 2 2 2 2 2 2 3 3 3 4 4 4	0 1 1 1 2 2 2 2 3 3	0 1 1 1 2 2 2 3 3 3 3 3	$ \begin{array}{c c}  & 1 \\  & 2 \\  & 3 \\  & 4 \\  & 5 \\  & 6 \\  & 7 \\  & 8 \\  & 9 \end{array} $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 1 2 2 2 2 2 3 3 3 4 4 4	1 1 1 2 2 2 2 2 3 3 3	1 1 1 2 2 2 3 3 3	2 3 4 5 6 7 8 9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 2 2 2 2 2 3 3 3 4 4 4	1 1 2 2 2 2 3 3 3	1 1 2 2 2 3 3 3	5 6 7 8 9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 2 2 3 3 3 4 4 4	2 2 2 3 3 3	2 2 3 3 3	5 6 7 8 9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2 2 3 3 4 4 4	2 2 3 3 3	2 2 3 3 3	6 7 8 9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 3 4 4 4	3 3	3 3	8 9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 3 4 4 4	3 3	3 3	- 9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 4 4 4	3		1 4 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 4		3	$\frac{10}{11}$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4		4	12 13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 !	4	4	14
		5	$\frac{5}{5}$	$\frac{15}{16}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5	5	5	17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	6	6	18 19
			$\frac{6}{7}$	20 21
$-22 \begin{bmatrix} 0 & 1 & 1 & 1 & 2 & 2 & 3 & 3 & 3 & 4 & 4 & 4 & 5 & 5 & 6 & 6 \end{bmatrix}$	7	7	7 7	21 22 23
23   0   1   1   2   2   2   3   3   3   4   4   5   5   5   6   6   6   24   0   1   1   2   2   2   3   3   4   4   4   5   5   6   6   6	7 7	7 7	8	23 24
25 0 1 1 2 2 3 3 3 3 4 4 5 5 5 6 6 7	8	8	8	25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 8		8 9	26 27
28 0 1 1 1 2 2 3 3 3 4 4 4 5 5 6 6 6 7 7 7 7		8	9	28 29
30 1 1 2 2 3 3 3 4 4 5 5 6 6 7 7 8 8 8	9	9	10	30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9		10 10	31 32
32	10	10	10	33
33			11 11	34 35
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			11 12	36 37
36     1     1     2     2     3     4     4     5     5     6     6     7     7     8     8     9     10     10       37     1     1     2     2     3     4     4     5     6     6     7     7     8     8     9     10     10       38     1     1     2     3     3     4     4     5     6     6     7     8     8     9     10     10       10     11     2     3     3     4     4     5     6     6     7     8     8     9     10     10     11	11	11	12	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 12		12 13	39 40
	12	12	13	41
43   1   1   2   3   4   4   5   6   6   7   8   9   9   10   11   11   15	13 13		13 14	42 43
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13 14		14 14	44 45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	14	15	46
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 14		15 15	47 48
49 1 2 2 3 4 5 6 7 7 8 9 10 11 11 12 13 14	15	15	16	49
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15		16	50
	16	16	16	52 53
54 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 14 14	16 16	16	17 17	54
	$-\frac{17}{17}$		$\frac{17}{18}$	55 56
57 1 2 3 4 5 6 7 8 9 10 10 11 12 13 14 15 16	17	17	18	57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17 18		18 19	58 59
$egin{array}{ c c c c c c c c c c c c c c c c c c c$	18		19	60

## Page 674]

#### TABLE 12.

.,								I	Iorary	motion								
М.	20"	21"	22"	23"	21"	25"	26"	27"	257	29"	307	31"	32"	33"	34"	35"	36"	М.
1	0	0	0	0	0	0	0	0	0	O	1	1	1	1	1	1	1	1
2 3	1	1	1 1	1	1	1	1	1	1	1	1 2	1 2	1 2	1 2	1 2	1 2	1 2	2 3
4	1	i	i	2	2	2	2	2	2	2	9	2	2	2	2	2	2	4
_5		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	5_
6 7 7	2 2	2 2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	-6
8	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4 5	4 5	4 5	8
- 9	3	3	3	3	4	4	4	4	i	4	5	5	5	5	5	5	5	9
_10	_3	4	4	4	4	4	4	5_	5	5	_ 5	_ 5	5	- 6	6	- 6	6	10
11 12	4	4	4	4 5	5	5 5	5 5	5 5	5 6	5 6	- 6 - 6	6 6	6 6	15 7	6 7	6 7	7	11 12
13	4	5	5	5	5	5	6	6	6	6	7	7	7	+	7	s s	ś	13
14	5	5	5	5	- 6	- 6	6	6	7	7	- 7	7	7	8	8	S	8	14
$-\frac{15}{16}$	$-\frac{5}{5}$	5_6	6	<u>6</u>	6_	6 7	$-\frac{7}{7}$	$-\frac{7}{7}$	$-\frac{7}{7}$	$-\frac{7}{8}$	S	$-\frac{8}{8}$	$-\frac{8}{9}$	$-\frac{8}{9}$	$\frac{-9}{9}$	$-\frac{9}{9}$	$\frac{9}{10}$	15
17	- 6	6	6		7	7	7	ś	8	3	9	9	9	9	10	10	10	17
18	- 6	-6	7	$\frac{7}{7}$	7	8	8	8	8	9	9	9	10	10	10	11	11	18
$\frac{19}{20}$	6 7	77	$\frac{7}{7}$	7	8	8	8 9	9	9	9 10 s	10	10	10 11	10 11	11	11 12	11 12	19 20
21		7		-3-	- 8	-9	-9	$-\frac{3}{9}$	$-\frac{10}{10}$	10	11	11	-11	$-\frac{11}{12}$	$-\frac{11}{12}$	-12 12	$-\frac{12}{13}$	$\frac{20}{21}$
22	7	- 8	8	- 8	9	9	10	10	10	11	11	11	12	12	12	13	13	22
23 24	5 5	8	8 9	9	9 10	10 10	10 10	10 11	11	11 12	12 12	12 12	12	13	13	13	14	23 24
25	8	9	9	10	10	10	11	11	12	12	13	13	13 13	13 14	14	14 15	14 15	25
26	9	9	10	10	10	11	11	12	-12	13	13	13	14	14	15	15	16	26
27 28	9	9	10	10	11	11	12	12 13	13	13	14	14	11	15	15	16	16	27
29	9 10	10 10	10 11	11	11 12	12	12 13	13	13 14	14	14 15	14 15	15 15	15 16	16 16	16 17	17 17	28 29
30	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	30
31	10	11	11	12	12	13	13	14	14	15	16	16	17	17	18	18	19	31
32 33	11 11	11 12	12 12	12 13	13 13	13 14	14	14 15	15 15	15 16	16 17	17 17	17 18	18 18	18 19	19 19	19 20	32 33
34	11	12	12	13	14	14	15	15	16	16	17	18	18	19	19	20	20	34
35	12	12	13	13	14	15	15	16	_16	17_	_18_	18	_ 19	19	20	_20	21	35
36 37	12 12	13 13	13	14	14   15	15 15	16 16	16 17	17	17	18 19	19 19	19 20	20 20	20 21	21 22	22	36 37
38	13	13	14	15	15	16	16	17	18	18	19	20	20	21	22	22	23	38
39	13	14	14	15	16	16	17	18	18	19	20	20	21	21 22	22	23	23	39
$-\frac{40}{41}$	13	14	15 15	15 16	$\frac{16}{16}$	17 17	17 18	18	$-\frac{19}{19}$	$-\frac{19}{20}$	$\frac{20}{21}$	21 21	$-\frac{21}{22}$	$-\frac{22}{23}$	23	23	$-\frac{24}{25}$	40
42	14	15	15	16	17	18	18	19	20	20	21	. 22	22	23	24	25	25	42
43	14	15	16	16	17	18	19	19	20	21	22	22	23	24	24	25	26	43
44 45	15 15	15   16	16 17	17 17	18 18	18 19	19 20	20 20	21 21	21 22	22 23	23 23	23 24	24 25	25 26	26 26	26 27	44 45
-16	15	16	17	18	18	19	$-\frac{10}{20}$	21	$-\frac{7}{21}$	22	23	24	25	-25	26	27	28	46
47	16	16	17	18	19	20	20	21	22.2	23	24	24	25	26	27	27	28	47
48 49	16 16	17	18	18	19 20	20 20	21 : 21 :	22	22	23 24	24 25	25 25	26 26	26 27	27 28	28 29	29 29	48 49
50	17	18	18	19	20	21	22	23	23	24	25	26	27	28	28	29	30	50
51	17	18	19	20	20	21	212	23	21	25	26	26	27	28	29	30	31	51
52 53	17	18	19	20 20	21	22	23 23	23 24	24 25	25 26	26 27	27 27	28 28	29 29	29 30	30	31 32	52 53
54	18	19	20	21	1313	23	23	24	25	26	27	28	29	30	31	32	32	54
55	18	19	20	21	1213	23	24	25	26	27	28	28	29	30	_31_	32	33	55_
56 57	19	20 20	21	21 .	200	23	24 25	25 26	26 27	27	28 29	29 29	30	31 31	32	33	34	56 57
58	19	20	21	1111	23	21	25	26 26	27	52	29	30	31	32	33	34	35	58
59	20	21	1111	23	24	25	26	27	57	244	30	30	31	32	33	34	35	59
60	20	21	112	23	24 (	25	26	27	25	29	30	31	32	33	34	35	36	60

#### TABLE 12.

at	the	op,	and t	he n	umb	ers in	the s		lumn			for s	econds	3.	_			
М.									Horary									м.
,u.,	37"	88"	39"	40"	41"	42"	43"	44"	45"	46′′	47"	45"	49"	50′′	51"	52"	53"	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 3	$\frac{1}{2}$	1 2	1 2	1 2	1 2 3	1 2 3	$\frac{1}{2}$	1 2	2 2	2 2 3	2 2 3	2 2 3	$\frac{2}{2}$	3	3	3	3	3
4 5	1 2 2 3	3	3	3	3	3	3	3 4	3	3 4	3	3	3	3	3 4	3 4	4	5
- 6	4	4	4	-4 5	4	4	4	4	5	5	5	- 5	- 5	5	5	5	- 5	6
7 8	4 5	5	5	5	5 5	5 6	5 6	5 6	5 6	5 6	5 6 7	6 6 7	6 7 7	6 7	6 7	6 7	6 7	7 8
9 10	6	6	6 7	6 7	6	6	6 7	7	7 8	6 7 8	7 8	7 8	7 8	8	8 9	8 9	8 9	9 10
11	7 7	7	7	7	8	-8	8	8	- 8	8	9	-9	9	9	9	10	10	11
12 13	7 8	8	8	8 9	8 9	8	9	10	10	9 10	9 10	10 10	10 11	10 11	10 11	10 11	11 11	12 13
14 15	9	9 10	9 10	10	10 10	10 11	10 11	10 11	11 11	11 12	11 12	11 12	11 12	12 13	12 13	12 13	12 13	14
16	10	10	10	11	11	11	11	12	19	12 13	13	13	13	13	14	14	14	$\frac{15}{16}$
17 18	10 11	11	11 12	11 12	12 12	12 13	12	12 13	13 14	13 14	13 14	14 14	14 15	14 15	14 15	15 16	15 16	17 18
19 20	12 12	12 13	12	13 13	13 14	13 14	14 14	14 15	14 15	15 15	15 16	15 16	16 16	16 17	16 17	16 17	17 18	19
21	13	13	14	14	14	15	15	15	16	16	16	17	17	18	18	18	19	$\frac{20}{21}$
22 23	14 14	14 15	14 15	15 15	15 16	15 16	16 16	16 17	17 17	17 18	17 18	18 18	18 19	18 19	19 20	$\frac{19}{20}$	19 20	22 23 24 25
24 25	15	15 16	16 16	16 17	16 17	17 18	17 18	18 18	18 19	18 19	19 20	19 20	20 20	20 21	20 21	21 22	21 22	24
26	15 16	16	17	17	18	18	19	19	20	20	20	21	21	22 23	99	23	23	25 26
27 28	17 17	17 18	18	18 19	18 19	19 20	19 20	20 21	20 21	21	21	22 22 23	22 23 24	23	23 24	23 24	24 25	26 27 28
28 29 30	18 19	18 19	19 20	19 20	20 21	20 21	21 22	21 22	22 23	21 22 23	22 23 24	23 24	24 25	23 24 25	25 26	24 25 26	26 27	29
31	19	20	20	21	21	22	99	23	23	24	24 24 25	25	25	26	26	27	27 28	30
32 33	20 20	20 21	21 21	21 21 22	22	22 23	23 24	23 24	24 25	25 25	25 26	26 26	26 27	27 28	27 28	28 29	28 29	32 33
34 35	21 22	22 22	22 23	23 23	23 24	24 25	24 25	25 26	26 26	26 27	27 27	27 28	28 29	28 29	29	29	30	34
36	22	23	23	24	25	25	26	26	27	28	28	29	29	30	$-\frac{30}{31}$	$\frac{30}{31}$	31	$\frac{35}{36}$
37 38	23 23	23 24	24 25	25 25	$\frac{25}{26}$	26 27	27 27	27 28	28 29	28 29	29 30	30 30	30 31	31 32	31 32	32 33	33 34	37 38
39 40	24 25	24 25 25	25 26	26 27	27	27 27 28	28 29	29 29	29 30	30	31	31 32	32 33	33	33	34	34	39
41	25	26	27	27	28	29	29	30	31	$\frac{31}{31}$	31	33	33	33	34	35	35	40
42 43	26 27	26 27 27	27 28	28 29	29 29	29 30	30	31 32	32 32	32 33	33 34	34 34	34 35	35 36	36 37	36 37	37 38	42 43
44 45	27 28	28 29	29 29	29 30	30	31 32	32 32	32 32 33	33 34	34 35	34	35	36	37	37	38	39	44
46	28	29	30	31	31	32	33	34	35	35	35 36	$-\frac{36}{37}$	37	38	38	$\frac{39}{40}$	$-\frac{40}{41}$	45
47 48	29 30	30	31	31 32	32	33 34	34	34 35	35 36	36 37	37 38	38 38	38	39 40	40 41	41 42	42 42	47 48
49 50	30	31 32	32	33	33	34	35 36	36	37	38	38	39	40	41	42	42	43	49
51	31	32 33	33	34	35	36	37 37	37	38	38	$\frac{39}{40}$	40	41	42	43	$-\frac{43}{44}$	44	50
52 53	32	33 34	34 34	35 35	36	36	37 38	38 39	39 40	40 41	41 42	42 42	42 43	43 44	44 45	45 46	46 47	52 53
54 55	33 34	34	35 36	36 37	37	38	39	40 40	41	41 42	42	43 44	44	45	46	47	48	54
56	35	35	36	37	38	39	40	41	42	$-\frac{42}{43}$	$-\frac{43}{44}$	-44 45	$-\frac{45}{46}$	46	47	48	49	55
57 58	35 36	36	37 38	38 39	39 40	40 41	41 42	42 43	43 44	44 44	45 45	46 46	47 47	48 48	48 49	49 50	50 51	57 58
59 60	36 37	37	38 39	39	40	41	42 43	43	44	45	46	47	48	49	50	51	, 52	59
60	31	38	1 59	40	41	42	45	14	45	46	47	48	49	50	51	52	53	60

#### Page 676]

#### TABLE 12.

7,								ŀ	lorary 1	motion							1	11
М.	54"	55"	56"	57"	55"	59"	60′′	61''	62"	63''	64"	65′′	66"	67''	65"	69"	70′′	М.
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 3	2 3	3	2 3	2 3	3	2	3	2 3	2 3	2 3	3	3	3	2 3	2 3	2 3	$\frac{2}{4}$	2 3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	4
5	$\frac{-5}{5}$	5	-5 -6	-5-6	5	$-\frac{5}{6}$	5	- 5 6	6	5	5	5	$\frac{-6}{7}$	$\frac{6}{7}$	$\frac{-6}{7}$	$-\frac{6}{7}$	$-\frac{6}{7}$	$\frac{-5}{6}$
6 7	-6	6	6 7	7	6 7	6 7	6	7	7	6 7	6 7	8	- 8	8	8	8	. 8	- 7
- 8	7	7	7	- 8	8	9	- 8	8	8.	S	9	9	9	9	9	9	9	-8
9 10	8 9	8 9	8 9	9	9 10	10	9 10	9 10	10	9 11	10	10 11	10	10	10	10 12	11 12	9 10
11	10	10	10	10	11	11	-11	11	11	12	12	12	12	12	12	13	13	11
12 13	11 12	11 12	11 12	11 12	12 13	12 13	12 13	12	12 13	13 14	13 14	13 14	13 14	13	14 15	14 15	14 15	12 13
14	13	13	13	13	14	14	14	14	. 14	15	15	. 15	15	16	16	16	. 16	14
$\frac{-15}{16}$	$\frac{14}{14}$	$\frac{14}{15}$	14	14	15	$\frac{15}{16}$	15	$\frac{-15}{16}$	$-\frac{16}{17}$	$-\frac{16}{17}$	$-\frac{16}{17}$	$-\frac{16}{17}$	17	$-\frac{17}{18}$	$-\frac{17}{18}$	$\frac{17}{18}$	$\frac{18}{19}$	15 16
17	15	16	16	16	16	17	17	17	18	18	18	18	19	19	19	20	20	17
18 19	16 17	17 17	17 18	17 18	17 18	18 19	18 19	18 19	19 20	19 20	19 20	20 21	20 21	20 21	20 22	21	21 22	18 19
20	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	20
21	19	19	20	20	20	21	21	21	22	22	22	23	23	23	24	24	25	21
22 23	20 21	20 21	21 21	21 22	21 22	22 23	22 23	22 23	23 24	23 24	23 25	24 25	24 25	25 26	25 26	25 26	26 27	22 23
24	22	22	22	23	23	24	24	24	25	25	26	26	26	27	27	28	27 28	24
$\frac{-25}{26}$	23 23	23	23	24	$-\frac{24}{25}$	$\frac{-25}{-26}$	$\frac{25}{26}$	$\frac{25}{26}$	$-\frac{26}{27}$	$-\frac{26}{27}$	$-\frac{27}{28}$	27	$-\frac{28}{29}$	$-\frac{28}{29}$	$-\frac{28}{29}$	30	$-\frac{29}{30}$	25 26
27	24	25	25	26	26	27	27	27	28	28	29	29	30	50	31	31	32	27
28 29	25 26	26 27	26 27	27 28	27 28	28 29	28 29	28 29	29 30	29 30	30	30	31 32	31 32	32	32	33	28 29
30	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34	35	_ 35	30
31 32	28 29	28 29	29 30	29 30	30 31	30	31 32	32	32 33	33 34	33	34	34 35	35 36	35	36	36 37	31 32
-33	30	30	31	31	32	32	33	34	34	35	35	36	36	37	37	38	39	33
34 35	31 32	31 32	32	32	33 34	33 34	34 35	35 36	35 36	36 37	36 37	37 38	37 39	38 39	39 40	39	40 41	34 35
$-\frac{35}{36}$	32	33	34	34	35	35	36	36	36	$-\frac{37}{38}$	37	38	$-\frac{39}{40}$	- <del>39</del>	41	-41	41	36
37	33	34	35	35	36	36	37	38	38	39	39	10	41	41	42	43	43	37
38 39	34 35	35	35	36 37	37	37	38	39 40	39 40	40 41	41	41	42	42 44	43	44 45	44 46	38
40	36	37	37	38	39	39	40	41	41	42	43	43	44	45	45	46	47	40
41 42	37 38	38	38	39	40	40	41	42 43	42 43	43 44	44 45	44   16	45 46	46	46 48	47 48	48 49	41 42
43	39	39	40	41	42	42	43	44	4.1	45	46	47	47	44	49	49	50	43
44 45	40	40	11 12	42	43	43	41 45	45 46	1 45	46 47	47 48	48 49	48 50	49 50	50 51	51 52	51 53	44 45
46	41	42	43	11	44	45	46	47	18	48	49	50	51	51	52	53	54	46
47	12	43	44	45	45	-16	47	48	49	49	50	51	52	52	53	54	55	47
45	43	14 45	45 46	46	46	47 48	48	-19 - 50	50	50 51	51 52	52 53	53 54	54	54 56	55 56	56 57	48 49
_50	45	46	47	15	45	49	50	51	52	53	53	54	. 55	56	57	58	58	50
51 52	46	, 17 18	49	18	49	50 54	51 52	52 53	53	54	54 55	55 56	56 57	57 58	58 59	59 60	60	51 52
53	48	19	19	50	51	52	53	54	55	56	57	57	58	59	GO	61	62	53
54 55	49 50	50	50 51	51 52	52 53	53	54	55 56	56 57	57 58	58	59 60	59 61	60	61 62	62	63	54 55
56	50	51	52	53	51	55	56	57	58	59	60	61	62	63	63	64	65	56
57	51	52	53	54	- 55	56	57	58	59	60	61	62	63	61	65	66	67	57 58
58 59	52	53	54 55	56	56	57 58	58	59	60	61	62 63	63	64	65	66	67	68	59
60	54	55	56	57	5%	59	60	61	62	63	64	65	66	67	68	69	70	60

										nds of being					ne mir	iute b	eing g	given
								1	Horary	motior	١.							м.
М.	71"	72"	78"	74"	75"	76"	77"	78"	79"	80"	81"	82"	83"	84"	85"	86"	87"	м.
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 2 3	2 4	2	4	2 4	3 4	3	3 4	3	3 4	3 4	3 4	3	3 4	3 4	3 .	3	3 4	2 3
4	5	5	5	5	5	5	5	4 5	5	5	5	5	6	6	6	6	6	3 4 5
5	6	6	6	6	6	6	6	7	7	$\frac{7}{2}$		$-\frac{7}{2}$	7	7	7	7	$-\frac{7}{2}$	
-6 7	7 8	7 8	7 9	7 9	8 9	8	8 9	8	8 9	8 9	8 9	8 10	8	8	10	9	9	6 7
8	9 11	10 11	10 11	10 11	10 11	10 11	10 12	10 12	11 12	11 12	11 12	11 12	11 12	11 13	11 13	11 13	12 13	8 9
10	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	15	10
11 12	13	13	13	14	14	14	14 15	14	14	15	15	15	15	15	16	16	16	11
13	14 15	14 16	15 16	15 16	15 16	15 16	17	$\frac{16}{17}$	16 17	16 17	16 18	16 18	17 18	17 18	17 18	17 19	17 19	$\frac{12}{13}$
14 15	17 18	17 18	17 18	17 19	18 19	18 19	18 19	18 20	18 20	19 20	19 20	19 21	19 21	20 21	20 21	20 22	20 22	14 15
16	19	19	19	20	20	20	21	21	21	21	22	22	22	22	23	23	23	$\frac{16}{16}$
17 18	20 21	20 22	$\frac{21}{22}$	$\frac{21}{22}$	21 23	22 23	22 23	$\frac{22}{23}$	22 24	23 24	23 24	23 25	24 25	24 25	$\frac{24}{26}$	24 26	25 26	17 18
19	22	23 24	23	23	24	24	$\frac{23}{24}$	25	24 25	25 27	26	26 26	26	$\frac{25}{27}$	26	27	28	18
20	24		24	25	25	25	_26	26	26		_27	_27	28	28	28	29	29	20
21 22	25 26	25 26	$\frac{26}{27}$	$\frac{26}{27}$	$\frac{26}{28}$	27 28	27 28	27 29	28 29	28 29	28 30	29 30	29 30	29 31	30 31	30 32	30	$\frac{21}{22}$
23 24	27 28	28 29	28 29	28 30	29 30	29 30	30 31	30 31	30 32	31 32	$\frac{31}{32}$	31 33	32 33	32 34	33 34	33 34	33 34	23 24
25	30	30	30	31	31	32	32	33	33	33	34	34	35	35	35	36	36	24 25
26 27	31 32	31 32	32 33	32 33	33 34	33 34	33 35	34 35	34 36	35 36	35 36	36 37	36 37	36	37 38	37	38 39	26 27
28	33	34	34	35	35	35	აი 36	36	36 37	37	38	38	39	38 39	40	39 40	41	28
29 30	34 36	35 36	35 37	36 37	36 38	37 38	37 39	38 39	38 40	39 40	$\frac{39}{41}$	40 41	40 42	41 42	41 43	42	42 44	29 30
31	37	37	38	38	39	39	40	40	41	41	42	$-\frac{41}{42}$	$-\frac{42}{43}$	43	$-\frac{45}{44}$	44	45	31
32	38 39	38 40	39 40	39 41	40 41	41 42	41 42	42 43	42 43	43 44	43 45	44 45	44 46	45 46	45 47	46 47	46 48	32 33
34	40	41	41	42	43	43	44	44	45	45	46	46	47	48	48	49	49	34
35 36	41 43	$\frac{42}{43}$	43	$\frac{43}{44}$	$\frac{44}{45}$	44	$\frac{45}{46}$	$\frac{46}{47}$	$\frac{-46}{47}$	$\frac{47}{48}$	$-\frac{47}{49}$	$\frac{48}{49}$	$\frac{48}{50}$	$\frac{49}{50}$	$\frac{50}{51}$	$\frac{50}{52}$	$\frac{51}{52}$	35
37	44	44	45	46	46	47	47	48	49	49	50	51	51	52	52	53	54	37
38 39	45 46	46 47	46 47	47 48	48 49	48 49	49 50	49 51	50 51	51 52	51 53	52 53	53 54	53 55	54 55	54 56	55 57	38 39
40	47	48	49	49	-50	51	51	52	53	53	54	55	55	56	57	57	58	40
41 42	49 50	49 50	50 51	51 52	51 53	52 53	53 54	53 55	54 55	55 56	55 57	56 57	57 58	57 59	58 60	59 60	59 61	41 42
43	51	52	52	53	54	54	55	56	57	57	58	59	59	60	61	62	62	43
44 45	52 53	53 54	54 55	54 56	55 56	56 57	56 58	57 59	58 59	59 60	59 61	60 62	61 62	62 63	62 64	63 65	64 65	44 45
46	54	55	56	57	58	58	59	60	61	61	62	63	$-\frac{62}{64}$	64	65	66	67	46
47 48	56 57	56 58	57 58	58 59	59 60	60	60 62	$\frac{61}{62}$	62 63	63 64	63 65	64 66	65 66	66 67	67 68	67 69	68 70	47 48
49	58	59	60	60	61	62	63	64	65	65	66	67	68	69	69	70	71	49
50 51	59 60	60	$\frac{61}{62}$	$\frac{62}{63}$	$\frac{63}{64}$	63	$\frac{64}{65}$	$\frac{-65}{66}$	$-\frac{66}{67}$	$\frac{-67}{68}$	68	$\frac{-68}{70}$	$\frac{-69}{71}$	$\frac{70}{71}$	$\frac{71}{72}$	$\frac{72}{73}$	$-\frac{73}{74}$	50
52	62	62	63	64	65	66	67	68	68	69	70	71	72	73	74	75	75	52
53 54	63 64	64 65	64 66	65 67	66 68	67 68	68 69	69 70	70 71	71 72	72 73	72 74	73 75	74 76	75 77	76 77	77 78	53 54
55	65	66_	67	68	69	70	71	72	72	73	74	75	76	77	78	79	80	55
56 57	66 67	67 68	68 69	69 70	70 71	71 72	72 73	73 74	74 75	75 76	76 77	77 78	77 79	78 80	79 81	80 82	81 83	56 57
58	69	70	71	72	73	73	74	75	76	77	78	79	80	81	82	83	84	58
59 60	70 71	$\frac{71}{72}$	72	73 74	74 75	75 76	76 77	77 78	78 79	79 80	80 81	81 82	82 83	83 84	84 85	85 86	86 87	59 60
50			,,,	1.2	10	10		10	10	00	01	02	00	04	00	80	04	00

378

#### TABLE 12.

For finding the Variation of the Sun's Right Ascension or Declination, or of the Equation of Time, in any number of minutes of time, the Horary Motion being given at the top of the page in seconds, and the number of minutes of time in the side column. Also for finding the Variation of the Moon's Declination or Right Ascension, in seconds of time, the motion in one minute being given at the top and the numbers in the side column being taken for seconds.

	-	p							Horary									-
М.	88"	89"	907"	91"	92"	93"	94"	95″	96″	97"	94"	99"	100′	101"	102"	103"	104"	М.
1 2 3 4	1 3 4 6	1 3 4 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 6	2 3 5 7	2 3 5 7	2 3 5 7	2 3 5 7	2 3 5 7	2 3 5 7	23 5 7	1 2 3 4 5
6	7	$\frac{7}{9}$	8	$\frac{-8}{9}$	$-\frac{8}{9}$	$-\frac{8}{9}$	$-\frac{8}{9}$	$\frac{8}{10}$	$\frac{8}{10}$	$\frac{8}{10}$	$\frac{8}{10}$	$\frac{8}{10}$	10	$-\frac{8}{10}$	$\frac{9}{10}$	$\frac{9}{10}$	10	$\frac{5}{6}$
7 8 9 10	10 12 13 15	10 12 13 15	11 12 14 15	11 12 14 15	11 12 14 15	11 12 14 16	11 13 14 16	11 13 14 16	11 13 14 16	11 13 15 16	11 13 15 16	12 13 15 17	12 13 15 17	12 13 15 17	12 14 15 17	12 14 15 17	12 14 16 17	7 8 9 10
11 12 13 14 15	16 18 19 21 22	16 18 19 21 22	17 18 20 21 23	17 18 20 21 23	17 18 20 21 23	17 19 20 22 23	17 19 20 22 24	17 19 21 22 24	18 19 21 22 24	18 19 21 23 24	18 20 21 23 25	18 20 21 23 25	18 20 22 23 25	19 20 22 24 25	19 20 22 24 26	19 21 22 24 26	19 21 23 24 26	11 12 13 14 15
16 17 18 19 20	23 25 26 28 29	24 25 27 28 30	24 26 27 29 30	24 26 27 29 30	25 26 28 29 31	25 26 28 29 31	25 27 28 30 31	25 27 29 30 32	26 27 29 30 32	26 27 29 31 32	26 28 29 31 33	26 28 30 31 33	27 28 30 32 33	27 29 30 32 34	27 29 31 32 34	27 29 31 33 34	28 29 31 33 35	16 17 18 19 20
21 22 23 24 25	31 32 34 35 37	31 33 34 36 37	32 33 35 36 38	32 33 35 36 38	32 34 35 37 38	33 34 36 37 39	33 34 36 38 39	33 35 36 38 40	34 35 37 38 40	34 36 37 39 40	34 36 38 39 41	35 36 38 40 41	35 37 38 40 42	35 37 39 40 42	36 37 39 41 43	36 38 39 41 43	36 38 40 42 43	21 22 23 24 25
26 27 28 29 30	38 40 41 43 44	39 40 42 43 45	39 41 42 44 45	39 41 42 44 46	40 41 43 44 46	40 42 43 45 47	41 42 44 45 47	41 43 44 46 48	42 43 45 46 48	42 44 45 47 49	42 44 46 47 49	43 45 46 48 50	43 45 47 48 50	44 45 47 49 51	44 46 48 49 51	45 46 48 50 52	45 47 49 50 52	26 27 28 29 30
31 32 33 34 35	45 47 48 50 51	46 47 49 50 52	47 48 50 51 53	47 49 50 52 53	48 49 51 52 54	50 51 53 54	49 50 52 53 55	49 51 52 54 55	50 51 53 54 56	50 52 53 55 57	51 52 54 56 57	51 53 54 56 58	52 53 55 57 58	52 54 56 57 59	53 54 56 58 60	53 55 57 58 60	54 55 57 59 61	31 32 33 34 35
36 37 38 39 40	53 54 56 57 59	53 55 56 58 59	54 56 57 59 60	55 56 58 59 61	55 57 58 60 61	56 57 59 60 62	56 58 60 61 63	57 59 60 62 63	58 59 61 62 64	58 60 61 63 65	59 60 62 64 65	61 63 64 66	60 62 63 65 67	61 62 64 66 67	61 63 65 <b>66</b> 68	62 61 65 67 69	62 64 66 68 69	36 37 38 39 40
41 42 43 44 45	60 62 63 65 66	61 62 64 65 67	63 65 66 68	62 64 65 67 68	63 64 66 67 69	65 67 68 70	64 66 67 69 71	65 67 68 70 71	66 67 69 70 72	66 68 70 71 73	67 69 70 72 74	68 69 71 73 74	68 70 72 73 75	69 71 72 74 76	70 71 73 75 77	70 72 74 76 77	71 73 75 76 78	41 42 43 44 45
46 47 48 49 50	67 69 70 72 73	68 70 71 73 74	71 72 74 75	70 71 73 74 76	71 72 74 75 77	71 73 74 76 78	72 74 75 77 78	73 74 76 78 79	74 75 77 78 80	74 76 78 79 81	75 77 78 80 82	76 78 79 81 83	17.69.23	77 79 81 82 84	78 80 82 83 85	79 77 72 73 73 73 84 86	80 83 85 87	46 47 48 49 50
51 52 53 54 55 56	75 76 78 79 81 82	767-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	77.8 80.8 87.8 87.8 87.8	17.58.82.7.9	78 80 81 83 84 86	79 81 82 84 85 87	80 81 83 85 86 88	81 82 84 85 87 87	82 83 85 85 85 85 90	82 84 86 87 89 91	83 85 87 88 90 91	84 86 87 89 91 92	85 87 88 90 92 93	86 88 89 91 93 93	87 88 90 92 94 95	88 89 91 93 91 94	90 90 92 94 95	51 52 53 54 55 56
57 58 59 60	23558	85 86 88 89	86 87 89 90	90 91	87 89 90 92	90 90 91 93	89 91 92 94	90 92 93 95	91 93 94 96	92 94 95 97	93 95 96 95	94 96 97 99	95 97 98 1 98 1 100	96 98 99 101	97 99 100 102	95 100 101 103	99 401 102 104	57 58 59 60

_	1						Hora	ry motio	n,						1
М.	105"	106"	107"	108"	109"	110"	111"	112"	118"	114"	115"	116"	117"	118"	М.
$\frac{1}{2}$	2 4	2 4	2 4	2 4	2 4	2	2 4	2 4	2 4	2 4	2 4	2	2 4	2 4	$\frac{1}{2}$
3	5	5 7	5 7	5 7	5 7	6 7	6 7	6 7	6 8	8	8	8	6 8	6 8	3 4 5
- 5 - 6	9	$\frac{9}{11}$	9	9	9	9	9	9	$-\frac{9}{11}$	$\frac{10}{11}$	$\frac{10}{12}$	$\frac{10}{12}$	$\frac{10}{12}$	10	
7 8	12 14	12 14	12 14	13 14	13 15	13 15	13 15	13 15	13 15	13 15	13 15	14 15	14 16	14 16	6 7
10	16 18	16 18	16 18	16	16 18	17 18	17 19	17 19	17 19	17 19	17 19	17 19	18 20	18 20	8 9 10
11	19	19	20	$\frac{18}{20}$	20 22	20 22	20 22	21 22	21 23	21 23	21 23	21	21 23	22 24	11
12 13	21 23	21 23	21 23 25	22 23 25	24	24	24	24	24	25	25	23 25	23 25 27	26	12 13 14
14 15	25 26	25 27	25 27	25 27	25 27	26 28	26 28	$\frac{26}{28}$	26 28	27 29	27 29	27 29	27 29	28 30	14 15
16 17	28 30	28 30	29 30	29	29 31	29 31	30 31	30 32	30 32	30 32	31 33	31 33	31 33	31 33	16 17
18	32	32	32	31 32	33	33	33	34	34	34 36	35 36	35 37	35	35	18 19
19 20	33 35	34 35	34 36	34 36	35 36	35 37	35 37	35 37	36 38	38	38	39	37 39	37 39	20
21 22	37 39	37 39	37 39	38 40	38 40	39 40	39 41	39 41	40 41	40 42	40 42	41 43	41 43	41 43	21 22 23 24 25
23 24	40 42	41 42	41 43	41 43	42 44	42 44	43 44	43 45	43 45	44 46	44 46	44 46	45 47	45 47	23 24
25 26	44	44	$-\frac{45}{46}$	45	45	46	48	47	47	48	48 50	48 50	49 51	49	25
27	47	48	48	49	49	50	50	50	51	51	52	52	53	51 53	26 27
28 29	49 51	49 51	50 52	50 52	51 53	51 53	52 54	52 54	53 55	53 55	54· 56	54 56	55 57	55 57	28 29
$\frac{30}{31}$	$\frac{-53}{54}$	53 55	54	$\frac{-54}{56}$	55 56	55 57	56 57	56 58	57 58	$\frac{57}{59}$	<u> 58</u> 59	- 58 - 60	- 59 - 60	59 61	30
32 33	56 58	57 58	57 59	58 59	58 60	59 61	59 61	60 62	60 62	61 63	61 63	62 64	62 64	63 65	32
34 35	60 61	60 62	61 62	61 63	62 64	62 64	63 65	63 65	64 66	65 67	65 67	66 68	66 68	67 69	33 34 35
36	63	64	64	65 67	65	66	67	67	68	68	69			71	36 37
37 38	65 67	65 67	66 68	68	67 69	68 70	68 70	69 71	70 72	70 72 74	71 73 75	70 72 73	70 72 74	73 75 77	37 38 39
39 40	68 70	69 71	70 71	70 72	71 73	70 72 73	72 74	73 75	73 75	74 76	75 77	75 77	76 78	77 79	39 40
41 42	72 74	$\frac{72}{74}$	73 75	74 76	74 76	75 77	76 78	77 78	77 79	78 80	79 81	79 81	80 82	81 83	41 42
43 44	75 77	76 78	77 78	77	78 80	79 81	80 81	80 82	81	82 84	82 84	83 85	84 86	85 87	43 44
45	79	80	80	79 81	82	83	83	84	83 85	86	86	87	88	89	45
46 47	81 82	81 83	82 84	83 85	84 85	84 86	85 87	86 88	87 89	87 89	88 90	89 91	90 92	90 92	46 47
48 49	84 86	85 87	86 87	86 88	87 89	88 90	89 91	90 91	90 92	91 93	92 94	93 95	94 96	9 <b>4</b> 96	48 49
50 51	_88 _89	88	$\frac{-89}{91}$	$-\frac{90}{92}$	$\frac{-91}{93}$	92	93	93	94	95	$\frac{-96}{98}$	97	98	98	50 51
52	91	92	93	94	94	95	96	97	98	99	100	101	101	102	52
53 54	93 95	94 95	95 96	95 97	96 98	97 99	98 100	99 101	100 102	101 103	102 104	102 104	103 105	104 106	53 54
$\frac{-55}{-56}$	$\frac{96}{98}$	$\frac{97}{99}$	$\frac{98}{100}$	99 10I	$\frac{100}{102}$	$\frac{101}{103}$	$\frac{102}{104}$	103	104	$\frac{105}{106}$	$\frac{105}{107}$	$\frac{106}{108}$	107	$\frac{108}{110}$	55 56
57 58	$\frac{100}{102}$	101 102	102 103	103 104	104 105	105 106	105 107	106 108	107 109	108 110	109 111	110 112	111 113	112 114	56 57 58
59 60	103 105	104 106	105 107	106 108	107 109	108 110	109 111	110 112	111 113	112 114	113 115	114 116	115 117	116 118	59 60
	100	100	107	108	100	110	111	112	1119	114	119	110	111	119	00

## Page 680]

# TABLE 12.

M.							Horar	y motio	n.						١.
м.	119"	120"	121"	122"	128"	124"	125"	126"	127"	128"	129"	130″	131"	182"	7
1	2	2	2	2	2	2	2	2	2	2	2	2	9	9	
2 3	4	4	4	4	4	4	4	4	4	4	4	4	2 4	2 4 7	
	- 6	- 6	6	6	6	6	6	6	6	6	6	4 7	7	7	
4	8	- 8	8	- 8	8	- 8	8	8	- 8	9	9	9	9	9	
5	10	_10	10_	10	10	10	10	_ 11	11	11	11	11	11	11	
<del>6</del> 7	12 14	12	12	12	12	12	13	13	13	13	13	13	13	13	Γ
ś	16	14 16	14 16	14 16	14 16	14 17	15 17	15 17	15 17	15 17	15 17	15 17	15 17	15	١
9	18	18	18	18	18	19	19	19	19	19	19	20	20	$\frac{18}{20}$	1
ıŏ.	20	20	20	20	21	21	21	21	21	21	22	22	22	22	1
1	22	22	22	22	23	23	23	23	23	23	24	24	24	$-\frac{1}{24}$	1
12	24	24	24	24	25	25	25	25	25	26	26 28	26	26	26	î
13	26	26	26	26	27	27	27	27	28	28	28	28	28	29 31	1
14	28	28	28	28	29 31	29	29	29	30	30	30	30	31	31	1
15	30	_30	30	31		31_	31	32	32	32	32_	33	33	33	1.
16	32	32	32	33	33	33	33	34	34	34	34	35	35	35	1
17 18	34 36	34 36	34 36	$\frac{35}{37}$	35 37	35 37	35 38	36 38	36 38	36 38	37 39	37	37 39	37 40	1 1
19	38	38	38	39	39	39	40	40	40	41	41	39 41	41	42	1.
20	40	40	40	41	41	41	42	42	42	43	43	43	44	44	2
21	$-4^{\circ}_{42}$	42	42	$-\frac{1}{43}$	43	43	44	-44	44	45	45	46	46	46	2
)·)	44	44	44	45	45	45	46	46	47	47	47	48	48	48	5
23	46	46	46	47	47	48	48	48	49	49	49	50	50	51	2 2
2-1	48	48	48	49	49	50	50	50	51	51	52	52	52	53	2
25	_50	50	50	51	- 51	52	52	53	53	53	54	54	55	55	2
26	52	52	52	53	53	54	54	55	55	55	56	56	57	57	2
27	54	54	54	55	55	56	56	57	57	58	58	59	59	59	2 2
355	56	56	56	57	57	58	58	59	59	60	60	61	61	62	2
29 30	58 60	58 60	58 61	59 61	59 62	60 62	63	61 63	61 64	62 64	62 65	63 65	63 66	64 66	2 3
31	$-\frac{60}{61}$	$-\frac{60}{62}$	63	63	- 64	64	$-\frac{65}{65}$	65	- 66	- 66	67	-67	$-\frac{68}{68}$	68	3
32	63	64	65	65	66	66	67	67	68	68	69	69	70	70	3
33	65	66	67	67	68	68	69	69	70	70	71	72	72	73	3
34	67	68	69	69	70	70	71	71	72	73	73	74	74	75	3
35	69	70	71	71	72	72	73	74	74	75	75	76	76	73 75 77	3
36	71	72	73	73	74	74	75	76	76	77	77	78	79	79	3
37	73	7.4	75	75	76	76	77	78	78	79	80	80	81	81	3
38	75	76	77	77	78	79	79	80	80	81	82	82 85	83	84	3
39	77	78 80	79	79	80	81	81	82	83	83	84	85	85	86	3
10	-79		81	81	82	- 83	83	84	- 85	85	86	87	87	88	4
11	81 83	82 84	83 85	83 85	84 86	85 87	85 88	86 88	87 89	87 90	88 90	89 91	90 92	90 92	4
13	85	86	87	87	88	89	90	90	91	92	92	93	94	95	4
14	87	88	89	89	90	91	92	92	93	94	95	95	96	97	4
15	89	90	91	92	92	93	94	95	95	96	97	98	98	99	4.
16	91	92	93	94	94	95	96	97	97	98	99	100	100	101	-44
17	93	94	95	96	96	97	98	99	99	100	101	102	103	103	4
١,	95	96	97	98	98	99	100	101	102	102	103	104	105	106	-4
19	97	98	99	100	100	101	102	103	104	105	105	106	107	108	41
()	99	100	101	102	103	103	104	105	106	$-\frac{107}{}$	108	_108	$-\frac{109}{109}$	110	50
1	101 103	102	103	104	105	105	106	107	108	109	110	111	111	112	5
12	105	101	105	106 108	107	107 110	108 110	109	110	111	112 114	113 115	114 116	114	5: 5:
).: )-[	105	108	107	110	111	112	113	113	114	115	116	117	118	119	5. 5.
55	109	110	111	112	113	114	115	116	116	117	118	119	120	121	5
565	111	112	113	111	115	116	117	118	119	119	120	121	122	123	5
57	113	114	115	116	117	118	119	120	121	122	123	124	124	125	5
, 5	115	116	117	118	119	120	121	122	123	124	125	126	127	128	53
ij.	117	118	119	120	121	122	123	124	125	126	127	128	129	130	-59
3()	119	120	121	122	123	124	125	126	127	128	129	130	131	132	-60

١		1						Hora	ry motic	n,						
1	М.	133''	134"	135"	136"	137"	138"	139′′	140′′	141"	142"	143′′	144"	145"	146"	М,
١	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
1	3	2 4 7	2 4 7	2 5 7	2 5 7	2 5 7	2 5 7	5 7	2 5 7	2 5 7	5	5 7	5	5	5 7	2 3
ı	3	7 9	7 9	7 9	7 9	7	7 9	7 9	7 9	7 9	7 9	10	7 10	7	7 10	3
1	5	11	11	11	11	11	12	12	12	12	12	12	12	12	12	4 5
-1	6 7	13	13	14	14	14	14	14	14	14	14	14	14	15	15	6 7
-1	7	16	16	16	16	16	16	16	16	16	17	17	17	17	17	7
Į	8 9	18 20	18	18 20	$\frac{18}{20}$	18 21	18 21	19 21	19 21	19 21	19 21	19 21	19 22	19 22	19 22	8 9
1	10	20 22	20 22	23	23	23	23	23	23	24	24	24	24	24	24	10
1	11	24 27	25 27	25 27	25 27	25 27	25	25 28	26 28	26	26	26	26 29	27 29	27 29	11
1	12 13	27 29	$\frac{27}{29}$	27 29	27 29	27 30	28 30	28 30	28 30	28 31	28 31	29 31	29 31	29 31	29 32	12
1	14	31	31	32	32	32	32	32	33	33	33	33	34	34	34	13 14
I.	15	33	34	34	34	34	35	35	35	35	36	36	36	36	37	15
1	16 17	35 38	36 38	36 38	36 39	37 39	37 39	37 39	37 40	38 40	38 40	38 41	38 41	39 41	39 41	16 17
ı	18	40	40	41	41	41	41	42	42	42	43	43	43	41	41	18
1	19	42	42	43	43	43	44	44	44	45	45	45	46	46	46	19
ŀ	20	44	$\frac{-45}{47}$	$\frac{45}{47}$	45	<del>-46</del>	46	$\frac{46}{49}$	$\frac{47}{49}$	47	47	48	48	48	49	20
١	21 22	49	49	50	48 50	48 50	51	51	51	49 52	50 52	50 52	50 53	51 53	51 54	$\frac{21}{22}$
ĺ	23 24	51	51	52	52	53	53	53	54	54	54	55	55	56	56	23
1	24 25	53 55	54 56	54 56	54 57	55 57	55 58	56	56	56	57	57	58	58	58	24 25
ŀ	$\frac{25}{26}$	58	58	59	$\frac{5i}{59}$	$\frac{57}{59}$	60	$-\frac{58}{60}$	58 61	59 61	$\frac{-59}{62}$	60	$\frac{-60}{62}$	60	$\frac{-61}{63}$	26
1	27	60	60	61	61	62	62	63	63	63	64	64	65	65	66	27
1	27 28	62	63	63	63	64	62 64	65	65	66	66	67	67	68	68	27 28
1	29 30	64 67	65 67	65 68	66 68	66 69	67 69	67 70	68 70	68 71	69 71	69 72	70 72	70 73	71 73	29 30
ŀ	31	69	69	70	70	71	71	72	$-\frac{70}{72}$	73	73	74	$\frac{72}{74}$	75	$-\frac{75}{75}$	31
1	32	71	71	72 74	73	73	74	74	75	75	76	76	77	77	78	32
1	33 34	73 75	74 76	74	75 77	75   78	76 78	76 79	77 79	78 80	78 80	79	79 82	80	80	33
1	35	78	78	79	79	80	81	81	82	82	83	81 83	84	82 85	83 85	34 35
1	36	80	80	81	82	82	83	83	84	85	85	86	86	87	88	36
1	37	82	83	83	84	84	85 87	86	86	87	88	88	89	89	90	37
ı	38	84 86	85 87	86 88	86 88	87 89	90	88 90	89 91	89 92	90 92	91 93	91 94	92 94	92 95	38 39
1	40	89	89	90	91	91	92	93	93	94	95	95	96	97	97	40
ľ	41	91	92	92	93	94	94	95	96	96	97	98	98	99	100	41
1	42 43	93 95	94 96	95 97	95 97	96 98	97 99	97 100	98	99 101	99 102	100 102	101 103	102 104	$\frac{102}{105}$	42
١	44	98	98	99	100	100	101	102	103	103	104	105	106	106	107	43 44
I.	45	100	101	101	102	103	104	104	105	106	107	107	108	109	110	45
١	46 47	102 104	103 105	104 106	104 107	105 107	106 108	107 109	107 110	108 110	109 111	110 112	110 113	111 114	112 114	46 47
Ĭ	48	106	107	108	109	110	110	111	112	113	114	114	115	116	117	48
1	49	109	109	110	111	112	113	114	114	115	116	117	118	118	119	48 49
1	50	111	112	113	113 116	114	$\frac{115}{117}$	116	$\frac{117}{119}$	118	118	119	120	121	$\frac{122}{124}$	50
1	52	115	116	117	118	119	120	118 120	121	122	121	124	125	123 126	127	$\frac{51}{52}$
1	53	117	118	119	120 122	121	122	123	124	125	125	126	127	128	129	53
1	54 55	120 122	121 123	122 124	122 125	123 126	124 127	125 127	126 128	127 129	128 130	129 131	130 132	131 133	131 134	54 55
ŀ	56	124	125	124	$\frac{125}{127}$	128	129	130	131	132	133	133	$-\frac{132}{134}$	135	136	56
ı	57	126	127	128	129	130	131	132	133	134	135	136	137	138	139	57
1	58 59	129	130 132	131	131	132	133	134	135	136	137	138	139	140	141	58
1	60	131 133	134	133 135	134 136	135 137	136 138	137 139	138 140	139   141	140 142	141 143	142 144	143 145	144 146	59 60
Ļ				200	100		100	100	110	111	1.0	110	***	1 10	1.10	50

#### Page 682]

#### TABLE 12.

	1						Horar	y motion	n.						ı
М.	147"	148"	149"	150"	151"	152"	153"	154"	155"	156″	157"	158″	159"	160"	М.
1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	1
3	- 5	5 7	2 5 7	5	5	5	5	5	- 5	5	5	5	5	5	2
	7			8	.8	8	8	- 8	8	.8	8	.8	8	. 8	3
5	10 12	10	10 12	10 13	10 13	10 13	10 13	10 13	10 13 :	10	10 13	11 13	11 13	11	4 5
-6	15	15	15	15	15	15	15	15	16	16	16	16	16	16	
7	17	17	17	18	18	18	18	18	18	18	18	18	19	19	67
8	20 22	20 22	20	20	20 23	20 23	20 23	21 23	21	21	21	21 24	21	21	- 5
10	25	25	22 25	23 25	25 25	25 25	$\frac{25}{26}$	26	23 26	23 26	24 26	24 26	24 27	24 27	9 10
ii	$-\frac{27}{27}$	$-\frac{27}{27}$	27	28	28	28	28	28	28	29	29	29	29	29	11
12	29	30	30	30	30	30	31	31	31	31	- 31	32	32	32	12 13
13 14	32	32	32 35	33	33	33	33	33	34	34	34	34	34	35	13
15	34 37	35 37	37	35 38	35 38	35 38	36 38	36   39	36 39	36 39	37 39	37 40	37 40	37 40	14 15
16	39	-39	40	-40	$-\frac{30}{40}$	41	41	41	41	42	42	$-\frac{10}{42}$	42	43	16
17	42	42	42	43	43	43	43	44	44	44	44	45	45	45	17
18	44	44	45	45	45	46	46	46	47	47	47	47	48	48	18
19 20	47 49	47 49	47 50	48 50	48 50	48 51	48 51	49 51	49 52	49 52	50 52	50 53	50 53	51 53	19 20
21	51	52	52	53	53	53	54	54	5:	55	55	55	56	56	21
22	54	54	55	55	55	56	56	56	57	57	58	58	58	59	22 23
23	56	57	57	58	58	58	59	59	59	60	60	61	61	61	23
24 25	59 61	59 62	60	60	60 63	61 63	61 64	62 64	62 65	62   65	63 65	63 66	64 66	64	24 25
26	$-\frac{61}{64}$	64	65	65	65	66	66	$-\frac{57}{67}$	67	68	68	68	69	- 69	26
27 28	66	67	67	68	68	68	69	69	70	70	71 73	71	72	72 75	27 28
28	69	69	70	70	70	71	71	72	72	73	73	74	74	75	25
29 30	71 74	72 74	72 75	73 75	73   76	73 76	74 77	74 77	75 78	75 78	76 79	76 79	77 80	77 80	29 30
31	76	76	77	78	78	79	79	80	80	81	81	82	82	83	31
32	78	79	79	80	81	81	82	82	83	83	54	84	85	85	32
33	81	81	82	83	83	84	84	85	85	86	86	87	87	88	33
34 35	83 86	84 86	84 87	85 88	86 88	86	87	87 90	90	91	89 92	90	90	91 93	34 35
36	-88	-89	- 89	-90	91	91	92	92	93	94	94	95	95	96	36
37	91	91	92	93	93	94	94	95	96	96	97	97	98	99	37
38	93	94	94	95 98	96 98	96 99	97 99	98	98	101	99 ,	100	101 103	101	33
39 40	96 98	96	97 99	100	101	101	102	100	101	101	102 (	103	103	104	40
41	100	101	102	103	103	10-1	105	105	106	107	107	108	109	109	41
42	103	104	101	105	106	106	107	108	109.,	109	110	111	111	112	42
43	105 -	106	107	108	108 -	109	110	110	111 .	112 :	113 115	113	114	115 117	43 44
44 45	108	109	112	110	111	114	115	116	116	117	118	119	119	120	45
16	113	113	11+	115	116 (	117	117	118	119	120	120	121	122	123	116
47	115	116	117	118	118	119	120	121	121	100	123	124	125	125	17
18	118	118	119	120	121	122	122	123	124	125	126	126	127	128	48
19. 50.	120 123	121 123	122	123 125 i	123 - 126	124 127	125 128	126 128	127 1	127	128	129 132	130 133	131 133	50
51	125	126	127	128	128	129	130	131	132	133	133	134	135	136	51
52	127	125	129   132	130	131	132	133	133	134	135	136	137	138	159	52 53
53	130	131	132	133	133	134	135	136	137	138	139	140	130	141	55 54
54 55	132 : 135	138	134	135	136 138	137	138	139	140 ,	140	111	112	1 16	14-1 147	55
56	137	138	139	110	141	112	113	111	115	116	117	147	135	149	56
57	110	141	142	133	143	111	145	146	1.47	148	119	150	151	152 155	57
58	112	1.43	111	145	1.46	117	118	149	150	151	152 154	133	154	155 157	58 59
59	145	146	147	145	148	119	150	151	152	153	10.4	155	156	100	. 12.5

TABLE 13.

[Page 683

For finding the Sun's change of Right Ascension for any given number of hours.

variation.  6. 5. 50 8. 55 8. 60 8. 65 8. 70 8. 75 8. 80 8. 85 8. 90 9. 00 9. 05	\$. 5 8. 5 8. 6 8. 6 8. 7 8. 7 8. 8 8. 9 9. 0 9. 0 9. 1	2 17. 0 17. 1 17. 2 17. 3 17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	25. 5 25. 7 25. 8 26. 0 26. 1 26. 3 26. 4 26. 6 26. 7	\$. 34. 0 34. 2 34. 4 34. 6 34. 8 35. 0 35. 2 35. 4	5 42, 5 42, 8 43, 0 43, 3 43, 5 43, 8 44, 0	\$. 51. 0 51. 3 51. 6 51. 9 52. 2 52. 5	\$. 59, 5 59, 9 60, 2 60, 6 60, 9	s. 68. 0 68. 4 68. 8 69. 2	s. 76, 5 77, 0 77, 4 77, 9	8. 85, 0 85, 5 86, 0	8. 93. 5 94. 1 94. 6	8. 102. 0 102. 6 103. 2	s. 8, 50 8, 55 8, 60
8, 50 8, 55 8, 60 8, 65 8, 70 8, 75 8, 80 8, 85 8, 90 8, 95 9, 00	8. 5 8. 6 8. 6 8. 7 8. 7 8. 8 8. 8 8. 9 8. 9 9. 0 9. 0 9. 1	17. 0 17. 1 17. 2 17. 3 17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	25. 5 25. 7 25. 8 26. 0 26. 1 26. 3 26. 4 26. 6 26. 7	34. 0 34. 2 34. 4 34. 6 34. 8 35. 0 35. 2	42, 5 42, 8 43, 0 43, 3 43, 5 43, 8	51. 0 51. 3 51. 6 51. 9 52. 2	59, 5 59, 9 60, 2 60, 6 60, 9	68. 0 68. 4 68. 8 69. 2	76. 5 77. 0 77. 4	85, 0 85, 5 86, 0	93. 5 94. 1	102. 0 102. 6	8, 50 8, 55
8, 55 8, 60 8, 65 8, 70 8, 75 8, 80 8, 85 8, 90 8, 95 9, 00 9, 05	8. 6 8. 7 8. 7 8. 8 8. 8 8. 9 9. 0 9. 0 9. 1	17. 1 17. 2 17. 3 17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	25. 7 25. 8 26. 0 26. 1 26. 3 26. 4 26. 6 26. 7	34. 2 34. 4 34. 6 34. 8 35. 0 35. 2	42. 8 43. 0 43. 3 43. 5 43. 8	51. 3 51. 6 51. 9 52. 2	59, 9 60, 2 60, 6 60, 9	68. 4 68. 8 69. 2	77. 0 77. 4	85. 5 86, 0	94.1	102.6	8.55
8. 60 8. 65 8. 70 8. 75 8. 80 8. 85 8. 90 8. 95 9. 00 9. 05	8. 6 8. 7 8. 7 8. 8 8. 8 8. 9 9. 0 9. 0 9. 1	17. 2 17. 3 17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	25. 8 26. 0 26. 1 26. 3 26. 4 26. 6 26. 7	34. 4 34. 6 34. 8 35. 0 35. 2	43. 0 43. 3 43. 5 43. 8	51. 6 51. 9 52. 2	60. 2 60. 6 60. 9	$68.8 \\ 69.2$	77.4	86, 0			
8. 65 8. 70 8. 75 8. 80 8. 85 8. 90 8. 95 9. 00 9. 05	8. 7 8. 8 8. 8 8. 9 8. 9 9. 0 9. 0 9. 1	17. 3 17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	26. 0 26. 1 26. 3 26. 4 26. 6 26. 7	$     \begin{array}{r}       34.6 \\       34.8 \\       \hline       35.0 \\       35.2     \end{array} $	43.3 43.5 43.8	51.9 $52.2$	60. 6 60. 9	69.2			94.91		0,00
8.70 8.75 8.80 8.85 8.90 8.95 9.00	8.7 8.8 8.8 8.9 8.9 9.0 9.0	17. 4 17. 5 17. 6 17. 7 17. 8 17. 9	26. 1 26. 3 26. 4 26. 6 26. 7	$\frac{34.8}{35.0}$	$\frac{43.5}{43.8}$	52.2	60.9			86.5	95. 2	103.8	8.65
8, 75 8, 80 8, 85 8, 90 8, 95 9, 00 9, 05	8. 8 8. 8 8. 9 8. 9 9. 0 9. 0	17. 5 17. 6 17. 7 17. 8 17. 9	26. 3 26. 4 26. 6 26. 7	$35.0 \\ 35.2$	43.8			69.6	78.3	87.0	95.7	104. 4	8.70
8, 80 8, 85 8, 90 8, 95 9, 00 9, 05	8.8 8.9 8.9 9.0 9.0 9.1	17. 6 17. 7 17. 8 17. 9	26. 4 26. 6 26. 7	35. 2			61.3	70.0	78.8	87.5	96.3	105. 0	8. 75
8, 85 8, 90 8, 95 9, 00 9, 05	8.9 8.9 9.0 9.0 9.1	17. 7 17. 8 17. 9	26. 6 26. 7			52.8	61.6	70.4	79.2	88.0	96.8	105.6	8.80
8, 90 8, 95 9, 00 9, 05	8.9 9.0 9.0 9.1	17.8 17.9	26.7		44.3	53. 1	62.0	70.8	79.7	88. 5	97.4	106.2	8, 85
8, 95 9, 00 9, 05	$     \begin{array}{r}       9.0 \\       9.0 \\       9.1     \end{array} $			35. 6	44.5	53. 4	62.3	71. 2	80.1	89, 0	97.9	106.8	8.90
9.05	9.1	18.0	26. 9	35.8	44.8	53. 7	62.7	71.6	80.6	89.5	98.5	107.4	8, 95
			27.0	36. 0	45.0	54.0	63. 0	72.0	81.0	90.0	99.0	108.0	9, 00
0.10	9.1	18.1	27. 2	36. 2	45. 3	54.3	63.4	72.4	81.5	90.5	99.6	108.6	9.05
9.10		18, 2	27.3	36, 4	45.5	54.6	63.7	72.8	81.9	91.0	100.1	109.2	9.10
9, 15	9.2	18.3	27.5	36.6	45.8	54.9	64.1	73.2	82.4	91.5	100.7	109.8	9.15
9. 20	9.2	18.4	27.6	36.8	46.0	55.2	64.4	73.6	82.8	92.0	101.2	110. 4	9. 20
9, 25	9.3	18, 5	27.8	37.0	46.3	55.5	64.8	74.0	83.3	92.5	101.8	111.0	9. 25
9.30	9.3	18.6	27. 9	37.2	46.5	55.8	65.1	74.4	83.7	93. 0	102.3	111.6	9.30
9.35	9.4	18.7	28.1	37.4	46.8	56.1	65.5	74.8	84.2	93.5	102. 9 103. 4	112, 2 112, 8	9.35
9, 40 9, 45	9.4 9.5	18. 8 18. 9	28. 2 28. 4	37. 6 37. 8	47. 0 47. 3	56.4 56.7	65. 8 66. 2	$75.2 \\ 75.6$	84. 6 85. 1	94. 0 94. 5	103. 4	112.8	9.40 9.45
9. 40		19. 0				57.0	66. 5	76.0	85.5	95. 0	104. 5	114.0	9.50
9. 55	9.5 9.6	19. 0	28. 5 28. 7	38. 0 38. 2	47.5 47.8	57.3	66.9	76. 4	86.0	95. 5	105.1	114.6	9.55
9, 60	9.6	19. 2	28. 8	38.4	48.0	57.6	67. 2	76. 8	86.4	96.0	105.6	115.2	9.60
9, 65	9.7	19.3	29. 0	38.6	48.3	57. 9	67. 6	77. 2	86.9	96.5	106. 2	115.8	9.65
9. 70	9.7	19.4	29.1	38.8	48.5	58. 2	67. 9	77.6	87. 3	97.0	106.7	116.4	9.70
9.75	9.8	19.5	29.3	39. 0	48.8	58.5	68. 3	78. 0	87.8	97.5	107.3	117.0	9.75
9.80	9.8	19.6	29. 4	39. 2	49.0	58.8	68. 6	78. 4	88. 2	98.0	107. 8	117.6	9.80
9.85	9.9	19.7	29.6	39.4	49.3	59.1	69.0	78.8	88.7	98.5	108.4	118.2	9.85
9. 90	9.9	19.8	29.7	39.6	49.5	59.4	69.3	79. 2	89.1	99.0	108.9	118.8	9.90
9.95	10.0	19. 9	29.9	39.8	49.8	59.7	69.7	79.6	89.6	99.5	109.5	119.4	9, 95
10.00	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	10.00
10.05	10.1	20. 1	30. 2	40.2	50.3	60.3	70.4	80.4	90.5	100.5	110.6	120.6	10.05
10.10	10.1	20. 2	30. 3	40.4	50.5	60.6	70.7	80.8	90.9	101.0	111.1	121. 2	10.10
10. 15	10. 2	20.3	30.5	40.6	50.8	60.9	71.1	81, 2	91.4	101.5	111.7	121.8	10. 15
10. 20	10.2	20.4	30.6	40.8	51.0	61.2	71.4	81.6	91.8	102.0	112.2	122.4	10. 20
10. 25 10. 30	10.3	20. 5 20. 6	30. 8	41.0	51.3	61.5	$71.8 \\ 72.1$	82. 0 82. 4	92. 3 92. 7	102.5 $103.0$	112. 8 113. 3	123. 0 123. 6	10. 25 10. 30
10. 35	10. 3 10. 4	20. 7	30. 9 31. 1	41. 2 41. 4	51.5 51.8	61.8 62.1	72.5	82.8	93. 2	103.5	113. 9	124. 2	10. 35
10.30	10.4	20. 8	31. 2	41.6	52.0	62.4	72.8	83. 2	93. 6	104.0	114.4	124. 8	10. 30
10.45	10. 5	20. 9	31. 4	41.8	52.3	62. 7	73. 2	83.6	94.1	104.5	115.0	125. 4	10. 45
10.50	10.5	21.0	31.5	42.0	52.5	63. 0	73.5	84. 0	94.5	105.0	115.5	126.0	10.50
10.55	10.6	21.1	31. 7	42. 2	52.8	63. 3	73.9	84. 4	95. 0	105.5	116.1	126.6	10.55
10.60	10.6	21.2	31.8	42.4	53.0	63.6	74.2	84.8	95.4	106.0	116.6	127. 2	10.60
10.65	10.7	21.3	32.0	42.6	53. 3	63.9	74.6	85. 2	95. 9	106.5	117.2	127.8	10.65
10.70	10.7	21.4	32.1	42.8	53.5	64.2	74.9	85.6	96.3	107.0	117.7	128.4	10.70
10.75	10.8	21.5	32.3	43. 0	53. 8	64.5	75.3	86.0	96.8	107.5	118.3	129.0	10.75
10.80	10.8	21.6	32.4	43.2	54.0	64.8	75.6	86.4	97.2	108.0	118.8	129.6	10.80
10. 85	10.9	21.7	32.6	43.4	54.3	65.1	76.0	86.8	97.7	108.5	119.4	130. 2	10.85
10.90	10.9	21.8	32.7	43.6	54.5	65. 4	76.3	87. 2	98.1	109. 0	119.9	130.8	10.90
10.95	11.0	21.9	32.9	43.8	54.8	65. 7	76.7	87.6	98.6	109.5	120.5	131.4	10.95
11.00	11.0	22. 0	33. 0	44.0	55.0	66.0	77.0	88.0	99. 0	110.0	121.0	132.0	11.00
11.05	11.1	22. 1 22. 2	33. 2	44.2	55.3	66.3	77.4	88.4	99.5	110.5	121.6	132.6	11.05
11. 10 11. 15	11. 1 11. 2	22. 2	33, 3 33, 5	44. 4 44. 6	55. 5 55. 8	66. 6 66. 9	77. 7 78. 1	88. 8 89. 2	99. 9 100. 4	111.0 $111.5$	122. 1 122. 7	133. 2 133. 8	11. 10 11. 15
11. 20	11. 2	22. 4	33.6	44.8	56.0	67. 2	78.4	89.6	100.4	112.0	123. 2	134, 4	11. 20
11. 25	11.3	22.5	33.8	45. 0	56.3	67.5	78.8	90.0	101.3	$\frac{112.0}{112.5}$	123. 2	135. 0	
11. 30	11.3	22. 6	33. 9	45. 2	56.5	67.8	79.1	90. 0	101. 3	112. 5	123.8	135. 0	11.25 11.30
11. 35	11. 4	22. 7	34.1	45, 4	56.8	68.1	79.5	90. 4	101. 7	113.5	124. 3	136. 2	11.35
11. 40	11.4	22.8	34. 2	45. 6	57.0	68. 4	79.8	91. 2	102. 6	114.0	125. 4	136, 8	11.40
11, 45	11.5	22.9	34. 4	45. 8	57.3	68.7	80.2	91.6	103. 1	114.5	126. 0	137. 4	11. 45

Page 684]

#### TABLE 13.

For finding the Sun's change of Right Ascension for any given number of hours.

Hourly						Number	of hours						Hourly
varia- tion.	13	14	15	16	17	15	19	20	21	22	23	24	varia- tion.
8.	7.	g	8.	8.	£.	£.	ε.	8.	8.	8.	8,	8.	6.
8,50	110.5	119. 0	127.5	136, 0	144.5	153, 0	161.5	170, 0	178.5	187. 0	195.5	204.0	8.50
8, 55 8, 60	111.2	119.7 120.4	$\frac{128.3}{129.0}$	136.8	145, 4 146, 2	153. 9	162. 5 163. 4	171.0	179.6	188.1	196. 7	205. 2	8,55
8,65	112.5	121. 1	129. 8	137, 6 138, 4	147. 1	154. 8 155. 7	164. 4	172. 0 173. 0	180. 6 181. 7	189. 2 190. 3	197. 8 199. 0	206. 4 207. 6	8, 60 8, 65
8, 70	113.1	121.8	130, 5	139. 2	147.9	156, 6	165. 3	174.0	182. 7	191. 4	200.1	208.8	8.70
8, 75	113, 8	122.5	131.3	140.0	148, 8	157. 5	166, 3	175.0	183. 8	192.5	201.3	210.0	8.75
8,80	114.4	123.2	132.0	140.8	149, 6	158, 4	167. 2	176.0	184. 8	193. 6	202.4	211.2	8.80
8, 85	115.1	123, 9	132.8	141.6	150, 5	159.3	168.2	177.0	185, 9	194.7	203.6	212.4	5.85
8, 90 8, 95	115, 7 116, 4	124.6 125.3	133.5	142.4 143.2	151, 3 152, 2	$\frac{160, 2}{161, 1}$	169.1	178.0	186. 9	195. 8	204. 7	213.6	8.90
9, 00	117.0	$\frac{126.0}{126.0}$	134, 3 135, 0	143. 2	153. 0	162. 0	170. 1 171. 0	179. 0	$\frac{188.0}{189.0}$	196. 9	$\frac{205,9}{207,0}$	214.8	8, 95
9, 05	117.7	126, 0	135, 8	144.5	153. 9	162.0 162.9	172.0	181.0	190.1	198.0	208. 2	216.0	9.00
9, 10	118, 3	127. 4	136. 5		154. 7	163. S	172.9	182. 0	191. 1	200. 2	209, 3	218.4	9. 03
9, 15	119.0	128.1	137.3	146, 4	155, 6	164.7	173.9	183, 0	192.2	201.3	2,9.5	219.6	9.15
9, 20	119, 6	128, 8	138.0	147. 2	156.4	165, 6	174.8		193, 2	202.4	211.6	220, 8	9, 20
9, 25	120.3	129.5	138, 8	148, 0	157.3	166, 5	175.8	185, 0	194.3	203.5	212.8	222, 0	9, 25
9, 30	120.9	130.2	139.5	148.8	158.1	167. 4	176.7	186.0		204.6	213.9	223, 2	9.30
9, 35 9, 40	121. 6 122. 2	130, 9 131, 6	140. 3 141. 0	149. 6 150. 4	159, 0 159, 8	168.3 $169.2$	177. 7 178. 6	187. 0 188. 0	196. 4 197. 4	205, 7 206, 8	215, 1 216, 2	224. 4 225. 6	9, 35 9, 40
9, 45	122. 9	132. 3	141.8	151. 2	160.7	170. 1	179.6	189, 0	198.5	207. 9	217. 4	226, S	9, 45
9, 50	123, 5	133, 0	142.5	152.0	161.5	171.0	180, 5	190.0	199.5	209. 0	218.5	228. 0	9.50
9, 55	124. 2	133, 7	143. 3	152. S	162.4	171.9	181.5	191.0	200.6	210. 1	219.7	229, 2	9.55
9, 60	124.8	134.4	144.0	153. 6	163.2	172.8	182, 4	192.0	201. 6	211. 2	220, S	230, 4	9, 60
9, 65	125.5	135, 1	144.8	154, 4	164, 1	173. 7	183, 4	193, 0	202. 7	212.3	222.0	231.6	9, 65
9, 70 9, 75	126. 1	135, 8	145, 5 146, 3	155.2	164. 9 165. 8	$\frac{174.6}{175.5}$	184.3	194. 0	203, 7	213.4	223. 1	232.8	9.70
9, 49	126, 8 127, 4	136, 5 137, 2	140. 3	156, 0 156, 8	166, 6	176. 4	185, 3 186, 2	195. 0 196. 0	204, 8 205, 8	214. 5 215. 6	224. 3 225, 4	$\frac{234.0}{235.2}$	9, 75 9, 80
9, 85	128. 1	137. 9	147. 8	157.6	167.5	177.3	187. 2	197. 0	206. 9	216. 7	226, 6	236, 4	9. 85
9, 90	128.7	138. 6	148.5	158.4	168.3	178.2	188.1	198.0	207. 9	217. 8	227.7	237. 6	9.90
9, 95	129.4	139.3	149. 3	159.2	169.2	179.1	189.1	199, 0	209.0	218, 9	228.9	238, 8	9.95
10.00	130.0	140.0	150, 0	160, 0	170, 0	180.0	190. 0	200.0	210.0	220.0	230, 0	240.0	10.00
10.05	130.7	140.7	150.8	160.8	170.9	180. 9	191.0	201.0	211.1	221. 1	231. 2	241.2	10.05
10, 10 10, 15	131. 3 : 132. 0	141. 4 142. 1	151. 5 152. 3	161, 6 $162, 4$	171.7 $172.6$	181. 8 182. 7	191. 9 192. 9	202. 0	212. 1 213. 2	222. 2 223. 3	232. 3 233. 5	242. 4 243. 6	10. 10 10. 15
10. 20	132.6	142.8	153.0	163. 2	173. 4	183.6	193.8	204.0	214. 2	224. 4	234. 6	244.8	10. 20
10. 25	133, 3	143.5	153, 8	164. 0	174.3	184.5	194. 8	205. 0	215, 3	225. 5	235. 8	246. 0	10. 25
10.30	133. 9	144.2	154. 5	164. S	175. 1	185. 4	195. 7	206.0	216.3	226, 6	236, 9	247. 2	10.30
10.35	134, 6	144.9	155.3	165. 6	176.0	186. 3	196.7	207.0	217.4	227. 7	238. 1	248.4	10.35
10.40	135. 2	145.6	156. 0	166.4	176.8	187. 2	197.6	208. 0	218, 4 219, 5	228. 8	239, 2 240, 4	249, 6	10, 40
10, 45	135.9 136.5	146.3 147.0	156, 8 157, 5	$\frac{167.2}{168.0}$	$\frac{177.7}{178.5}$	$\frac{188.1}{189.0}$	198, 6 199, 5	210, 0	220.5	229, 9	241. 5	250, 8 252, 0	10, 45
10. 55	137. 2	147. 7	158.3	168. 8	179.4	189, 9	200.5	211.0	221.6	$\begin{bmatrix} 231.0 \\ 232.1 \end{bmatrix}$	242. 7	253, 2	10.55
10, 60	137. 8	148, 4	159. 0	169. 6	180, 2	190, 8	201.4	212.0	200 6	233. 2	243. 8	254. 4	10.60
10.65	138.5	149.1	159, 8	170.4	181.1	191.7	202. 4	213, 0	223, 7	234.3	245.0	255, 6	10.65
_10.70	139, 1	149.8	160.5	171. 2	181.9	192, 6	203.3	214. 0	224. 7	235.4	246.1	256, 8	10, 70
10.75	139, 8	150.5	161.3	172.0	182, 8	193, 5	204.3	215, 0	225, 8	236. 5	247.3	258. 0	10, 75
10, 80 10, 85	140. 4 141. 1	151. 2 151. 9	162. 0 162. 8	172. 8 173. 6	183, 6 184, 5	194, 4 195, 3	205, 2 206, 2	216. 0 217. 0	226, S 227, 9	237. 6 238. 7	248, 4 249, 6	259, 2 260, 4	10, 80
10, 83	141.7	152.6	163. 5	174. 4	185. 3	196. 2	206. 2	218.0	228. 9	239. 8	250.7	261, 6	10, 90
10.95	142.4	153.3	164.3	175.2	186, 2	197. 1	208. 1	219. 0	230, 0	240. 9	251.9	262.8	10.95
11, 00	143.0	154.0	185. 0	176.0	187. 0	198, 0	209.0	220. 0	231.0	242.0	253.0	264.0	11.00
11, 05	143.7	154.7	165, 8	176.8	187. 9	198, 9	210, 0	221.0	232, 1	243.1	254.2	265, 2	11.05
11. 10	144.3	155.4	166. 5	177.6	188.7	199, 8	210.9	222, 0	233. 1	244. 2	255.3	266, 4	11.10
11, 15	145.0	156, 1 156, 8	167.3	178.4	189, 6 $190, 4$	200, 7	211.9 212.8	223. 0 224. 0	234, 2	245, 3 246, 4	256, 5 257, 6	267, 6 268, 8	11. 15 11. 20
$\frac{11, 20}{11, 25}$	[145, 6] $[146, 3]$	156.8 $157.5$	$\frac{168.0}{168.8}$	179.2 180.0	191. 3	201. 6	212. 8	224. 0 225. 0	236, 3	240. 4	258, 8	270, 0	$11.20_{-}$ $11.25_{-}$
11, 25	146. 3	158. 2	168.8	180. 0	191. 3	202. 5	214. 7	226, 0	236. 3	247.5	259. 9	271, 2	11. 25
11, 35	147. 6	158.9	170.3	181.6	193. 0	204 3	215.7	227. 0	238. 4	249. 7	261. 1	272.4	11.35
11.40	148.2	159. 6	171.0	182. 4	193.8	205, 2	216. 6	228, 0	239. 4	250, 8	262. 2	273, 6	11.40
11.45	148.9	160, 3	171.8	183. 2	194.7	206. 1	217.6	229.6	240.5	251.9	263.4	274.8	11 45

TABLE 14. Dip of the Sea Horizon.

Height of	Dip of the
the Eye.	Horizon.
## Eye.    Fect.   1	Morizon.  7 9 1 23 1 42 11 1 22 36 2 11 42 2 36 3 15 3 24 2 36 3 15 3 24 4 36 4 4 23 4 36 4 4 42 4 54 5 5 5 5 17 5 27 5 33 8 5 5 5 48 8 5 5 5 3 5 5 48 8 29 6 6 7 7 35 6 6 7 7 35 6 6 7 7 35 7 8 12 8 8 29 9 18

95

100

9 33

9 48

TABLE 15. Dip of the Sea at different Distances from the Observer.

Dist. of			Height	of the Eye	above the	Sea in Fee	t.	
Land in a Miles.	õ	10	15	20	25	30	35	40
	,	,	,	,	,	,	,	,
1	11	23	34	45	57	68	79	91
1/2	6	12	17	23	28	34	40	45
4	4	8	12	15	19	23	27	30
1	3	6	9	12	15	17	20	23
11	3	5	7_7	10	12	14	16	19
$1\frac{1}{2}$	3	4	6	8	10	12	14	16
2	2	4	5	7	8	9	11	12
$2\frac{1}{2}$	2	3	4	6	7	8	9	10
3	2	3	4	5	6	7	8	9
$3\frac{1}{2}$	2	3	4	5 5 5	6	6	7	8
4	2	3	4	5	5	6	7	7
5	2	3	4	4	5	6	6	7
6	2	3	4	4	5	5	6	6

Note to Table 15.—The numbers of this Table below the black lines are the same as are given in Table 14, the visible horizon corresponding to those heights not being so far distant as the land.

85

90

Parallax in Altitude of a Planet.

apt	ninin	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
	3.5"	88888888888888888888888888888888888888	
	1.0	88888888888855555555555	
	3 21	8882828285555455550000000000000000000000	
	15	22222222222222222222222222222222222222	
	195	9822225xr5854575xxr60042040	
	17	8888888872822522220x2244x22144	
	177	4484877775775777777777777	
	20	8888828755875575575988600000000000000000000000000000000000	
	21	88822255224532552xc2cc4ess=0	
	÷ 74	222777777777757777	
	ŝ	9827727747477777777	
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Horizontal parallax of planet	1.5"	66483446652°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	
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TABLE 18.

# Augmentation of the Moon's Semidiameter.

#### TABLE 19.

Augmentation of the Moon's Horizontal Parallax.

de			∋'s Semid	iameter.			atitude of observa- tion.	D's	Hor, Paral	lax.
Apparent altitude of D.	14'	15	,	1	6′	17'	Latitude of observa- tion.			
Ap	30"	0"	30"	0"	30"	0"	Lat	53'	57′	61,
	,,	"	"	"	"	"	0	"	"	"
0	0.1	0.1	0.1	0.1	0.2	0.2	0	0.0	0.0	0.0
2 4	0.6	0.6	0.7	0.7	0.8	0.8	2	0.0	0,0	0.0
4	1.0	1, 1	1. 2 1. 7	1.3	1.4	1.5	-1	0.1	0.1	0.1
6	1.5	1.6	1.7	1.9	2.0	2.1	6	0.1	0.1	0.1
- 8	2.0	2.1	2.3	2.4	2.6	2.7	- 8	0. 2	0.2	0.2
10	2.4	2.6	2.8	3.0	3. 2	3. 4	10	0.3	0.3	0.4
12	2. 9	3. 1	3.3	3.6	3.8	4.0	12	0.5	0.5	0.5
14	3.4	3.6	3.9	4. I 4. 7	4.4	4.7 5.3	14 16	0.6	0.7	0.7
16 18	3.8	4.1	4.4	5, 2	5. 0 5. 6	5. 9	18	1.0	0. 9 1. 1	0.9 1.1
20	4.7	5. I	5, 4	5.8	6.1	6, 5	20	1.2	1.3	1.4
22	5. 2	5. 5	5. 9	6.3	6. 7	7.1	22	1.5	1.6	1.7
24	5, 6	6.0	6.4	6.8	7.3	7.7	24	1.7	1. 9	2.0
26	6.0	6.5	6.9	7.4	7.8	8.3	26	2.0	2. 2 2. 5	2.3
28	6.5	6.9	7.4	7.9	8.4	8, 9	28	2.3		2.6
30	6.9	7.3	7. 9	8.4	8.9	9.5	30	2.6	2.8	3.0
32	7.3	7.8	8.3	8.9	9.4	10.0	32	2. 9 3. 3	3. 1	3.4
34	7.7	8. 2	8.8	9.4	10.0	10.6	34	3.3	3.5	3.8
36	8.1	8.6	9. 2 9. 7	9.8	10.5	1I. 1	36	3.6	3.9	4. 1 4. 6
$\frac{38}{40}$	8.4	9.0		10.3	10.9	11.6	38	4.0	4.3	5.0
. 42	8. 8 9. 2	9. 4 9. 8	10. 1 10. 5	11. 2	11. 4 11. 9	12. 1 12. 6	40 42	4. 7	4. 6 5. 0	5.4
44	9. 2	10. 2	10. 9	11.6	12.3	13. I	44	5.0	5.4	5.8
46	9.8	10. 5	11.3	12.0	12.8	13. 6	46	5.4	5. 8	6. 2
48	10. 2	10.9	11.6	12.4	13. 2	14.0	48	5.8	6. 2	6.6
50	10.5	11.2	12.0	12, 8	13, 6	14. 4	50	6.1	6.6	7.1
52	10.8	11.5	12.3	13.1	14.0	14.9	52	6.5	7.0	7.5
54	11.1	11.8	12.7	13.5	14.4	15. 3	54	6.8	7.4	7. 9 8. 3
56	11.3	12.1	13.0	13.8	14.7	15.6	56	7.2	7.7	8.3
58	11.6	12.4	13.3	14.1	15.1	16.0	58_	7.5	8.1	8.6
60 62	11.8	12. 7 12. 9	13.5	14.4	15. 4	16.3	60	7.8	8.4	9.0
64	12. 1 12. 3	13. 2	13. 8 14. 1	14. 7 15. 0	15, 7 16, 0	16. 6 16. 9	62 64	8. 1 8. 4	8. 8 9. 1	9. 4 9. 7
66	12.5	13. 4	14.3	15. 2	16. 2	17. 2	66	8.7	9. 1	10.0
68	12.7	13. 6	14.5	15.5	16.5	17.5	68	9.0	9.7	10. 3
70	12.9	13.8	14.7	15. 7	16.7	17.7	70	9. 2	9.9	10.6
72	13.0	13.9	14.9	15.9	16. 9	17.9	72	9.5	10. 2	10.9
74	13.1	14.1	15.0	16.0	17. 1	18.1	74	9. 7	10.4	11.1
76	13.3	14. 2 14. 3	15. 2	16.2	17. 2	18.3	76	9.8	10.6	11.3
78	13.4		15. 3	16.3	17.4	18.4	78	10.0	10.8	11.5
80	13. 5	14.4	15.4	16. 4	17.5	18.6	80	10. 1	10. 9	11.7
82	13.5	14.5	15.5	16.5	17.6	18.7	82	10.3	11.0	11.8
84	13.6	14.6	15. 6	16.6	17.6	18.7	84	10.3	11.1	11.9
86   88	13. 6 13. 7	$14.6 \\ 14.6$	15. 6 15. 6	16. 6 16. 7	17. 7 17. 7	18. 8 18. 8	86 88	10. 4 10. 4	11. 2 11. 2	12.0 12.0
90	13.7	14. 6	15. 6	16. 7	17.7	18.8	$-\frac{88}{90}$	10. 4	11. 2	12.0
30	10. /	14.0	10.0	10.7	11, 1	10, 0	90	10. 0	п. э	12.0

21594°-14--37

# TABLE 20A.

#### Mean Refraction.

	pparent Altitude,	Mean Re- fraction.	Apparent Altitude,	Mean Re- fraction,	Apparent Altitude,	Mean Re- fraction.	Apparent Altitude.	Mean Re- fraction.	Apparent Altitude.	Mean Re- fraction.
ľ	0 /	7 "	0 /	, , , ,	0 /	, ,,	0 /	, ,,	0 /	, ,,
1	0.00	92.00.1	9 30	5 35.1 5 32.4	15 00	3 34.1	25 00	2 4.4 2 3.4 2 2.5	42 00	1 04.7
1	0 00	36 29, 4 24 53, 6	35 40	5 32.4 5 29.6	10 20	3 31.7 3 29.4	10 20	2 3.4 2 2.5	20 40	1 03.9 1 03.2
ı	2 00	18 25, 5	45	5 27. 0	30 -	3 27. 1	3)	2 1.6	43 00	1 02.4
L	3 00	14, 25, 1	50	5 24.3	40	3 24.8	40	2 0.7	20	1 01, 7
П	4 00	11 44.4	55	5 21.7	50	3 22.6	70	1 59, 8	40	1 01.0
П	5 00	9.52.0	10 00	5, 19, 2	16 00	3 20, 5	26 (0	1 58.9	44 00	1 00, 3
ı	05	9 44.0	05	5 16.7	10	3/18.4	1€	1 58.1	20	0.59,6
П	10	9/36, 24	10	5 14.2	20	3.46.3	20	1 57.2	40	0.58.9
1	15	9 2.	15	5 11.7	30	3 14.2	30	1 56, 4	45 00	0.58, 2
1	20 25	9 21.2 9 14.0	20 25	5 9.3 5 6.9	40 50	3 12. 2 3 10. 3	40 ± 50	1 55, 5 1 54, 7	20	0 57, 6 0 56, 9
H	5 30	9 7.0	10 30	$\frac{3}{5} - \frac{6}{4}, \frac{9}{6}$	17 00	3 8.3	27 00	1 53. 9	$-\frac{40}{4600}$	0.56, 2
1	35	9 0.1	35	5 2.3	10	3 6.4	10	1 53, 9	20	0 55.6
ı	40	8 53.4	40	5 0.0	20	3 4.6	20	1 52.3	30	0.55.0
ı	45	8 46, 8	45	4 57. 8	30	3 2.8	30 1	1 51.5	47 00	0.54.3
ı	50	8 40, 4	50	4 55, 6	40	-3 - 1.0	40	1 50.7	20	0.53, 7
L	55	8 34.2	_55	4 53, 4	50	2, 59, 2	50	1 50.0	40	0_53, 1_
	6 00	8, 28, 0	11 00	4 51.2	18 00	2.57.5	28 00	1 49, 2	48.00	0.52, 5
1	05	8 22.1	05	4 49, 1	10	2 55, 8	20	1 47.7	49 00	0 50, 6
1	10	8 16.2	10	4 47.0	20 +	2 54.1 2 52.4	40	1 46.2	50 00	0 48, 9
ı	$\frac{15}{20}$	8 10.5 8 4.8	15 20	4 44.9	30 40	2 52.4 2 50.8	29 00 20	1 44.8 1 43.4	51 00 52 00	0 47, 2 0 45, 5
ł	20 25	7 59, 3	20 25	4 40, 9	50	2 49.2	40	1 43.4	53 00	0 43, 5
-	6 30	7 53, 9	$=\frac{23}{11 \cdot 30}$	$=\frac{4.38.9}{4.38.9}$	19 00	2 47. 7	30 00	1 40, 6	54 00	$-\frac{0.43.3}{0.42.3}$
1	35	7 48.7	35 :	4 36, 9	10 10	2 46.1	20	1 39.3	55 00	0 40.8
ı	40	7 43.5	40	4 35.0	20	2 44. 6	40	1 38.0	56 00	0.39, 3
1	45	7 38, 4	45	4 33.1	30	2 - 43, 1	31.00	1 36, 7	57 00	0.37, 8
1	50	7 33, 5	50	4 31.2	40	2/41.6	20	1 35, 5	58 00	0.36,4
_	55	7 28.6	55	4 29, 4	50	2/40, 2	40	1 34.2	59 00	0 35, 0
1	7 00	7 23.8	12 00	4 27.5	20 00	2 38.8	32 00	1 33.0	60 00	0.33, 6
1	05	7 19.2	05	4 25.7	10	2 37, 4	20	1 31.8	61 00	0.32, 3
ı	10 15	7 14, 6 7 10, 1	10 15	4 23.9 : 4 22.2	20 30	2 36, 0 2 34, 6	33 00	1 30.7 1 29.5	62 00	0 31.0
ı	15 20	7 10, 1 7 5, 7	20	4 22.2	40	2 34. 6	20	1 28.4	64 00	0 28, 4
1	25	7 1.4	25	4 18, 7	50	2 32, 0	40	1 27. 3	65 00	0 27. 2
	7 30	6 57.1	12 30	4 17. 0	21 00	2 30. 7	34 00	1 26. 2	66 00	0 25, 9
	35	6 53, 0	35	4 15.3	10	2 29.4	20	1 25. 1	67 00	0 24.7
ı	40	6.48,9	40	4 13.6	20	2.28.1	40	1 24.1	68 00	0.23, 6
ı	45	6 44 9	45	-4.12.0	30 →	2 26, 9	35 00	1 23, 1	69 00	0.22.4
ı	50	6 41.0	50	4 10, 4	40	2 25.7	20	1 22.0	70 00	0 21.2
	55	6 37.1	55 ,	4 8.8	50	2 24.5	40	1 21.0	71 00	0 20, 1
	8 00	6 33, 3	13 00	4 7.2	22 00	2 23.3	36 00	1 20.1	72 00	0 18.9
ı	05 10	6 29, 6 6 25, 9	05 10	4 5, 6	10 20	2 22.1 2 20.9	20 40	1 19.1 1 18.2	73 00   74 00	0 47, 8 0 16, 7
1	15	6 22, 3	15	4 4.1	30	2 19.8	37 00	1 17.2	75 00	0 15, 6
1	20	6 18.8	20	1 1.0	10	2 18.7	20	1 16.3	76 00	0 14.5
ı	25	6 15.3	25	3 59, 6	50	2 17.5	40 .	1 15.4	77 00	0 13.5
1-	8 30	6.11.9	13.30	3.58, 1	$=$ 23 00 $_{\odot}$	2 16, 4	38, 00 (		78 00	0 12.4
1	35	6 8.5	35	3 56, 6	10 (	2.15.4	20,	1 ,3.6	79 00	0.11.3
ı	40	-6 - 5, 2	10	3.55, 2	20	2 14.3	140	12/7	80 00	0.40,3
1	45	6 2.0	45	3 53.7	30	2 13.3 2 12.2	39 00	1 11,9	81 00	0 9, 2
1	50 55	5 58, 8	50 '	3 52, 3	40 50		20 40	1 11.0 1 10.2	82 60 83 00	0 8.2
-		5 55, 7	55	3 50, 9			40 00.	1 9, 4	84 00	0 6.1
1	9 ()()	5 52 6	14 00	3 49, 5 3 46, 8	24 Oct . 10	2 10.2	40 00.	1 8, 6	95 (1) (	0 5.1
1	10	5 46, 6	20	3 40, 8	20 1	2 8.2	40	1 7.8	86 (0)	0 4.1
ı	15	5 43 6	30	3 41.6	30	2 7.2	41 00	1 7.0	87 00	0 3.1
	20	5 40, 7	10	3 39, 0	10	2 6.2	20	1 6.2	85 00	0 - 2, 0
1	25	5 37, 9	50	3 36, 5	50	2 5.3	40	1 5.4	~it (i0)	0 1 0
1	9.30	5, 35, 1	15 00	3 34 1	25 (0)	2 4.4	42 00	1 4.7	(10) ()()	0, 0, 0
L										

#### Correction of the Sun's Apparent Altitude for Refraction and Parallax,

		(Ba	rometer, 30 in	cnes. Fab	renneit's The	rmometer,	50°. J		
Apparent Altitude.	Mean Re- fraction and Parallax	Apparent Altitude.	Mean Re- iraction and Parallax ⊙.	Apparent Altitude.	Mean Re- fraction and Parallax @	Apparent Altitude.	Mean Re- fraction and Parallax ⊙.	Apparent Altitude.	Mean Re- fraction and Parallax ①.
0 /	, ,,		, ,,	0 ,	, ,,	0 /	, ,,	0 /	, "
		9.30	5 26	15 00	3 25	25 00	1 56	42 00	0.58
0 00	36 20 24 45	35 40	5 23 5 21	10 20	3 24 3 21	$\frac{10}{20}$	1 55 1 55	20 40	0 57 0 56
2 00	18 17	45	5 18	30	3 19	30	1 54	43 00	0 55
3 00	14 16	50	5 15	40	3 17	40	1 53	20	0.55
4 00	11 35	55	5 13	50	3 15	50	1 52	40	0.54
5 00	9 43	10.00	5 10	16 00	3 13	26 00	1 51	44 00	0.53
05	9 35 9 27	05	5 8 5 5	10 20	3 10 3 8	10	1 50 1 49 t	20	0 53 0 52
10 15	9 27 9 20	10 15	5 3	30	3 8 3 6	20 30	1 49 t 1 48	(∂ > 40 45 00	0 52 0 52
20	9 12	20	5 0	40	3 4	40	1 48	20	0 52
25	9 5	25	4.58	50	3 2	50	1 47	40	0.51
5 30	8 58	10.30	4 56	17 00	3 0	27 00	1 46	46 00	0.50
35	8 51	35	4 53	10	2 58 2 57	10	1 45	20	0.50
40 45	8 44 8 38	40 45	4 51 4 49	20 30	2 57 2 55	20 30	1 44 I 44	40 47 00	0 49 0 48
50	8 31	50	4 47	40	2 53	40	1 43	20	0 48
55	8 25	55	4 44	50	2 51	50	1 42	40	0 47
6 00	8 19	11 00	4 42	18 00	2 50	28 00	1 41	48 00	0 47
05	8 13	05	4 40	10	2 48	20	1 40	49 00	0 45
10 15	8 7 8 2	10 15	4 438 4 36	20 30	2 46 2 44	$\frac{40}{2900}$	1 38 1 37	50 00 51 00	0 43
20	7 56	20	4 34	- 40	2 43	20 00	1 35	52 00	0 40
25	7 50	25	4 32	50	2 41	40	1 34	53 00	0 39
6 30	7 45	11 30	4 30	19 00	2 40	30 00	1 33	54 00	0 37
35	7 40	35	4 28	10	2 38	20	1 31	55 00	0 36
~ 40 ~ 45	7 35 7 29	40 45	4 26	20 30	2 37 2 35	31 00	1 30 1 29	56 00 57 00	0 34 0 33
50	7 25	50	4 22	40	2 34	20	1 28	58 00	0 32
55	7 20	55	4 20	50	2 32	40	1 26	59 00	0 31
7 00	7 15	12 00	4 19	20 00	2 31	32 00	1 25	60 00	0.30
05	7 10	05	4 17	10	2 29	20	1 24	61 00	0 28
10	7 6 7 1	10	4 15	20	2 28 2 27	40	1 23 1 22	62 00	0 27 0 26
15 20	6 57	15 20	4 13 4 11	30 40	2 27	33 00 20	1 22 1 20	63 00 64 00	0 26 0 24
25	6 52	25	4 10	50	2 24	40	1 19	65 00	0 23
7 30	6.48	12 30	4 8	21 00	2 23	34 00	1 18	66 00	0 22
35	6 44	35	4 6	10	2 21	20	1 17	67 00	0 21
40	6 40 6 36	40	4 5 4 3	20 30	2 20 2 19	95 00	1 16	68 00	0 21
45 50	6 36 6 32	45 50	4 3	40	2 19 2 18	35 00 20	1 15 1 15	69 00 70 00	0 19 0 18
55	6 28	55	4 0	50	2 17	40	i 14	71 00	0 17
8 00	6 24	13 00	3 58	22 00	2 15	36 00	1 13	72 00	0 16
05	6 21	05	3 57	10	2 14	20	1 12	73 00	0.16
10	6 17	10 15	3 55	20	2 13	40	1 11	74 00	0 15
15 20	6 13 6 10	$\frac{13}{20}$	3 54 3 52	30 40	2 12 2 11	37 00 20	1 10 1 9	75 00 76 00	0 14
25	6 6	25	3 51	50	2 10	40	1 8	77 00	0 12
· 8 30	6 3	13 30	3 49	23 00	2 8	38 00	1 8	78 00	0 10
35	6 0	35	3 48	10	2 7	20	1 7	79 00	0 9
40	5 56	40	3 46	20	2 6 2 5	20 00	1 6	80 00	$\begin{array}{ccc} 0 & 8 \\ 0 & 7 \end{array}$
45 ⁻ 50 !	5 58 5 50	45 50	3 45 3 43	30 40	2 5	39 00 20	1 5 1 4	81 00 82 00	0 7
55	. 5 47	• 55	3 42	50	2 3	40	1 3	83 00	0 6
9 00	s 5 44	. 14 00	3 41	24 00	2 2	40 00	1 2	84 00	0 5
05	5 41	10	3 38	10	2 1	20	1 2	85 00	0 4
10	5 38	20	3 35	20	2 0	40	1 1	86 00	0 3
15 20	5 35 5 32	30 40	3 33 3 30	, 30	1 59 1 58	41 00 20	$\begin{array}{ccc} 1 & 0 \\ 0 & 59 \end{array}$	87 00 88 00	0 2
25	5 29	50	3 28	50	1 57	40	0 58	89 00	0 1
9 30	5 26	15 00	3 25	25 00	1 56	42 00	0.58	90.00	0 0
		10 00	3 -11	2.50	1	120			

Page 692]

## TABLE 22.

Correction of the Mean Refraction for the Height of the Thermometer.

Ther.										Mean	ı ref	ractio	n.									Ther.
Subt.		0'		1′	:	2'	:	3'		۲		5'		K"		"		*′	9		10	Subt.
	0"	30"	0"	30"	0"	30"	0"	30"	0"	30"	0"	30"	0′′	1,3"	0"	30"	0"	30"	0//	30"	0"	
	"	P	,,	"	"	//	"	"	"	"	"	"	"	"	"	n	"	"	11	"	"	
50 51	0	()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50 51
52	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2 2	2 3	2 3	2 3	3	2	3.4	52 53
53 54	0	()	0	1	1	1	1	1 2	1 2	2	23.22	3	2 3	3	3	4	4	4	5	4 5	5	54
55	0	0	1	1	1	$\frac{1}{2}$	2	2 2	2 3	3	3	3	4	4 5	5	5 6	-5 6	5	6 7	6	6 8	55 56
56 57	0	0	1	1	1 2	2	2 2	- 3	3	4	4	4 5	5	6	- 6	- 6	7	8	S	8	9	57
58 59	0	0	1	1 2	2 2 2	2 3	3	3	4	4 5	5	5	6	15	7 8	7.8	8 9	9 10	9 10	10 11	10	58 59
-60	-0^	1	1	-2	$-\frac{7}{2}$	$-\frac{3}{3}$	3	-4	5	$-\frac{7}{5}$	6	7	7	4	-9	;;-	10	11	11	12	13	60
61 62	0	1	1	2	3	3	4	1 5	5 6	6	7	7	8	9	10	10 11	11	12 13	12 14	13 15	14 15	61 62
63	0	1	1	21 21 21	3	4	- 5	.5	6	71-17	8	S	- 51	10	11	12	13	14	15	16	17	63
$=\frac{64}{65}$	0	<u>1</u>	2		$\frac{3}{3}$	-1-	_5 5	6 6	$-\frac{7}{7}$	- 7	8 9	9	$\frac{10}{11}$	$-\frac{11}{12}$	$\frac{12}{13}$	13_	14 15	$\frac{15}{16}$	$\frac{16}{17}$	$\frac{17}{18}$	18 19	64 65
66	0	- 1	2 2	3	4	-5	6	6	77	8	9	10	11	12	14	15	16	17	18	19	20	-66
67	0	1	2 2	3 ?	4	5 5	6	7	8	9	10	11	12 13	13	14 15	16 16	17 18	$\frac{18}{19}$	$\frac{19}{20}$	20 22	22 23	67 68
69	0	1	2	3	4	_5_	7	8	9	10	11	12	13	15	16	17	19	20	21	23	24	- 69
70 71	0	1	2 2	3 4	5	6 6	77	8	9	10	$\frac{12}{12}$	12 13	14 15	16 16	17 18	18 19	20 20	21 22	22 23	24 25	25 27	70 71
71 72	0	1	2 3	4	5	6 7	8	9	10	11 12	13 13	14 14	16 ·	17 18	18 19	20 21	21 22	23 24	25 26	26 27	28 29	72 73
73 74	0 0	1	3	4	5	7	8	10	11	12	14	15	17	18	20	22	23	25	27	28	30	74
75	0	1	3	4	6	7 7	8 9	10	11	13	14 15	16 16	18 18	19	21 22	22 23	24 25	26 27	28 29	29	31 32	75 76
76 77 78	0	1	3	5	6	- 8	9	11	12	14	16	17	19	21	22	24	26	28	30	32	34	77
78 79	0	2 2	3	5	6	8	9	11	13 13	14 15	16 17	18 18	20 20	21 22	23 24	25 26	27 28	29 30	31 32	33	35 36	78 79
$-\frac{10}{80}$	0	- 2	3	5	7	8	10	$^{-}12$	11	15	17	19	21	23	25	27	29	31	33	35	37	80
81 82	0	9	3	5	7	9	10	12 13	14	16 16	18	20 20	21 22	24	26 26	28 28	30 31	32	34 35	36 37	38	81 82
83	0	2	4	5	7	9	11	13	15	17	19	21	23	25 26	27	29 30	31	34	36 37	38 39	41 42	83 84
$=\frac{84}{85}$	$\frac{0}{0}$	-9	4	6	8	$\frac{9}{10}$	$\frac{11}{12}$	$-\frac{13}{14}$	15 16	17	$\frac{19}{20}$	21	$\frac{23}{24}$	26	28	31	$\frac{32}{33}$	35	38	40	43	85
86	0	5	4	- 6	-8	10	12	14	16	18	$\frac{20}{21}$	23	25 25	27 28	29	32 32	34 35	37 38	39 40	42 43	44 45	86 87
87 88	0	2	4	6	8	10 10	12 13	14 15	17 17	19 19	21	23 24	26	28	31	33	36	38	41	41	46	88
- 89	0	2	4	6	9	11	13 13	$\frac{15}{16}$	$\frac{17}{18}$	20	22	24 25	27 27	29 30	32	34	37 38	$\frac{39}{40}$	42	45	48	89
90	0	21 22 22 22 22 22 22 22 22 22 22 22 22 2	14	7	9	11	14	16	18	21	23	25	28	31	33	36	39	41	44	47	50	91
92 93	0	2	5	7	9	11 12	14	16 17	19	21	24 24	26 27	29	31 32	34 35	37	39	42 43	45 46	48	51 52	92 93
91	0		5	7	10	12	14	17	19	22	25	27	30	33	35	38	41	44	47	50	53	94
95 96	0	2	5	7	10	12 12	15 15	17	20 20	22 23	$\frac{25}{26}$	28 28	30	33	+36 37	39 40	42	45 46	48	51 52	54	95 96
97	0	3	5	8	10	1:3	15	18	21	23	26	29	32	35	38	41	44	47	50	53	56	97
98 99	0	3	5	8	11	13	16 16	18 19	21 21	24 24	27	29	32	35 36	38 39	41 42	41	48 49	51	54 55	58 59	98 99
-100	0	3	5	S	11	13	16	19	22	25	28	31	34	37	40	43	46	50	53	56	60	100
	0.	307	0"	30"	OF?	30"	0"	30"	0"	30"	07	80"	W	30"	0"	30"	0"	30"	0"	30"	0"	Subt.
-		cř		r		5.		a'		41		ō.		61		7.		41		ο, –	10	
T				-				-		Mea	n re	fracti	on				-					Ther.

TABLE 23.

Correction of the Moon's Altitude for parallax and refraction corresponding to a mean value of the horizontal parallax,  $57^\prime$   $30^{\prime\prime}.$ 

Moon's alt.	Corr.	Moon's alt.	Corr.	Moon's alt.	Corr.	Moon's alt.	Corr.
	,		,	0	,	0	,
10	51	31	48	51	35	71	18
11	52	32	47	52	35	72	17
12	52	33	47	53	34	73	17
13	52	34	46	54	33	74	16
14	52	35	46	55	32	75	15
15	52	36	45	56	22	76	14
16	52	37	45	57	31	77	13
17	52	38	44	58	30	78	12
18	52	39	44	59	29	79	11
19	52	40	43	60	28	80	10
20	51						
21	51	41	42	61	27	81	9
22	51	42	42	62	26	82	- 8
23	51	43	41	63	26	83	7
24	50	44	40	64	25	84	6
25	50	45	40	65	24	85	5
26	50	46	39	66	23	86	4
27	49	47	38	67	22	87	3
28	49	48	38	68	21	88	9 7 6 5 4 3 2 1
29	49	49	37	69	20	89	1
30	48	50	36	70	19	90	0
					l		

TABLE 24.

Correction of the Moon's Apparent Altitude for Parallax and Refraction.

Moon's			Н	orizontal	parallax				ids of Ilax.	Cor	rectio para	n for i	secone -Add,	ds of	Corr. fo
pp. alt.	54'	55′	56′	57′	58′	59'	60′	61'	Seconds of parallax.	0"	2"	4"	6"	8"	minute of alt.
0 /	, "	, "	, "	, "	, "	, "	, "	, "	"	"	"	"	"	"	
5 0	43 56	44 56	45 56	46 56	47 56	48 55	49 55	50 55	0	0	2	4	6	8	
10	44 11	45 11	46 11	47 11	48 11	49 10	50 10	51 10	10	10	12	14	16	18	
20	25	25	25	25	25	24	24	24	20	20	22	24	26	28	
30	39	39	38	38	38	38	37	37	30	30	32	34	36	38	1
40	52	51	51	51	51	51	51	51	40	40	42	11	46	48	
50	45 4	46 3	47 3	48 3	49 3	50 3	51 3	52 3	50	50	52	54	56	58	
6 0	45 15	46 15	47 14	48 14	49 14	50 13	51 13	52 13	0	0	2	4	6	-8	
10	26	26	25	25	25	25	25	25	10	10	12	14	16	18	
20	36	36	36	35	35	34	34	34	20	20	22	24	26	28	
30	46	46	45 55	45	45	44	44	44	30	30	32	34	36	38	
40	55	55		54	54	54	53	53	40	40	42	44	46	48	
50	46 4	47 3	48 3	49 3	50_3	51 2	52 1	53 1	50	50	. 52	_54	56	58	
7 0	46 12	47 12	48 12	49 12	50 12	51 11	52 11	53 10	0	0	2	4	6	8	
10	21	20	20	20	19	18	18	18	10	10	12	14	16	18	
20	29	28	28	27	27	26	25	25	20	20	22	24	26	28	
30	36	36	35	35	34	34	34	33	30	30	32 42	34	36	38	
40	43	42	42 48	41	41	40	40	40	40	40	52	44	46	48	
50	50	49		48	48	47	46	46	50	50		54	_56	_58	Add
8 0	46 56	47 56	48 55	49 54	50 54	51 54	52 53	53 53	0	0	2	4	6	- 8	1/ 1
10	47 2	48 2	49 1	50 0	51 0	59	59	58	10	10	12	14	16	18	2 1
20 30	8 13	7 13	7 12	6 11	6 11	52 5 10	53 4	54 4	20 30	20 30	32	24 34	26 36	28 38	3 2
40	13	18	17	17	16	16	15	14	40	40	42	44	46	48	4 2 5 3
50	24	23	22	22	21	20	19	19	50	50	52	54	56	58	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
									1						
9 0	47 28	48 27	49 26	50 26 30	51 25 30	52 24	53 24	54 23 27	10	10	12 12	1	1.0	- 8 - 18	
10 20	33 37	32 36	31 35	34	34	29 33	28 32	32	$\frac{10}{20}$	10 20	22	14 24	16 26	28	8 5 9 5
30	41	41	40	39	38	37	37	36	30	30	32	34	26 36	38	9 9
40	45	44	40	43	42	41	40	39	40	40	42	44	46	48	
50	49	48	47	46	42	41	44	44	50	49	51	53	55	57	

# TABLE 24.

# Correction of the Moon's Apparent Altitude for Parallax and Refraction, [Barometer 30 inches.—Fahrenheit's Thermometer 50°.]

Moon's			H	lorizonta	l paralla:	τ.			Seconds of parallax.	Corr	rectio para	n for llax	secon –Add	ds of	Corr. for minutes
	54'	55'	56'	57'	55"	59'	60′	61'	Sec	0"	2"	4"	67	5"	of alt.
0 / 10 0 10 20 30 40 50	47 53 56 59 48 2 5	48 52 55 58 49 1 4 6	7 # 49 51 54 57 50 0 2 5	50 50 53 56 56 51 2 4	51 50 52 55 58 52 1 4	52 48 51 55 57 53 0 2	53 48 70 57 56 59 54 1	54 47 50 53 55 58 55 0	0 10 20 30 40 50	0 10 20 29 39 49	2 12 22 31 41 51	" 4 14 24 33 43 53	6 16 26 35 45 55	8 18 28 37 47 57	Add. 1' 0" 2 1 3 1 4 1 5 2 6 2
11 0 10 20 30 40 50	48 10 12 15 17 19 21	49 9 11 14 16 18 20	50 8 10 12 14 17 18	51 7 9 12 13 15 17	52 7 9 11 13 15 17	53 5 7 9 11 13 15	54 4 6 8 10 12 14	55 3 5 7 9 11 13	0 10 20 30 40 50	0 10 20 29 39 49	2 12 22 31 41 51	4 14 24 33 43 53	6 16 26 35 45 55	8 18 28 37 47 57	7 2 8 2 9 3
12 0 10 20 30 40 50	48 22 24 26 27 28 29	49 21 23 25 26 27 28	50 19 21 23 24 25 26	51 18 20 22 23 24 25	52 17 19 21 22 23 24	53 17 18 20 20 21 22	54 15 16 18 19 20 21	55 14 15 17 18 19 20	0 10 20 30 40 50	0 10 20 29 39 49	12 22 31 41 51	4 14 24 33 43 53	6 16 25 35 45 55	8 18 27 37 47 57	
13 0 10 20 30 40 50	48 30 31 32 33 34 35	49 29 30 31 32 32 33	50 27 28 29 30 30 31	51 26 27 27 28 29 30	52 25 26 26 27 28 28	53 23 24 24 25 26 26	54 22 22 23 23 24 25	55 20 21 21 22 22 23	0 10 20 30 40 50	0 10 19 29 39 49	2 12 21 31 41 51	4 14 23 33 43 53	6 16 25 35 45 55	8 18 27 37 47 57	1 0 2 0 3 0 4 0 5 0 6 0
14 0 10 20 30 40 50	48 35 35 36 36 36 36	49 33 34 31 34 34 34	50 31 32 32 32 32 32	51 30 30 30 30 30 30 30	52 28 28 29 29 29 29 29	53 26 26 27 27 27 27 27	54 25 25 25 25 25 25 25 25 25	55 23 23 24 23 23 23 23	0 10 20 30 40 50	0 10 19 29 39 49	12 21 31 41 51	4 14 23 33 43 53	6 16 25 35 45 55	8 18 27 37 47 57	7 0 8 0 9 0
15 0 10 20 30 40 50	48 36 36 36 36 36 35	49 35 35 35 34 34 33	50 33 32 32 31 31 30	51 31 30 30 29 29 28	52 29 28 28 28 27 26	53 27 26 26 25 25 25 24	54 25 24 24 23 23 23	55 23 22 22 21 21 19	0 10 20 30 40 50	0 10 19 29 39 49	12 21 31 41 51	4 14 23 38 43 53	6 16 25 35 45 55	8 18 27 37 47 57	
16 0° 10 20 30 40 50	48 35 34 34 33 33 33	49 32 32 32 31 31 30	50 29 29 29 28 28 28 27	51 27 27 27 26 25 24	52 25 25 25 24 23 29	53 23 23 22 21 21 20	54 20 20 20 19 18 17	55 18 18 17 16 16 15	0 10 20 30 40 50	0 10 19 29 38 48	2 12 21 31 40 50	4 13 23 33 42 52	6 15 25 35 44 54	8 17 27 36 46 56	Sub,
17 0 10 20 30 40 50	48 31 30 28 27 26 26	49 29 28 26 25 24 23	50 26 25 23 22 21 20	51 23 22 20 19 18 17	52 21 20 18 17 16 15	53 18 17 15 14 13 12	54 16 14 12 11 10 9	55 13 12 10 9 7 6	0 10 20 30 40 50	0 10 19 29 38 48	$ \begin{array}{c c} 2 \\ 12 \\ 21 \\ 31 \\ 40 \\ 50 \end{array} $	4 13 23 33 42 52	6 15 25 34 44 53	8 17 27 36 46 55	1' 0" 2 0 3 0 4 0 5 1 6 1
18 0 10 20 30 40 50	48 24 23 22 21 20 18	49 21 20 19 18 17 15	50 18 17 16 15 14 12	51 15 14 13 12 10 9	52 13 12 11 10 8 6	53 10 9 8 6 4 2	54 7 6 5 3 1 53 59	55 4 3 2 0 54 58 56	0 10 20 30 40 50	0 10 19 29 38 48	21 21 30 40 50	4 13 23 32 42 51	6 15 25 34 44 53	8 17 27 36 46 55	7 1 8 1 9 1
19 0 10 20 30 40 50	48 16 15 13 12 10 1	49 13 12 10 8 6 5	50 10 8 6 5 3 2	51 7 5 3 2 0 50 58	52 4 2 0 51 58 56 55	53 0 52 59 57 55 53 51	53 57 55 53 51 49 48	54 55 53 51 49 47 45	0 10 20 30 40 50	0 10 19 29 38 48	2 11 21 30 40 50	13 23 32 42 51	6 15 25 34 44 53	8 17 27 36 46 55	

## Correction of the Moon's Apparent Altitude for Parallax and Refraction.

Moon's app, alt.			Н	orizontal	parallax				Seconds of parallax.	Corr	ection para	a for llax	secon -Add.	ds of	Corr. for minutes
арр. ан.	54'	55'	56'	57'	58'	59'	60'	61'	Seco	0"	2"	4"	6"	8"	of alt.
20 0 10 20 30 40 50	, " 48 6 5 3 1 59 57	49 3 2 0 48 58 56 54	7 " 49 59 58 56 53 52 50	50 56 55 52 50 48 46	51 52 51 49 46 44 42	52 49 47 45 42 40 38	53 45 43 41 38 36 34	54 42 40 37 35 33 30	" 0 10 20 30 40 50	" 0 9 19 28 38 47	" 2 11 21 30 39 49	" 4 13 23 32 41 51	6 15 24 34 43 53	8 17 26 36 45 54	Sub. 1' 0" 2 0 3 1 4 1 5 1 6 1
21 0 10 20 30 40 50	47 55 53 51 48 46 43 47 42	48 51 49 47 44 42 39 48 37	49 47 45 43 40 38 35 49 33	50 43 41 39 36 33 31 50 29	51 39 37 35 32 29 27 51 25	52 35 33 31 28 25 22 52 20	53 31 29 27 24 21 18 53 16	54 28 26 23 20 17 14 54 11	0 10 20 30 40 50	0 9 19 28 37 47	$ \begin{array}{r} 2\\11\\21\\30\\39\\49\\\hline 2 \end{array} $	4 13 22 32 41 50	6 15 24 34 43 52	7 17 26 35 45 54 7	7 1 8 1 9 2
10 20 30 40 50	47 42 40 37 34 32 29 47 27	35 32 30 27 25 48 22	30 27 25 22 20 49 17	26 23 20 18 15 50 13	19 16 13 11 51 8	17 14 11 9 6 52 3	13 10 7 4 1 52 58	54 11 8 5 3 0 53 57 53 54	10 20 30 40 50	9 19 28 37 46	11 20 30 39 48	13 22 31 41 50	15 24 33 43 52 6	17 26 35 45 54 7	
10 20 30 40 50	25 22 19 16 13 47 10	20 17 14 11 8 48 5	15 12 9 6 3 49 0	10 7 4 1 49 58 49 55	5 2 0 50 57 54 50 50	0 51 57 54 51 48 51 45	55 52 49 46 43 52 40	51 48 45 42 38 53 35	10 20 30 40 50	9 18 28 37 46	11 20 29 39 48	13 22 31 40 50	15 24 33 42 51	17 26 35 44 53	1 0
10 20 30 40 50	8 5 2 46 59 56	3 0 47 57 54 51	48 57 54 51 48 45	52 49 46 43 40	47 44 41 38 35	42 39 35 32 29	37 33 30 27 23	32 28 24 21 18	10 20 30 40 50	9 18 27 36 46	11 20 29 38 47	13 22 30 40 49	15 24 32 42 51	16 26 34 44 53	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
25 0 10 20 30 40 50	46 53 50 46 43 40 37	47 48 45 41 38 34 31	48 42 39 35 32 28 25	49 37 33 29 26 23 19	50 31 28 24 20 17 14	51 26 22 18 14 11 7	52 20 16 12 8 5	53 14 10 6 3 52 59 56	0 10 20 30 40 50	0 9 18 27 36 45	2 11 20 29 38 47	13 22 31 40 49	5 14 24 33 42 51	7 16 25 34 43 52	7 2 8 2 9 3
26 0 10 20 30 40 50	46 34 31 27 24 20 17	47 28 25 21 18 14 11	48 22 19 15 12 8 4	49 16 13 9 6 2 48 58	50 10 7 3 49 59 55 51	51 4 1 50 57 53 49 45	51 58 54 50 46 42 38	52 52 48 44 40 36 32	0 10 20 30 40 50	0 9 18 27 36 45	2 11 20 29 38 47	13 22 31 39 48	5 14 23 32 41 50	7 16 25 34 43 52	
27 0 10 20 30 40 50	46 14 11 7 3 45 59 56	47 7 4 1 46 57 53 49	48 1 47 58 54 50 46 42	48 54 51 47 43 39 35	49 48 44 40 36 32 28	50 41 37 33 29 25 21	51 35 31 27 23 19 15	52 28 24 20 16 12 8	0 10 20 30 40 50	0 9 18 27 36 44	2 11 20 28 37 46	12 21 30 39 48	5 14 23 32 41 50	7 16 25 34 43 52	1 0 2 1 3 1 4 1 5 2 6 2
28 0 10 20 30 40 50	45 53 49 45 41 37 34	46 46 42 38 34 30 26	47 38 34 30 26 23 19	48 31 27 23 19 15 11	49 24 20 16 12 8 4	50 17 13 9 5 1 49 57	51 11 6 2 50 57 54 49	52 4 51 59 55 50 46 42	0 10 20 30 40 50	9 18 26 35 44	2 11 19 28 37 46	12 21 30 39 48	5 14 23 32 41 49	7 16 25 33 42 51	7 3 8 3 9 3
29 0 10 20 30 40 50	45 30 26 22 18 14 11	46 22 18 14 10 6 3	47 15 11 7 2 46 58 55	48 7 3 47 59 55 51 47	49 0 48 56 52 47 43 39	49 53 49 44 39 35 31	50 45 40 36 31 27 23	51 38 34 29 24 20 15	0 10 20 30 40 50	0 9 17 26 35 44	2 10 19 28 37 45	4 12 21 30 38 47	5 14 23 31 40 49	7 16 24 33 42 51	

## TABLE 24.

# Correction of the Moon's Apparent Altitude for Parallax and Refraction.

Moon's			11	forizonta	l parallas				Seronds of parallax.	Cor		n for liax	secone -Add.	dsof	Corr. for minutes
	51'	55'	56'	57'	581	59'	60′	61'	Sere	0"	2"	4"	6"	N''	of alt.
5 /	. ,,	, ,,	, ,,	, ,	, ,,	, ,,	, ,	, ,,	"	"	//	"	,,	"	Sub.
30 0	45 6	45 57	46 50	47 42	48 34	49 26	50-18	51 10	-0	-0	2	- 3	5	7	1' 0"
10 20	$\frac{2}{44.58}$	54 50	46 42	38	30 26	18	13	6	10 20	9 17	10 19	12	14 23	16 24	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
30	54	46	37	29	21	13	4	50 56	30	26	28	29	31	33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
40	50	42	33	25	17	S	. 0	52	40	35	36	38	40	42	5 2
50 31 0	45	38	29	21	12	4	49 55	47	50	43	45	47	49	50	6 3
$\frac{31 - 0}{10}$	44 41 37	45 33 29	46 24 20	47 16 12	48 7	48 59 54	49 50 45	50 42 37	10	9	10	12	5 14	7	7 3 8 4
20	33	24	15	7	47 58	49	10	32	20	17	19	21	20	24	9 4
30	28	20	11	2	54	45	36	27	30	26	27	29	31	32	l
40 50	24 20	16	7 9	46 58 53	49	40 35	31	17	40 50	34 43	36	38	39 48	41 50	
32 0	44 15	45 7	45 58	46 49	47 40	48 31	49 22	50 13	0	-0	2.	3	5	7	
10	11	3	53	44	35	26	17	8	10	8	10	12	14	15	
20	7	44 58	48	39	30	21	11	2	20	17	19	20	22	24	
30 40	43 58	53 48	44 39	34 29	25 20	16 11	6	49 57 52	30 : 40	25 34	27 35	29 37	30	32	
50	54	44	34	24	15	6	48 56	47	50	42	44	46	47	49	1
33 0	43 48	44 39	45 29	46 19	47 10	48 0	48.50	49 41	0	- 0	2	3	5	7	1 0
10	44	34	25	15	5	47 55	45	36	10	- 8	10	12	13	15	2 1
20	40	30	20	10	0	50	40	31	20	17	18	20	22	23	3 1
30 40	35 30	25 20	45 10	5 0	46 55 50	45 40	35 30	25 20	30 40	25 33	27 35	28	30	32 40	$\frac{4}{5} \frac{2}{2}$
50	25	15	5	45 55	45	35	24	14	50	42	43	45	47	48	$\begin{array}{ccc} 5 & 2 \\ 6 & 3 \end{array}$
$\tilde{34}$ $\tilde{0}$	43 21	44 11	45 0	45 50	46 40	47 30	48 19	49 9	0	- 0	2	3	-5	7	7 3
10	16	- 6	44 55	45	34	24	14	3	10	-8	10	12	13	15	8 4
20 30	11	43 56	50	40	29 24	19	9 3	48 58	20	17 25	18 26	20 28	21 30	23	9 4
40	6 1	51	45 40	35 30	19	13 8	47 58	52 47	30 40	33	35	36	38	40	
50	42.56	46	35	24	14	3	52	42	50	41	43	44	46	48	
5 0	42 - 52	43 41	44 30	45 19	46 9	46 58	47 47	48 36	0	0	2	3	5	7	
10 20	47 42	36 31	25 20	14	45.58	52	41	30	10	8	10	11	13 21	15 23	
30	37	26	15	3	40 08	47 41	36	25 19	20 30	16 24	$\frac{18}{26}$	20 28	21 29	31	
40	32	21	10	44.58	47	36	25	14	40	33	34	36	38	39	
50	27	16	4	53	42	30	19	8	50	41	42	44	46	47	1
6 0	42 22 17	43 11	43 59	44 48	45 37	46 25	47 14	48 2	0	0	2	3	5	6	l
10 20	$\frac{17}{12}$	5 0	54 48	42 37	31 25	19 14	8 2	47 56 50	$\frac{10}{20}$	-8 -16	10	11	13 21	14 23	$\begin{array}{ccc} 1 & 1 \\ 2 & 1 \end{array}$
30	17	42 55	43	31	20	8	46 56	44	30	24	26	27	29	31	$\begin{array}{ccc} 2 & 1 \\ 3 & 2 \end{array}$
40	1	50	38	26	14	2	50	39	40	32	34	35	37	39	4 2
50	41 56	44	32	20	8	45 56	44	33	50	40	42	43	45	47	5 3
$\frac{7}{10}$	41 51 46	42 39 34	43 27 21	44 15	45 3 44 57	45 51 15	46 39	47 27 21	10	8	10	11	5 13	6 11	6 3 7 4
20	11	29	16	4	52	40	27	15	20	16	17	19	21	00	8 4
30	35	23	ii	43.58	46	34	21	9	30	24	25	27	29	30	9 5
40	30	18	5	53	40	28	15	3	40	32	33	35	37	38	
50	25	12	42 59	47	34	90	- 9	46 57	50	40	41	43	45	46	
$\begin{bmatrix} 8 & 0 \\ 10 \end{bmatrix}$	41 19 .	42 7	42 54 49	43 41 36	44 29 23	45 16 10	46 3	46 51 45	0 10	0 8	9	3   11	- 5 - 13	- 6 44	
20	8	41 56	43	30	17	4	51	38	20	16	17	19	20	555	
30	3	51	38	24	12	44.58	15	32	30	23	25	27	28	30	
40	40.58	45	32	18	6	52	39	26	40	31	33	35	36	38	
50 9 0	52 40-47	39	26	13	0	16	33	20	50	39	41	-42 -3	41	16	
9 0 10	40 47	41 33 28	42 20 15	43 7	43 54 18	14 40 34	45 27 24	46 13	10	0 S	2 9	11	12	14	1 1
20	36	2.1	9	42.55	12	28	15	1	20	15	17	19	20	000	2 1
30	30	17	3	19	36	22	- 4	45.54	30	23	25	26	28	29	
40	25	11	41 57	13	30	16	2	48	40	34	32	34	36	37	3 2 3
ău	19	5	51	37	23	9	11.55	42	50	39	40	12	43	45	0 3

#### Correction of the Moon's Apparent Altitude for Parallax and Refraction,

Moon's			Н	orizontal	parallax				Seconds of parallax.	Cor	rection paral	n for s lax.—		ls of	Corr.
app. alt.	54'	55'	56'	57'	587	59'	60′	61'	Secon	0"	2"	4"	6"	8"	minutes of alt.
40 0 10 20 30 40 50	40 14 8 2 39 56 50 45	41 0 40 54 48 42 36 30	41 46 39 33 28 22 16	42 32 25 19 13 7	43 18 11 5 42 59 53 47	44 4 43 57 50 44 38 32	44 50 43 36 30 24 18	45 36 29 22 16 9 3	" 0 10 20 30 40 50	0 8 15 23 30 38	2 9 17 24 32 40	3 11 18 26 34 41	5 12 20 27 35 43	6 14 21 29 37 44	Sub. 6' 3'' 7 4 8 5 9 5
41 0 10 20 30 40 50	39 39 33 27 21 16 10	40 24 18 12 6 0 39 54 39 48	41 10 4 40 58 51 45 39 40 33	41 55 49 43 36 30 24	42 41 34 28 22 16 9	43 26 19 13 7 0 42 53 42 47	44 11 4 43 58 51 45 38	44 56 49 43 37 30 23	0 10 20 30 40 50	0 8 15 23 30 38	9 17 24 32 39	3 11 18 26 33 41	5 12 20 27 35 42	6 14 21 29 36 44	
42 0 10 20 30 40 50	39 4 38 58 52 46 40 34 38 28	42 36 30 24 18	40 33 27 21 14 8 2 39 56	$ \begin{array}{r} 41 & 17 \\ 11 & 5 \\ 40 & 58 \\ 52 \\ 46 \\ \hline 40 & 40 \end{array} $	$\begin{array}{r} 42 & 2 \\ 41 & 56 \\ 50 \\ 43 \\ 36 \\ 30 \\ \hline 41 & 24 \\ \end{array}$	41 34 27 21 14	43 31 25 18 11 5 42 58 42 52	44 16 10 3 43 56 49 42 43 36	$\begin{array}{c} 0 \\ 10 \\ 20 \\ 30 \\ 40 \\ \hline 50 \\ \hline \end{array}$	0 7 15 22 30 37	$ \begin{array}{r} 1 \\ 9 \\ 16 \\ 24 \\ 31 \\ 38 \\ \hline 1 \end{array} $	10 18 25 33 40	12 19 27 34 41	6 13 21 28 36 43	1 1 2 1 3 2 4 2 5 3
10 20 30 40 50	35 28 22 16 10 4 37 57 37 51	38 59 53 47 41	50 43 37 30 24	34 27 20 14 7	18 11 5 40 58 51	1 41 54 48 41 34	45 38 31 24 17	29 22 15 8 1	10 20 30 40 50	0 7 15 22 29 37	9 16 23 31 38	10 18 25 32 39	12 19 26 34 41	6 13 20 28 35 42	6 4 7 4 8 5 9 5
44 0 10 20 30 40 50	45 38 32 26 20	28 21 15 9 2	39 18 11 4 38 58 51 44	40 1 39 54 47 41 34 27	40 44 37 30 24 17 10	20 13 7 0 40 53	42 10 3 41 56 49 42 35	42 54 46 39 32 25 18	0 10 20 30 40 50	0 7 14 21 29 36	1 9 16 23 30 37	10 17 24 31 39	4 11 19 26 33 40	6 13 20 27 34 41	
45 0 10 20 30 40 50	37 14 7 0 36 54 48 41	37 56 49 43 37 30 23	38 38 31 25 18 11 4	39 21 14 7 1 38 54 47	40 3 39 56 49 43 36 29	40 46 39 32 25 18 11	$\begin{array}{c cccc} 41 & 28 & & \\ & 21 & \\ & 14 & \\ & 7 & \\ & 0 & \\ 40 & 52 & \\ \end{array}$	42 11 3 41 56 49 42 34	0 10 20 30 40 50	0 7 14 21 28 35	1 8 15 23 30 37	3 10 17 24 31 38	4 11 18 25 32 39	6 13 20 27 34 41	1 1 2 1 3 2 4 3 5 3 6 4
46 0 10 20 30 40 50	36 35 29 22 16 9 2	37 17 10 3 36 57 50 43	37 58 51 44 38 32 25	38 40 33 26 20 13 6	39 22 15 8 1 38 54 47	40 4 39 57 49 42 35 28	40 45 38 31 24 17 9	41 27 20 12 5 40 58 50	0 10 20 30 40 50	0 7 14 21 28 35	1 8 15 22 29 36	3 10 17 23 30 37	11 18 25 32 39	6 12 19 26 33 40	7 5 8 5 9 6
47 0 10 20 30 40 50	35 56 49 42 36 30 23	36 37 30 23 17 10 3	37 18 11 4 36 57 50 43	37 59 52 45 38 31 24	38 40 34 26 19 12 5	39 21 14 6 38 59 52 45	40 2 39 55 47 40 32 25	40 43 36 28 21 13 5	0 10 20 30 40 50	0 7 14 20 27 34	1 8 15 22 29 35	3 10 16 23 30 37	11 18 24 31 38	5 12 19 26 33 39	
48 0 10 20 30 40 50	35 16 10 3 34 56 49 42	35 56 50 43 36 29 22	36 36 30 23 16 9	37 17 10 2 36 55 48 41	37 57 50 43 35 28 21	38 37 30 22 15 8 0	39 17 10 2 38 55 48 40	39 58 50 42 34 27 19	$\begin{array}{c} 0 \\ 10 \\ 20 \\ 30 \\ 40 \\ 50 \\ \end{array}$	0 7 13 20 27 33	1 8 15 21 28 35	3 9 16 23 29 36	4 11 17 24 31 37	5 12 19 25 32 39	1 1 2 1 3 2 4 3 5 3 6 4
49 0 10 20 30 40 50	34 35 29 22 15 8	35 15 8 1 34 54 47 40	35 54 47 40 33 26 19	36 34 27 20 12 5 35 58	37 13 6 36 59 51 44 36	37 53 46 38 30 23 15	38 32 25 17 9 2 37 54	39 11 4 38 56 48 41 33	0 10 20 30 40 50	0 7 13 20 26 33	1 8 14 21 27 34	3 9 16 22 29 35	10 17 23 30 36	5 12 18 25 31 38	7 5 8 5 9 6

# TABLE 24.

# Correction of the Moon's Apparent Altitude for Parallax and Refraction.

	on's			i	lorizonta	l paralla:	х.			Seconds of parallax.	Cor	para para		secon	ds of	Corr. Ior
арр	. alt.	54'	55'	56'	57'	58'	59'	60′	61'	Secor	0"	2"	4"	6"	~"	minutes of alt,
50	0 10 20	33 54 47 40	34 33 26 19	35 11 4 34 57	35 50 43 36	36 29 21 14	37 8 0 36 53	37 46 38 31	38 25 17 9	0 10 20	0 6 13	1 8 14	3 9 15	4 10 17	5 12 18	
	30 40 50	33 26 19	11 4 33 57	49 42 35	28 20 13	35 58 51	45 37 29	23 15 7	37 53 45	30 40 50	19 26 32	20 27 33	22 28 35	23 29 36	24 31 37	Sub.
51	0 10 20 30 40 50	33 12 5 32 58 51 44 37	33 50 43 36 29 22 14	34 28 21 13 6 33 59 51	35 6 34 58 50 43 36 28	35 44 36 28 21 14 6	36 22 14 6 35 58 50 42	36 59 51 43 36 28 20	37 37 29 21 13 5 36 57	10 20 30 40 50	0 6 13 19 25 31	14 20 26 33	3 9 15 21 28 34	10 16 23 29 35	5 11 18 24 30 36	1' 1" 2 1 3 2 4 3 5 4 6 4
52	0 10 20 30 40 50	32 30 23 15 8 1 31 54	33 7 0 32 52 45 38 31	33 44 36 29 21 14 7	34 21 13 6 33 58 50 43	34 58 50 43 35 27 19	35 35 27 19 11 3 34 55	36 12 4 35 56 48 40 32	36 49 41 33 24 16 8	0 10 20 30 40 50	0 6 12 18 24 31	1 7 13 20 26 32	2 9 15 21 27 33	4 10 16 22 28 34	5 11 17 23 29 35	7 5 8 6 9 6
53	0 10 20 30 40 50	31 47 39 32 25 17 10	32 23 15 8 0 31 53 46	32 59 51 44 36 28 21	33 35 27 20 12 4 32 57	34 11 3 356 48 40 32	34 47 39 31 23 15 7	35 24 15 7 34 59 51 43	36 0 35 51 43 35 27 19	0 10 20 30 40 50	0 6 12 18 24 30	1 7 13 19 25 31	2 8 14 20 26 32	10 16 22 28 34	5 11 17 23 29 35	
	0 10 20 30 40 50	31 3 30 55 48 40 33 26	31 38 30 22 15 8	32 13 5 31 57 49 42 35	32 49 41 33 25 17 9	33 24 16 8 0 32 52 44	33 59 51 43 35 27 19	34 35 26 18 10 1 33 53	35 10 1 34 53 45 37 28	0 10 20 30 40 50	0 6 12 18 23 29	1 7 13 19 25 30	2 8 14 20 26 32	4 9 15 21 27 33	5 11 16 22 28 34	
55	0 10 20 30 40 50	30 18 10 3 29 55 48 40	30 52 45 38 30 22 14	31 27 19 12 4 30 56 48	32 1 31 53 46 38 30 22	32 36 28 20 12 4 31 55	33 10 2 32 54 46 37 29	33 45 36 28 20 11 3	34 19 11 3 33 54 45 37	0 10 20 30 40 50	0 6 11 17 23 28	1 7 13 18 24 30	2 8 14 19 25 31	3 9 15 20 26 32	5 10 16 22 27 33	
56	0 10 20 30 40	29 33 25 18 10 3 28 55	30 7 29 59 51 43 36 28	30 40 32 24 16 9	31 14 6 30 58 50 42 34	31 47 39 31 23 15 7	32 21 13 4 31 56 48 40	32 55 46 37 29 21 12	33 28 20 11 2 32 54 45	0 10 20 30 40 50	0 6 11 17 22 28	1 7 12 18 23 29	8 13 19 24 30	3 9 14 20 25 31	10 16 21 27 32	1 1 2 2 3 2
57	0 10 20 30 40 50	28 47 39 32 24 17 9	29 20 12 5 28 57 49 41	29 53 45 37 29 21 13	30 25 17 9 1 29 53 45	30 58 50 42 33 25 17	31 31 22 14 6 30 57 49	32 3 31 55 47 38 29 21	32 36 27 19 10 1 31 52	0 10 20 30 40 50	0 5 11 16 22 27	1 6 12 17 23 28	2 7 13 18 24 29	3 9 14 19 25 30	4 10 15 21 26 31	4 3 5 4 6 5 7 6 9 7
	0 10 20 30 40 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 33 25 47 9 1 27 53	29 5 28 57 49 41 33 24	29 37 28 20 12 4 28 55	30 9 0 29 52 44 35 27	30 41 32 23 15 6 29 58	31 12 4 30 55 46 38 29	31 44 35 26 17 9	0 10 20 30 40 50	0 5 10 16 21 26	1 6 12 17 22 27	7 13 18 23 28	3 8 14 19 24 29	4 9 15 20 25 30	
	0 10 20 30 40 50	27 14 6 26 58 51 43 35	27 45 37 29 21 13 5	28 16 7 27 59 51 43 35	28 47 38 30 22 14 5	29 18 9 1 28 53 44 36	29 49 40 31 23 14 6	30 20 11 2 29 54 45 36	30 51 42 33 24 15 6	0 10 20 30 40 50	0 5 10 15 20 25	1 6 11 16 21 26	2 7 12 17 22 27	3 8 13 18 23 29	4 9 14 19 24 30	

# Correction of the Moon's Apparent Altitude for Parallax and Refraction.

Moon's			F	lorizonta	l paralla:	ς,			nds of llax.	Cor		n for s lax.—	second -Add.	ls of	Corr. for
app.alt.	54'	55′	56'	57′	587	59'	60′	61'	Secor	0"	2"	4"	6"	8"	minutes of alt.
	26 26 26 26 29 21 22 35 44 26 37 29 20 23 12 24 59 20 23 12 24 59 20 23 12 24 59 20 21 12 25 55 24 25 25 25 25 25 25 25 25 25 25 25 25 25	26 57 49 41 32 24 43 25 52 27 25 19 2 24 46 37 24 29 21 13 23 25 47 21 22 23 25 24 26 26 27 27 24 29 20 20 21 21 21 21 21 21 21 21 21 21			·		29 27 18 9 0 28 511 42 28 34 49 27 40 321 13 3 26 54 45 36 45 5 59 25 50 41 42 22 13 4 4 24 55 6 46 6 27 18 8 23 59	29 57 48 39 30 21 12 29 3 35 28 54 49 40 21 21 27 12 27 58 48 49 40 21 27 12 27 12 27 12 27 24 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 25 26 26 17 26 26 26 17 26 26 26 17 26 26 26 26 17 26 26 26 26 26 26 26 26 26 26 26 26 26	0   10   20   30   40   50   0   10   20   30   40   50   0   10   20   30   40   50   0   10   20   30   40   50   0   10   20   30   40   50   0   10   20   30   40   50   0   10   20   30   30   40   50   50   50   50   50   50   5	-	para	lax.—	-Add.		for minutes
10 20 30 40 50 67 0 20 30 30 30 40 50 68 0 10 20 20 30 40 50 68 0 10 20 40 40 50 67 10 20 40 40 40 40 40 40 40 40 40 40 40 40 40	24 15 7 20 59 50 20 41 33 25 18 8 19 59 19 50 42 33 25 16 7 7 18 59 42 42 33 24 16	148 39 31 31 22 14 21 5 20 56 48 39 30 21 20 13 4 19 56 47 38 29 19 21 11 21 21 21 21 21 21 21 21	12 3 21 55 46 37 21 28 11 2 20 53 44 20 35 27 18 9 9 19 51 19 42 33 34 44 19 55 19 6 19 51 19 6 19 6 19 7 18 8 19 9 10 1 10 1 1	28 10 10 1 21 52 43 34 25 26 16 7 20 58 49 40 31 31 22 13 20 4 19 55 45 27 18	25 10 22 52 43 34 25 22 15 6 21 57 48 30 21 21 12 20 53 44 20 25 16 7 19 57 19 57	25 15 6 6 22 57 48 22 39 20 11 2 21 52 21 52 21 52 20 47 37 28 18 18 9 0	23 2 22 22 22 22 22 25 24 33 34 42 44 24 15 21 56 47 27 17 27 17 27 17 27 27 27 27 27 27 27 27 27 27 29 29 29 20	23 55 45 46 23 26 16 67 22 57 47 22 28 9 21 59 49 21 30 00 00 20 50 41	10 20 30 40 50 0 10 20 30 40 50 20 30 40 50 0 10 20 30 40 50 20 30 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 60 60 60 60 60 60 60 60 60 60 60 60 60	12 16 20 0 4 8 12 15 19 0 4 7 7 11 15 18 0 4 7 7 11 11 14 18	5 9 13 17 21 1 5 8 12 16 20 1 4 4 8 12 16 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 14 18 22 2 5 9 13 17 21 1 5 9 13 16 20 15 8 12 15 19	27 11 15 19 23 26 6 10 14 18 22 26 6 9 13 17 21 21 22 26 9 13 16 9 9 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7 11 16 20 24 3 7 11 15 18 22 3 7 10 14 18 18 21 3 6 10 13 17 20 17 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 18 20 20 20 20 20 20 20 20 20 20 20 20 20	7 6 7 8 9 8

# TABLE 24.

## Correction of the Moon's Apparent Altitude for Parallax and Refraction.

Moon's app. alt.			Н	orizonta	l parallax	ζ,			Seconds of parallax.	Cor	rectio paral	n for s	-Add.	ls of	Corr. for minutes
	54'	55'	56'	571	581	59'	60'	61'	y ar	0"	2"	4"	6"	5"	of alt.
70 0 10 20 30 40 50	18 7 17 58 50 41 32 24	18 28 19 10 1 17 53 44	18 48 39 30 21 12 3	19 9 0 18 50 41 32 23	19 30 20 11 1 18 52 43	19 50 41 31 21 12 3	20 11 1 19 51 41 32 22	20 31 21 11 1 19 52 42	0 10 20 30 40 50	0 3 7 10 13 17	1 4 7 11 14 17	1 5 8 11 15 18	2 5 9 12 15 19	3 6 9 13 16 19	
71 0 10 20 30 40 50	17 15 6 16 57 48 40 31	17 35 26 17 8 16 59 50	17 54 45 36 27 18 9	18 14 5 17 55 46 37 28	18 34 24 14 5 17 56 47	18 53 43 33 24 15 5	19 12 3 18 53 43 34 24	19 32 22 12 2 18 52 42	10 20 30 40 50	0 3 6 10 13 16	1 4 7 10 13 17	1 4 8 11 14 17	5 8 12 15 18	3 6 9 12 15 19	
72 0 10 20 30 40 50 73 0	16 22 13 5 15 57 48 39 15 30	16 41 32 23 14 5 15 56 15 47	17 0 16 50 41 32 23 14 16 5	17 18 9 16 59 50 41 32 16 22	17 37 27 18 9 16 59 50	17 55 46 36 27 17 7 16 58	18 14 4 17 54 45 35 25 17 15	18 32 22 12 3 17 53 43 17 33	0 10 20 30 40 50	$ \begin{array}{r} 0 \\ 3 \\ 6 \\ 9 \\ 12 \\ \hline 15 \\ \hline 0 \end{array} $	1 4 7 10 13 16	1 4 7 10 13 16	5 8 11 14 17 -2	5 8 11 14 18	
10 20 30 40 50 74 0	21 12 3 14 54 45 14 36	$ \begin{array}{r} 38 \\ 29 \\ 20 \\ 11 \\ 2 \\ 14 53 \end{array} $	15 56 47 37 28 19 15 9	13 4 15 55 45 35 15 26	$ \begin{array}{r} 30 \\ 21 \\ 12 \\ 2 \\ \hline 15 52 \\ \hline 15 42 \end{array} $	48 39 29 19 9	5 16 56 46 36 26 16 16	23 13 3 16 53 42 16 32	10 20 30 40 50	3 6 9 11 14 0	3 6 9 12 15	10 13 15 1	5 7 10 13 16	5 8 11 14 17 2	Sub.
$ \begin{array}{r} 10 \\ 20 \\ 30 \\ 40 \\ -50 \\ -75 \\ 0 \end{array} $	28 19 10 1 13 52 13 43	44 35 26 17 8 13 59	0 14 51 42 33 23 14 14	17 8 14 58 49 39 14 29	33 24 14 5 14 55 14 45	49 40 30 20 10 15 1	6 15 56 46 36 26 15 16	12 2 15 52 42 15 32	10 20 30 40 50	$\begin{array}{c} 3 \\ 5 \\ 8 \\ 11 \\ 13 \\ \hline 0 \end{array}$	3 6 9 11 14	4 6 9 12 14	10 12 15	5 8 11 13 16	1' 1" 2 2 3 3 4 4 5 5 6 6
$ \begin{array}{r} 10 \\ 20 \\ 30 \\ 40 \\ -50 \\ -76 \\ 0 \end{array} $	34 25 16 7 12 58 12 49	50 41 32 22 13 13 1	$ \begin{array}{r} 5 \\ 13 56 \\ 46 \\ 37 \\ 28 \\ 13 18 \end{array} $	20 11 13 52 42 13 33	36 27 17 7 13 57 13 47	14 52 42 32 22 12 14 2	14 57 47 37 27 14 17	12 12 2 14 51 41 14 31	10 20 30 40 50	3 5 8 10 13 0	3 6 8 11 13 0	4 6 9 111 14	4 7 9 12 14	5 7 10 12 15 2	7 7 8 8 9 9
$ \begin{array}{r} 10 \\ 20 \\ 30 \\ 40 \\ 50 \\ -77 \\ 0 \end{array} $	41 32 23 14 5 11 56	12 55 46 37 27 18 12 9	9 0 12 51 41 32 12 22 13	24 14 5 12 55 45 12 36 27	38 28 19 9 12 59 12 49 40	13 53 43 33 23 13 13 3 12 53	13 57 47 36 26 13 16	21 11 13 50 40 13 30	10 20 30 40 50 0	2 5 7 9 12 0 2	3 8 10 12 -0	3 6 8 10 13 1	4   6   8   11   13   1	4 7 9 11 11,	
$-\frac{10}{20}$ $-\frac{30}{78}$ $-\frac{50}{10}$	47 38 29 19 10 11 1 10 59	0 11 51 42 32 23 11 11	11 55 45 35 11 26 17	17 8 11 58 48 - 11 39	30 21 11 11 11 52 42	12 33 33 23 13 12 1 11 54	12 57 47 36 26 12 16 6	10 0 12 19 39 12 29 19	20 30 40 50 0	4 7 9 11 0 2	3 5 7 9 11 -0	5 7 9 12 1	8 10 12 1	4 6 8 10 13 2	
10 20 30 40 50 79 0	13 34 25 16 10 7	5 10 55 46 37 28 10 19	8 10 58 48 39 (10 30	30 20 10 0 10 51 10 42	32 22 12 3 10 53	44 34 21 15 11 5	11 56 46 36 26 11 16	11 58 48 38 11 28	20 30 40 50	6 8 10 0	4 6 8 10 0	3 5 7 9 11	3 5 7 9 11	6 8 10 12	
10 20 30 40 50	9 58 49 40 31 22	9 0 9 50 41 32	9 52 43	32 22 12 3 9 54	43 33 23 13 4	10 55 44 31 1 21 1 15	10 56 45 35 25	17 7 10 56 46 36	10 20 30 40 50	24679	2 4 6 8 10	3 4 6 8	3 5 7 8 10	3 5 7 9	

# Correction of the Moon's Apparent Altitude for Parallax and Refraction.

	1		H	orizontal	parallax				s of	Corr	ection	for :	secono	ls of	Corr.
Moon's app. alt.	54'	55'	56′	57'	58'	59'	60′	61'	Seconds of parallax.	0"	2"	1"	6"	<b>\</b> "	minutes of alt.
80 0 10 20 30 40 50	9 13 3 8 54 45 36 27	9 23 14 4 8 55 46 37	9 34 24 14 5 8 55 46	9 44 34 24 15 5 8 56	9 55 45 35 25 15 6	7 " 10 5 9 55 45 35 25 15	7 " 10 15 5 9 55 45 35 25	7 " 10 26 15 5 9 54 44 34	" 0 10 20 30 40 50	" 0 2 3 5 7 8	" 0 2 4 5 7 9	1 2 4 6 7 9	" 1 3 4 6 8 9	" 1 3 5 6 8 10	
81 0 10 20 30 40 50	8 18 9 7 59 50 41 32	8 27 18 8 7 59 50 41	8 37 27 17 8 7 59 49	8 46 36 26 17 8 7 58	8 56 46 36 26 17 7	9 5 8 55 45 35 25 15	9 14 4 8 54 44 34 24	9 24 13 3 8 52 42 32	0 10 20 30 40 50	0 1 3 4 6 7	0 2 3 5 6 8	1 2 4 5 6 8	1 2 4 5 7 8	1 3 4 6 7 9	
82 0 10 20 30 40 50	7 23 14 4 6 55 46 37	7 31 22 12 3 6 54 45	$\begin{array}{c} 7 & 40 \\ 30 \\ 20 \\ 11 \\ 2 \\ 6 & 52 \end{array}$	7 48 38 28 19 10 0	7 57 47 37 27 17 7	8 5 7 55 45 35 25 15	8 13 3 7 52 42 32 22	8 22 11 0 7 50 40 30	0 10 20 30 40 50	0 1 3 4 5 7	0 2 3 4 6 7	1 2 3 5 6 7	1 2 3 5 6 7	1 2 4 5 6 8	
83 0 10 20 30 40 50	6 28 19 9 0 5 51 42	6 35 26 16 7 5 58 49	6 43 33 23 13 4 5 55	6 50 40 30 20 11 1	6 57 47 37 27 18 8	7 5 6 54 44 34 24 14	7 12 2 6 51 41 31 21	7 20 9 6 58 48 38 27	$\begin{array}{c} 0 \\ 10 \\ 20 \\ 30 \\ 40 \\ 50 \end{array}$	0 1 2 3 5 6	0 1 3 4 5 6	0 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 6 7	Sub. 1' 1" 2 2 3 3 4 4 5 5
84 0 10 20 30 40 50	5 33 23 14 5 4 56 47	5 39 30 20 10 1 4 52	5 45 36 26 16 7 4 58	5 52 42 32 22 13 3	5 58 48 38 28 18 8	6 4 5 54 44 34 24 14	6 10 0 5 50 39 29 19	6 17 6 5 55 45 35 25	0 10 20 30 40 50	0 1 2 3 4 5	0 1 2 3 4 5	0 1 2 3 4 5	1 2 3 3 4 5	1 2 3 4 5 6	6 6 7 7 8 8 9 9
85 0 10 20 30 40 50	4 37 28 18 9 0 3 51	4 43 33 24 14 5 3 56	4 48 38 28 19 10	4 53 43 33 23 14 5	4 58 48 38 28 19 9	5 4 4 53 43 33 23 13	5 9 4 58 48 38 28 18	5 14 3 4 53 43 33 22	0 10 20 30 40 50	0 1 2 2 3 4	0 1 2 3 3 4	0 1 2 3 4 4	0 1 2 3 4 5	1 1 2 3 4 5	
86 0 10 20 30 40 50	3 42 33 23 14 5 2 56	3 46 37 27 18 9 2 59	3 50 41 31 21 12 3	3 55 45 35 25 16 6	3 59 49 39 29 19 9	4 3 3 53 43 33 23 13	4 7 3 57 46 36 26 16	4 11 1 3 50 40 30 19	0 10 20 30 40 50	0 1 1 2 3 3	0 1 1 2 3 3	0 1 2 2 3 3	0 1 2 2 3 4	1 1 2 2 3 4	
87 0 10 20 30 40 50	2 47 37 28 19 10	2 50 40 31 21 12 3	2 53 43 33 24 15 5	2 56 46 36 26 17	2 59 49 39 29 19 9	3 2 2 52 42 32 22 12	3 5 2 55 45 34 24 14	3 9 2 58 47 37 27 16	0 10 20 30 40 50	0 0 1 1 2 2	1 1 1 2 2	0 1 1 2 2 2	0 1 1 2 2 3	0 1 1 2 2 3	
88 0 10 20 30 40 50	1 51 42 32 23 14 5	1 53 43 34 25 15 6	1 55 45 36 26 16 7	1 57 47 38 28 19 9	1 59 49 39 29 20 10	2 2 1 51 41 31 21 11	2 4 1 53 43 32 22 12	2 6 1 55 44 34 24 13	0 10 20 30 40 50	0 0 1 1 1 1	0 0 1 1 1 1	0 1 1 1 1	0 0 1 1 1 2	0 1 1 1 1 2	
89 0 10 20 30 40 50	0 56 46 37 28 19 9	0 57 47 37 28 19 10	0 58 48 38 28 19 10	0 59 49 39 29 19 10	1 0 0 50 40 30 20 10	1 1 0 51 40 30 20 10	1 2 0 51 41 31 21 10	1 3 0 52 42 31 21 10	0 10 20 30 40 50	0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 1	0 0 0 0 0 1	

# Page 702]

## TABLE 25.

Table showing the variation of the altitude of an object arising from a change of 100 seconds in the declination. Unmarked quantities in the Table are positive. If the change move the body toward the elevated pole, apply the correction to the altitude with the signs in the Table; otherwise, change the signs.

	Virtue	1	atitud	of sat	ne imn	re ased	eclinat	don.		Latitu	de of i	lifferen	t nam	· from o	heclina	tion.	Altitude.	
		70	60 '	50	to	300	50 .	10	0	10.1	20	30	10°	50	80	70	 	
2	0 10 20 30 40 50 60 70	96 94 94 99 108	89 86 86 90 98 112	78 76 76 78 84 97 120	66 63 62 64 68 77 95 134	51 48 47 47 49 54 65 91	35 32 29 28 28 29 33 41	18 14 11 8 5 2 1 6	0 4 8 12 18 25 37 58	18 22 27 33 41 53 72 110	35 39 45 53 63 80 107	51 56 62 71 85 105	66 70 78 88 104	78 83 91 103	89 94 102		0 10 20 30 40 50 60 70	
)	0 10 20 30 40 50 60 70	95 94 95 100	88 86 87 91 100	78 75 76 80 87 100	65 63 63 65 70 81 100	51 48 48 49 51 58 71 100	35 32 31 30 31 33 39 53	48 45 42 40 8 6 5 3	0 3 6 10 15 21 31 48	18 21 25 30 38 48 66 100	35 38 43 50 60 75 100	51 55 60 69 81 100	65 69 76 86 100	78 82 89 100	88 92 100	95 100	0 10 20 30 40 50 60 70	
8	0 10 20 30 40 50 80 70	95 94 96 101	87 86 88 93 102	77 76 77 81 89 104	65 63 64 67 73 84 105	50 49 49 50 54 62 77 109	35 33 32 32 33 37 45 62	18 15 14 12 11 11 11 13	0 3 5 8 12 17 24 39	18 20 24 28 35 44 59	35 38 40 48 57 70 93 140	50 54 59 66 78 95 125	65 68 74 83 97 118	77 81 87 97 113	87 91 98 109	95 99 106	0 10 20 30 40 50 60 70	
5	0 10 20 30 40 50 60 70	94 94 97 103	87 87 89 94 105	77 76 78 83 92 107	65 64 65 69 76 88 111	50 49 50 52 57 66 82 118	34 33 33 34 36 41 51 72	17 16 15 14 14 15 17 22	- 0 - 2 - 4 - 6 - 9 - 13 - 18 - 29	17 20 22 26 32 40 53 80	34 37 40 46 54 66 87 129	50 53 57 64 74 91 119	65 67 73 81 93 113	80 86 95 109	87 90 96 107	94 98 104	0 10 20 30 40 50 60 70	
1	0 10 20 30 40 50 60 70	94 94 98 105	87 87 90 96 107	77 77 79 85 94 111	64 66 70 78 92 117	50 50 51 54 59 70 88 127	34 34 36 39 45 56 81	17 16 16 16 17 19 23 32	0 - 1 - 3 - 4 - 6 - 8 - 12 - 19	17 19 21 24 29 35 47 70	34 36 39 44 51 62 81 119	50 52 56 62 71 86 112	64 67 71 78 90 109	77 79 84 93 106	87 89 95 104	94 97 103	0 10 20 30 40 50 60 70	The second secon
2	0 10 20 30 40 50 60 70	94 95 99 107	87 87 91 98 111	77 77 81 87 98 116	64 65 67 73 82 97 124	50 50 52 56 63 74 95 139	34 34 35 38 42 50 64 92	17 17 17 18 20 24 30 43	0 - 1 - 1 - 2 - 2 - 3 - 5 - 8	17 18 19 22 25 30 40 59	34 35 37 41 47 57 73 108	50 51 54 59 68 81 103	64 66 69 76 86 103	77 78 83 90 102	87 88 93 102	94 96 101	0 10 20 30 40 50 60 70	
0	0 10 20 30 40 50 60 70	94 95 100	87 88 92 100	76 78 82 88 100	64 65 68 74 81 100	50   51   53   57   65   78   100	34 35 36 39 45 53 68 100	17 18 18 20 22 27 35 51	0 0 0 0 0 0 0	17 18 18 20 22 27 35 51	34 35 36 39 45 53 68 100	50 51 53 57 65 78 100	64 65 68 74 84 100	76 78 82 88 100	\$7 88 92 100	94 95 100	0 10 20 30 40 50 60 70	
TA CHIMINION.	Altıtude.	70	600	500	40	300	20	10		10	50-	30	40	50	60	70°	Althude.	-
3	13	I	atitud	e of sar	ne nan	ie as d	leclinat	nen.		Latit	ide of	lifferen	t name	from	leclina	tion.	<u>. 2</u>	

Table showing the variation of the altitude of an object arising from a change of 100 seconds in the declination. Unmarked quantities in the Table are positive. If the change move the body toward the elevated pole, apply the correction to the altitude with the signs in the Table; otherwise, change the signs.

Declination.	de.		Latitue	le of sa	me nar	ne as	declina	tion.	I	atitud	le of d	ifferen	t name	from 6	leclina	tion.	nge.	Declination.
Decli	Altitude.	70°	60°	500	400	300	200	100	0°	10°	200	30°	40°	50°	60°	70°	Altitude.	Decli
0	0 10 20 30 40 50 60 70	97 94 94 97 106	" 89 86 86 89 96 109	79 76 75 77 82 93 115	66 63 61 62 66 73 89 125	" 52 48 46 45 46 50 60 82	" 35 31 27 26 25 25 27 35	18 14 10 6 2 - 2 - 7 -16	" 0 - 4 - 9 - 14 - 21 - 30 - 43 - 69	18 23 28 35 44 58 79 121	35 40 45 55 67 85 114	52 57 64 74 88 110	66 72 80 91 107	79 85 93 106	" 89 95 104	97 103	0 10 20 30 40 50 60 70	14
16	0 10 20 30 40 50 60 70	98 94 94 96 104	90 86 85 87 94 106	80 76 74 75 80 90 110	67 63 61 61 63 70 84 117	52 48 45 44 44 47 54 73	36 31 27 25 22 21 21 25	18 13 9 4 0 - 6 -14 -26	$\begin{array}{r} 0 \\ - 5 \\ - 10 \\ - 17 \\ - 24 \\ - 34 \\ - 50 \\ - 79 \end{array}$	18 23 30 37 48 62 86 132	36 41 48 58 70 90 121	52 58 66 77 92 115	67 73 82 94 111	80 86 95 109	90 97 106	98 104	0 10 20 30 40 50 60 70	16
18	0 10 20 30 40 50 60 70	99 95 93 95 102	91 87 85 86 92 103	81 76 74 74 78 87 105	68 63 60 59 61 66 79 108	53 48 44 42 41 43 49 64	36 31 26 23 20 17 16 16	18 13 8 2 - 3 -10 -20 +36	0 - 6 - 12 - 19 - 27 - 39 - 56 - 89	18 24 31 40 51 67 93 143	36 42 50 60 74 95 128	53 59 68 79 96 121	68 74 84 97 116	81 88 98 112	91 98 109	99 106	0 10 20 30 40 50 60 70	18
20	0 10 20 30 40 50 60 70	100 95 93 94 100	92 87 85 85 90 100	82 76 74 73 76 83 100	68 63 60 58 59 63 74 100	53 48 43 40 39 39 43 56	36 31 25 21 17 13 10 6	18 12 6 0 - 6 -15 -26 -46	0 - 6 - 13 - 21 - 31 - 43 - 63 - 100	18 25 33 42 55 72 100	36 43 52 63 78 100	53 60 70 82 100	68 76 86 100	82 89 100	92 100	100	0 10 20 30 40 50 60 70	20
22	0 10 20 30 40 50 60 70	96 93 94 98 110	93 88 85 85 88 97 117	83 77 73 72 74 80 95 131	69 63 59 57 57 60 68 92	54 48 43 39 36 36 38 47	37 30 25 19 14 9 4 - 3	19 12 5 - 2 - 9 -19 -33 -56	$ \begin{array}{r} 0 \\ -7 \\ -15 \\ -23 \\ -34 \\ -48 \\ -70 \\ -111 \end{array} $	19 26 35 45 58 77 107	37 45 54 66 82 106	54 62 72 86 104	69 78 88 103	83 91 103	93 102	101	0 10 20 30 40 50 60 70	22
24	0 10 20 30 40 50 60 70	97 93 93 97 107	95 88 85 84 86 93 112	84 77 73 71 72 77 91 123	70 64 59 56 54 56 64 83	55 48 42 38 34 32 32 38	37 30 24 18 12 5 - 2 -13	19 11 4 - 4 -12 -23 -39 -67	$\begin{array}{r} 0 \\ -8 \\ -16 \\ -26 \\ -37 \\ -53 \\ -77 \\ -122 \end{array}$	19 27 36 48 62 83 115	37 46 56 69 86 111	55 63 74 89 109	70 79 91 107	84 93 105	95 104	103	0 10 20 30 40 50 60 70	24
26	0 10 20 30 40 50 60 70	98 95 93 96 105	96 89 85 83 85 92 108	85 78 73 70 70 74 86 115	72 64 59 54 52 53 58 75	56 48 41 36 32 28 27 29	$   \begin{array}{r}     38 \\     30 \\     23 \\     16 \\     9 \\     \hline     1 \\     -8 \\     -23 \\   \end{array} $	$ \begin{array}{r} 19 \\ 11 \\ 3 \\ -6 \\ -16 \\ -28 \\ -46 \\ -78 \end{array} $	$\begin{array}{r} 0 \\ - 9 \\ - 18 \\ - 28 \\ - 41 \\ - 58 \\ - 84 \\ - 134 \end{array}$	19 28 38 50 66 88 123	38 47 58 72 91 117	56 65 77 92 114	72 81 94 111	85 95 108	96 106	105	0 10 20 30 40 50 60 70	26
tton.	e.	70°	60°	500	400	30°	200	10°	0°	100	200	30°	400	50°	60°	70°	e.	ttion.
Declination	Altitude.		Latitud	le of sa	те пап	ne as	leclina	tion.	L	atitud	e of d	ifferent	name	from d	eclinat	ion.	Altítude	Declination

TABLE 26.

ti- I	-		clination										L
de.	0°	1	20	3	40	20	6	7"	•0	90	100	110	£1
0	11	"	"	"	"	"	"	"	"	"	"	"	
0					28. 1	$\frac{22.4}{28.0}$	18.7 22.4	16.0	14. 0 16. 0	12. 4 13. 9	11. 1 12. 4	10. 1 11. 1	ı
1 2				i	1	28.0	28, 0	18.6	18.6	15.9	13. 9	12.3	1
3							2	22.3 27.9	22.3 27.8	18.5	15, 8	13. 8	ı
4	28.1								27. 8	22. 2	18.5	15, 8	1
5	22.4	28, 0								27.7	22. 1 27. 6	18, 4	1
6 7	18.7 16.0	22.4 18.6	28. 0 22. 3	27. 9					-		27. 6	22. 0 27. 4	
5	14.0	16, 0	18.6	22.3	27. 8		1					21.4	
9	12. 4	13, 9	15. 9	18.5	22. 2	27. 7		-					
0	11.1	12.4	13.9	15.8	18.5	22. 1	27. 6				-		ı
l	10.1	11.1	12.3	13, 8	15, 8	18, 4	22, 0	27. 4					ı
2	9, 2 8, 5	10. 1	11.1	12.3	13, 8	15.7	18.3	21.9	27. 3	07.1			ı
3 4	7.9	9, 2 8, 5	10, 0 9, 2	11.0	12, 2 10, 9	13. 7 12. 1	15, 6 13, 6	18, 2 15, 5	21. 7 18. 0	27. 1 21. 6	26, 9		ı
5 -	7.3	7.8	8. 4	9, 1	9, 9	10.9	12. 1	13.5	15.4	17.9	21. 4	26, 7	ı
6	6, 8	7. 3	7.8	8, 4	9. 1	9.8	10.8	12.0	13. 4	15.3	17. 8	21.3	1
7	6.4	6, 8	7. 2	7.8	8.3	9, 0	9.8	10.7	11.9	13.3	15, 2	17. 6	
8	6, 0	6.4	6, 8	7. 2	7.7	8.3	8.9	9.7	10.6	11.8	13. 2	15, 0	
9	5.7	6, 0	6, 3	6, 7	$-\frac{7.2}{6.7}$	7.6	8.2	8.9	9, 6	10, 6	11.7	$\frac{13.1}{11.0}$	1
1	5. 4 5. 1	5. 7 5. 4	6, 0 5, 6	6, 3 5, 9	6, 7	7. 1 6. 6	7. 6 7. 0	8.1	8. S 8. 1	9. 5 8. 7	10.5	11, 6 10, 4	l
2	4. 9	5.1	5, 3	5.6	5, 9	6. 2	6, 6	7.5 7.0	7.5	8, 0	8, 6	9, 4	
}	4.6	4.8	5, 0	5.3	5, 5	6. 2 5. 8	6, 1	6.5	6, 9	7.4	8, 6 7, 9 7, 3	8.5	ı
	4.4	4, 6	4.8	5, 0	5. 2	5.5	5, 8	6.1	6.4	6.8	7, 3	7.8	ı.
	4.2	4.4	4, 6	4.7	5.0	5, 2	5.4	5. 7	6, 0	6.4	6, 8	7.2	1
3	4. 0 3. 9	4. 2	4. 3	4, 5 4, 3	4.7	4. 9	5. 1 4. 9	5. 4 5. 1	5.7 5.3	6. 0 5. 6	6, 3 5, 9	6, 7	
	3. 7	3.8	4, 0	4.1	4.3	4.4	4.6	4.8	5.0	5.3	5.5	5.8	ı
	3.7	3.7	3.8	3.9	4.1	4.2	4.4	4.6	4.7	5.0	5, 2	5. 5	ı
)	3.4	3, 5	3, 6	3. 7	3.9	4. 0	4. 2	4.3	4.5	4.7	4.9	5. 1	ı
	3.3	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.3	4.4	4.6	4.8	
3	3. 1 3. 0	3, 2	3.3	3. 4	3. 5	3. 7 3. 5	3, 8	3. 9	4. 1 3. 9	4. 2	4, 4 4, 2	4.6 4.3	
ì	2.9	3. 0	3. 1	3. 2	3. 2	3.3	3.4	3.6	3.7	3, 8	3, 9	4.1	
	2.8	2.9	3.0	3, 0	3. 1	3. 2	3, 3	3. 4	3, 5	3, 6	3. 7	3.9	
3	2.7	2.8	2.8	2.9	3.0	3. 1	3, 2	3, 3	3.4	3. 5	3, 6	3. 7	1
	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3, 1	3. 2	3.3	3, 4	3.5	
ì	2. 5 2. 4	2. 6 2. 5	$\frac{2.6}{2.5}$	2. 7 2. 6	2. 8 2. 7	2.8 2.7	2.9 2.8	3.0	3.0	3. 2	3, 2 3, 1	3, 3	
-	-17 -9	2.4	2. 4	0 K	2. 6	2.6	$\frac{2.8}{2.7}$	$-\frac{2.3}{2.7}$	-0 -	2.9	3.0	3.0	
ĺ	2.3	9.3	2.4	2. 5 2. 4	2.5	2, 5	2, 6	2.6	2. 8 2. 7	2.8	2.8	2. 9	
2	2. 2	2. 2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2. 8 2. 7	2. 9 2. 8 2. 7	ı
3	2.3 2.3 2.2 2.1 2.0	2. 1	2. 2	2. 2	2. 3 2. 2	2. 3	2.4	2.4	2.5	2.5 2.4	2. 6 2. 5	2. 7 2. 5	1
	2.0	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.4	$-\frac{2.4}{2.3}$	-2.5		-
3	2. 0 1. 9	2.0 1.9	$\frac{2.0}{2.0}$	2. 1 2. 0	$\begin{bmatrix} 2.1 \\ 2.0 \end{bmatrix}$	2. 2	2. 2	2. 2	2. 3	2.3	2. 4 2. 3	2. 4	
,	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2. 2	9.9	ı
4	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2, 1	2. 2 2. 1	2.1	ı
		1.7	1.8	1.8	_1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	
)	1.6	1.7	1. 7	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2. 0 1. 9	
2	1.6 1.5	1.6	1. 6 1. 6	1.7	1.7 1.6	1.7	1.7	1.8	1.8	1. 8 1. 8	1. 9 1. 8	1.8	
3	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1. 7 1. 7	1.7	1.7	1.7	ı
í	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1, 6	1.7	١.,
5	1.4	1.4	1 4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1. 6	1, 6	-
3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	ı
7	1.3	1.3	1. 3 1. 3	1.3	1.3	1.4	1.4	1.4 1.3	1.4	1.4	1. 4 1. 4	1.5 1.4	
ì	1.2	1.2	1.2	1. 3	1.2	1.3	1.3	1.3	1. 3	1.3	1.3	1.3	
)	1.1	1.1	1.2	1.2	1. 2	1. 2	1. 2	1. 2	1. 2	1. 2	1.3	1.3	ı
-	00	10	2	3	4	5 ·	6	20	40	9.	107	110	-
			-	- :									

Lati-	1	De	clination	of the	same na	me as th	e latitud	ie; upper	r transit	reduct	ion addi	tive.		Lati-
tude.	120	13°	140	15°	16°	170	180	190	200	210	220	230	240	tude.
0	"	″ .	",	,,	"	" 1	"		,,	",	"	"	"	0
0	$9.2 \\ 10.1$	8.5 9.2	7. 9 8. 5	7.3 7.8	6.8	6.4	6, 0 6, 4	5.7 6.0	5.4	5. 1 5. 4	4.9 5.1	4.6 4.8	4.4 4.6	0
2 3	11. 1 12. 3	10. 0 11. 0	9. 2 10. 0	8. 4 9. 1	7.8 8.4	7.2	6.8	6.3 6.7	6.0 6.3	5, 6 5, 9	5, 3 5, 6	5. 0 5. 3	4. 8 5. 0	1 2 3
4	13.8	12. 2	10.0	9. 9	9.1	8.3	7. 2 7. 7	7.2	6.7	6.3	5. 9	5, 5	5. 2	4
5	15. 7 18. 3	13. 7 15. 6	12. 1 13. 6	10. 9 12. I	9.8 10.8	9. 0 9. 8	8.3 8.9	7. 6 8. 2	7. 1 7. 6	6. 6 7. 0	6, 2	5. 8 6. 1	5. 5 5. 8	5
6 7	21.9	10.0	15.5	13.5	12.0	10.7	9. 7	8,9	8, 1	7.5	7.0	6.5	6.1	6 7
8	27.3	21. 7 27. 1	$18.0 \\ 21.6$	15. 4 17. 9	13. 4 15. 3	11.9 13.3	10.6 11.8	9, 6 10, 6	8.8 9.5	8. 1 8. 7	7. 5 8. 0	6.9 7.4	6. 4 6. 8	8 9
10			26. 9	21, 4	17.8	15, 2	13. 2	11.7	10.5	9.5	8.6	7.9	7.3	10
11 12				26. 7	21.3 26.5	17.6 21.1	15. 0 17. 5	13. 1 14. 9	11.6 13.0	10. 4 11. 5	9.4	8.5 9.3	7. 8 8. 4	11 12
13 14						26.2	20. 9 26. 0	17.3 20.7	14.8 17.1	12.8 14.6	$11.3 \\ 12.7$	10. 1 11. 2	9. 2 10. 0	13 14
15							20.0	25.7	20.4	16.9	14.4	12.5	11. 1	15
16 17	26.5 $21.1$	26. 2							25. 4	20, 2 25, 1	16. 7 20. 0	14.3 16.5	12.4 14.1	16 17
18	17.5	20.9	26.0	05.5						20.1	24.8	19.7	16.3	18
19	14.9	$\frac{17.3}{14.8}$	$\frac{20.7}{17.1}$	$\frac{25.7}{20.4}$	25. 4							24.5	$\frac{19.5}{24.2}$	19
21 22	11.5 10.3	12.8 11.3	14.6 12.7	16. 9 14. 4	20. 2 16. 7	25. 1 20. 0	24.8							21
23	9.3	10.1	11.2	12.5	14.3	16.5	19.7	24. 5						21 22 23 24
$\frac{24}{25}$	$\frac{8.4}{7.7}$	9, 2	9.0	9.9	12.4	$\frac{14.1}{12.2}$	16.3 13.9	19.5 16.1	$\frac{24.2}{19.2}$	23, 8				24
26	7.1	7.6	8.2	8.9	9.8	10.8	12.1	13.7	15. 9	18.9	23.5			25 26 27 28
$\frac{27}{28}$	6.6	7. 0 6. 5	7.5 7.0	8. 1 7. 4	8.8 8.0	9.6 8.7	10. 6 9. 5	11.9 10.5	13.5 11.7	15. 6 13. 3	18.6 15.4	23. 1 18. 3	22. 7	$\frac{27}{28}$
29	6. 2 5. 7	6.1	6.4	6.9	7.3	7.9	8.6	9.4	10.3	11.5	13. I	15.1	18.0	29
30 31	5. 4 5. 1	5. 7 5. 3	6. 0 5. 6	6. 4 5. 9	6.8	7. 2 6. 7	7.8 7.1	8. 4 7. 7	9. 2 8. 3	10. 1 9. 0	11.3 10.0	12. 8 11. 1	14. 9 12. 6	30 31
32 33	4.8 4.5	5. 0 4. 7	5. 2 4. 9	5. 5 5. 1	5.8 5.4	6. 2 5. 7	6. 5 6. 1	7. 0 6. 4	7.5 6.9	8. 1 7. 4	8.9 8.0	9.8 8.7	10.9 9.6	32 33
34	4.3	4.4	4.6	4.8	5.1	5.3	5.6	_5.9	6.3	6.8	7.3	7.8	8.6	34
35 36	4. 0 3. 8	4. 2	4.4	4.5 4.3	4.7 4.5	5. 0 4. 7	5. 2 4. 9	5. 5 5. 1	5. 8 5. 4	6. 2 5. 7	6.6	7. 1 6. 5	7.7	35 36
37	3.6	3.8	3.9	4.0	4.2	4.4	4.6	4.8	5.0	5.3	5. 6 5. 2	6.0	6.4 5.8	37
38 39	3. 4	3. 6 3. 4	3. 7 3. 5	3. 8 3. 6	4.0 3.8	4.1 3.9	4.3 4.0	4.5 4.2	4.7 4.4	4.9 4.6	4.8	5. 5 5. 1	5.4	38 39
40 41	3. 1 3. 0	3. 2 3. 1	3. 3 3. 2	3.4	3. 6 3. 4	3. 7 3. 5	3. 8 3. 6	4. 0 3. 7	4. 1 3. 9	4.3 4.0	4. 5 4. 2	4. 7 4. 4	5.0 4.6	40 41
42	2. 9 2. 7	2. 9	3.0	3.1	3. 2	3.3	3.4	3, 5	3. 7	3.8	4.0	4.1	4.3	42
43 44	$\begin{array}{c c} 2.7 \\ 2.6 \end{array}$	2. 9 2. 8 2. 7	2.9 2.7	$\frac{3.0}{2.8}$	3.0 2.9	3. 1 3. 0	3. 2 3. 1	3.3	3.5 3.3	3. 6 3. 4	3.7 3.5	3. 9 3. 6	4.0 3.8	43 44
45	2.5	2.6	2. 6 2. 5	9.7	2. 8 2. 6	2.8	2. 9	3. 0	3. 1 2. 9	3. 2	3.3	3. 4 3. 2	3.5	45 46
46 47	2.3	2.4	2.4	2. 6 2. 4 2. 3	2. 6 2. 5 2. 4	$\begin{array}{c} 2.7 \\ 2.6 \end{array}$	2. 8 2. 6 2. 5	2.8 2.7	2. 9	2.9	2.9	3.0	3. 3 3. 1	47
48 49	2.2	$\frac{2.2}{2.1}$	2. 3 2. 2	$\frac{2.3}{2.2}$	$\frac{2.4}{2.3}$	$\frac{2.4}{2.3}$	$\frac{2.5}{2.4}$	2. 6 2. 4	2. 8 2. 6 2. 5	$\frac{2.7}{2.6}$	2.8 2.6	$\frac{2.9}{2.7}$	$\frac{3.0}{2.8}$	48 49
50	$\frac{2,1}{2.0}$	2.0	2.1	$\frac{2.2}{2.1}$	2.2	2.2	2.3	2. 3	2, 4	2.4	2.5	2. 6 2. 4	2.6 2.5	50
51 52	1.9 1.8	2. 0 1. 9	2. 0 1. 9	2.0 1.9	$\begin{array}{c c} 2.1 \\ 2.0 \end{array}$	$\begin{array}{c} 2.1 \\ 2.0 \end{array}$	2. 2 2. 1	$\frac{2.2}{2.1}$	$\frac{2.3}{2.1}$	2.3 2.2	2. 4 2. 2	$\begin{bmatrix} 2.4 \\ 2.3 \end{bmatrix}$	2.5 2.4	51 52
53	1.8	1.8	1,8	1.9	1.9	1.9	2.0	2.0	2.0	$\frac{2.1}{2.0}$	2. 1 2. 0	2. 3 2. 2 2. 1	2. 2 2. 1	53
54 55	1.7	$\frac{1.7}{1.6}$	$\frac{1.7}{1.7}$	$\frac{1.8}{1.7}$	$\frac{1.8}{1.7}$	$\frac{1.8}{1.8}$	$\frac{1.9}{1.8}$	$\frac{1.9}{1.8}$	$\frac{1.9}{1.9}$	$\frac{2.0}{1.9}$	$\frac{2.0}{1.9}$	$\frac{2.1}{2.0}$	$\frac{2.1}{2.0}$	$-\frac{54}{55}$
56	1.5	1.6	1.6	1.6 1.5	1.6 1.6	1.7 1.6	1.7	1.7 1.6	1.8 1.7	1.8 1.7	1.8 1.7	1.9 1.8	1.9 1.8	56 57
57 58	1.4	1.5 1.4	1.5 1.5	1.5	1.5	1.5	1.6 1.5	1.6	1.6	1.6	1.6	1.7	1.7	58
59 60	1.4 1.3	1.4 1.3	1.4 1.3	1.4 1.3	1. 4 1. 4	1, 5 1, 4	1.5 1.4	1.5 1.4	1.5 1.4	1.5 1.5	1.6 1.5	1.6 1.5	1.6 1.5	59 60
	120	130	140		160	170	180		200	210	220	230	240	
	12~		elination	15°				19°					240	
		De	CIMBUOL	. or the	want tig	me as th	cantuu	c, upper	trans!t	reducti	OH BUILT			

Page 706]

TABLE 26.

Lati-	Declination of the same name as the latitude; upper transit; reduction additive.												Lati-	
tude.	250	26°	270	250	290	300	310	320	33°	340	35°	360	370	tude.
۰	"	"	"	"	"	"	,,		"	"			"	٥
0 1	4.2	4.0	3, 9 4, 0	3.7	3, 5	3, 4	3.3	3.1	3, 0	2.9 3.0	2.8 2.9	2.7	$\frac{2.6}{2.7}$	0
- 2 3	4.6	1.3	4.1	4.0	3, 8	3, 6	3, 5	3, 3	3, 2	3, 1	3, 0	2.8	2.7	3
- 4	4. 7 5. 0	4.5	4.3 4.5	4.1	3.9 4.1	3. 7 3. 9	3, 6	3, 4	3, 3	3. 2	3, 0	2.9 3.0	2. S 2. 9	3 4
-5	5.2	4.9	4.7	4.4	1. 2	4.0	3, %	3, 7	3, 5	3, 3	3.2	3.3	3.0	- 5
6 7	5.4 5.7	5. 1 5. 4	4, 9 5, 1	4.6	4.4	4.2	4.0	3. 8 3. 9	3, 6	3, 5 3, 6	3, 3	3. 2	3.0	- 6 7
- 8	6, 0	5.7	5.3	5, 0	4.8	4.5	4.3	4.1	3.9	3.7	3.5	3.4	3. 2	- 8
- 9 10	6, 4	$\frac{-6,0}{6,3}$	5, 6	5. 3 5. 5	$-\frac{5}{5}, \frac{0}{9}$	$=\frac{4.7}{4.9}$	$-\frac{4.4}{4.6}$	$\frac{4.2}{4.4}$	4.0	3, S 3, 9	$\frac{3.6}{3.8}$	$\frac{3.5}{3.6}$	3.4	- <del>9</del> -
11	7.2 7.7	6.7	6, 2	5, 8	5, 2 5, 5	5. 1	4.8	4.6	4.3	4.1	3.9	3.7	3.5	-11
12 13	7.7 8.3	7.1 7.6	6, 6	6, 2 6, 5	5, 8 6, 1	5.4	5, 1 5, 3	4. 8 5. 0	4.5	4.3	4.0	3. %	3, 6	12 13
14	9, 1	8.2	7. 1 7. 6	7.0	6, 4	6, 0	5, 6	5, 2	4.9	4.6	4.4	4.1	3.9	14
15 16	9, 9	8, 9 9, 8	8. 1 8. 8	7. 4 8. 0	6, 9 7, 3	6, 4 6, 8	5, 9 6, 3	5, 5	5, 2 5, 4	4. 8 5. 1	4.5 4.8	4.3 4.5	4.0	15 16
17	12.2	10.8	9, 6	8.7 9.5	7. 9 8. 6	7.2	6. 7	6, 2 6, 6	5. 7 6, 1	5, 3 5, 6	5, 0	4.7	4.4	17 18
18 19	13. 9 16. 1	12. 1 13. 7	10.6 11.9	10.5	9. 4	7.8	7.1	7.0	6, 4	6, 0	5, 2 5, 5	4.9 5.1	4.6 4.8	19
20	19. 2 23. 8	15, 9 18, 9	13, 5 15, 6	11, 7 13, 3	$10.3 \\ 11.5$	$\frac{9.2}{10.2}$	8.3	7.5 8.2	6, 9 7, 4	6, 3 6, 8	5, 8 6, 2	5. 4 5. 7	5, 0 5, 3	20 21
22	40.	23, 5	18, 6	15, 4	13.1	11.3	10, 0	8, 9	8.0	7.3	6, 6	6.1	5.6	22
21 22 23 24			23, 1	18, 3 22, 7	15. 1 18. 0	12.8 14.9	11. 1 12. 6	9, 8 10, 9	8.7 9.6	7.9 8.6	7.1	6, 5	6.0	23 24
			-		22. 3	17.7	14.6	12.4	10.7	9.4	8.4	7.5	6.8	25
26						21.9	17.4 21.5	14.3 17.0	12.1 14.0	10, 5 11, 9	9. 2	8, 2 9, 1	7.4 8.1	26 27
25 6 17 K 29	00.0						2	21. 1	16.7	13.8	11.7	10.1	8.9	28 29
$-\frac{29}{30}$	22.3 17.7	21.9				-			20. 6	$\frac{16.3}{20.2}$	$\frac{13.5}{16.0}$	11.4	$\frac{9.9}{11.1}$	$\frac{29}{30}$
31	14.6	17.4	21.5								19.8	15.6	12.9	31
32 33	12.4 10.7	14.3 12.1	17.0 14.0	21. 1 16. 7	20. 6							19, 3	15. 3 18. 9	32 33
34	9.4	10.5	11.9	13.8	16.3	20, 2								34_
35 36	8. 4 7. 5	$9.2 \\ 8.2$	10, 3 9, 1	\$1.7 10.1	13, 5 11, 4	16, 0 13, 2	19. 8 15. 6	19. 3						36
37 38	6.8	7.4 6.7	8. 1 7. 2	8, 9 7, 9	9, 9 8, 7	11.1 9.6	12. 9 10. 9	15, 3 12, 6	18.9 14.9	18.4				37 38
39	6, 2 5, 7	6.1	6. 5	7.1	7.7	8.5	9.4	10. 6	12.2	14.5	17.9			_39
40	5, 3 4, 9	5, 6 5, 2	6, 0 5, 5	6, 4 5, 8	6, 9	7.5 6.7	8. 2 7. 3	9, 2 8, 0	10. 4 8. 9	11. 9 10. 1	14. <b>1</b> 11. 6	17. 4 13. 8	17.0	40 41
42	4.5	4.8	5, 0	5, 3	5.7	6.1	6, 6	7.1	7.8	8.7	9.8	11.3	13.4	42
43 44	4.2	4.4	4.6	4.9	5, 2 4, 8	5, 5	5, 9 5, 4	6, 4 5, 8	6, 9	7. 6 6. 7	8, 5 7, 4	9, 5 8, 2	11.0 9.3	43 44
45	3.7	3.8	4.0	4.2	4.4	4.7	4.9	5. 2	5. 6	6.0	6, 6	7. 2	8.0	45
46 47	3, 5	3, 6	3.7	3, 9 3, 6	4. 1 3. 8	4. 3	4.5 4.2	4.8	5. 1 4. 6	5.4	5, 9 5, 3	6, 4 5, 7	7. 0 6. 2	46 47
48 49	3.1	3, 2	3, 3	3.4	3, 5	3, 7	3, 9	4.0 3.7	4.3	4.5	4.8	5, 1 4, 6	5, 5 5, 0	48
$-\frac{49}{50}$	2.7	2.8	2. 9	3.0	3.1	3. 2	3, 3	3, 5	3.6	3.8	4.0	4.2	4.5	50
51 52	2.6 2.4	2. 6 2. 5	2. 7 2. 6	2.8 2.6	2. 9 2. 7	3, 0	3, 1	3, 2	3.4	3, 5	3.7	3, 9	4. 1 3. 7	51 52
53	2.3	2.3	2.4	2.5	2.5	2.6	9.7	0.8	2.9	3.0	3. 1	3, 3	3, 4	53
54 55	2. 0	2.2	$-\frac{2.3}{2.1}$	2.3	$\frac{2.4}{2.3}$	$-\frac{2.5}{3}$	$=\frac{2.5}{9.4}$	2.6	$-\frac{2.7}{2.5}$	2. S 2. 6	$-\frac{2.9}{2.7}$	$\frac{3.0}{2.8}$	3. 2	54 55
56	1.9	2. 1 2. 0	2.0	2.1	2.1	2. 3 2. 2 2. 0	2.4	2.4 2.3	2. 4 2. 2 2. 1	0 4	2.5	2.6	9.7	56
57 58	1.8 1.7	1.9	1.9	2.0 1.8	2.0 1.9	2, 0	2. 1 2. 0	2. 2	2. 2	2. 3 2. 1 2. 0	2.3 2.2	2. 4 2. 3 2. 1	2.5	57 58
59	1.6	1.7	1.7	1.7	1.5	1.8	1.9	1.9 1.8	1. 9 1. 8	2.0	2. 0 1. 9	2. 1 2. 0	2. 2	59 60
60	1.6	1.6	1.6	1.6		1.7								
	25	50.	2.1	24	59.	30	31	32	33	##	857	360	370	
	Ļ	Det	dination	i of the	same tix	me as th	e Intitue	te: uppe	r transit	; reduct	ion addi	live,		

Lati-	Declination of the same name as the latitude; upper transit; reduction additive.											Lati-		
tude.	38°	39°	400	410	420	430	440	450	460	470	480	490	50°	tude.
۰	"	"	"	"	"	"	"	"	"	"	"	"	″	0
0	$\begin{array}{c} 2.5 \\ 2.6 \end{array}$	2. 4 2. 5 2. 5 2. 6 2. 7	2.3 2.4	2.3 2.3	2. 2 2. 2	2. 1 2. 2	2. 0 2. 1	$\frac{2.0}{2.0}$	1.9 1.9	1.8	1.8 1.8	1.7 1.7	1. 7 1. 7	0 1
1 2 3	2.6 2.6 2.7	2.5	2. 4 2. 5	2. 4 2. 4	2.3	2. 2 2. 2 2. 2 2. 2	2. 1 2. 2	2. 0 2. 1	$\frac{2.0}{2.0}$	1.9 1.9	1.8 1.9	1.8	1. 7 1. 7	$\frac{1}{2}$
4	2.8	2.7	2.6	2.5	2. 3 2. 4	2.3	2. 2	2.1	2.0	2.0	1.9	1.8	1.8	4
5 6	2. 8 2. 9	2.7 2.8 2.9	2. 6 2. 7 2. 7	2.5 2.6	2.4 2.5	2. 3 2. 4	2. 2 2. 3	2. 2 2. 2 2. 2	2. 1 2. 1 2. 2	$\frac{2.0}{2.0}$	1. 9 2. 0	1. 9 1. 9	1.8 1.8	5 6
7	3.0	2.9	$\frac{1}{2}$ . 7	2.6	2.5	2.4	2.3	2. 2	2. 2	2.1	2.0	1.9	1.8	6 7
8 9	$\frac{3.1}{3.2}$	2.9 3.0	2.8 2.9	2.7 2.8	2. 6 2. 7	$\begin{array}{c} 2.5 \\ 2.5 \end{array}$	2. 4 2. 4	2.3	2. 2 2. 2	2. 1 2. 2	$\begin{array}{c} 2.0 \\ 2.1 \end{array}$	$\frac{1.9}{2.0}$	1.9 1.9	8 9
. 10	3.3	3.1	3.0	2.8	2.7 2.8		9.5	2. 4 2. 4 2. 5 2. 6 2. 6	2.3	2, 2 2, 2 2, 2 2, 3 2, 3 2, 4	2. 1 2. 1	2.0	1.9	10
11 12 13	$\frac{3.4}{3.5}$	3. 2	3.1	2.8 2.9 3.0	2.9	2. 6 2. 7 2. 7 2. 8 2. 9	2. 6 2. 6 2. 7 2. 7	2.4	2, 3 2, 3 2, 4	2. 2	2.2	2. 1 2. 1	2. 0 2. 0	11 12 13
13 14	3.6 3.7	3.4	3. 2	3. 1 3. 2	2. 9 3. 0	2.8	2.7	2.6	2. 4 2. 5	2.3	2. 2 2. 3	2, 1 2, 2	2. 0 2. 0 2. 1	13 14
15	3.8	3, 6	3.4	3.3	3.1	3, 0	2.8	$\frac{2.0}{2.7}$	2.6	$\frac{2.4}{2.5}$	2.3	2.2	9.1	15
16 17	4.0 4.1	3.8 3.9	3. 6 3. 7 3. 8	3, 4 3, 5	3. 2	3. 0 3. 1	2.9 3.0	2. 7 2. 8 2. 8 2. 9	$\frac{2.6}{2.7}$	$\begin{array}{c} 2.5 \\ 2.6 \end{array}$	2. 4 2. 4	$2.3 \\ 2.3$	2.2	16 17
18	4.3	4.1	3.8	3.6	3. 4 3. 5	3.2	3. 1 3. 2	2. 9	2.7 2.8	2.6 2.7	2.5	2.4	2. 1 2. 2 2. 2 2. 3 2. 3	17 18 19
19 20	4.5	4.2	$\frac{4.0}{4.1}$	$\frac{3.7}{3.9}$	$\frac{3.5}{3.7}$	$\frac{3.3}{3.5}$	3.3	3.0	$\frac{2.8}{2.9}$	$\frac{2.7}{2.8}$	$\frac{2.6}{2.6}$	$\frac{2.4}{2.5}$	$-\frac{2.3}{2.4}$	20
$\frac{21}{22}$	4.9	4.6	4.3	4.0	3.8	3, 6	3.4	3. 1 3. 2 3. 3	2. 9	2. 8 2. 9 2. 9 3. 0	2. 6 2. 7 2. 8 2. 9	2. 5 2. 6 2. 6	2. 4 2. 4 2. 5 2. 6	21
23	5. 2 5. 5	4.8 5.1	4.5 4.7	4. 2 4. 4	4.0 4.1	$\frac{3.7}{3.9}$	3.6	3.4	3. 1 3. 2 3. 3	3.0	2.8	2.7	2. 6	21 22 23 24
24	5.8	5.4	5.0	4.6	4.3	4.0	3.8	3.5	3.3	3.1	3.0	2.8	2.6	
25 26	6. 2 6. 7	5. 7 6. 1	5. 3 5. 6	4. 9 5. 2 5. 5	4. 5 4. 8	4. 2	3.9 4.1	3.7	3. 5 3. 6	3. 3 3. 4	3. 1 3. 2 3. 3	2. 9 3. 0	2.7 2.8 2.9	25 26 27 28 29
26 27 28 29	7. 2 7. 9	6.5	6.0	5.5 5.8	5. 0 5. 3	4.6 4.9	4.3 4.5	4.0	3. 7 3. 9	3. 5 3. 6	3. 3 3. 4	3.1	2.9 3.0	27
	8.7	7.1 7.7	6.9	_ 6. 2	5.7	5. 2	4.8	4. 2 4. 4	4.1	3.8	3.5	3.3	3.1	
30 31	9.6 10.9	8.5 9.4	7. 5 8. 2	6. 7 7. 3	6.1	5. 5 5. 9	5. 1 5. 4	4.7	4.3 4.5	4.0	3. 7 3. 9	3. 4 3. 6	3. 2 3. 3	30 31
32 33	12.6	10.6	9. 2 10. 4	8.0	7. 1	6.4	5. 8 6. 2	5. 2	4.8	4. 2 4. 4 4. 6	4.0	3. 7 3. 9	3.5 3.6	32 33
34	14.9 18.4	$12.2 \\ 14.5$	11.9	8.9 10.1	6, 6 7, 1 7, 8 8, 7	6. 9 7. 6	6, 7	5. 6 6. 0	5. 1 5. 4	4.9	4.3 4.5	4.1	3.8	34
35 36		17. 9	14. 1 17. 4	11.6	9. 8 11. 3	8.5 9.5	7.4	$\frac{6, 6}{7, 2}$	5. 9 6. 4	5. 3 5. 7	4.8 5.1	4. 4 4. 6	4.0	35 36
37			11.3	13. 8 17. 0	13.4	11.0	8. 2 9. 3 10, 7	8.0	7. 0	6.2	5.5	5.0	4.2 4.5	37
38 39					16.5	13. 0 16. 0	10, 7 12, 6	9. 0 10. 3	7. 0 7. 7 8. 7	6.8	6.0 6.5	5.3 5.8	4, 8 5. 1	38 39
40							15, 5	12. 2 15. 0	10.0	8.4	7.2	6. 3	5. 6	40
41 42	16.5							15.0	11.8 14.5	9.7 11.4	8. 1 9. 3	7.0 7.9	6. 1 6. 7	41 42
43 44	13. 0 10. 7	16.0 12.6	15.5							14.0	11.0   13.6	9. 0 10. 6	7. 6 8. 7	43 44
45	9.0	10.3	12. 2 10. 0	15.0							70.0	13. 1	10. 2	45
46 47	7. 7 6. 8	8.7 7.5	8.4	$\frac{11.8}{9.7}$	14.5 11.4	14.0							12.6	46 47
48	6. 0 5. 3	6.5 5.8	7. 2 6. 3	8.1 7.0	9.3 7.9	11. 0 9. 0	13. 6 10. 6	13.1						48 49
49 50	4.8	5.1	5, 6	6, 1	6.7	7.6	8.7	10. 2	12.6					50
51 52	4.3	4.6	5. 0 4. 5	5. 4 4. 8	5. 9	6, 5 5, 7	7.3 6.3	8. 4 7. 0	9, 9 8, 0	12. 1 9. 5	11.6			51 52
53	3.6	4. 2 3. 8 3. 5	4.0	4.3	5. 2 4. 6	5.0	5.4	6.0	6, 7	7.7	9.1	11.1	10.0	,53
54 55	3.3	$\frac{3.5}{3.2}$	$\frac{3.7}{3.3}$	3.9	4.1 3.7	$\frac{4.4}{4.0}$	$-\frac{4.8}{4.3}$	$-\frac{5}{4},\frac{2}{6}$	$-\frac{5}{5}, \frac{8}{0}$	6, 5	$\frac{7.4}{6.2}$	8.7	$\frac{10, 6}{8, 3}$	54_ 55
56 57	2. 8 2. 6 2. 4 2. 2	2.9	3.1 2.8 2.6 2.4	3. 2	3. 4	3.6	0.0	4.1	4.4	4.8 4.2	5, 3 4, 6	5. 9 5. 0	6. 8 5. 6	56 57
58	2. 6	2. 7	2, 8	2. 9 2. 7	2.8	2. 9	3.1	3. 3	3.5	3.7	4.0	4.4	4.8	58
59 60	2. 2 2. 1	3. 2 2. 9 2. 7 2. 5 2. 3 2. 1	2.4 2.2	2. 5 2. 3	2. 8 2. 6 2. 4	2. 9 2. 7 2. 5	3. 4 3. 1 2. 8 2. 6	3. 0 2. 7	3. 1 2. 8	3. 3 3. 0	3. 6 3. 2	3.8	4. 2 3. 6	59 60
	380	390	400	41°	420	43°	410	450	46°	470	48°	490	50°	
	35		1			}	1		1					-
	Declination of the same name as the latitude: upper transit; reduction additive.													

TABLE 26.

Lati-		Declination of the same name as the latitude; upper transit; reduction additive.												Lati-
tude.	51°	520	54°	540	550	56°	570	58°	59°	60°	610	620	63°	tude.
٥	"	"	"	"	"	lu .	"	#	11	#	"	11	W	۰
0	1.6 1.6	1.5 1.6	1.5 1.5	1.4	1.4	1.3	1.3 1.3	1.2	1, 2 1, 2	1. 1 1. 2	1. 1 1. 1	1.0	1.0	0
2	1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.0	2 3
3	1.7	1.6 1.6	$\frac{1.5}{1.6}$	1.5 1.5	1.4 1.5	1.4	1.3	1.3	1.2	1. 2 1. 2	1.1 1.1	1.1	1.0	3 4
5	1.7	1.7	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.1	1.1	1.1	-5
6	1.7	1.7 1.7 1.7 1.7	1.6 1.6	1.5 1.6	1.5	1.4	1.4	1.3	1.3	1.2	1. 2 1. 2	1.1	1.1	6 7
8	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.4	1.3	1.2	1.2	1.1	1.1	- 8
9	$\frac{-1.8}{1.9}$	1.8	$\frac{1.7}{1.7}$	$\frac{1.6}{1.6}$	$\frac{1.6}{1.6}$	$\frac{1.5}{1.5}$	$-\frac{1.4}{1.4}$	1.4	$\frac{1.3}{1.3}$	$\frac{1.3}{1.3}$	$\frac{1.2}{1.2}$	$\frac{1.1}{1.2}$	1.1	9
11	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.9	1.2	1.1	11
12 13	1.9 2.0	1.8 1.9	1. S 1. 8	1. 7 1. 7	1.6	1.6 1.6	1.5	1.4 1.4	1. 4 1. 4	1.3 1.3	1.2	1. 2 1. 2	1.1	12 13
14	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.2	14
15 16	$\frac{2.0}{2.1}$	$\frac{1.9}{2.0}$	1.9 1.9	1.8 1.8	1.7	1.6 1.6	1. 5 1. 6	1.5 1.5	1.4	1.3	1. 3 1. 3	1.2	1. 2 1. 2	15 16
17	2.1	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1. 2	17
18 19	2, 2 2, 2	2. 1 2. 1	$\begin{array}{c c} 2.0 \\ 2.0 \end{array}$	1.9 1.9	1.8	1.7	1.6 1.6	$\frac{1.5}{1.6}$	$\frac{1.5}{1.5}$	1.4	1.3	1.3 1.3	1. 2 1. 2	18 19
20	-2.3	2.1	2.0	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2	20
21 22 23	2.3 2.4	2. 2 2. 2	2. 1 2. 1	2. 0 2. 0	1.9 1.9	1.8	1.7	1.6 1.6	1.5 1.6	$1.5 \\ 1.5$	1.4	1.3	1.2	21 32
23	$\frac{2.4}{2.5}$	2.3 2.4	2. 2 2. 2	2. 1 2. 1	$\frac{2.0}{2.0}$	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	23 24
24	$\frac{2.5}{2.6}$	2.4	9.9	2.2	2.0	$-\frac{1.9}{1.9}$	$-\frac{1.8}{1.8}$	1.7	1.6	$\frac{1.5}{1.6}$	1.5	$-\frac{1.4}{1.4}$	$-\frac{1.3}{1.3}$	$\frac{-24}{25}$
26	2.6	2.5	2. 3 2. 4	2. 2 2. 3	2. 1 2. 1	$\frac{2.0}{2.0}$	1.9	1.8	1. 7	1.6	1.5 1.5	1.4	1.3	26
27 28	2.7 2.8	$\frac{2.6}{2.6}$	2.5	2, 3	2.2	2.1	$\frac{1.9}{2.0}$	1.8 1.8	1.7	1.6 1.6	1.5	1.4 1.5	1.4	27 28
30	$\frac{2.9}{3.0}$	-2.7	$\frac{2.5}{2.6}$	$\frac{2.4}{2.5}$	$\frac{2.3}{2.3}$	$\frac{2.1}{2}$	2.0	1.9	$\frac{1.8}{1.8}$	$\frac{-1.7}{1.7}$	$\frac{1.6}{1.6}$	$\frac{1.5}{1.5}$	1.4	30
31	3.1	$\frac{2.8}{2.9}$	2.7	2, 5	2.4	$\frac{2.2}{2.2}$	2. 0 2. 1	1.9 2.0	1. 8	1.7	1.6	1.5	1.4	31
32 33	3, 2	3.0	2.8	2.6 2.7	$\begin{array}{c c} 2.4 \\ 2.5 \end{array}$	2.3 2.4	2. 2	2.0 2.1	1.9 1.9	1.8	1.7	1.6 1.6	1.5	32 33
34	_3, 5	_3.2	3.0	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.7	1.6	1.5	34
35 36	3, 7	3, 4 3, 6	3.1	2. 9 3. 0	2.7 2.8	2. 5 2. 6	2. 3 2. 4	2. 2	2. 0 2. 1	1.9	1.8	1. 7 1. 7 1. 7	1.6 1.6	35 36
37	4.1	3.7	3.4	3. 2	2.9	2.7	2.5	2.3	9.9	2.0	1.9	1.7	1.6	37
38 39	4.3	$\frac{3.9}{4.2}$	3, 6	3. 3 3. 5	3, 0	2.8	2.6 2.7	2. 4 2. 5	2. 2 2. 3	2.1	1.9 2.0	1. 8 1. 8	1.7	38 39
40	5, 0	4.5	4.0	3.7	3.3	3.1	2.8	2.6 2.7	2.4	9 0	2.0	1.9	1.8	40
41 42	5, 4 5, 9	4, 8 5, 2	4.3 1.6	3, 9 4, 1	3.5	3. 2	2, 9 3, 1	2. 7	$\frac{2.5}{2.6}$	2.3 2.4 2.5	2.1	1.9 2.0	1.8 1.9	41 42
43 44	6.5 7.3	5, 2 5, 7 6, 3	5.0	4.4	4.0	3.6	3, 2	2. 9 3. 1	2. 7 2. 8	2.5 2.6	2.3	2. 1 2. 2	1.9 2.0	43 44
45	8.4	$\frac{-0.3}{7.0}$	5.4 6.0	$-\frac{4.8}{5.2}$	4.6	1.1	$-\frac{3.4}{3.6}$	3, 3	$\frac{2.8}{3.0}$	2.7	2.4	2, 2	2. 0 2. 1	45
46 47	9, 9 12, 1	8, 0 9, 5	6.7 7.7	5, 8 6, 5	5, 0 5, 5	4.4	3, 9 4, 2	3, 5	3.1	2.8 3.0	2. 6 2. 7	2.3	2. 1 2. 2	46 47
48	1 1	11.6	9, 1	7.4	6.2	5.3	4.6	4.0	3.6	3.2	2.8	2.6	2.3	48
49 50			11.1	$\frac{8.7}{10.6}$	$\frac{-7.1}{8.3}$	5. 9 6. 8	$=\frac{5,0}{5,6}$	$\frac{4.4}{4.8}$	$-\frac{3.8}{4.2}$	3.4	$\frac{3.0}{3.2}$	$\frac{2.7}{2.9}$	2.4	49 50
51				10.0	10.2	7.9	6, 4	5.4	4.6	4.0	3, 5	3.0	2.7	51
52 53						9.7	7.6	6.1	5, 1 5, 9	4, 3	3. S 4. 1	3. 3	2.9 3.1	52 53
54								8.8	6, 8	5, 5	4.6	3, 9	3.4	54
55 56	10. 2 7. 9	9.7							8, 3	6, 5 7, 9	5. 3 6. 1	4.3 5,0	3. 7 4. 1	55 56
57 58	6, 4	7.6	9.2	g 10	'						7.4	5. 8 7. 0	4. 7 5. 4	57
59	5, 4 4, 6	6. 1 5. 1	7. 2 5, 9	8, 8 6, 8	8, 3						1	1.0	6.6	58 59
60	4.0	1.3	4.9	5.5	6.5	7. 9					- 1			60
	510	500	510	547	550	562	57	350	590	60°	610	650	640	
		Dis	clination	of the	same nai	ne as th	eintitud	c, upper	transit.	reducti	on addit	lve.		

TABLE 26.

Lati-		Decli	nation o	f a differ	ent name	from th	e latitude	; upper to	ransit; rec	luction ac	iditive.		Lati-
tnde.	000	10	20	30	40	50	60	70	80	9°	100	110	tude.
•	"	"	"	"	"	"	"	"	"	"	"	"	٥
0 1				28.1	28, 1 22, 4	22. 4 18. 7	18.7 16.0	16.0 14.0	14. 0 12. 4	12. 4 11. 2	11. 1 10. 1	10. 1 9. 3	0
2 3		28.1	28.1	22.4 18.7	18.7 16.0	16.0 14.0	14. 0 12. 5	12.5 11.2	11. 2 10. 2	10.2 9.3	9.3 8.6	8.6	2 3
4	28.1	22.4	22.4 18.7	16.0	14.0	12.5	11. 2	10. 2	9.3	8.6	8.0	8.0 7.4	4
5	$\frac{22.4}{18.7}$	18.7	16.0	14.0	12.5 11.2 10.2 9.3	11. 2 10. 2 9. 3	10. 2 9. 3	9.3	8.6	8. 0 7. 5	7.4 7.0	7.0	5
5 6 7 8	16, 0	16. 0 14. 0	14.0 12.4	$12.5 \\ 11.2$	10. 2	9.3	8.6	8. 6 8. 0	8. 0 7. 5	7.0	6.6	6. 6 6. 2	5 6 7
8 9	14.0 12.4	12, 4 11, 2	12. 4 11. 2 10. 2	10. 2 9. 3	9.3 8.6	8.6 8.0	8.0 7.5	7. 5 7. 0	7. 0 6. 6	6. 6 6. 2	6. 2 5. 9	5.9 5.6	8 9
10	11.1	10. 1	9.3	8.6	8.0	7.4	$\frac{7.0}{7.0}$	6.6	6.2	5.9	5.6	$\frac{-5.6}{5.3}$	10
11	10.1 9.2 8.5	9.3	8.6	8. 0 7. 4	7. 4 7. 0	7.0 6.5	6. 6 6. 2	6, <b>2</b> 5, 9	5. 9 5. 6	5.6 5.3	5. 3 5. 0	5.1 4.8	11
12 13	8.5	8.5 7.9	7.9 7.4	6.9	6.5	6. 2	5.8	5.6	5.3	5.0	4.8	4.6	12 13
14 15	$\frac{7.9}{7.3}$	$\frac{7.4}{6.9}$	$\frac{6.9}{6.5}$	$\frac{6.5}{6.1}$	$\frac{6.2}{5.8}$	$\frac{5.8}{5.5}$	$\frac{5.5}{5.3}$	$\frac{5.3}{5.0}$	$\frac{5.0}{4.8}$	4.8	4.6	$\frac{4.4}{4.2}$	14 15
16	6.8	6.5	6.1	5.8	5.5	5, 2	5.0	4.8	4.6	4.4	4.2	4. 1	16
17 18	6. 4 6. 0	6. 1 5. 7	5.8 5.5	5. 5 5. 2	5. 2 5. 0	5. 0 4. 8	4.8 4.6	4.6 4.4	4.4	4. 2 4. 1	4. 1 3. 9	3. 9 3. 8	17 18
19	5.7	5.4	5.2	4.9	4.7	4.5	4.4	4.2	4.0	3.9	3.8	3.6	19
20 21	5.4 5.1	5. 1 4. 9	4.9 4.7	4.7	4. 5 4. 3	4.3 4.2	4. 2 4. 0	4.0	3. 9 3. 7	3. 8 3. 6	3. 6 3. 5	3. 5 3. 4	20 21
22	4.9	4.9	4.5	4.3	4.1	4.0	3.9	3.9 3.7	8.6	3.5	3.4	3.3	22 23
23 24	4.6 4.4	4. 4 4. 2	4.3 4.1	4.1 3.9	4. 0 3. 8	3. 8 3. 7	3. 7 3. 6	3. 6 3. 5	3. 5 3. 4	3. 4 3. 3	3. 3 3. 2	3. 2 3. 1	23
25	4. 2 4. 0	4.1	3.9	3.8	3. 7	3.5	3.4	3.3 3.2	3. 2	3.1	3.1	3.0	25
26 27	3.9	3. 9 3. 7	3.8 3.6	3. 6 3. 5	3. 5 3. 4	3. 4 3. 3	3. 3 3. 2	3.1	3. 1 3. 0	2. 9 2. 8	3. 0 2. 9 2. 8	2. 9 2. 8 2. 7	$\frac{26}{27}$
28 29	3. 9 3. 7 3. 5	3. 6 3. 4	3. 5 3. 3	3.4	3. 3 3. 1	3. 2 3. 1	3. 1 3. 0	3. 0 2. 9	2.9 2.8	2, 8 2, 8	2. 8 2. 7	9.6	28 29
30	3.4	3. 3	3. 2	3.1	3.0	3.0	2.9	2. 8 2. 7 2. 6 2. 5	2.7	2.7	2.6	2. 5 2. 5 2. 4 2. 3 2. 3	30
31 32	3. 3 3. 2	3, 2 3, 1	3, 1 3, 0	3. 0 2. 9	2. 9 2. 8 2. 7	2. 9 2. 8	2. 8 2. 7	2.7	2. 6 2. 6	2. 7 2. 6 2. 5 2. 4	2. 6 2. 5 2. 5	2.5	$\frac{31}{32}$
33	3.0	2.9	2.9	2.8	2. 7 2. 6	2. 7 2. 6	2. 6 2. 5	2. 5 2. 5	2.5	2. 4 2. 4	2.4	2. 3	33
34 35	$\frac{2.9}{2.8}$	$\frac{2.8}{2.7}$	$\frac{2.8}{2.7}$	$\frac{2.7}{2.6}$		$\frac{2.0}{2.5}$	$\frac{2.3}{2.4}$	$-\frac{2.0}{2.4}$	$\frac{2.4}{2.3}$	2.3	$\frac{2.3}{2.2}$	2. 2 2. 1	$\frac{34}{35}$
36 37	2.8 2.7 2.6	2.6 2.5	2. 7 2. 6 2. 5	2.5 2.4	2. 5 2. 5 2. 4	2. 5 2. 4 2. 3	2. 4 2. 3	2. 4 2. 3 2. 2	2.3 2.2	2, 2 2, 2	2. 2 2. 2 2. 1	2.1	36 37
38	2.5	2.5	2.4	2.4	2.3	2.3	2. 2	2.2	2, 1	2. 1	2.1	$\frac{2.1}{2.0}$	38
39 40	2.4	$\frac{2.4}{2.3}$	2.3	$\frac{2.3}{2}$	$\frac{2.2}{2.2}$	2.2	$\frac{2.1}{2.1}$	$\frac{2.1}{2.0}$	$\frac{2.1}{2.0}$	$\frac{2.0}{2.0}$	$\frac{2.0}{1.9}$	$\frac{2.0}{1.9}$	39 40
41	2.3 2.3	2. 2	2. 2 2. 2 2. 1	2. 2 2. 1 2. 1	2. 2 2. 1	2. 1 2. 1 2. 0	2.0	2.0	1.9	1.9	1.9	1.8	41
42 43	2. 2	2.1	2.1	$\begin{bmatrix} 2.1 \\ 2.0 \end{bmatrix}$	$\frac{2.0}{2.0}$	1.9	2. 0 1. 9	1.9 1.9	1.9 1.8	1.9 1.8	1. 8 1. 8 1. 7	$\frac{1.8}{1.7}$	42 43
44	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	$\frac{1.7}{1.7}$	$\frac{1.7}{1.7}$	$\frac{1.7}{1.0}$	44
45 46	2. 0 1. 9	1. 9 1. 9	1.9 1.8	1. 9 1. 8	1. 8 1. 8	1. 8 1. 7 1. 7	1.8 1.7	1. 7 1. 7	1. 7 1. 7	1.6	1.6	1.6 1.6	46
47 48	1.8 1.8	1.8 1.7	1.8	1. 7 1. 7	1.7 1.7	$\frac{1.7}{1.6}$	1.7 1.6	1.6 1.6	1.6 1.6	1.6 1.6	1.6 1.5	1.6 1.5	47 48
49	1.7	1.7	1.7 1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	49
50 51	1.6 1.6	1.6 1.6	1.6 1.6	1. 6 1. 5	1.6 1.5	1.5 1.5	1.5 1.5	1.5 1.5	1.5 1.4	1.5 1.4	1.4 1.4	1.4 1.4	50 51
52	1.5	1, 5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.3	52
53 54	1.5 1.4	1.5 1.4	1.4 1.4	1.4	1. 4 1. 4	1.4 1.3	1. 4 1. 3	1.4 1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3	53 54
55	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1. 2	1. 2 1. 2	1.2	55
56 57	1. 3 1. 3	1.3 1.3	1, 3 1, 3	1.3 1.2	1.3 1.2	1, 3 1, 2	1. 2 1. 2	1. 2 1. 2	1. 2 1. 2	1. 2 1. 2	1.1	1. 2 1. 1	56 57
58 59	1.2 1.2	1. 2 1. 2	1. 2 1. 2	1. 2 1. 2	1. 2 1. 1	1. 2 1. 1	1. 2 1. 1	1. I 1. 1	1. 1 1. 1	1. 1 1. 1	1.1 1.1	1. 1 1. 1	58 59
60	1.1	1.1	1.1	1.1	i. î	1. 1	1.1	1. 1	1.0	1 0	1.0	1.0	60
	00	10	50	3°	40	50	60	7°	80	90	100	110	
		Declin	ation of	a differe	ut name	from the	atitude	upper tr	ansit; red	uction ad	ldllive.		

TABLE 26.

Lati-		Decl	nation (	of a diffe	rent nar	ne from	the latit	ude; up	per trans	di; redu	ction ad	ditive.		Lati-
tude.	120	13°	140	15°	16°	170	180	19°	200	210	230	230	240	tude.
0 1 2 3 4	9, 2 8, 5 7, 9 7, 4 7, 0	8, 5 7, 9 7, 4 6, 9 6, 5	7. 9 7. 4 6. 9 6. 5 6. 2	7.3 6.9 6.5 6.1 5.8	6. 8 6. 5 6. 1 5. 8 5. 5	6. 4 6. 1 5. 8 5. 5 5. 2	6. 0 5. 7 5. 5 5. 2 5. 0	5. 7 5. 4 5. 2 4. 9 4. 7	5. 4 5. 1 4. 9 4. 7 4. 5	5.1 4.9 4.7 4.5 4.3	4.9 4.7 4.5 4.3 4.1	4.6 4.4 4.3 4.1 4.0	4.4 4.2 4.1 3.9 3.8	0 1 2 3 4
5 6 7 8 9	6.5 6.2 5.9 5.6 5.3	6. 2 5. 8 5. 6 5. 3 5. 0	5. 8 5. 5 5. 3 5. 0 4. 8	5. 5 5. 3 5. 0 4. 8 4. 6	5, 2 5, 0 4, 8 4, 6 4, 4	5. 0 4. 8 4. 6 4. 4 4. 2	4. 8 4. 6 4. 4 4. 2 4. 1	4.5 4.4 4.2 4.0 3.9	4. 3 4. 2 4. 0 3. 9 3. 8	4. 2 4. 0 3. 9 3. 7 3. 6	4.0 3.9 3.7 3.6 3.5	3. 8 3. 7 3. 6 3. 5 3. 4	3.7 3.6 3.5 3.4 3.3	5 6 7 8 9
10 11 12 13 14	5. 0 4. 8 4. 6 4. 4 4. 2 4. 1	4. 8 4. 6 4. 4 4. 3 4. 1 3. 9	4. 6 4. 4 4. 3 4. 1 3. 9 3. 8	4. 4 4. 2 4. 1 3. 9 3. 8	4. 2 4. 1 3. 9 3. 8 3. 7 3. 5	4.1 3.9 3.8 3.7 3.5 3.4	3. 9 3. 8 3. 7 3. 5 3. 4 3. 3	3. 8 3. 6 3. 5 3. 4 3. 3	3. 6 3. 5 3. 4 3. 3 3. 2 3. 1	3. 5 3. 4 3. 3 3. 2 3. 1 3. 0	3, 4 3, 3 3, 2 3, 1 3, 0 2, 9	3. 3 3. 2 3. 1 3. 0 2. 9 2. 8	3. 2 3. 1 3. 0 2. 9 2. 8	10 11 12 13 14
$ \begin{array}{r} 16 \\ 17 \\ 18 \\ 19 \\ \hline 20 \\ 21 \end{array} $	3.9 3.8 3.7 3.5 3.4 3.3	3. 8 3. 7 3. 5 3. 4 3. 3 3. 2	3. 7 3. 5 3. 4 3. 3 3. 2 3. 1	3, 5 3, 4 3, 3 3, 2 3, 1 3, 0	3. 4 3. 3 3. 2 3. 1 3. 0	3.3 3.2 3.1 3.0 2.9	3. 2 3. 1 3. 0 2. 9 2. 9 2. 8	3. 1 3. 0 2. 9 2. 9 2. 8 2. 7	3. 0 2. 9 2. 9 2. 8 2. 7 2. 6	2.9 2.8 2.8 2.7 2.6 2.6	2.8 2.8 2.7 2.6 2.6 2.5	2.8 2.7 2.6 2.6 2.5 2.4	2. 7 2. 6 2. 5 2. 5 2. 4 2. 4	16 17 18 19
22 23 24 25 26	3. 2 3. 1 3. 0 2. 9	3. 1 3. 0 2. 9 2. 7 2. 7	3. 0 2. 9 2. 8 2. 7 2. 7	2.9 2.8 2.8 2.7 2.6	2.9 2.8 2.8 2.7 2.6 2.5	2.8 2.8 2.7 2.6 2.5 2.5	2. 7 2. 6 2. 5	2.6 2.6 2.5	2.6 2.5 2.4 2.4	2.6 2.6 2.5 2.4 2.4 2.3 2.3	2. 4 2. 4 2. 3	2.5 2.4 2.4 2.3 2.3 2.3 2.2	2.3 2.3 2.2 2.2 2.1 2.1	21 22 23 24 25 26
27 28 29 30 31 32	2. 6 2. 6 2. 6 2. 4 2. 3 2. 3	2.7 2.6 2.5 2.4 2.4 2.3	2.6 2.5 2.4 2.4 2.3 2.2 2.2	2.5 2.5 2.4 2.3 2.3 2.2	2.5 2.4 2.3 2.3 2.2 2.2	2. 4 2. 3 2. 3 2. 2 2. 2 2. 2 2. 1	2. 4 2. 3 2. 2 2. 2 2. 1 2. 1	2. 4 2. 4 2. 3 2. 2 2. 2 2. 1 2. 1	2. 2 2. 2 2. 1 2. 1 2. 0 2. 0	2.3 2.3 2.2 2.1 2.1 2.0 2.0 1.9	2. 2 2. 1 2. 1 2. 0 2. 0 2. 0 1. 9	2. 1 2. 1 2. 1 2. 0 2. 0 1. 9 1. 9	2.1 2.0 2.0 1.9 1.8	27 28 29 30 31 32
33 34 35 36 37	2. 2 2. 2 2. 1 2. 0	2. 2 2. 2 2. 1 2. 1 2. 0	2. 1 2. 1 2. 0 2. 0	2.1 2.1 2.0 2.0 1,9	$ \begin{array}{c c} 2.1 \\ 2.0 \\ \hline 2.0 \\ 1.9 \\ 1.9 \end{array} $	$\begin{bmatrix} 2.1 \\ 2.0 \\ -2.0 \\ 1.9 \\ 1.9 \end{bmatrix}$	$ \begin{array}{r} 2.0 \\ 2.0 \\ \hline 1.9 \\ 1.8 \end{array} $	1.9 1.9 1.8 1.8	$ \begin{array}{r} 1.9 \\ 1.9 \\ 1.8 \\ 1.8 \end{array} $	1.9 1.9 1.8 1.8 1.7 1.7	1.9 1.8 1.8 1.7 1.7	1.8 1.8 1.7 1.7 1.7	$ \begin{array}{r} 1.8 \\ 1.8 \\ \hline 1.7 \\ 1.7 \\ 1.6 \end{array} $	33 34 35 36 37
$-rac{38}{40}$ $-rac{40}{41}$ $-rac{42}{43}$	2.0 1.9 1.9 1.8 1.8 1.7	1.9 1.9 1.8 1.8 1.7 1.7	$ \begin{array}{r} 1.9 \\ 1.9 \\ 1.8 \\ 1.8 \\ 1.7 \\ 1.7 \end{array} $	1. 9 1. 8 1. 7 1. 7 1. 6	1. 8 1. 8 1. 7 1. 7 1. 7 1. 7	1.8 1.8 1.7 1.7 1.6 1.6	1.8 1.7 1.6 1.6 1.6	1.8 1.7 1.7 1.6 1.6 1.5	1.8 1.7 1.7 1.6 1.6 1.6 1.5	1.6 1.6 1.5 1.5	1.6 1.5 1.5 1.5	1. 6 1. 6 1. 5 1. 5 1. 4	1.6 1.6 1.5 1.5 1.5 1.4	38 39 40 41 42 43
44 45 46 47 48 49	1. 7 1. 6 1. 6 1. 5 1. 5 1. 4	1.6 1.6 1.5 1.5 1.4	-1.6 1.6 1.5 1.5 1.4 1.4	1. 6 1. 5 1. 5 1. 5 1. 4 1. 4	1. 6 1. 5 1. 5 1. 4 1. 4	1.5 1.5 1.5 1.4 1.1	1.5 1.5 1.4 1.4 1.4	1.5 1.5 1.4 1.4 1.4	1.5 1.4 1.4 1.4 1.3 1.3	1. 5 1. 4 1. 4 1. 3 1. 3 1. 3	1.4 1.4 1.3 1.3 1.3	1. 4 1. 3 1. 3 1. 3 1. 3	1.4 1.3 1.3 1.3 1.3	44 45 46 47 48 49
50 51 52 53 54 55	1. 4 1. 4 1. 3 1. 3 1. 2 1. 2	1. 4 1. 3 1. 3 1. 3 1. 2 1. 2 1. 1	1.4 1.3 1.3 1.3 1.2	1.3 1.3 1.3 1.2 1.2 1.2	1.3 1.3 1.3 1.2 1.2	1.3 1.3 1.3 1.2 1.2	1.3 1.3 1.2 1.2 1.2	1.3 1.2 1.2 1.2 1.1	1.3 1.2 1.2 1.2 1.1	1.3 1.2 1.2 1.2 1.1	1.2 1.2 1.2 1.1 1.1	1.2 1.2 1.1 1.1 1.1	1.2 1.2 1.1 1.1 1.1	50 51 52 53 54 55
56 57 58 59 60	1. 2 1. 1 1. 1 1. 1 1. 0	1. 1 1. 1 1. 1 1. 0 1. 0	1. 1 1. 1 1. 1 1. 0 1. 0	1. 1 1. 1 1. 1 1. 0 1. 0	1. 1 1. 1 1. 0 1. 0 1. 0	1. 1 1. 1 1. 0 1. 0 1. 0	1. 1 1. 1 1. 0 1. 0 1. 0	1. 1 1. 0 1. 0 1. 0 0. 9	1. 1 1. 0 1. 0 1. 0 0. 9	1. 1 1. 0 1. 0 1. 0 0. 9	1. 0 1. 0 1. 0 1. 0 0. 9	1. 0 1. 0 1. 0 0. 9 0. 9	1.0 1.0 1.0 0.9 0.9	56 57 58 59 60
	120	18	140	150	16°	170	15°	190	50.	210	ggo other ad	230	247	
		Decl	ination	of a diffe	rent nai	me from	the latit	ude; up	per tran	sit; redu	ction ad	ditive.		

Lati-		Decli	nation o	f a dlffer	ent nan	ne from t	the latit	ıde; upp	er trans	it; redu	ction ad	ditive.		Lati-
tude.	250	260	270	290	29°	300	31°	320	33°	340	350	360	370	tude.
0 1 2 3 4 5 6 7 8	4.2 4.1 3.9 3.8 3.7 3.6 3.4 3.3 3.2	4.0 3.9 3.8 3.6 3.5 3.4 3.3 3.2 3.1 3.0	3.9 3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0	3. 7 3. 6 3. 5 3. 4 3. 3 3. 2 3. 1 3. 0 2. 9	3.5 3.4 3.3 3.2 3.2 3.1 3.0 2.9 2.8 2.8	3. 4 3. 3 3. 2 3. 1 3. 0 2. 9 2. 8 2. 7 2. 7	3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.7 2.6	3. 1 3. 1 3. 0 2. 9 2. 8 2. 7 2. 6 2. 6 2. 5	3.0 2.9 2.9 2.8 2.7 2.6 2.5 2.5	2.9 2.8 2.7 2.6 2.5 2.5 2.4	2.8 2.7 2.7 2.6 2.6 2.5 2.4 2.4 2.3	2.7 2.6 2.5 2.5 2.4 2.3 2.3 2.3	2.6 2.6 2.5 2.4 2.4 2.3 2.3 2.3 2.2	0 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17	3. 1 3. 0 2. 9 2. 8 2. 7 2. 6 2. 5 2. 5	3.0 2.9 2.8 2.7 2.7 2.6 2.5 2.5 2.4	2.9 2.8 2.7 2.7 2.6 2.5 2.5 2.4	2. 9 2. 8 2. 7 2. 6 2. 6 2. 5 2. 4 2. 3 2. 3	2.8 2.7 2.6 2.6 2.5 2.4 2.3 2.3 2.2	2.7 2.6 2.5 2.5 2.4 2.4 2.3 2.3 2.2	2. 6 2. 5 2. 5 2. 4 2. 4 2. 3 2. 3 2. 2 2. 2 2. 1	2. 5 2. 4 2. 3 2. 3 2. 3 2. 3 2. 2 2. 2 2. 1 2. 1	2.4 2.4 2.3 2.3 2.2 2.2 2.1 2.1 2.1	2.4 2.3 2.3 2.2 2.2 2.1 2.1 2.0 2.0	2.3 2.2 2.2 2.2 2.1 2.1 2.0 2.0 2.0	2.3 2.2 2.1 2.1 2.1 2.0 2.0 1.9	2. 2 2. 2 2. 1 2. 1 2. 0 2. 0 2. 0 2. 0 1. 9 1. 9	8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26	2. 4 2. 3 2. 3 2. 2 2. 2	2. 4 2. 3 2. 3 2. 2 2. 2 2. 2	2. 4 2. 3 2. 3 2. 2 2. 2 2. 1 2. 1	2.3 2.2 2.1 2.1 2.1 2.0 1.9	2. 2 2. 2 2. 1 2. 1 2. 1 2. 0 2. 0 1. 9 1. 9	2. 2 2. 1 2. 1 2. 0 2. 0 2. 0 1. 9	2. 1 2. 1 2. 0 2. 0 2. 0 1. 9 1. 9 1. 8 1. 8	2.0 2.0 2.0 1.9 1.9	2.0 2.0 1.9 1.9 1.8 1.8	2.0 1.9 1.9 1.8 1.8 1.7 1.7	1.9 1.9 1.8 1.8 1.8 1.7	1.9 1.8 1.8 1.7 1.7 1.7	1.8 1.8 1.7 1.7 1.7 1.7 1.6	18 19 20 21 22 23 24 25
27 28 29 30 31 32 33 34	2. 1 2. 1 2. 0 2. 0 1. 9 1. 8 1. 8 1. 8	2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.8	2. 0 1. 9 1. 9 1. 8 1. 8 1. 7 1. 7	1.9 1.9 1.8 1.8 1.7 1.7 1.7	1.9 1.8 1.7 1.7 1.7 1.6 1.6	1. 9 1. 8 1. 8 1. 7 1. 7 1. 6 1. 6 1. 6	1. 8 1. 7 1. 7 1. 6 1. 6 1. 6 1. 5	1. 8 1. 8 1. 7 1. 7 1. 7 1. 6 1. 6 1. 6 1. 5	1.8 1.7 1.7 1.7 1.6 1.6 1.5 1.5	1.6 1.6 1.5 1.5 1.5 1.5	1.7 1.6 1.6 1.5 1.5 1.5 1.5	1. 6 1. 6 1. 5 1. 5 1. 5 1. 5 1. 4 1. 4	1.6 1.6 1.5 1.5 1.5 1.4 1.4	26 27 28 29 30 31 32 33 34
35 36 37 38 39 40 41 42 43 44	1. 7 1. 6 1. 6 1. 6 1. 5 1. 5 1. 5 1. 4 1. 4 1. 4	1.7 1.6 1.6 1.5 1.5 1.4 1.4 1.4	1.6 1.6 1.5 1.5 1.4 1.4 1.4 1.3	1. 6 1. 6 1. 5 1. 5 1. 5 1. 4 1. 4 1. 4 1. 3 1. 3	1.6 1.5 1.5 1.4 1.4 1.4 1.4 1.3 1.3	1.5 1.5 1.5 1.4 1.4 1.3 1.3	1.5 1.5 1.4 1.4 1.4 1.3 1.3 1.3	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3	1. 5 1. 4 1. 4 1. 4 1. 3 1. 3 1. 3 1. 2 1. 2	1. 4 1. 4 1. 4 1. 3 1. 3 1. 3 1. 2 1. 2 1. 2	1.4 1.4 1.3 1.3 1.3 1.2 1.2	1.4 1.4 1.3 1.3 1.3 1.2 1.2 1.2	1.4 1.3 1.3 1.3 1.2 1.2 1.2 1.2	35 36 37 38 39 40 41 42 43 44
45 46 47 48 49 50 51 52	1. 3 1. 3 1. 3 1. 2 1. 2 1. 2 1. 2 1. 2	1.3 1.3 1.3 1.2 1.2 1.2 1.1	1. 3 1. 3 1. 2 1. 2 1. 2 1. 2 1. 1	1.3 1.3 1.2 1.2 1.2 1.1 1.1	1. 3 1. 2 1. 2 1. 2 1. 2 1. 1 1. 1	1. 2 1. 2 1. 2 1. 1 1. 1 1. 1	1. 2 1. 2 1. 2 1. 1 1. 1 1. 1 1. 1	1. 2 1. 2 1. 2 1. 1 1. 1 1. 1 1. 1	1. 2 1. 2 1. 1 1. 1 1. 1 1. 1	1. 2 1. 2 1. 1 1. 1 1. 1	1. 2 1. 1 1. 1 1. 1 1. 1	1. 1 1. 1 1. 1 1. 1	1.111.1	45 46 47 48 49 50 51 52 53
53 54 55 56 57 58 59 60	1. 1 1. 0 1. 0 1. 0 1. 0 0. 9	1. 1 1. 0 1. 0 1. 0 1. 0 0. 9	1. 1 1. 0 1. 0 1. 0 1. 0	1. 1 1. 0 1. 0 1. 0	1.0 1.0 1.0	1.0	1.0					0.8	0. 8 0. 8	53 54 55 56 57 58 59 60
	250	260	270	280	290	300	310	320	330	340	35°	36°	37°.	
		Decl	ination	of the sa	me nam	e as the	latitude	; lower	transit;	reductio	n subtra	scilve.		

TABLE 26.

0	0 2.5 2.4 2.3 2.3 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 1.2 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.3 2.2 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.2 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.2 2.1 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0 2.5 2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 2.2 2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 2.3 2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 2.3 2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 2.3 2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.2 2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.2 2 2.2 1.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.2 2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.5 1.9 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Lati- tude.	#50 1												500	La
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28	28	de.  0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25	2.5 2.4 2.4 2.3 2.2 2.2 2.1 2.1 2.0 1.9 1.9 1.8 1.8 1.7 1.7 1.7 1.7 1.6 1.6	39° 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.3 2.2 2.2 2.2 2.1 2.0 1.9 1.8 1.8 1.8 1.7 7.6 6.6 1.6 1.6 1.5	"" 2.3 2.3 2.2 2.2 2.2 2.2 1 2.1 2.0 2.0 1.9 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.5 1.5	41°  " 2.3 2.2 2.1 2.1 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.6 1.5 1.5 1.5	2.2 2.1 2.1 2.1 2.0 2.0 2.0 1.9 1.9 1.7 1.7 1.7 1.7 1.7 1.6 6.6 6.5 5.1,5 5.1,5	43°  " 2.1 2.1 2.0 2.0 2.0 2.0 1.9 1.9 1.9 1.7 1.7 1.7 1.6 6 6 6 6 6 1.5 1.5 1.5 1.4 1.4	2.0 2.0 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.4 1.4	45°  " 2.0 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.7 1.7 1.6 1.6 1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.4 1.4 1.4	1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.6 1.6 1.5 1.5 1.5 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.3 1.3	1.8 1.8 1.8 1.8 1.7 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.4 1.4 1.4 1.3 1.3 1.3	1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	49° " 1.7 1.7 1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.5 1.5 1.4 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.2 1.2	11 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
	39 1, 2 1, 2 1, 2 1, 2 1, 2 1, 2 1, 1 1, 1 1, 1 1, 1 4, 1 1, 2 1, 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	1.7 1.6 1.6 1.6 1.5 1.5 1.5 1.5 1.4 1.4 1.4	1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.4 1.3 1.3 1.3	1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.4 1.3 1.3 1.3	1.5 1.5 1.5 1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3	1.5 1.5 1.4 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2 1.2	1.4 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2 1.2	1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.2 1.2 1.2 1.2	1. 4 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3 1. 2 1. 2 1. 2 1. 2 1. 2 1. 2 1. 2	1.3 1.3 1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.1 1.1	1.3 1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.1 1.1	1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.1 1.1 1.1	1. 2 1. 2 1. 2 1. 2 1. 2 1. 1 1. 1 1. 1	222223333333333333333333333333333333333

tude.    Sign   Sign	Lati-		Dec	lination	of a diff	erent na	me fron	the lati	itude; u	pper trai	asit; red	uction a	dditive.		Lati-
0 1.6	tude.	510	520	530	540	550	560	570	580	59°	60°	61°	620	680	tude.
1															
4		1.6	1.5	1.5	1.4	1.4	1.3	1.3	1, 2	1.2	1.1	1.1	1.0	1.0	1
5	3	1.5	1, 5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	3
10		1.5	1.4	1.4	1.3	1.3	1.2	1.2	$\frac{1.2}{1.2}$	1.1	1.1	1.0	1.0	1.0	
10	6 7	1.4	1.4	1.4	1.3	1.3	$\frac{1.2}{1.2}$	1. 2 1. 2	1.2 1.1	1. 1 1. 1	1.1 1.1	1.0 1.0	1.0 1.0		6 7
10	8 9	1.4	1.4	1.3	1.3	1.3	1. 2 1. 2	1.2	1.1	1.1	1.1	1.0	1.0	0.9	8 9
15	10	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	10
15	12	1.4	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.9	12
15	14	1.3	1.3	1.3	1.2	$\frac{1.2}{1.2}$	1.1	1.1	1.1	1.0					13 14
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 16	1.3	1.3	1. 2 1. 2	1.2	1.2 1.1		1. 1 1. 1	1.1	1. 0 1. 0	1.0			0.9	15 16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 18	1.3	$\frac{1.2}{1.2}$	1.2	1.2	1.1	1.1	1.1	1.0	.1.0	1.0	0.9	0.9	0.9	17
23	19	1, 2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	19
23	20 21	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9		21
25	23	1.2	1. 2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9		22 23
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\frac{1.2}{1.2}$									0.9				25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26 27	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9					1	26
30	28 29	1.1	1.1	1.1	1.0	1.0	1.0								28
32	30	1.1	1.1	1.0											30
34	32	1.1	1.0	1.0											32
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	34	1.1												0.7	34
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	36										0.8		0.8	0. 7 0. 7	36
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37								0.8		0.8	0.8	0.7 0.7	0.7	37
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	39						7.0		0.8	0.8	0.8	0, 8	0.7	0.7	39
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	41				0.0	0.9	0.8	0.8	0.8	0.8	0, 8	0.7	0.7	0.7	41
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	43				0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	43
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	45	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	$\frac{0.8}{0.7}$	$\frac{0.7}{0.7}$	0.7	0.7	0.7	45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.9			0.8	0.8	0.8	0.8	$\begin{bmatrix} 0.7 \\ 0.7 \end{bmatrix}$	0.7	0.7 0.7	0, 7 0, 7	0.7	$\frac{46}{47}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	48	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0. 7 0. 7	0. 7 0. 7	0. 7 0. 7	0.7		48
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	50
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	52	0.8	0.8	0, 8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	52
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	54	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	54
510 520 530 540 550 560 570 580 590 600 610 620 630	56	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0, 6	0.6	0, 6	0, 6	0.6	0.6	56
510 520 530 540 550 560 570 580 590 600 610 620 630	57	0.7	0.7	0.7	[-0.7]	0.7	0.7	0.6						0. 6	57 58
510 520 530 540 550 560 570 580 590 600 610 620 630	59	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	59
Declination of the same name as the latitude; lower transit; reduction subtractive.		-								590				630	
			D	eclinatio	on of the	same na	ime as t	he latitu	de; lowe	r transii	t; reduct	ion subt	ractive.		

Page 714]

TABLE 27.

Reduction to be applied to Altitudes near the Meridian.

Var.					T	me fron	n meridi	an passa	ge.					Var. 1 min.
1 min. (Table 26.)	m. s. 0 80	m. s. 1 0	m. s. 1 30	m. s. 2 0	m. s. 2 30	m. s. 3 0	m. s. 3 30	m, s, 4 0	m. s. 4 30	m. s. 5 0	m. s. 5 30	m. s. 6 0	m. s. 6 30	(Table 26.)
"	, ,,	, ,,	, ,,	. ,,	, ,,	, ,	, ,,	, ,,	, ,,	, ,,	, ,,	. ,,	, ,	"
0.1	0.0	0 0	0 0	0 0	0 1	0 1	0 1	0 2	0 2	0 2	0 3	0 4	0 4	0.1
-0.2	0.0	0 0	0 0	0 1	0 1	0 2	0 3	0 3	0 4	0 5	0 6	0 7	0 8	0.2
0, 3	0.0	0 0	0 1	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 9	0 11	0 13	0.3
0.4	0.0	0 0	0 1	0 2	0 2	0 4	0 5	0 6	0 8	0 10	0 12	0 14	0 17	0.4
0.5	0 0	$\begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 \\ 0 & 1 \end{bmatrix}$	$\begin{bmatrix} 0 & 2 \\ 0 & 2 \end{bmatrix}$	0 3	0 4 0 5	0 6	0 8	$\begin{array}{c} 0 & 10 \\ 0 & 12 \end{array}$	0 12 0 15	0 15 0 18	$\begin{array}{c} 0.18 \\ 0.22 \end{array}$	0 21 0 25	0. 5 0. 6
0. 7	0 0	0 1	$\begin{bmatrix} 0 & 1 \\ 0 & 2 \end{bmatrix}$	0 3	0 4	0 6	0 9	0 11	0 14	0 17	0 21	0 25	0 30	0.7
0.8	őő	ŏ î	0 2	0 3	0 5	0 7	0 10	0 13	0 16	0 20	0 24	0 29	0.34	0.8
0.9	0.0	0 1	0 2	0 4	0 6	0 8	0 11	0 14	0.18	0 22	0 27	0.32	0.38	0.9
1.0	0.0	0 1	0 2	0 4	0 6	0 9	0 12	0 16	0.20	0 25	0 30	0 36	0 42	1.0
2.0	0.0	0 2	0 4	0 8	0 12	0 18	0 24	0 32	0.41	0.50	1 0	1 12	1 24	2.0
3.0	0 1	0 3	0 7	0 12	0 19	0 27	0 37	0 48	1 1	1 15	1 31	1 48	2 6	3.0
4.0 5.0	0 1	0 4 0 5	$\begin{bmatrix} 0 & 9 \\ 0 & 11 \end{bmatrix}$	0 16	0 25	0 36	0 49	$\begin{array}{c c} 1 & 4 \\ 1 & 20 \end{array}$	1 21	1 40	2 1 2 31	2 24 3 0	2 49 3 31	4. 0 5. 0
6,0		$\frac{0}{0} \frac{3}{6}$	0 11	0 24	0 37	0 54	1 13	1 36		$\frac{2}{2} \frac{6}{30}$		3 36	4 13	6, 0
7.0	$\begin{array}{c c}0&1\\0&2\end{array}$	0 7	0 16	0 28	0 44	1 3	1 26	$\frac{1}{1}\frac{50}{52}$		2 55	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 12	4 15	7.0
8.0	0 2	0 8	0 18	0 32	0 50	i 12	1 38	2 8	2 22 2 42	3 20	4 2	4 48	5 38	8.0
9.0	0 2	0 9	0 20	0 36	0.56	1 21	1 50	2 24	3 2	3 45	4 32	5 24	6 20	9.0
10.0	0 2	0 10	0 22	0 40	1 2	1 30	2 3	2 40	3 23	4_10	5 2	6 0	7 2	10.0
11.0	0.3	0 11	0.25	0 44	1 9	1 39	2 15	2.56	3 43	4 35	5 32	6 36	7 45	11.0
12.0	0 3	0 12	0 27	0 48	1 15	1 48	2 27	3 12	4 3	5 0	6 3	7 12	8 27	12.0
13.0 14.0	03	0 13	0 29	0 52 0 56	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{bmatrix} 1 & 57 \\ 2 & 6 \end{bmatrix}$	2 39 2 51	3 28	4 23 4 43	5 25 5 50	6 33	7 48 8 24	9 9 9 9 51	13. 0 14. 0
15.0	0 4	0 15	0 34	1 0	1 34	2 15	3 4	4 0	5 3	6 15	7 34	9 0	10 34	15.0
16.0	0.4	0 16	0.36	1 4	1 40	2 24	3 16	4 16	5 24	6 40	8 4	9 36	11 16	16.0
17.0	0.4	0 17	0.38	li s	1 46	2 33	3 28	4 32	5 44	7 5	8 34	10 12	11 58	17.0
18.0	0.4	0.18	0.40	1 12	1 52	2 42	3 40	4 48	6 4	7 30	9 4	10 48	12 40	18.0
19.0	0.5	0 19	0.43	1 16	1.59	2 51	3 53	5 4	6 25	7 55	9 35	11 24	13 23	19.0
20.0	0.5	0.20	0.45	1 20	2 5	3_0	4 5	5 20	6_45	8 20	10_5	12 0	14 5	20, 0
21.0	0.5	0 21	0 47	1 24	2 11	3 9	4 17	5 36	7 5	8 45	10 35	12 36	14 47	21.0
22. 0 23. 0	0.5	0 22 0 23	0 49 0 52	1 28 1 32	2 17 2 24	3 18	4 30 4 42	5 52 6 8	7 25 7 46	9 10 9 35	11 5 11 36	13 12 13 48	15 29 16 12	22. 0 23. 0
24.0	0.6	0 23	0.54	1 36	2 24 2 30	3 36	4 42	6 8	8 6	10 0	12 6	14 24	16 54	$\frac{23.0}{24.0}$
25. 0	0.6	0 25	0.56	1 40	2 36	3 45	5 6	6 40	8 26	10 25	12 36	15 0	10 01	25.0
26.0	0 6	0 26	0.58	1 44	2 42	3 54	5 18	6.56	8 46	10 50	13 6			26.0
27.0	0 7	0 27	1 1	1 48	2 49	4 3	5 30	7 12	9 7	11 15				27.0
28.0	0.7	0 28	1 3	1 52	2.55	4 12	5 43	7 28	9 27	11 40			l	28.0
		!				1	1	,		1				1

Reduction to be applied to Altitudes near the Meridian.

Var.					T	ime fron	n meridi	an passa	ge.					Var.
1 min. (Table 26.)	m. ε. 7 0	m, s. 7 30	m. s. 8 0	m. s. S 30	m. s. 9 0	m. s. 9 30	m. s. 10 0	m. s. 10 30	m. s. 11 0	m. s. 11 30	m. s. 12 0	m. s. 12 30	m. s. 13 0	1 min. (Table 26.)
0.1	0 5	0 6	0 6	0 7	0 8	0 9	0 10	0 11	0 12	0 13	, , 0 14	0 16	ó 17	0.1
0.1	0 10	0 11	0 13	0 14	0 16	0 18	0 20	0 22	0 24	0 26	0 29	0 31	0 34	0.1
0.3	0 15	0 17	0 19	0 22	0 24	0 27	0 30	0 33	0 36	0 40	0 43	0 47	0 51	0.3
0.4	0 20	0 23	0 26	_0 29	0 32	0 36	0 40	0 44	0 48	0.53	0 58	1 2	1 8	0.4
0.5	0 24	0 28	0 32	0 36	0 40	0 45	0.50	0 55	1 0	1 6	1 12	1 18	1 24	0.5
0.6	$\begin{array}{c} 0.29 \\ 0.34 \end{array}$	0 34	0 38	0 43	0 49 0 57	0 54	1 0 1 10	1 6 1 17	1 13 1 25	1 19 1 33	1 26 1 41	1 34 1 49	1 41 1 58	$0.6 \\ 0.7$
0. 8	0 39	0 45	0 51	0 58	1 5	1 12	1 20	1 28	1 37	1 46	1 55	2 5	2 15	0.7
0.9	0 44	0 51	0 57	1 5	1 13	1 21	1 30	1 39	1 49	1 59	2 10	2 21	2 32	0.9
1.0	0.49	0 56	1 4	1 12	1 21	1 30	1 40	1 50	2 1	2 12	2 24	2 36	2 49	1.0
2.0	1 38	1 52	2 8	2 24	2 42	3 0	3 20	3 40	4 2	4 24	4 48	5 12	5 38	2.0
3.0 4.0	$\begin{array}{c} 2 & 27 \\ 3 & 16 \end{array}$	2 49 3 45	3 12 4 16	3 37 4 49	4 3 5 24	4 30 6 1	5 0 6 40	5 31 7 21	6 3 8 4	6 37 8 49	7 12 9 36	7 49 10 25	8 27 11 16	3.0 4.0
5.0	4 5	4 41	5 20	6 1	6 45	7 31	8 20	9 11	10 3	11 1	12 0	13 1	14 5	5.0
6.0	4 54	5 37	6 24	7 14	8 6	9 1	10 0	11 1	12 6	13 13	14 24	15 37	16 54	6.0
7.0	5 43	6 34	7 28	8 26	9 27	10 32	11 40	12 52	14 7	15 26		18 14	19 43	7.0
8.0	6 32	7 30	8 32	9 38	10 48 12 9	12 2	13 20	14 42	16 8	17 38	19 12	20 50	22 32	8.0
9.0 10.0	7 21 8 10	8 26 9 22	9 36 10 40	$\begin{array}{c c} 10 & 50 \\ 12 & 2 \end{array}$	12 9 13 30	13 32 15 2	15 0 16 40	$\frac{16}{18} \frac{32}{22}$	18 9 20 10	$\begin{array}{c c} 19 & 50 \\ 22 & 2 \end{array}$	$\begin{bmatrix} 21 & 36 \\ 24 & 0 \end{bmatrix}$	$\begin{bmatrix} 23 & 26 \\ 26 & 2 \end{bmatrix}$	25 21 28 10	9, 0 10, 0
11.0	8 59	10 19	11 44	13 15	14 51	16 33	18 20	20 13	$\frac{20}{22} \frac{10}{11}$	24 15	26 24	28 39	20 10	11.0
12.0	9 48	11 15	12 48	14 27	16 12	18 3	20 0	22 3	24 12	26 27	28 48	20 33		12.0
13.0	10 37	12 11	13 52	15 39	17 33	19 33	21 40	23 53	26 13	28 39				13.0
14.0	11 26	13 7	14 56	16 51	18 54	21 3	23 20	25 43	28 14		l			14.0
15.0	12 15 13 4	14 4	$\frac{16}{17} \frac{0}{4}$	18 14	20 15	22 34	25 0	27 34						15.0
16.0 17.0	13 4 13 53	15 0 15 56	17 4 18 8	19 16 20 28	$\frac{21}{22} \frac{36}{57}$	$\frac{24}{25} \frac{4}{34}$	26 40							$16.0 \\ 17.0$
18.0	14 42	16 52	19 12	21 40	24 18	20 04		1		1	1			18.0
19.0	15 31	17 49	20 16		"	l			1	1	1			19.0
20.0	16 20	18 45												20.0
21.0	17 9	_		_	_			_						21.0

# Page 716]

TABLE 27.

### Reduction to be applied to Altitudes near the Meridian

Var.					Т	ime from	n meridi	ian passe	ige.					Var. 1 min.
(Table 26.)	m. s. 13 30	m. s. 14 0	m. s 14 30	m. s. 15 0	m. s. 15 80	m. s. 16 0	m. s. 16 30	m, s. 17 0	m, s. 17 30	m. s. 15 0	m. s. 15 80	m. s. 19 0	71. s. 19 30	(Table 26.)
0. 1 0. 2 0. 3 0. 4	0 18 0 36 0 55 1 13	0 20 0 39 0 59 1 18	0 21 0 42 1 3 1 24	0 22 0 45 1 7 1 30	0 24 0 48 1 12 1 36	0 26 0 51 1 17 1 42	0 27 0 54 1 22 1 49	0 29 0 58 1 27 1 56	0 31 1 1 1 32 2 2	0 32 1 5 1 37 2 10	0 34 1 8 1 43 2 17	0 36 1 12 1 48 2 24	0 38 1 16 1 54 2 32	0. 1 0. 2 0. 3 0. 4
0. 5 0. 6 0. 7 0. 8 0. 9	1 31 1 49 2 8 2 26 2 44	1 38 1 58 2 17 2 37 2 56	1 45 2 6 2 27 2 48 3 9	1 52 2 15 2 37 3 0 3 22	2 0 2 24 2 48 3 12 3 36	2 8 2 34 2 59 3 25 3 50	2 16 2 43 3 11 3 38 4 5	2 24 2 53 3 22 3 51 4 20	2 33 3 4 3 34 4 5 4 36	2 42 3 14 3 47 4 19 4 52	2 51 3 25 4 0 4 34 5 8	3 1 3 37 4 13 4 49 5 25	3 10 3 48 4 26 5 4 5 42	0.5 0.6 0.7 0.3 0.9
1. 0 2. 0 3. 0 4. 0 5. 0	3 2 6 4 9 7 12 9 15 11	3 16 6 32 9 48 13 14 16 20	3 30 7 0 10 30 14 1 17 31	3 45 7 30 11 15 15 0 18 45	4 0 8 0 12 1 16 1 20 1	4 16 8 32 12 48 17 4 21 20	4 32 9 4 13 38 18 9 22 41	4 49 9 38 14 27 19 16 24 5	5 6 10 12 15 19 20 25 25 31	5 24 10 48 16 12 21 36 27 0	5 42 11 24 17 7 22 49 28 31	6 1 12 2 18 3 24 4	6 20 12 40 19 1 25 21	1.0 2.0 3.0 4.0 5.0
6. 0 7. 0 8. 0 9. 0	18 13 21 16 24 18 27 20	19 36 22 52 26 8	21 2 24 32 28 2	22 30 26 15	24 1 28 1	25 36	27 13		1					6. 0 7. 0 8. 0 9. 0
Var.					Т	ime from	n merid	ian pass	ige.					Var.
1 min. (Table 26.)	m. s. 20 0	m. s. 20 30	m. s. 21 0	m. s. 21 80	m. s. 22 0	m. s. 22 30	m. s. 28 0	m. s. 23 30	m. s 24 0	74 80	m. s. 25 0	m. s. 25 30	m. s. 26 0	1 min. (Table 26.)
0. 1 0. 2 0. 3 0. 4	0 40 1 20 2 0 2 40	0 42 1 24 2 6 2 48	0 44 1 28 2 12 2 56	0 46 1 32 2 19 3 5	0 48 1 37 2 25 3 14	0 51 1 41 2 32 3 22	0 53 1 46 2 39 3 32	0 55 1 50 2 46 3 41	0 58 1 55 2 53 3 50	1 0 2 0 3 0 4 0	1 2 2 5 3 7 4 10	1 6 2 10 3 15 4 20	1 8 2 15 3 23 4 30	0. 1 0. 2 0. 3 0. 4
0.5 0.6 0.7 0.8 0.9	3 20 4 0 4 40 5 20 6 0	3 30 4 12 4 54 5 36 6 18	3 41 4 25 5 9 5 53 6 37	3 51 4 37 5 24 6 10 6 56	4 2 4 50 5 39 6 27 7 16	4 13 5 4 5 54 6 45 7 36	4 24 5 17 6 10 7 3 7 56	4 36 5 31 6 27 7 22 8 17	4 48 5 46 6 43 7 41 8 38	5 0 6 0 7 0 8 0 9 0	5 12 6 15 7 17 8 20 9 22	5 25 6 30 7 35 8 40 9 45	5 38 6 46 7 53 9 1 10 8	0.5 0.6 0.7 0.8 0.9
11.0 2.0 3.0 4.0	6 40 13 20 20 0 26 40	7 0 14 0 21 0 28 1	7 21 14 42 22 3 29 24	7 42 15 24 23 7	8 4 16 8 24 12	8 26 16 52 25 19	8 49 17 38 26 27	9 12 18 24 27 37	9 36 19 12 28 48	10 0 20 0 30 0	10 25 20 50	10 50 21 40	11 16 22 32	1.0 2.0 3.0 4.0

Note, - The pages formerly occupied with Tables 284, 288, 280, and 28D have been dropped, and consecutive page numbering is thereby broken.

#### Conversion Tables for Nautical and Statute Miles.

Nautical miles into statute miles. 1 nautical mile or knot=6,080.20 feet. 1 statute mile =5,280 feet. Statute miles into nautical miles.

1 statute mile = 5,280 feet
1 nautical mile or knot=6,080,20 feet.

Nautical miles.	Statute miles.	Nautical miles.	Statute miles.	Statute miles.	Nautical miles,	Statute miles.	Nautical miles.
1	1.15	51	58.729	1	0.87	51	44, 288
2	2.30	52	59.881	2	1.74	52	45, 156
2 3 4 5 6 7 8	3.45	53	61.032	3	2.61	53	46.025
4	4.61	54	62.184	4	3.47	54	46.893
5	5.76	55	63.335	5	4.34	55	47.762
6	6, 91	56	64.487	6	5.21	56	48, 630
7	8.06	57	65.639	7	6.08	57	49.498
8	9. 21	58	66.790	8	6.95	58	50.367
9	10.36	59	67.942	9	7.82	59	51.235
10	11.52	60	69.093	10	8.68	60	52. 104
11	12.667	61	70.245	11	9.552	61	52.972
12	13.819	62	71.396	12	10, 421	62	53.840
13	14, 970	63	72.548	13	11, 289	63	54.709
14	16. 122	64	73.699	14	12.158	64	55. 577
15	17. 273	65	74.851	15	13.026	65	56.445
16	18.425	66	76.003	16	13.894	66	57.314
17	19. 576	67	77.154	17	14.763	67	58. 182
18	20.728	68	78.306	18	15.631	68	59.051
19	21.880	69	79.457	19	16.499	69	59. 919
20	23.031	70	80. 609	20	17.368	70	60.787
21	24. 183	71	81.760	21	18. 236	71	61.656
22	25, 334	72	82.912	22	19.105	72	62.524
23	26.486	73	84.063	23	19.973	73	63.393
24 25	• 27.637	74	85.215	24	20.841	74	64,261
25	28, 789	75	86.366	25	21.710	75	65, 129
26	29. 940	76	87.518	26	22.578	76	65.998
27	31.092	77	88.670	27	23, 447	77	66.866
28	32.243	78	89. 821	28	24.315	78	67. 735
29	33. 395	79	90.973	29	25. 183	79	68. 603
30	34. 547	80_	92. 124	30	26.052	80_	69. 471
31	35, 698	81	93,276	31	26, 920	81	70.340
32	36.850	82	94.427	32	27. 789	82	71. 208
33	38.001	83	95.579	33	28. 657	83	72.077
34	39.153	84	96.730	34	29. 525	84	72.945
35	40.304	85	97. 882	35	30.394	85	73.813
36	41.456	86	99. 034	36	31. 262 32. 131	86 87	74. 682 75. 550
37	42.607	87	100.185	37		88	76.419
38 39	43.759	88 89	101. 337 102. 488	38 39	32, 999 33, 867	89	77, 287
39 40	44. 911 46. 062	90	102. 488 103. 640	40	33.807	90	78, 155
	47. 214	91		41	35, 604	91	79, 024
41		91 92	104. 791 105. 942	41 42	35. 604 36. 473	91	79, 024
42 43	48. 365 49. 517	93		42	37, 341	93	80, 760
43 44	49. 517 50, 668	93	107. 094 108. 246	43	38, 209	94	81, 629
44	51, 820	95	108. 246	45	39, 078	95	82. 497
46	52, 971	96	110, 549	46	39, 946	96	83, 366
47	54, 123	97	111. 701	47	40, 814	97	84. 234
48	55. 275	98	112, 852	48	41. 683	98	85. 102
49	56. 426	99	114. 004	49	42, 551	99	85, 971
50	57. 578	100	115, 155	50	43, 420	100	86, 839
		1	110.100			1	
						-	

# Pag 726]

# TABLE 30.

### Conversion Tables for Metric and English Linear Measure.

Metric to English.

Meters.	Feet.	Yard≈.	Statute miles.	Nautical miles.
1 2 3 4 5 6 7 8	3, 280 833 3 6, 561 696 7 9, 842 500 0 13, 123 333 3 16, 404 166 7 19, 685 000 0 22, 965 833 3 26, 246 666 7 29, 527 500 0	1.093 611 1 2.187 222 2 3.280 833 3 4.374 444 4 5.468 055 6 6.561 666 7 7.655 277 8 8.748 888 9 9.842 500 0	0.000 621 339 .001 242 738 .001 864 106 .002 485 475 .003 106 844 .003 728 213 .004 970 950 .005 592 319	0.000 539 593 .001 079 185 .001 618 778 .002 158 370 .002 697 963 .003 237 556 .003 777 148 .004 316 741 .004 856 333

#### English to metric.

No.	Feet to meters.	Yards to meters.	Statute miles to meters.	Nautical miles to meters
1 2 3 4 5 6 7 8	0, 304 800 6 0, 609 601 2 0, 914 401 8 1, 219 202 4 1, 524 003 0 1, 828 803 7 2, 133 604 3 2, 438 404 9 2, 734 205 5	0.914 401 8 1.828 803 7 2.743 205 5 3.657 607 3 4.572 009 1 5.486 411 0 6.400 812 8 7.315 214 6 8.229 616 5	1, 609, 35 3, 218, 70 4, 828, 05 6, 437, 40 8, 046, 75 9, 656, 10 11, 265, 45 12, 874, 80 14, 484, 15	1, 853, 25 3, 706, 50 5, 559, 75 7, 413, 00 9, 266, 25 11, 119, 50 12, 972, 75 14, 826, 00 16, 679, 25

### Conversion Tables for Thermometer Scales.

[Fo=Fahrenheit temperature; Co=Centigrade temperature; Ro=Réaumur temperature.]

Equivo	aient temperatu	res—F	ahr., Cent.	, Réau	1									
	R°= 1 C°= C°= 1 R°=	4 (F°	-32°). -32°).											
F°. (	Co. Ro.	F°.	C°.	R°.										
$\begin{bmatrix} 2 & 1 \\ 3 & 1 \\ 4 & 1 \end{bmatrix}$	17. 2 -13. 8 16. 7 13. 3 16. 1 12. 9 15. 6 12. 4 15. 0 12. 0	51 52 53 54 55	+10.6 $11.1$ $11.7$ $12.2$ $12.8$	+ 8.4 8.9 9.3 9.8 10.2		Equi	valent	temperal		Centigra C°+32°.	ıde an	d Fahr	enheit.	,
6 1	14.4 11.6	56	13.3	10. 7	C°.	F°.	€°.	Fo,	C°.	F°.	C°.	F°.	C°.	F°.
8 1 9 1 10 1 11 1 12 1 13 1 14 1 15 16	13. 9	57 58 59 60 61 62 63 64 65 66 67 68	13. 9 14. 4 15. 0 15. 6 16. 1 16. 7 17. 2 17. 8 18. 9 19. 4 20. 0	11. 1 11. 6 12. 0 12. 4 12. 9 13. 3 13. 8 14. 2 14. 7 15. 1 15. 6 16. 0	$ \begin{array}{rrrr} -10 \\ -9 \\ -7 \\ -6 \\ -5 \\ -4 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1$	14. 0 15. 8 17. 6 19. 4 21. 2 23. 0 24. 8 26. 6 28. 4 30. 2	0 1 2 3 4 5 6 7 8 9	32.0 33.8 35.6 37.4 39.2 41.0 42.8 44.6 46.4 48.2	10 11 12 13 14 15 16 17 18 19	50. 0 51. 8 53. 6 55. 4 57. 2 59. 0 60. 8 62. 6 64. 4 66. 2	20 21 22 23 24 25 26 27 28 29	68. 0 69. 8 71. 6 73. 4 75. 2 77. 0 78. 8 80. 6 82. 4 84. 2	31 32 33 34 35 36 37 38	86. 0 87. 8 89. 6 91. 4 93. 2 95. 0 96. 8 98. 6 100. 4 102. 2
20 21 22 23 24 25 26 27 28 29	7. 2   5. 8   5. 3   6. 1   4. 9   6. 5. 6   4. 4   4. 0   4. 0   4. 4   3. 6   3. 1   3. 3   2. 7   2. 8   2. 2   2. 1. 8   1. 7   1. 3	69 70 71 72 73 74 75 76 77 78 79	20. 6 21. 1 21. 7 22. 2 22. 8 23. 3 23. 9 24. 4 25. 0 25. 6 26. 1	16. 4 16. 9 17. 3 17. 8 18. 2 18. 7 19. 1 19. 6 20. 0 20. 4 20. 9		Equ:	ivalen	t tempero		- <i>Réaum</i> R°+32°		l Fahre	nheil.	
	$\begin{vmatrix} 1.1 & 0.9 \\ 0.6 & 0.4 \end{vmatrix}$	80 81	26. 7 27. 2	21.3 21.8	R°.	F	°	R°.	Fo.	R°.	F	∾.	R°.	F°.
32 33 43 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.6 \\ 0.6 \\ 0.9 \\ 0.6 \\ 0.9 \\ 0.6 \\ 0.9 \\ 0.6 \\ 0.9 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\$	81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 97 98 99 100	27. 8 28. 3 28. 9 29. 4 30. 0 30. 6 31. 1 31. 7 32. 2 32. 8 33. 3 34. 4 35. 0 36. 7 37. 2 +37. 8	21. 0 22. 7 23. 1 23. 6 24. 0 24. 4 24. 9 25. 3 25. 8 26. 2 27. 1 27. 6 28. 9 29. 3 29. 8 4 29. 3 29. 8 4 29. 3	-10 - 8 - 7 - 6 - 5 - 4 - 4 - 3 - 2 - 1	113 143 163 163 163 163 163 163 163 163 163 16	0.5 1.8 1.0 3.2 3.5 0.8 3.0 7.5 0.8	0 1 2 3 4 5 6 7 8 9	32. 0 34. 2 36. 5 38. 8 41. 0 43. 2 45. 5 47. 8 50. 0 52. 2	10 11 12 13 14 15 16 17 18 19	5 6 6 6 7 7	64. 5 66. 8 9. 0 51. 2 55. 8 56. 8 60. 2 22. 5 44. 8	20 21 22 23 24 25 26 27 28 29	77. 0 79. 2 81. 5 83. 86. 0 88. 2 90. 5 92. 8 95. 0 97. 2

# Page 728]

### TABLE 32.

To obtain the True Force and Direction of the Wind from its Apparent Force and Direction on a Moving Vessel.

			Moving Vessel.
	91	Тгие force, Вевиfort scale.	98000000000000000000000000000000000000
	_	True direction, points off the bow.	222222222222222222222222222222222222222
	12	True lorce, Beaufort scale,	0000404040404040xxxxxxxxxxxxxxxxxxxxxx
	-	True direction, points off the bow.	======================================
	-	True force, Beaufort scale,	uman44446696649649
	77	True direction, points off the bow.	2222222
	13	True force, Beaufort seale.	000040406000000 PPXVX0x000000000000000000000000000000000
	-	True direction, points off the bow.	55966577667767777
	21	Ттие force, Beaufort seale.	3848444666666666666666666666668888888888
	-	True direction, points off the bow.	555255245524525555555555555555555555555
	_	True force, Beaufort seale.	00+00+00+00000000   00×0××××0000000   1111122222
	=	True direction, points off the bow.	222222222222222222222222222222222222222
·	2	True force, Beaufort scale.	0844446464646464646464646488899999999999
Apparent direction of the wind (points off the bow)	٦	True direction, points off the bow.	222772227772777777777777777777777777777
ğ,	2	True force, Beaufort scale.	22222222222222222222222222222222222222
ntso		True direction, points off the bow.	222222222222222222222222222222222222222
<u>od</u>		True force, Beaufort scale.	500 400 400 400 400 400 400 400 400 50 50 50 50 50 50 50 50 50 50 50 50 5
wlad		True direction, points off the bow.	222222222222222222
the	7	True force, Beautort scale.	202222222
o uo	•	True direction, points off the bow.	225522212222122212
recti	9	True force, Beaufort seale.	HUMANUMANUMAMAAAA ON NO COCKOK X X D X X D D D D T T D H H H
nt di		True direction, points off the bow.	55555555555555555555555555555555555555
ppare	1.0	True force, Beaufort seale.	-314-3163333633664-446666666666666666666
Υ!	1.72	True direction, points off the bow.	22231112333 23 x 25 r x 5 r x 8 c r x 6 r x 6 c r 6 c r 6 c r 6 c r 6 c r
		True force, Beautiort scale,	
	-	True direction, points off the bow.	32532229322x3324x3 614964x96446664666464444446
		True force, Beaufort seale,	
	83	. Rod off flostinion, points off the bon.	UNDERTAINED OFFICE A CALACCA ACCA ACCA ACCA ACCA ACCA AC
	21	True force, Beautort scale	
	"	. True direction, points off the bow	2552276524652465000400400400000000000000000000
		True force, Beaufort scale,	
		. True direction, points off the bow.	2454554 850 x 20 x 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		True force, Beautort scale.	
		True direction, points off the bow.	**************************************
		should these vito bends	228308308508508508 22832283283228528
	_	Appar ent force wind Rean fort	

# TABLE 33.

# Distance by Vertical Angle.

T	1			21.5		_							L ~	-		Ja.	_	7.6			-		100	Page 15		L				T	_		-
	150	0	13 52	7 (2	# 65 # 60	67.0	2 01	1 46	1 25	117	15	1 01	0 53	28	0 0	0 42	99	36	0.35	000	0 31	88	0 28	0 27	375	0 21	0 20	0 18	0 12				
	140	0	12 58	6 34	2 50	2 38	223	1 39	5 6	1 15	38	0 57	0 53	0 47	4 5	0 40	888	9 8	0 33	0 32	0 29	0 0 27 27	0.26	0 22	322	0.50	0 19	0 17	0 19				
	130					515				1 07	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 93	0 49	0 43	0 41	0 37	88	28 88	0 31	0 50	0 27	0 26	0 25	0 0	182	0 18	0 17	0 16	0 15				
	120	0	11 10	000	2 49	2 16	32	1 25	3 8	1 02	200	9	0 45	19	88	0 34	0 32	38	0.28	0 27	38	0 0 23	0 23	228	000	0 17	0 16	0 10	0 14				
	110		10 15	5 10	2.68	25	52	28	1 03	0 57	0 0	1	148	0 37	88	0 31	88	73 73	0.26	88	0 2 2	82	0 21	0 19	0 17	0 16	0 15	17	0 12				
	100	. 0	9 20	÷ c	5 6 7	1 53	122	1100	0.57	0 21	0 47	9	0 38	33	28	0 28	0 27	888	0.24	88	0 21	0 0	0 19	0 18	0 16	0 14	7.5	0 123	0 0				
	98	0	8 53	200	123	1 47	1 17	1 07	0 24	0 49	0 C	0 38	0 36	0 32	98	0 27	98 0	0 0 28	0 23	200	07.0	0 19	0 18	0 17	0 12	0 13	0 0	121	0 0 11				
	90																								272								
1	85																								200								
	<del>2</del>																								200								
	75	0	7 02	23.5	1 4 5 1	133	55	0 53	7.0	0 39	88	0 8	0 28	18	7, S	0 21	ର ୧	9 2	0 18	0 17	0 16	0 15	0 14	0 13	121	0 11							
	20	, ,	FE 9	200	1 39	1 19	250	67.0	19	0 36	88	288	92.5	0 23	815	0.70	610	212	0 17	0 16	0 12	11 00	0 13	0 12	111	0 10				7			
	65	0	90 9	38	38	73	0 23	9:	0 32	0 33	8 8	0 26	0 25	0 55	0 50	0 18	0 18	0 17	0 15	0 15	00	0 0 13	0 12										
	0.0	0	5 38	6 6 6	1 25	108	9 48	0 45	23.0	0 31	88.9	25.0	88	0.50	6 0	0 17	0 16	0 12	0 14	0 13	9 22	211	0 10										
	55																					0 11											
	99		7	55.5	1 1 2	0 57	. 4	0 35	0 08	88	375	18	0 19	0 17	0 16	0 14	0 14	0 13	0 12	0 11	191	0 10	6 0			ĺ							
	45																					60				Ì							
	0 †		3.46	. 53	0 57	0.45	0 32	0 20	0 0	0 21	0 0	91 0	0 15	0 13	0 13	100	0 11	99	0 10	6 0	000	000	0			T							
Dist.	knots.		0.1	7.5	· -	0.5	-1.5	oc c	5		0100	. 7	- u	-1-	κσ	2.0	-:	01.00	7	2.5	0.1-	oc o	3.0	ej.		4.0	67.	9	5.0	-			

# Distance by Vertical Angle.

				_	_		_	_	_	_	_	_		_				-	_					-	-			-	_	_	_	-		-
	3.0HB	5			5	91 53	31 3 31 3	8 2	2 8 92	15.20	11	13 13	215	10 57	2.2	90 5	02.6	× :	9 9	34	7.30	7 13	9 5	1 87 9	6 15	88	200	212	77	3:	70	2.3	3.46	
-	1,500	,		100	8 23	31	S 200	15 13	2 2	23.23	00.21	38	98	133	02.6	200	80	10 %	3 5	1 0 1	2 9	B: 9	2 5	3 (S	% s	5 17	50	- 51	1 14	31	3 5	5 50	3 23	
	1.600	0	_	- 1	\$ 7 3 83	90.00	21	10 13	2 55 2 52	131	11.25	68 93	12 6	4	2 19	30 15	7 30	5	200	9 2 9	6 01	20	E 5	2 2 2	0.0	7	8 -	3:	3 46	33.5	020	2 8	0 0	-
	1, 400		3	0	3 8	18 13	16 03	5 S	8 \$	10 52	10 03	02.6	77	1 27	111	6.55	6.31	6 15	50.00	18	5 16	5 04	333	7 23	53	1 07	24 3	2 53	3 18	308	33	100	1 24	-
	1,200	0	2	01 0	3 2 2	15 15	23		2 2 2	02.0	8	, 01	28	200	22	33	5 38	81	50	3 54	4.33	0.7	= = =	33	3.46	3.35	23	9 63	57	7	35 6 01 0	45	92	
	1,4889		43	3 3	28	13 13	170 E	10 21	8 2	2.6	7 13	11 10	615	3 60	5 13	22	24	- 67	- 50	3 25	3 46	3 87	61 8 50 8	200	3 08	- 20	21	3 8	2 21	2 15	33	3 3	33	_
	906		98 16	£ .	8.8	138	2	6 ·	3 =	2 SE - 1 -	08.0	×6 02	<b>3</b> :	200	3 4	-	7	30	3 = 20 :		23.25	3 16	80	33	20	58.	8:	7	2 0.1	0 0	2:	101	24	_
	£ ,	,	4:	15 13	23. 22.	10 39	07.6	51	3 E	9 29	4	H 9	5 01	27	-	35	20	3 35	62	3 5	3.01	Æ	Ç:	- 18 - 28 - 28 - 28	55	21	22	33	28	27	23	85	8 8	-
in feet.	9.	0	833	Its 653	5 S	0.56	= 1 = 1		50 50	200	2 01	7 7	33	33	3 40	. K	3 15	50 20	200	N OI	55. 51	60 60 61	01:	191	21	3	38.	3 =	1 39	25	8 : - :	200	161	_
Heights in feet	909		26 16 15 13	13 92 1	2 5	30	2	6 15	6 8 0 0	5 7	8	1 0.5	9:	20 E	0 00	S. S.	61 2	2 41	- - - - - - - - - - - - - - - - - - -	3 E	5 16	10	3	515	1.53	91 1	0.5	5 6		151		==	3	
	500		58! 312;	3	8.4	11	33.0	2 2		213	250	21 22 23	308	23	2 (y) 4 (r)	8	73 74	2 15	58	3.8	1.54	2	2:	= 5	25	4	71	2 -	=======================================	1 07	101	10 1	250	
ı	3		231	5	3.1 - 4	31	23:	=	£ 4	36	. <del></del>	2 01	E :	112	2 2 2	33	188	-	22	5 E	8	15	1 21	51.5	122	=	-01	33	130	0.51	0.51	21	120	
	008	0 2	423 A	30	5 L	12	7.5 000	\$ 20	2.5	5 F1	101	2 01	3:	2 9	25	3.53	133	121		==	1	1 05	8	10.3	13.0	33	000	- 12	0	0 10	680	200	3 75	
	600	0 2	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		2 5	=	77	£ .	8 :	7 7 7	5	101	1 12	11	3 5	33	29 0	0.54	E 0	212	7	0 41	24 O	9 Z 0 G	50	120	- SS -	25.0	1.5	17.0	98 9	8 8	13	
	190			6	2.5	2 73	11:	1.59		5.8	22	1 17	22	200	3 3	250	0.54	0.51		: Q	22 0	11 0	010	5 kg	17. 11	0.31	25	86	0.27	0.56	100	33	0 21	
	1.0	- 9	88A:	=	51.4	2 e3 1 7 1	5	22	30	3 50		1.13	5	3 3	819	7.0	0.51	N\$ 0	97.0	2 3	1 1 1	38 =	200	88	75	200	8.0	6 S	19	15 0	S1 :	115	17.0	
	170	- 5	3/5 2: 215 2:	-	23	171	9) 2	-	85	3.5	=	1.02	<u>=</u>	ē (	100	100	110	<u>:</u>	0	13	5	0.57	0.36	7 F	3 60	0.30	£!	0 0	17.0	0	21 co	5 5	61 0	
	169	1 :	183			1 * 1	-	-						0 :		. =	5	0	Э.	= =	-	0	⊃	>=	=	0	0	9 3	0	)	٥	0 0	> >	
	i		- 12	-	5 %	017	-	21	-	H O	* 22			21	. ,	-,	5	_	22	· · ·	1		1-	10 Z		1		ą r	0.4	21		2 (	0	

ТΔ	RI	ъ.	9.1

[Page 731

For finding the distance of an object by an angle, measured from an elevated position, between the object and the horizon beyond.

Dist.,	Height of the Eye Above the Level of the Sea, in Feet.													
yards.	20	30	40	50	60	70	80	90	100	110	120	Dist., yards.		
100 200 300 400 500	3 44 1 50 1 12 52 41	5 37 2 46 1 49 1 21 1 03	7 29 3 43 2 26 1 48 1 25	9 21 4 39 3 04 2 16 1 48	11 11 5 35 3 41 2 44 2 10	0 / 13 00 6 31 4 19 3 12 2 32	0 / 14 47 7 27 4 56 3 40 2 54	16 34 8 23 5 33 4 08 3 17	18 16 9 18 6 11 4 36 3 39	19 58 10 13 6 48 5 04 4 01	21 37 11 08 7 25 5 32 4 24	100 200 300 400 500		
600 700 800 900 1,000 1,100 1,200	34 28 24 21 18 16 15	52 44 38 33 29 26 23	1 10 1 01 51 45 40 35 32	1 29 1 15 1 05 57 50 45 41	1 47 1 31 1 18 1 09 1 01 55 50	2 05 1 46 1 32 1 22 1 12 1 05 59	2 24 2 01 1 46 1 33 1 23 1 15 1 08	2 42 2 18 2 00 1 45 1 34 1 24 1 17	3 01 2 34 2 13 1 57 1 45 1 34 1 26	3 20 2 50 2 27 2 10 1 56 1 44 1 35	3 38 3 05 2 41 2 22 2 07 1 54 1 44	600 700 800 900 1,000 1,100 1,200		
1,300 1,400 1,500 1,600	13 12 11 10	19 18 16	29 27 24 22	37 34 31 29	45 41 38 35	53 49 45 42	1 02 57 52 48	1 10 1 04 59	$\begin{array}{c} 1 & 18 \\ 1 & 12 \\ 1 & 07 \\ \hline 1 & 02 \\ \end{array}$	$ \begin{array}{r} 1 & 27 \\ 1 & 20 \\ -1 & 14 \\ \hline 1 & 08 \\ 3 & 04 \end{array} $	$\begin{array}{c c} 1 & 35 \\ 1 & 27 \\ -1 & 21 \\ \hline 1 & 15 \\ \end{array}$	1,300 1,400 1,500 1,600		
1,700 1,800 1,900 2,000 2,100		15 14 13 12	21 19 18 17 16	27 25 23 22 20	33 31 29 27 25	39 36 34 32 30	45 42 39 37 35	51 -48 -45 -42 -40	58 54 50 47 45	1 04 1 00 56 53 50	1 10 1 06 1 02 58 55	1,700 1,800 1,900 2,000 2,100		
2, 200 2, 300 2, 400 2, 500		10	15 14 13 12	19 18 17 16	24 22 21 20	28 27 25 24	33 31 29 28	38 36 34 32	42 40 38 36	47 45 42 40	52 49 47 44	2, 200 2, 300 2, 400 2, 500		
2,600 2,700 2,800 2,900 3,000		•	11 11 10	15 14 14 13 12	19 18 17 16 15	23 22 20 19 19	26 25 24 23 22	30 29 28 26 25	34 33 31 30 28	38 36 35 33 32	42 40 38 37 35	2,600 2,700 2,800 2,900 3,000		
3, 100 3, 200 3, 300 3, 400 3, 500				12 11 10	15 14 13 13 12	18 17 16 15 15	21 20 19 18 17	24 23 22 21 20	27 26 25 24 23	30 29 28 27 26	34 32 31 30 29	3, 100 3, 200 3, 300 3, 400 3, 500		
3, 600 3, 700 3, 800 3, 900 4, 000					12 11 11 10	14 13 13 12 12	17 16 15 15 14	19 19 18 17 16	22 21 20 20 19	25 24 23 22 21	27 26 25 25 25 24	3, 600 3, 700 3, 800 3, 900 4, 000		
4, 100 4, 200 4, 300 4, 400 4, 500						11 11 10	14 13 13 12 12	16 15 15 14 14	18 17 17 16 16	20 20 19 18 18	23 22 21 21 21 20	4, 100 4, 200 4, 300 4, 400 4, 500		
4,600 4,700 4,800 4,900 5,000							11 11 10	13 13 12 12 11	15 15 14 14 13	17 17 16 15 15	19 19 18 17 17	4, 600 4, 700 4, 800 4, 900 5, 000		

Page 732]

### TABLE 35.

Speed in knots per hour developed by a vessel traversing a measured nautical mile in any given number of minutes and seconds.

1				1	number	of minu	tira and	-econd-					
ı	1				2	Sumber of	fminute						
500	1	2	3	- 1	ä	- 6	7	`	9	10	11	12	Sec.
	1												-
0	Knots 60, 000	$-K_{BO}$ : 30, 000	Enots, 20, 000	Knots.	Knots, 12, 000	Knots 10, 000	S. 571	Km/s 7.500	Knots, 6. 666	Knots, 6, (90)	Knots.	Knots.	
ĭ	59, 016		19, 890		11. 960	9, 972	8, 551	7, 454	6, 651	5, 990	5, 455 5, 446	5, 000 4, 993	0
2	58, 065		19,780		11.920	9, 944	8, 530	7, 468	6, 642	5,980	5, 438	4,986	2
-3	57, 143	29, 268	19, 672	14, 815		9, 917	8, 510	7.453	6, 629	5, 970	5, 429	4, 979	3
-1-	[56, ≌56	29,102	19, 565		11.841	9, 890	8, 490	7.438	6 617	5. 960	5, 421	4.972	1_4
5 6	55, 355 54, 545	28, 800 28, 571	19, 460 19, 355	14, 694 14, 634	11, 803	9, 863 9, 836	8, 470 8, 450	7, 422 7, 407	6, 593	5, 950	5, 413	4, 965	5 6
7	53, 731	28, 316		14, 575		9, 809	8, 430	7, 392	6, 581	5, 930	5, 397	4, 951	1 7
-	52, 941	28, 125		14,516		9, 783	8, 411	7.377	6, 569	1 5, 921	5, 389	4.945	- 8
. 9 To	52, 174 51, 429	27, 907	19, 048		11, 650		8, 392	7, 362	6, 557	5, 911	5, 381	4,938	-9-
10 11	50, 704	27, 602 27, 481	18, 947 18, 848	14, 400 14, 342	11, 575	9, 729	8,053	7, 346 7, 331	6, 545 6, 533	5, 902 5, 892	5, 373 5, 365	4, 932	10
12	50, 000	27, 273	18, 750	14, 286	11,508	9, 677	8, 334	7. 317	6, 521	5,882	5, 357	4. 915	12
13	49,315	27, 068	18,652	14, 229	11.501	9, 651	8, 315	7, 302	6, 509	5, 872	5, 349	4.911	13
14 15	48, 649	26, 866	18, 556	14, 173	11, 465	9, 625	8, 295	7, 287	6, 498	5, 863	5, 341	4, 904	14
16	47, 368	26, 667 26, 471	18, 461 18, 367	14, 119	11, 428	9, 500	8, 276 8, 257	7, 272 7, 258	6,486 $6,474$	5, 853 5, 844	5, 333 5, 325	4, 897	15 16
17	46, 753	26, 277	18, 274	14, 008		9, 549	8, 238	7, 243	6, 463	5, 834	5, 317	4, 884	17
18	46, 154	26,087	18, 182	13, 953		9.524	8,219	7. 220	6, 451	5, 825	5,309	4, 878	18
19	45, 570	25, 899	18, 090	13, 900		9, 499	8, 200	7, 214	_6, 440	5, 815	5, 301	4.871	19
20 21	45, 000	25, 714 25, 532	18,000 $17,910$	13, 846 13, 793	11, 250 11, 214	9, 473 (	8, 181	7, 200 7, 185	6, 428 6, 417	5, 806 5, 797	5, 294 5, 286	4, 865 4, 858	20 21
5313	43, 902	25, 352	17,822	13, 740		9, 424	8, 144	7, 171	6, 405	5, 787	5, 278	4, 851	22
23	43, 373	25, 175	17, 734	13,688		9, 399	8,126	7, 157	6, 391	5, 778	5, 270	4, 845	23
24	42, 857	25, 000	17, 647		11.111	9, 375	S. 108	7. 142	6, 383	5, 769	5, 263	4, 838	24
25 26	42, 353 41, 860	24, 828 24, 658	17,560 $17,475$	13, 584 13, 533	11, 077 11, 043	9, 350	8, 090 8, 071	7, 128 7, 114	6, 371 6, 360	5, 760 5, 750	5, 255	4, 832 4, 825	25 26
27	41, 379	24, 490	17, 391	13, 483		9, 302	5, 053	7, 100	6, 349	5, 741	5, 240	4, 819	27
28	40, 909	24, 324	17.307	13, 433		9.278	8, 035	7, 086	6, 338	5, 732	5, 232	4, 812	28
29	40, 419		17, 225	13, 383		9, 254	8, 017	7.072	6, 327	5, 723	5,224	4.806	29
30 31	40, 000 39, 560	24, 000 23, 841	17, 143 17, 061		10, 909	9, 230 9, 207	S, 000 7, 982	7, 059 7, 045	6, 315	5, 714 5, 705	5, 217 5, 210	4. 800 4. 793	30
32	39, 130	23, 684	16, 981		10, 843	9, 183	7.964	7. 033	6, 293	5, 696	5, 202	4. 787	31 32
33	38,710	23,529	16,901	13, 186		9, 160	7, 947	7.017	6, 282	5.687	5, 195	4, 780	33
34	38, 298	23, 377	16.822	13, 138		9, 137	7, 929	7,004	6, 271	5,678	5, 187	4.774	34
35 ; 36	37, S95 37, 500	23, 226 26, 077	16, 744 16, 667		10, 746 10, 714	9, 113	7.912	6, 990 6, 977	6, 260 6, 250	5, 669	5, 179	4. 768	35
37	37, 113	22, 930	16, 590		10, 714	9, 068	7, 895 7, 877	6, 963	6, 239	5, 660 5, 651	5, 172 5, 164	4. 761 4. 755	36 37
38	36, 735	22.785	16.514	12,950	10, 651	9, 045	7.860	6, 950	6,228	5,642	5, 157	4.749	38
39	.16, 264	22, 642	16, 438		10, 619	9, 022	7, 843	6, 936	6, 217	5, 633	5, 150	4.743	39
40 41	36, 000	22, 500 22, 360	16, 363 16, 289		10, 588 10, 557	9, 000 ₁ 8, 977	7, 826 7, 809	6, 923 6, 909	6, 207 6, 196	5, 625 5, 616	5, 143 5, 135	4. 737	40
42	35, 294	1117 111113	16, 216		10, 526	8, 955	7, 792	6, 896	6, 185	5, 607	5, 128	4, 731 4, 724	41 42
43	34, 951	22,086	16, 143	12, 721	10, 495	8,933,	7.775	6,883	6, 174	5, 598	5, 121	4.718	43
44	34 615	21, 951		12, 676		8,911	7, 758	6, 870	6, 164	5, 590	5, 114	4, 712	44
45 46	34, 286, 33, 262	21, 818 21, 687	16, 000 ° 15, 929		10, 434	8, 889	7, 741 7, 725	6, 857 6, 844	6, 153 6, 143	5, 581 5, 572	5, 106	4, 706	45
47	33 645	21, 557	15, 859	12. 543		5, 845	7. 708	6, 831	6, 132	5, 564	5, 099 5, 091	4, 700	46 47
45	10, 300	21, 429	15, 789	12,500 (	10, 345	8, 823 !	7, 692	6, 818	6, 122	5, 555	5, 084	4.687	48
49	70, 628	21, 302	15, 721	12, 456		8 801	7, 675	6, 805	6, 112	5, 547	5, 077	4, 681	49
50	32, 727 32, 432	21 176 21, 053	15 452 15,584	12, 413 ( 12, 371 )		8, 780   8, 759	7, 659 ; 7, 643	6, 792	6, 101	5, 538	5,070	4, 675	50
52	32, 113	20,930	15, 517	12, 329		8, 7371	7, 627	6, 779	6, 091	5, 530	5, 063 5, 056	4, 669	51 52
53	11,858	20.509	15, 450	$12.287^{\circ}$	10, 198	8,716	7.611	6, 754	6, 071	5, 513	5, 049	4.657	53
54	11,579	20.690	15, 384	12, 245 [		8, 695	7, 595	6, 741	6, ()60	5, 504	5, 042	4, 651	54
55 56	31, 304	20 571 20 455	15, 319 15, 254	12, 203 J 12, 462 J	10, 140 10, 112	8, 675   8, 654	7, 579 7, 563	6, 739	6, 050	5, 496	5, 035 5, 028	4, 639	55 56
57	30.769	20 339	15, 190		10, 112	5 633	7, 563 7, 547	6, 704	6, 030	5, 487 5, 479	5, 028	4, 633	57
55	30, 508	20 225	15 126	P2, 080 (	10, 055	8-612	7 531	6, 691	6, 020	5, 471	5.013	4.627	58
59	0, 252	20, 112	15, 062	15 040	10.027	8.591	7 515	6, 679	6, 010	5, 463	5,006	4, 621	59
	1	2	:1	4	ä	6	ï	-	10	10	- 11		Sec
_													

#### Reduction of Local Mean Time to Standard Meridian Time, and the reverse,

[If local meridian is east of standard meridian, subtract from local mean time, or add to standard meridian time. If local meridian is west of standard meridian, add to local mean time, or subtract from standard meridian time.]

Difference of longitude be- tween local meridian and standard meridian.	Reduction to be applied to local mean time.	Difference of longitude be- tween local meridian and standard meridian.	Reduction to be applied to local mean time.	
tween local meridian and standard meridian.  0 00 to 0 07 0 08 to 0 02 0 23 to 0 37 0 38 to 0 52 0 53 to 1 07 1 08 to 1 22 1 23 to 1 37 1 38 to 1 52 1 53 to 2 07 2 08 to 2 22 2 33 to 2 37 2 38 to 2 52 2 53 to 3 07 3 08 to 3 22 3 35 to 3 07 3 08 to 3 22 4 23 to 4 37 4 08 to 4 47 4 08 to 4 52 4 53 to 5 07 5 08 to 5 22 5 32 to 5 37 5 38 to 5 52 5 38 to 6 57 6 08 to 6 22	be applied to local mean time.  Mimutes, 0 0 1 2 3 4 4 5 5 6 6 7 7 8 9 9 10 11 1 12 13 14 15 16 6 17 7 18 19 20 21 22 23 24 25	tween local meridian and standard meridian.  7 23 to 7 37 7 38 to 7 52 7 55 to 8 07 8 08 to 8 22 8 23 to 8 37 8 38 to 8 52 8 35 to 9 07 9 08 to 9 22 9 23 to 9 37 9 08 to 9 952 9 53 to 10 07 10 08 to 10 22 10 23 to 10 37 10 38 to 10 52 11 23 to 11 37 11 38 to 11 52 11 23 to 11 37 11 38 to 11 52 12 23 to 12 27 12 23 to 12 52 12 23 to 12 37 12 38 to 12 52 13 38 to 13 52 13 38 to 13 52	be applied to local mean time.  Minutes. 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	
6 23 to 6 37 6 38 to 6 52 6 53 to 7 07 7 08 to 7 22	26 27 28 29	13 53 to 14 07 14 08 to 14 22 14 23 to 14 37 14 38 to 14 52	56 57 58 59	

Note,—The pages formerly occupied with Tables 37 and 37A have been dropped, and consecutive page numbering is thereby broken.



Error in Longitude due to one minute Error of Latitude.

alti-	Polar dis- tance.							Lat	itude									dis-	alti-
Sun's alti-	Pola: tan	0°	50	10°	15°	200	25°	30°	350	40°	45°	500	550	600	65°	70°	750	Polar dis- tance.	Sun's alti- tude.
0 10 20 30 40 50 60	110	, 4 , 4 , 4 , 5 , 7	.4 .4 .5 .6	.4 .5 .6 .8 1.2	.5 .6 .7 1.0	.5 .7 .9 1.3	.6 .8 1.1	.7 1.0 1.5	. 8 1. 2 2. 3	1. 0 1. 6	1.3 2.6	1.8	2. 9	,	,	,	,	° 110	0 10 20 30 40 50 60
10 20 30 40 50 60	105	.3 .3 .4 .4	.3 .4 .5 .6	.3 .4 .5 .6 .8	.3 .4 .6 .7 1.2	. 4 . 5 . 7 1. 0	.4 .6 .8 1.3	.5 .7 1.1	.6 .9 1.5	. 8 1. 2 2. 4	. 9 1. 6	1, 2 2, 7	1.8	3.0				105	10 20 30 40 50 60
15 20 30 40 50 60	100	.2 .2 .2 .3	.2 .3 .3 .4 .6	.2 .3 .3 .4 .6 .9	.3 .4 .6 .8	.3 .4 .5 .7 1.2	.4 .5 .6 .9	.4 .5 .8 1.3	.5 .7 1.1 2.1		. 8 1. 1 2. 4	1. 1 1. 6	1. 6 2. 7	2. 9				100	15 20 30 40 50 60
15 20 30 40 50 60	95	.1 .1 .1 .1 .1	.1 .1 .2 .2 .3 .3	.1 .2 .2 .3 .4 .6	.2 .2 .3 .4 .6 .9	.2 .3 .4 .5 .8	.3 .5 .7 1.1	.3 .4 .6 .9	.4 .5 .8 1.3	. 5 . 6 1. 0 2. 1	.6 .8 1.5	. 8 1. 1 2. 5		1. 7 2. 8	3.0			95	15 20 30 40 50 60
20 30 40 50 60 70	90	.0 .0 .0 .0	.0 .1 .1 .1 .2 .2	.1 .2 .2 .3 .6	.1 .2 .3 .4 .5 1.1	.1 .2 .3 .5	.2 .3 .5 .8	. 2 . 4 . 6 1. 1		.4 .7 1.3	. 6 1. 0 2. 2	. 7 1. 5	1. 1 2. 7	1.6	3.0			90	20 30 40 50 60 70
20 30 40 50 60 70	85	.1* .1* .1* .1* .2*	.1* .0 .0 .0 .0 .0 .0	.0 .0 .0 .1 .1	.0 .1 .1 .2 .3 .6	.0 .1 .2 .3 .5	.1 .2 .3 .5	.1 .2 .4 .7	.2 .4 .6 1.1	.3 .5 .9	.3 .7 1.3	.5 1.0 2.3		1. 0 2. 7	1.6	3.1		85	20 30 40 50 60 70
20 30 40 50 60 70	80	. 2* . 2* . 2* . 3* . 4* . 6*	. 2* . 2* . 2* . 2* . 2* . 3*	.1* .1* .1* .1* .0	.1* .0 .0 .1 .1	.1* .0 .1 .2 .3 .6	.0 .1 .2 .3 .5	.0 .1 .3 .5	.0 .2 .4 .7	.1 .3 .6 1.1	.1 .4 .9	. 2 . 6 1. 3	.4 .9 2.4	.5 1.5	2. 8	1.5	3. 1	80	20 30 40 50 60 70
20 30 40 50 60 70	75	.3* .4* .4* .6* 1.2*	.3* .3* .3* .4* .6*	. 2* . 2* . 2* . 2* . 2* . 2*	2* 2* .1* .1* .1*	. 2* . 1* . 1* . 0 . 1	.1* .1* .0 .1 .3 .6	.1* .0 .1 .3 .5 1.2	.1* .2 .5 .9		.0 .2 .5 1.1	.0		. 2 . 9 2. 5		. 6 3. <b>0</b>	1. 2	75	20 30 40 50 60 70
20 30 40 50 60 70	70	.4* .4* .5* .6*	.4* .4* .4* .5* .6* 1.2*	.3* .3* .3* .3* .4*	.3* .3* .2* .3*	. 3* . 2* . 2* . 2* . 1* . 1*	.3* .2* .1* .0	.2* .1* .0 .1 .2 .6	.2* .1* .1 .3 .5	.2* .0 .2 .4 .9	.2* .0 .3 .7	.2* .1 .5 1.1	.2* .2 .8	. 2* . 6 1. 3	. 2* . 8 2. 6	. 2* 1. 5	. 2* 3. 1	70	20 30 40 50 60 70
Sun'salti- tude.	Polar dis- tance.	90	50	10°	15°	200	25°	<b>30</b> °	850	40°	<b>4</b> 5°	50°	550	60°	650	700	750	Polar dis-	Sun's alti- tude.
Sun	Poli ta							Lat	itude.									Pol	Sum

# TABLE 39.

Lati	1					D	eclinatio	n.						Lati-
tude		05	10.0	10.5	20.0	20.5	30.0	3°.5	40,0	40.5	50.0	50.5	6°.0	tude.
۰	0				0	0	0	e	0	0	0	0	٥	0
()	0, 0	0, 5	1.0	1.5	2.0	2.5	3.0	3, 5	4. 0	4. 5	5, 0	5, 5	6, 0	0
10	0, 0	0.5	1, 0	1.5	2, 0	2, 5	3, 0	3, 5	4.1	4.6	5, 1	5, 6	6.1	10
15	0, 0	0.5	1.0	1.5	2. 1	2, 6	3.1	3, 6	4. 2	4.7	5. 2	5.7	6, 2	15
20	0, 0	0.5	1. 1	1.6	2. 1	2.7	3. 2	3.7	4. 3	4, S 5, 0	5, 3 5, 5	5, 8 6, 0	6, 4	20 25
50	1	0, 6	1. 1	1. 7	2. 3	2.9	3. 4	4. 0	- 4. 6	$=\frac{5.0}{5.2}$		The second	6, 6	
32	0, 0	0, 6	1. 2	1. 8	2. 4	2. 0	3, 5	4.1	4. 7	5. 3	5, 8 5, 9	6, 3 6, 5	6, 9 7, 0	30 32
34	0.0	0, 6	1. 2	1.8	2.4	3.0	3, 6	4. 2	4.8	5. 4	6.0	6, 6	7. 2	34
36	0,0	0.6	1.2	1.8	2.5	3. 1	3. 7	4.3	4.9	5, 6	6.1	6. 8	7.4	36
38	0,0	0, 6	1.3	1.9	2.5	3, 2	3, 8	4.4	5.1	5. 7	6.3	7.0	7, 6	38
40	0, 0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5, 2	5, 9	6, 5	7. 2	7.8	40
42	0, 0	0.7	1.3	2,0	2.7	3, 4	4, 0	4.7	5.4	6, 1	6.7	7.4	8, 0	42
44 46	0, 0	0, 7	1.4	2.1	2.8	3, 5	4, 2	4. 9 5. 0	5, 6	6, 3	6. 9	7.6	8, 3	44
48	0, 0	0.7	1.4	9.9	3, 0	3. 7	4.5	5, 2	5, S 6, 0	6, 5 6, 7	7. 2 7. 5	7, 9 8, 2	8, 6 9, 0	46 48
50	0, 0	=0.8	-1.5	2.3	3. 1	3. 9	4. 7	5.4	6, 2	$-\frac{6.7}{7.0}$	7.8	8, 6	9.3	$\frac{48}{50}$
51	0.0	0.8	1, 6	2.4	3. 2	4. 0	1.8	5, 6	6, 4	7. 2	8.0	8.8	9.5	51
52	0, 0	0, 8	1.6	2.4	3.3	4. 1	4.50	5. 7	6, 5	7.3	8. 1	9, 0	9. 7	52
53	0, 0	0, 8	1.6	2.5	3, 3	4.2	5, 0	5, 8	6. 7	7.5	8, 3	9, 2	10, 0	53
54	0, 0	0, 9	1.7	2.5	3.4	4.3	5. 1	6.0	6, 8	7.7	8, 5	9.4	$_{-}0, 2$	54
55	0, 0	0.9	1.7	2. 6	3, 5	4.4	5, 2	6.1	7.0	7.9	8.7	9.6	10.5	55
56	0, 0	0, 9	1. 8	2. 7	3, 6	4, 5	5.4	6, 3	7. 2	8. 1	9, 0	9, 9	0.8	56
57 58	0, 0	0.9	1.8	2. 7 2. 8	3, 7	4.6	5, 5	6, 4	7.4	8.3	9. 2	10. 1	1.1	57
59	0, 0	1.0	1.9	2. 9	3, 9	4.9	5, 8	6, S	7. 6 7. 8	8, 5 8, 8	9, 5	0.4	1.4	58 59
60	0, 0	1.0	2.0	3, 0	4.0	5, 0	-6, 0	7.0	8, 0	9, 0	10. 0	11.0	12.1	60
61	0, 0	1.0	2.1	3. 1	4.1	5. 2	6. 2	7. 2	8.3	9, 3	0, 3	1.4	2.5	61
62	0,0	1.1	2.1	3. 2	4.3	5.3	6.4	7.5	8, 5	9, 6	0.7	1.8	2.9	62
63	0, 0	1.1	2. 2 2. 3	3, 3	4.5	5, 5	6, 6	7.7	8, 8	9, 9	1.1	2. 2	3.4	63
64	0, 0	1.1		3.4	4.6	_5.7	_6, 9	8.0	9.2	10, 3	_1.5	_2.6	3, 9	64
65. (		1. 2	2.4	3, 5	4.8	5, 9	7.1	8.3	9, 5	10.7	11.9	13, 1	14.4	65. 0
5, 5 6, t		1. 2	2, 4 2, 5	3, 6 3, 7	4.8	6, 0 6, 1	7. 2	8, 5 8, 6	9.7 9.9	0. 9 1. I	2. 1 2. 4	3, 4 3, 6	4.6	5. 5 6. 0
6, 5		1.2	2.5	3.8	5.0	6.3	7. 5	8, 8	10.1	1. 3	2.6	3.9	5, 2	6, 5
7.0		1.3	2.6	3, 8	5. 1	6. 4	7. 7	9.0	0.3	1, 6	2.9	4.2	5, 5	7. 0
67.		1.3	2. 6	3.9	5. 2	6.5	7.9	9, 2	10.5	11, 8	13. 2	14.5	15. 9	67.5
8. (	0,0	1.3	2.7	4.0	5, 3	6.7	8, 0	9, 4	0.7	2.1	3, 5	4.8	6, 2	8.0
8, 5		1.4	2. 7	4.1	5.4	6.8	8, 2	9, 6	1.0	2.4	3.8	5, 2	6, 6	8.5
9, 0		1.4	2.8	4.2	5, 5	7. 0	8.4	9.8	1.2	2, 6	4.1	5, 5	7.0	9.0
9.5		1.4	2.9	4.3	5.7	$-\frac{7.2}{7.3}$	$-\frac{8.6}{5.5}$	10.0	1.5	2.9	4.4	5.9	7.4	9.5
70.0		1.5	$\frac{2.9}{3.0}$	4.4	5, 8 6, 0	7.3	9, 0	10.3	11.8	13. 3	14. 8 5. 1	16. 3 6. 7	17. 8 8. 2	70. 0 0, 5
1.0		1.5	3.1	4.6	6. 2	7.7	9. 3	0, 8	2.4	3, 9	5, 5	7. 1	8.7	1, 0
1, 5		1.6	3. 2	4.7	6, 3	7. 9	9, 5	I. I	2. 7	4. 3	5. 9	7.8	9, 2	1.5
2. (		1,6	3, 2	4.9	6, 5	8, 1	9, 8	1.4	3.0	4.7	6. 4	8.1	9.8	2.0
72.5		1.7	3.3	5.0	6. 7	8.3	10, 0	11.7	13.4	15.1	16. 9	18, 6	20.3	72.5
3, 0		1.7	3.4	5, 1	6. 9	8, 6	0, 3	2.0	3, 8	5, 5	7.4	9.1	0.9	3, 0
3, 5		1.8	3, 5	5. 2 5. 4	7. 1 7. 3	8, 8 9, 1	0, 6	2.4	4. 2	6, 0 6, 5	7. 9 8. 4	9.7 20.3	1.6 2.3	3, 5 4, 0
4.5		1.8	3, 6	5, 6	7.5	9, 4	1. 3	3. 2	5.1	7.1	9, 0	1, 0	3.0	4.5
75.4		1.9	3.8	5.8	7.7	9.7	11.7	13.6	15.6	17.7	19. 7	21.7	23. 8	$-\frac{75.0}{75.0}$
5.5		2, 0	3,9	6, 0	8.0	10, 0	2.1	4.1	6. 2	8.3	20.4	2.5	4.7	5, 5
6, (		2.1	4.0	6, 2	8.3	0, 4	2. 5	1. 6	6, 8	8, 9	1.1	3, 3	5, 6	6, 0
6.5		2.1	1.2	6, 4	8.6	0, 8	3, 0	5.2	7.4	9, 6	1.9	4.2	6, 6	6, 5
7.1	0, 0	2. 2	1.4	6, 6	8, 9	1.2	3, 5	5, 5	8.1	20, 4	2.8	5, 2	7.7	7.0

Lati-						De	clinatio	n,						Lati-
tude.	60,0	60.5	7°.0	7°.5	80,0	80.5	90.0	90.5	100,0	100,5	110.0	110.5	125.0	tude,
0	0	0	0	0	0	0		0	0	0	0	0	0	0
0	6, 0	6.5	7.0	7.5	8.0	8. 5	9, 0	9.5	10.0	10.5	11.0	11.5	12.0	- 0
10 15	6, 1	6, 6	$\frac{7.1}{7.2}$	7.6	8. 1 8. 3	8, 6 8, 8	9.1 $9.3$	9.7 9.8	0.1	0, 7	1.2	1.7	2. 2 2. 5	10 15
20	6.4	6, 9	7.4	8.0	8.5	9.1	9.6	10.1	0.7	1. 2	1.7	2.3	2.8	20
25	6.6	7.1	7.7	8.3	8.8	9.4	9, 9	0.5	1.1	1.6	2. 2	2, 8	3.3	25
30	6, 9	7.5	8.1	8.7	9.3	9.8	10, 4	11.0	11.5	12.1	12.7	13. 3	13. 9	30
32 34	7.0	7.7 7.8	8.3 8.5	8.8   9.0	9, 5 9, 7	$ \begin{array}{c} 10.0 \\ 0.3 \end{array} $	0.6	1, 2 1, 5	1.8 2.1	2. 4 2. 7	3.0	3.6 3.9	4.2	32 34
36	7. 2 7. 4	8.0	8.7	9. 3	9. 9	0.5	1.1	1.8	2.4	3, 0	3, 6	4.3	4.9	36
38	7.6	8, 2	8.9	9. 5	10.2	0.8	1.4	2.1	2.7	3.4	4.0	4.7	5.3	38
40	7.8	8, 5	9.1	9.8	10, 5	11. 1	11.7	12.4	13. 1	13, 8	14.4	15. 1	15.7	40
42 44	8.0 8.3	8.8 9.1	$9.4 \\ 9.7$	10. 1 0. 5	0.8	$\frac{1.5}{1.9}$	2. 1 2. 5 3. 0	2.8 3,3	3.5 4.0	4. 2 4. 7	4.8 5.3	5. 6 6. 1	6.2	42 44
46	8.6	9, 4	10. 1	0.8	1.5	2.3	3. 0	3.8	4.5	5. 2	5.9	6.7	7.4	46
48	9, 0	9.7	0.5	1.2	2.0	2.8	3,5	4.3	5.0	5.8	6, 6	7.3	8.1	48
50	9.3	10.1	10.9	11.7	12.5	13. 3 3. 6	14, 1	14.9	15. 7	16.5	17.3 7.7	18. 1 8. 5	18.9 9.3	50 51
51 52	9.5 9.7	$0.4 \\ 0.6$	1. 2 1. 4	2. 0 2. 2	2. 8 3. 1	3.9	4.4	5. 2 5. 6	6.0	6.8	8.1	8.9	9.3	$\frac{51}{52}$
53	10.0	0.8	1.7	2.5	3.4	4. 2	5.1	5.9	6.8	7.6	8.5	9.4	20. 2	53
54	0.2	1.1	2.0	2.8	3.7	4.6	5.4	6.3	7.2	8.1	8, 9	9, 8	0.7	54
55 56	10. 5 0. 8	11.4 1.7	12. 3 2. 6	13. 1 3. 5	14. 0 4. 4	14. 9 5. 3	15.8	$\frac{16.7}{7.2}$	17. 6 8. 1	18. 5 9. 0	19. 4 9. 9	20.3	21. 2 1. 8	55 56
57	1.1	2.0	2. 9	3.9	4.8	5.8	$\frac{6.2}{6.7}$	7.7	8.6	9.6	20.5	1.5	2.4	57
58	1.4	2.3	3.3	4.3	5. 2	6. 2	7.2	8, 2	9.1	20. 1	1.1	2.1	3.1	58
59	1.7	2.7	3.7	4.7	5.7	6.7		8.7	9.7	0.7	1.7	2.8	3, 8	59
60 61	12.1	13. 1 3. 5	14. 1 4. 6	15. 1 5. 6	16. 2 6. 7	17. 2 7. 8	18. 2 8. 8	19.3 9.9	20.3	21, 4	22. 4 3. 1	23, 5	24. 6 5. 4	60 61
62	2.5 2.9	3, 9	5.1	6.1	7. 3	8, 4	9, 4	20.6	1.7	2.1 2.9	3.9	5. 2	6, 3	62
63	3.4	4.4	5.6	6.7	7.9	9.0	20. 1	1.3	2.5	3. 7	4.8	6, 1	7. 2	63
65.0	3.9	$\frac{5.0}{15.5}$	$\frac{6.2}{16.8}$	$\frac{7.3}{18.0}$	$\frac{8.5}{19.3}$	$\frac{9.7}{20.5}$	$\frac{0.9}{21.7}$	2.1	$\frac{3.3}{24.2}$	$\frac{4.6}{25.6}$	5.7 26.8	$\frac{7.1}{28.2}$	8.3	65, 0
5.5	14. 4 4. 6	5.8	7.1	8.3	9, 6	0.9	2. 2	23. 0 3. 5	4.7	6.1	7.4	8.7	30. 1	5.5
6.0	4.9	6. 2	7.4	8.7	20.0	1.3	2.6	3.9	5.3	6.6	8.0	9.3	0.7	6.0
6.5	5, 2	6. 5 6. 8	7.8 8.2	9,1	0.4	$\frac{1.8}{2.2}$	3.1	4.4	5.8	7. 2 7. 8	8.6 9.2	30.0	$\frac{1.4}{2.1}$	6.5 7.0
$\frac{7.0}{67.5}$	5, 5 15, 9	17. 2	18.6	$\frac{9.5}{19.9}$	$\frac{0.9}{21.3}$	22. 7	3, 6	25. 5	$\frac{6.4}{27.0}$	28. 4	29. 9	31. 4	32. 9	67.5
8.0	6. 2	7.6	9.0	20.4	1.8	3. 2	4.7	6.1	7.6	9.1	30. 6	2. 2	3.7	8.0
8.5	6.6	8.0	9.4	0.9	2.3	3.8	5.3	6.8	8.3	9.8	1.4	3.0	4.6	8.5
9. 0 9. 5	$7.0 \\ 7.4$	8. 4 8. 9	9. 9 20. 4	1.4 1.9	2.8 3.4	4. 4 5. 0	5, 9 6, 5	7.4 8.1	9.0	30.6	2. 2 3. 0	3.8	5. 5 6. 4	9. 0 9. 5
70.0	17.8	19.3	20. 9	22.4	24.0	25. 6	27.2	28. 8	30.5	32. 2	33, 9	35. 7	37. 4	$\frac{-0.0}{70.0}$
0.5	8. 2	9.8	1.4	3.0	4.6	6.3	7.9	9.6	1.3	3.1	4.9	6.7	8, 5	0.5
1.0	8.7 9.2	20.3	$\frac{2.0}{2.6}$	3. 6 4. 3	5. 3 6. 0	7. 0 7. 8	8.7	30. 5	2. 2 3. 2	4.0	5.9 7.0	7.8	9.7	1.0 1.5
$\begin{array}{c} 1.5 \\ 2.0 \end{array}$	9. 2	1.5	3. 2	5.0	6.8	8.6	9. 5 30. 4	1.4	4.2	6.1	8.1	40, 2	2.3	2.0
72.5	20. 3	22.1	23. 9	25.7	27.6	29.5	31.4	33. 3	35. 3	37.3	39. 4	41.5	43.7	72.5
3.0	0.9	2. 8 3. 5	4.6	6.5	8.4	30.4	2.4	4.4	6.5	8.6	40.8	3.0	5.3	3. 0 3. 5
3. 5 4. 0	1.6 2.3	4.3	5. 4 6, 2	7. 4 8. 3	9, 3 30, 3	1. 4 2. 5	4.6	5.5 6.8	9.1	9.9	2. 2 3. 8	4. 6 6. 3	8.9	4.0
4.5	3. 0	5. 1	7.1	9.3	1.4	3.6	5.8	8.2	40.5	3.0	5.6	8.2	51.1	4.5
75.0	23.8	26.0	28. 1	30. 3	32.5	34.8	37.2	39.6	42.1	44.8	47.5	50.4	53.5	75.0
5. 5 6. 0	4.7 5.6	6. 9 7. 9	9. 1 30. 2	1.4 2.6	3.8 5.1	6.2	8.7 40.3	41. 2 3. 0	3.9 5.9	6.7 8.9	9. 6 52. 1	2.8 5.5	6.2	5, 5 6, 0
6.5	6.6	9.0	1.4	4.0	6.6	9.3	2.1	5.0	8.1	51.3	4.8	8. 7	63.0	6, 5
7.0	7.7	30. 2	2.8	5, 5	8. 2	41.1	4.1	7.2	50.5	4.1	8.0	62.4	7.6	7.0

Page 742]

### TABLE 39.

Lati-						De	eclinatio	n.						Lati-
tude.	120.0	120.5	13°.0	13°.5	140.0	110.5	15°,0	150.5	16°.0	160.5	170.0	17°.5	15 .0	tude.
0	0	С		0	0		0	0			0	0	,	0
0	12, 0	12, 5	13, 0	13.5	14.0	14.5	15, 0	15. 5	16.0	16.5	17.0	17. 5	18.0	0
10	2. 2	2.7	3. 2	3.7	4.2	4.7	5.3	5.8	6.3	6.8	7.3	7.9	8.3	10
15 20	$\frac{2.5}{2.8}$	2.9	3, 5	4.0	4.5 4.9	5.0	5.6	6. I 6. 5	6.6	7.1 7.6	7.7 8.1	8, 2 8, 7	8.7	15
25	3, 3	3, 8	4, 4	4. 4	5.5	6, 1	6, 0	7.1	7.7	8.3	8.8	9.4	9, 2	20 25
30	13.9	14.5	15, 0	15.6	16. 2	16, 8	17.4	18.0	18.6	19. 2	19.7	20. 3	20. 9	$-\frac{20}{30}$
32	4. 2	4.8	5, 3	6.0	6.6	7, 2	7.8	8.4	9.0	9. 6	20. 2	0.8	1.4	32
34	4.5	5.1	5.7	6, 4	7.0	7.6	8.2	8.8	9.5	20.0	0.7	1, 3	1.9	34
36	4. 9	5, 5	6.1	6.8	7.4	8.0	8.7	9.3	20.0	0.5	1, 2	1.8	2, 5	36
38	5.3	6, 0	6.6	7. 2	7.9	8.5	9.2	9.8	0.5	1.1	1.8	2.4	3. I	38_
40	15.7	16. 4	17. 1 7. 3	17.8	18.4	19. 1	19.7	20.4	21.1	21.8	22.4	23. I	23, 8	40
41 42	6, 0 6, 2	6. 7 6. 9	7.6	8, 0	8.7 9.0	9.4	20.0	0.8	1.4 1.8	2.1	3. 2	3, 5	4. 2 4. 6	41 42
43	6.5	7.2	7.9	8.6	9.3	20.0	0.7	1.4	2. 2	2.9	3. 6	4.3	5.0	43
44	6, 8	7. 2 7. 5	8, 2	8,9	9.6	0.4	1.1	1.8	2.6	3, 3	4.0	4.7	5.4	44
45	17.1	17.8	18.5	19. 3	20, 0	20. 7	21.5	22.2	23. 0	23, 7	24. 4	25, 2	25. 9	45
46	7.4	8.2	8.9	9. 6	0.4	1.1	1.9	2.6	3, 4	4.1	4.9	5.7	6.4	46
47	7.7	8, 5	9, 3	20, 0	0.8	1.5	2, 3	3.1	3, 8	4. 6	5, 4	6. 2	6, 9	47
48	8.1	8.9	9.7	0.4	1.2	2.0	2.8	3.6	4.3	5. 1	5.9	6. 7	7.5	48
49	8.5	9.3	20. I	0.8	1.6	2.4	3. 2	4.1	4.9	5.7	6,5	7.3	8. 1	49
50 51	18, 9 9, 3	19. 7 20. I	20. 5	21. 3 L. 8	$\frac{22.1}{2.6}$	22. 9 3. 5	23. 7 4. 3	24. 6 5. 1	25. 4 6. 0	26. 2 6. 8	27. 0 7. 6	27. 9 8. 5	28.7 9.4	50 51
52	9.7	0, 6	1.4	2.3	3. 1	4.0	4.9	5.7	6, 6	7.5	8.3	9. 2	30.1	52
53	20.2	1, 1	1.9	2, 8	3, 7	4. 6	5, 5	6.4	7.3	8.2	9.0	30.0	0.9	53
54	0.7	1.6	2, 5	3, 4	4.3	5, 2	6.1	7.1	8.0	8.9	9.8	0, 8	1.7	54
55	21, 2	22. 2	23, 1	24. 0	24. 9	25. 9	26.8	27.8	28.7	29.7	30.6	31.6	32. 6	55
56	1.8	2.8	3, 7	4.7	5.6	6.6	7.6	8, 6	9, 5	30, 5	1.5	2.5	3, 6	56
57	2. 4 3. 1	3.4	4.4	5.4	6.4	7.4	8.4 9.2	9.4	30. 4	1.4	2.5	3, 5	4.6	57
58 L59	3. 8	4.1	5. I 5, 9	6.1	8.0	8. 2 9. 1	30. 2	30.3	1.3 2.3	2.4	3, 5	4.6 5.7	5.7	58 59
60	24. 6	25. 6	26, 7	27.8	28. 9	30. 1	31. 2	32. 3	33. 4	34.6	35. 8	36. 9	38. 2	60
61	5, 4	6, 5	7. 6	8. 8	9. 9	1.1	2.2	3.5	4.6	5.8	7.1	8,3	9. 6	61
62	6.3	7.5	8.6		31.0	2. 2	3.4	4.7	5.9	7.2	8.5	9, 8	41, 2	62
63	7.2	8, 5	9.7	31.0	2, 2	3. 5	4.7	6.1	7.4	8.7	40.1	41.5	2, 9	63
64	8, 3	9, 6	30.9	2. 2	3, 5	4.8	6. 2	7.6	9.0	40.4	1.8	3, 3	4.8	64
65.0	29, 5	30. 8	32. 2	33, 5	34.9	36. 3	37.8	39.2	40. 7	42. 2	43.8	45. 4	47, 0	65. 0
5, 5 6, 0	30, 1	1, 5	2.9 3.6	4. 3 5. 0	5. 7 6. 5	7. I 8. 0	8.6 9.5	40.1	1.6	3. 2 4. 3	4.8	6.5	8.2	5, 5
6, 5	1.4	2.9	4.3	5.8	7.3	8.9	40.5	2.1	3.8	5.4	5. 9 7. 1	8.9	9, 4	6. 0 6. 5
7. 0	2. 1	3.6	5.1	6.7	8. 2	9.8	1.5	3. 2	4. 9	6.6	8.4	50.3	2.3	7.0
67.5	32. 9	34.4	36.0	37. 6	39. 2	40.8	42.6	44.3	46.1	47. 9	49.8	51.8	53. 9	67.5
8, 0	3.7	5, 3	6.9	8, 6	40.2	1.9	3.7	5. 5	7.4	9, 3	51.3	3.4	5, 6	8.0
8.5	4.6	$\frac{6.2}{7.2}$	7.9	9.6	1.3	3. 1	4.9	6. 8	8.8	50.8	2.9	5.1	7.5	8.5
9, 0	5, 5	7. 2	8, 9	40.7	2.5	4.3	6. 2	8, 2 9, 7	50.3	2.4	4.6	7.0	9.6	9.0
$\frac{9.5}{70.0}$	$\frac{6.4}{37.4}$	8, 2	40.0	1.8 43.0	$\frac{3.7}{45.0}$	5, 6 47, 0	$\frac{7.6}{49.2}$	51.4	1.9	4. 2 56. I	6,5	9.1	61.9	9.5
0.5	8, 5	39, 3 40, 4	9.4	43.0	6.4	8.6	50. 8	3. 2	5.7	8.3	58. 7 61. 1	61, 5	64.6 7.8	70.0 0.5
1.0	9.7	1.7	2. 4 3. 7	5, 8	8.0	50.3	2.6	5. 2	7. 9	60.7	3. 9	7.5	71.7	1.0
1.5	40. 9	3.0	5.1	7. 4	9.7	2.1	4.6	7.4	60, 3	3.5	7. 1	71.4	6.9	1.5
-2.0	2.3	4.4	6. 7	9.1	51.5	4. I	6. 9	9, 9	3.1	6.8	71.1	6. 7	90, 0	2.0
72.5	43.7	46. 0	48.4	50. P	53. 6	56. 4	59.4	62. 7	66, 4	70.9	76.5	90.0		72.5
3, 0	5, 3	7. 7	50.3	3.0	5. 9	8.9	62.2	6. I	70.6	6.3	90, 0			3.0
3, 5 4, 0	7, 0 8, 9	9. 6 51. 7	2.3	5.3	8. 4 61. 4	61.8	5, 6 9, 8	70.3 75.9	90.0	90.0				3.5
4.0	51.1	4. 1	7.3	60.9	4. 9	9.5	75.5	90. 0	10.0					4. 0 4. 5
] ""	l	1	,	10.0	1. 0	0.0	1							4.0

# TABLE 39.

	1					D	eclinatio	nD.						
Lati- tude.	18°.0	18°.5	19°.0	190,5	200.0				220.0			1		Lati- tude,
	150.0	150.0	195.0	190.5	200,0	200,5	210.0	210.5	220.0	220,5	23°.0	230.5	210.0	
0	۰	0	0	0	0	0	. 0	0	0	0	0	0	0	
0	18.0	18.5	19.0	19.5	20.0	20. 5	21.0	21, 5	22.0	22.5	23.0	23.5	24.0	-0
10	8.3	8, 8	9.3	9.8	0.3	0.8	1.3	1.8	2.3	2.9	3.4	3.9	4.4	10
15	8.7	9. 2	9.7	20. 2	0.7	1.3	1.8	2.3	2.8	3, 3	3.9	4.4	4. 9	15
20 25	9, 2 9, 9	9.7 $20.5$	20, 3	0, 8	$\begin{array}{ c c c } 1.4 \\ 2.2 \end{array}$	$\frac{1.9}{2.7}$	2. 4 3. 3	3, 0 3, 9	3, 5	4.0 5.0	4, 6 5, 5	5. 1 6. 1	5.7	20 25
30	20, 9	21.5	22.1	22, 7	23. 3	23. 8	24.4						6.7	
32	1.4	21. 3	2.6	3. 2	3.8	4.4	5. 0	25. 0 5. 6	25. 6 6. 2	26. 2 6. 8	26, 8 7, 4	27. 4 8. 0	28. 0 8. 7	30 32
34	1.9	2.5	3, 1	3.8	4.4	5. 0	5.6	6. 2	6. 9	7.5	8.1	8.7	9.4	34
36	2.5	3. 1	3. 7	4.4	5.0	5.7	6.3	6.9	7.6	8. 2	8, 9	9.5	30. 2	36
38	3.1	3.8	4.4	5. 1	5.7	6.4	7.0	7.7	8.4	9.1	9.7	30.4	1.1	38
40	23, 9	24.4	25. 1	25.8	26.5	27.2	27. 9	28.6	29.3	30.0	30. 7	31.3	32. 1	40
41	4.2	4.8	5, 5		6. 9	7.7	8.3	9. 1	9.8	0.5	1. 2	1.8	2.6	41
42	4.6	5.3	6.0	6. 2 6. 7	7.4	8.1	8.8	9.6	30.3	1.0	1. 2 1. 7	2.4	3. 2	42
43	5.0	5. 7	6.4	7.2	7.9	8.6	9.3	30, 1	0.8	1.6	2, 3	3.0	3.8	43
44	5.4	6. 2	6,9	7.7	8.4	9.1	9.8	0.6	1.4	2.2	2.9	3.6	4.4	44
45	25. 9	26. 7	27.4	28. 2	28. 9	29. 7	30.4	31.2	32.0	32. 8	33.5	34.3	35, 1	45
46	6.4	7. 2	7.9	8.7	9.5	30. 3	1.0	1.8	2.6	3.4	4.2	5.0	5.8	46
47	6, 9	7. 7	8.5	9.3	30. 1	0.9	1.7	2.5	3.3	4.1	4.9	5.7	6.6	47
48 49	7.5 8.1	8.3	9.1 9.7	9. 9 30. 6	0.7	$\frac{1.6}{2.3}$	2.4	3. 2 4. 0	4.0	4.9	5.7 6.5	6.5	7.4 8.3	48 49
	28, 7	29.6		31. 3	32.1					5.7				
50 51	9.4	30. 3	30.4	2.0	2. 9	33. 0 3. 8	33. 9 4. 7	34. 8 5. 6	35. 6 6. 5	36. 5 7. 4	37. 4 8. 4	38, 3 9, 3	39. 2 40. 2	50 51
52	30. 1	1.0	1.9	2.8	3, 7	4.7	5.6	6.5	7.5	8. 4	9.4	40, 3	1.3	52
53	0.9	1.8	2.7	3.7	4.6	5.6	6.6	7.5	8.5	9.5	40.5	1, 4	2, 5	53
54	1.7	2. 7	3.6	4.6	5. 6	6.6	7. 6	8.6	9, 6	40.6	1.7	2.6	3, 8	54
55	32.6	33, 6	34. 6	35, 6	36. 6	37.6	38. 7	39. 7	40.8	41.9	42.9	44.0	45. 2	55
56	3.6	4.6	5.6	6.7	7. 7	8.8	9.8	41.0	2. 1	3, 2	4.3	5.4	6. 7	56
57	4.6	5.6	6.7	7.8	8.9	40.0	41.1	2.3	3, 5	4.6	5.8	7.0	8, 3	57
58	5.7	6.8	7.9	9.1	40.2	1.4	2, 5	3.8	5.0	6, 2	7.5	8.8	50.1	58
59	6.9	8, 0	9.2	40.4	1.6	2.8	4.1	5, 4	6.7	8.0	9,3	50.7	2, 2	59
60.0	38. 2	39.4	40.6	41.9	43. 2	44.5	45.8	47, 2	48, 6	49, 9	51.4	52. 9	54.4	60.0
0.5	8.9	40.1	1.4	2. 7	4.0	5, 4	6. 7	8.1	9.6	51.0	2.5	4.1	5.7	0.5
1.0	9. 6 40. 4	$0.9 \\ 1.7$	2. 2 3. 0	3, 5 4, 4	4.9 5.8	6.3	7. 7 8. 7	9.1	50.6	2. 1	3.7 5.0	5.3 6.7	7. 0 8. 5	$\frac{1.0}{1.5}$
2.0	1.2	2.5	3, 9	5, 3	6.8	7.3	9.8	50, 2 1, 3	1.7 2.9	3.3 4.6	6, 3	8.1	60.0	2.0
62. 5	42.0	43. 4	44.9	46.3	47.8	49.4	$\frac{8.8}{51.0}$	52.6	54. 2	56.0	57.8	59, 7	61. 7	$-\frac{2.0}{62.5}$
3. 0	2.9	4.3	5.9	7.4	8.9	50.5	$\frac{51.0}{2.2}$	3.9	5.6	7.5	9.4	61.4	3.6	3.0
3.5	3.8	5.3	6.9	8.5	50.1	1.7	3.5	5.3	7.1	9.1	61.1	3.4	5. 7	3.5
4.0	4.8	6, 4	8.0	9.7	1.3	3.0	4.9	6.7	8.7	60.7	3.0	5. 5	8.1	4.0
4.5	5.9	7.5	9.2	50.9	2.6	4.5	6.4	8.4	60, 5	2.8	5. 2	7.8	70.9	4, 5
65.0	47.0	48.7	50.4	52. 2	54. 0	56.0	58.0	60. 2	62.5	64. 9	67. 6	70.6	74. 4	65, 0
5.5	8, 2	50.0	1.8	3.6	5. 6	7.6	9.8	2. 2	4.7	7.3	70.4	4.1	8.9	5, 5
6.0	9.4	1.3	3. 2	5. 1	7.3	9.4	61.8	4.4	7.1	70. 2	3.8	8.6	90.0	6.0
6.5	50.8	2, 7	4.7	6.8	9.1	61.4	4.0	6.8	70.0	3.7	8,4	90.0		6.5
7.0	2.3	4.3	6.4	8.7	61.1	3.7	6.5	9.8	3.5	8.3	90.0			7.0
67.5	53.9	56. 0	58.3	60.7	63, 4	66. 2	69.5	73. 3	78. 2	90.0				67.5
8.0	5.6	7.9	60.3	3.0	5.9	9.2	73. 0	8, 1	90.0					8. 0 8. 5
8.5 9.0	7.5 9.6	60.0	2. 6 5. 3	5.6 8.7	8. 9 72. 7	72.8 7.7	7.9 90.0	90.0						9.0
9.5	61. 9	5.0	8.4	72.4	7.6	90.0	90.0					}		9.5
70.0	64.6	69.1	72.2	77.4	90.0	30.0								70.0
0.5	7.8	71.9	7.2	90.0	30.0		1							0.5
1.0	71.7	7.1	90. 0	50.0										1.0
1.5	6.9	90.0	20.0		(		1			i				1, 5
2.0	90.0													2.0
					1		1	i	1			1		

Page 744]

# TABLE 39.

Lati-						D	eclinatio	n.						Lati
tude.	210.0	240.5	250.0	250.5	26°.0	260.5	270.0	270.5	240.0	280.5	290.0	29°.5	30°.0	tude
				0			0	0			0	0		
0	24. 0	24, 5	25, 0	25. 5	26, 0	26, 5	27.0	27.5	28. 0	28, 5	29. 0	29. 5	30, 0	ŭ
4	4. 1	4.6	5. 1	5, 6	6. 1	6, 6	7.1	7.6	8.1	8.6	9. 1	9.6	0.1	4
8	4.3	4.8	5, 3	5.8	6.3	6.8	7.3	7.8	8, 3	8, 8	9.3	9.8	0.3	Š
2	4.6	5.1	5. 6	6.1	6, 6	7.1	7.6	8, 1	8.7	9, 2	9.7	30. 2	0. 7	12
6	5, 0	5, 6	6.1	6.6	7.1	7. 6	8. 2	8.7	9.2	9.8	30.3	0.8	1.3	16
(0)	25. 7	26, 2	26. 7	27. 3	27. 8	28.3	28. 9	29.4	30.0	30. 5	31. 1	31.6	32.1	20
2	6, 0	6, 6	7. 1	7.7	8. 2	8.8	9.3	9. 9	0.4	1.0	1, 5	2, 1	2.6	22
4	6, 4	7.0	7. 6	8.1	8. 7	9. 2	9.8	30, 4	0.9	1.5	2.0	2.6	3. 2	24
6	6. 9	7.5	8.1	8.6	9. 2	9. 7	30.3	0, 9	1.5	2. 1	2.6	3. 2	3.8	26
8	7.4	8.0	8.6	9. 2	9.8	30.3	0.9	1.5	2. 1	2.7	3.3	3.9	4.5	28
$\bar{0}^{-}$	28.0	28. 6	29. 2	29, 8	30. 4	31.0	31.6	32. 2	32.8	33, 4	34. 0	34.7	35, 3	30
i l	8.3	8, 9	9.5	30.1	0.8	1.4	2. 0	2.6	3. 2	3.8	4.5	5, 1	5. 7	31
2	8.7	9.3	9.9	0.5	1.1	1.7	2.4	3.0	3, 6	4. 2	4.9	5, 5	6.1	32
33	9.0	9.6	30. 2	0.9	1.5	2.1	2.8	3.4	4.0	4.7	5.3	6.0	6.6	33
4	9, 4	30.0	0.6	31.3	1.9	2.6	3. 2	3, 8	4.5	5.1	5.8	6.4	7.1	34
5	29.8	30. 4	31. 1	31. 7	32. 3	33, 0	33, 6	34. 3	35, 0	35, 6	36, 3	36. 9	37. 6	35
6	30. 2	0.8	1.5	2.1	2, 8	3, 5	4.1	4. 8	5, 5	6. 1	6.8	7.5	8. 2	36
7	0.6	1.3	1. 9	2.6	3. 3	4.0	4.6	5, 3	6, 0	6. 7	7.4	8.1	8.8	37
8	1, 1	1.7	2.4	3.1	3.8	4.5	5. 2	5, 9	6.6	7.3	8.0	8.7	9.4	38
9	1.6	2. 2	2.9	3.6	4.3	5, 0	5.7	6, 5	7.2	7. 9	8.6	9.3	40.0	39
0	32.1	32.8	33. 5	34. 2	34. 9	35, 6	36, 3	37.1	37.8	38.5	39, 3	40.0	40.7	40
ĭ	2.6	3, 3	4. 1	4.8	5.5	6, 2	7. 0	7. 7	8. 5	9. 2	40.0	0. 7	1.5	41
2	3. 2	3. 9	4.7	5.4	6. 1	6, 9	7. 7	8.4	9. 2	9, 9	0. 7	1.5	2.3	42
3	3, 8	4. 5	5, 3	6, 1	6.8	7.6	8.4	9. 2	9.9	40.7	1.5	2.3	3. 1	43
4	4.4	5. 2	6, 0	6.8	7.5	8, 3	9.1	40.0	40.7	1.6	2.4	3. 2	4.0	44
5	35.1	35. 9	36, 7	37.5	38. 3	39, 1	39. 9	40, 8	41.6	42, 5	43, 3	44. 1	45.0	45
6	5.8	6.6	7.5	8.3	9, 1	40.0	40, 8	1.7	2.5	3.4	4.3	5. 1	6.0	46
17	6.6	7.4	8.3	9.1	40, 0	0, 9	1.7	2.6	3.5	4.4	5, 3	6, 2	7.1	47
8	7.4	8.3	9.2	40.0	0.9	1.8	2.7	3, 6	4.6	5, 5	6.4	7.4	8, 3	48
9	8.3	9.2	40.1	1.0	1.9	2, 8	3.8	4.7	5. 7	6. 7	7. 6	8, 6	9,6	49
i0	39. 2	40.2	41.1	42.0	43.0	43.9	44. 9	45. 9	46. 9	47.9	48, 9	50.0	51.1	50
1	40.2	1.2	2. 2	3. 2	4.1	5.1	6.2	7. 2	8, 2	9.3	50.4	1.5	2.6	- 51
2	1.3	2.3	3.3	4.4	5.4	6.4	7.5	8, 6	9.7	50.8	2.0	3.1	4.3	52
3	2.5	3, 5	4.6	5.7	6, 7	7.8	9.0	50.1	51.3	2, 5	3. 7	4.9	6, 2	53
4	3.8	4.9	6.0	7.1	8, 2	9.4	50, 6	1.8	3.0	4.3	5, 6	6.9	8.3	54
5, 0	45.2	46.3	47.5	48, 6	49, 8	51.1	52.3	53, 6	54.9	56.3	57. 7	59.1	60.7	5.5
5, 5	5, 9	7.1	8.3	9.5	50.7	2.0	3.3	4, 6	6, 0	7.4	8, 9	60, 4	2.0	5.
6, 0	6.7	7.9	9.1	50.4	1, 6	2.9	4.3	5, 7	7.1	8, 6	60.1	1.7	3.4	- 6
6.5	7.5	8, 8	50, 0	1.3	2.6	3, 9	5, 4	6, 8	8, 3	9, 9	1.5	3, 2	5, 0	6
7.0	8, 3	9, 6	0.9	2.2	3, 6	5.0	6, 5	8, 0	9.5	61. 2	2.9	4.7	6, 6	_ 1
7.5	49, 2	50, 5	51.9	53. 2	54.7	56, 2	57.7	59, 3	60, 9	62.6	64, 5	66, 4	68, 5	57.
8.0	50, 1	1, 5	2.9	4.3	5.8	7.4	8, 9	60, 6	2.4	4.2	6, 2	8, 3	70.7	- S.
8.5	1.1	2, 5	4.0	5, 5	7.0	8, 6	60, 3	2.1	3.9	6, 0	8, 1	70.4	3. 1	8.
9, 0	2. 2	3, 6	5, 1	6, 7	8.3	60, 0	1.8	3.7	5, 7	7.9	70, 3	3, 0	6, 2	9.
9.5	3.3	4.8	6, 4	8.0	9.7	_ 1.5	3.4	5, 5	7.7	70.1	2, 8	5.9	80, 1	- 9.
0, 0	54.4	56, 0	57.7	59, 4	61. 2	63.2	65, 2	67.4	69, 9	72.6	75, 8	80, 0	90, 0	60.
0.5	5.7	7.4	9, 1	61, 0	2. 9	5, 0	7. 2	9, 6	72.4	5.8	9, 9	90.0		0.
1.0	7.0	8, 8	60, 7	2.6	4.7	7, 0	9. 5	72.3	5.5	9, 8	90. 0	1		1.
1.5	8,5	60, 3	2.3	4.4	6.7	9, 2	72.0	5, 4	9. 7	90, 0	i			1.
2.0	60, 0	2.0	1. 2	6.5	9. 0	71.9	5.2	9, 6	90, 0					22.
32.5	61.7	63, 9	66, 2	68, 8	71.7	75.1	9.5	90, 0	i					62.
		6, 0	5, 6	71.5	4.9	9.4	50, 0					1		3.
3, 0 .	3, 6													
3, 0 3, 5	5, 7	8, 3	71.3	4.8	9, 3	90, 0						}	1	3.
3, 0 .			71.3 4.6 9.0	4, 8 9, 2 90, 0	9, 3 90, 0	90, 0								4.

TABLE 40.

[Page 745

Correction of the Amplitude as observed on the Apparent Horizon.

Lati-						D	eclinatio	n.						Lati-
tude.	00	5°	100	120	140	160	180	200	220	240	260	280	30°	tude.
0	0	0	٥	0	0	0	0	0	0	0	0	0	,	0
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
5	.1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	.1	. 1	- 5
10	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	. 1	10
15	.2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	. 2	15
20	. 2	. 2	2	. 2	. 2	. 2	3	3	3	,3	3_	. 3	. 3	20
24	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0, 3	0.4	0, 4	24
28	. 3	. 4	.4	. 4	. 4	. 4	. 4	. 4	. 4	. 4	. 4	. 4	. 4	28
32 36	.4	. 4	. 4	.4	.4	. 4	. 4	. 5 . 5	.5	. 5	. 5	. 5 . 6	. 5	32
38	.5	.5	.5	.5	.6	.6	.6	. 6	.6	.6	.6	.7	. 6 . 7	36 38
$-\frac{30}{40}$	0.6	0.6	0, 6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	$\frac{-0.7}{0.7}$	0.7	0.7	<del></del>
42	. 6	. 6	. 6	. 6	.6	. 7	.7	. 7	.7	.7	. 8	. 8	.8	40
44	.6	.6	.7	.7	.7	. 7	.7	. 7	.8	.8	.8	.9	.9	44
46	.7	.7	.7	. 7	.7	.8	.8	. 8	.8	.9	.9	. 9	1.0	46
48	.7	.8	.8	. 8	.8	. 8	. 8	. 9	. 9	1.0	1.0	1.0	. 1	48
50	0.8	0.8	0, 8	0.8	0.9	0.9	0.9	0.9	1.0	1, 1	1.1	1, 1	1.3	50
52	.8	. 9	. 9	. 9	.9	1.0	1.0	1.0	. 1	. 2	. 2	. 3	. 5	52
54	. 9	. 9	1.0	1.0	1.0	. 1	. 1	. 1	. 2	. 3	. 4	. 5	.8	54
56	1.0	1.0	. 1	. 1	. 1	. 2	. 2	. 2	. 3	. 5	. 6	. 8	2.2	56
_58_	1	. 1	. 2	. 2	2	,3_	3	. 4	. 5	. 7	. 9	2.3	3.2	58
60	1.2	1.2	1.3	1.3	1.3	1.4	1.5	1.6	1.7	2. 0	2. 4	3. 4		60
62	. 3	. 3	.4	. 4	.4	. 6	. 7	. 8	2. 1	.5	3.5			62
64	.4	. 4	. 5	. 5	. 6	.8	.9	2. 2	. 6	3.7				64
66 68	.5	.5	.7	. 7 2. 0	. 9 2. 2	2.0	2.3	. 8 4. 0	3.8				l	66 68
70	1.8					3.1	4.3	-1.0						
70	$\frac{1.8}{2.0}$	1. 9 2. 1	$\frac{2.1}{.5}$	2.3	2. 6 3. 3	3. 1 4. 6	4.3							70 72
74	.2	.5	3.0	3.5	4.8	4.0			1					74
76	.6	3.0	.8	5. 2	1.0									76
78	3.1	.6	5.7	J. 2										78
80	3.8	4.4												80
[ ]									<u> </u>					li

TABLE 41.

Prop parts	θ,	15	5.	30	1	Prop.
29 M.	N. sine, N. cos	N. sine. N. cos.	N. sine. N. cos.	N. sinc. N. cos.	N. sine N. cos.	2
0 0	ткико) Тикина	01745 99985	03490 99939	05234   99863	06976 99756	60 2
0 1	00029 100000 00058 (00000	01774   99984 01803   99984	03519   99938 03548   99937	05263   99861 05292   99860	07005   99754 07034   99752	50 2 59 2 58 2 57 2 56 5 55 2 54 2 51 2 50 2 51 2 52 49 2 49 2
1 1 5	00087 100000	01832 99983	03577 99936	05 121 99858	07063 99750	$\begin{vmatrix} 55 & 2 \\ 57 & 2 \end{vmatrix}$
2 4	00116 100000	01862 99983	03606 - 99935	05350 99857	07092 99748	56 2
2 5	-00145 - 100000	01891 99982	03635 99934	05379 99855	07121 99746	55 2
- 3 -6	00175 100000	01920 99982	03664 99933	05408 99854	07150 99744	54 2
3 7 4 8	00201 100000 00233 100000	01949 99981 01978 99980	03693 99932 03723 99931	05437 99852 05466 99851	07179   99742 07208   99740	53 2 52 2
4 9	00262 100000	02007 99980	03752 99930	05495 99849	07237 99738	51 2
5 10	00291 100000	02036 99979	03781 99929	05524 99847	07266 99736	50 2
5 11	00320 99999	02065 99979	03810 99927	05553 99846	07295 99734	49 2
$=\frac{6}{6} \cdot \frac{12}{43}$	00349 99999	02094 99978	03839   99926	05582 99844	07324 99731	
	00378 99999 00407 99999	02123 99977 02152 99977	03868   99925 03897   99924	05611   99842 05640   99844	07353   99729 07382   99727	$\begin{vmatrix} 47 & 2 \\ 46 & 2 \\ 45 & 2 \end{vmatrix}$
7 14 7 15	00436 99999	02181 99976	03926 99923	05669 99839	07411 99725	45 2
8 16	00465 99999	-02211 - 99976	$03955 \pm 99922$	05698 99838	07440 99723	44 1
8 17 9 18	00495 99999	02240 - 99975	03984 99921	05727 99836	07469 99721	43 1
$= \frac{9}{9} \cdot \frac{18}{19}$	0052499999	02269 99974 02298 99974	04013 99919	05756 99834	07498 99719	42 1
40 20	00553   99998 00582   99998	02298 99974 02327 99973	04042 99918 04071 99917	05785   99833 05814   99831	07527   99716 07556   99714	41 1 40 1
10 - 21	00611 99998	02356 99972	04100 99916	05844 99829	07585 99712	39 1
$-\frac{11}{11} + \frac{22}{23}$	00640 99998	02385 99972	04129 99915	05873 - 99827	07614   99710	38 1
11 23 12 24	00669 99998	02414 99971	04159 99913	05902 99826	07643   99708	37 1
$+\frac{12}{12}  \frac{24}{25}$	00698 99998 00727 99997	02443   99970	04188 <u>99912</u> 04217 <u>99911</u>	05931 99824 05960 99822	07672 99705	36 1
13 26	00756   99997	02472 99969 02501 99969	04217 99911 04246 99910	05960 99822 05989 99821	07701 99703 07730   99701	35 1 34 1
13 27	00785 99997	02530 99968	04275 99909	06018 99819	07759 99699	33 i
14 28	00814 99997	02560 99967	04304 99907	06047   99817	07788 99696	32 1
14 29 15 30	00841   99996	02589 99966	04333 99806	06076   99815	07817 99694	31 1
$-\frac{13}{15} - \frac{30}{31}$	00873 99996 00902 99996	02618 99966 02647 99965	04362 99905 04391 99904	06105   99813   99812	07846 99692 07875 99689	30 <u>1</u> 29 1
15 32	00902   90096	02676 99964	04420 99902	06163 99812	07904 99687	28 1
16 33	00960 99995	02705 99963	04449 99901	06192 99808	07933 99685	27 1
16 31	00989 99995	02734 99963	04478 99900	06221 99806	07962 99683	26 1
17 35 17 36	01018 99995 01047 99995	02763 99962 02792 99961	04507 99898 04536 99897	06250 99804 06279 99803	07991 99680 08020 99678	25 1 24 1
18 37	01076 99994	02521 99960	04565 99896	06278 99803	08049 99676	23 1
48 38	01105 99994	02850 99959	04594 99894	06337 99799	08078 99673	22 1
19 39	01134 99994	02879 99959	04623 99893	06366 99797	08107 99671	21 . 1
19 40 20 41	01164 99993	02908 99958	01653 99892	06395 99795	08136 99668	20 1
20 41 20 42	01193 99993 01222 99993	02938 99957 02967 99956	04682 99890 04711 99889	06424 99793 06453 99792	081 <b>65</b>   99666 08194   99664	$\begin{array}{c c c} 19 & 1 \\ 18 & 1 \end{array}$
21 43	01251 999992	02996 99955	04740 99888	06482 99790	08223 99661	17 1
21 41	01280 99992	03025 99954	04769 99886	06511 99788	08252 99659	16 i
22 15 22 46	01309 99991	03054 99953	04798 99885	06540 - 99786	08281 99657	15 1
22 46 23 47	01338 90991 01367 99991	03083 99952 03112 99952	04827 99883 04856 99882	06569 99784 06598 99782	08310   99654   08339   99652	14 0 13 0
23 45	01396 99990	03141 99951	04885 99881	06627 99780	08368 99649	12 0
21 . 49	01425 99990	03170 99950	04914 99879	06656 99778	08397   99647	11 - 0-
24 50	01451 99989	03199 99949	04943 99878	06685 99776	08426 99614	10 0
25 51 25 52	01483 99989 01513 99989	03228 99948	01972   99876	06714 99774	08455 99642	9 0
26 50	01542 99989	03257 99947 03286 99946	05001 99875 05030 99873	06743 99772 06773 99770	08484 99639 08513 99637	$\begin{bmatrix} 8 & 0 \\ 7 & 0 \end{bmatrix}$
26 51	01571 99988	03316 99945	05059 99872	06802 99768	08542 99635	6 0
27 55	01600 99987	03345 99944	05088 99870	06831 99766	08571   99632	5 0
27 36	01629 90987	03374 99943	05117 99869	06860 (9976)	08600 - 99630	4 0
28 57 28 58	01658 99986 01687 99986	03403 99942 03432 99941	05146 99867 05175 99866	06889 99762 06918 99760	08629   99627 08658   99625	$\frac{3}{2} = \frac{0}{0}$
29 50	01716 989983	03432 99940	05205 99866	06948 99758	08688 99623 08687 99622	1 0
29 60	01745 99985	03490 99939	05234 99863	06976 - 99756	08716 99649	0 0
	N cos N sinc	V	V V			
		N cos. N sine	N cos. N. stne	N. cos. N sine	N cos.   N sinc.	М
	49	**	57	46,	49.	

TABLE 41.

					Natura								L.
Prop. parts		5	,	6	,	7			۰.	9			Prop
29	М.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine,	N. cos.	N. sine.	N. cos.		4
0	0	08716	99619	10453	99452	12187	99255	13917	99027	15643	98769	60	4
0	1	08745	99617	10482	99449	12216	99251	13946	99023	15672	98764	59	4
ĩ	5	08774	99614	10511	99446	12245	99248	13975	99019	15701	98760	58	4
î	213	08803	99612	10540	99443	12274	99244	14004	99015	15730	98755	57	4
2	4	08831	99609	10569	99440	12302	99240	14033	99011	15758	98751	56	4
2	ă	08860	99607	10597	99437	12331	99237	14061	99006	15787	98746	55	4
3	6	08889	99604	10626	99434	12360	99233	14090	99002	15816	98741	54	4
3	7	08918	99602	10655	99431	12389	99230	14119	98998	15845	98737	53	4
4	- 8	08947	99599	10684	99428	12418	99226	14148	98994	15873	98732	52	3
4	9	08976	99596	10713	99424	12447	99222	14177	98990	15902	98728	51	3
5	10	09005	99594	10742	99421	12476	99219	14205	98986	15931	98723	50	- 3
5	11	09034	99591	10771	99418	12504	99215	14234	98982	15959	98718	49	- 3
6	12	09063	99588	10800	99415	12533	99211	14263	98978	15988	98714	48	_ 3
6	13	09092	99586	10829	99412	12562	99208	14292	98973	16017	98709	47	- 3
7	14	09121	99583	10858	99409	12591	99204	14320	98969	16046	98704	46	. 3
7	15	09150	99580	10887	99406	12620	99200	14349	98965	16074	98700	45	- 3
8	16	09179	99578	10916	99402	12649	99197	14378	98961	16103	98695	44	3
8	17	09208	99575	10945	99399	12678	99193	14407	98957	16132	98690	43	3
9	18	09237	99572	10973	99396	12706	99189	14436	98953	16160	98686	42	_3
9	19	09266	99570	11002	99393	12735	99186	14464	98948	16189	98681	41	3
10	20	09295	99567	11031	99390	12764	99182	14493	98944	16218	98676	40	3
10	21	09324	99564	11060	99386	12793	99178	14522	98940	16246	98671	39	3
11	22	09353	99562	11089	99383	12822	99175	14551	98936	16275	98667	38	3
11	23	09382	99559	11118	99380	12851	99171	1₹580	98931	16304	98662	37	2
12	24	09411	99556	11147	99377	12880	99167	14608	98927	16333	98657	36	2
12	25	09440	99553	11176	99374	12908	99163	14637	98923	16361	98652	35	2
13	26	09469	99551	11205	99370	12937	99160	14666	98919	16390	98648	34	2 2 2 2
13	. 27	09498	99548	11234	99367	12966	99156	14695	98914	16419	98643	33	2
14	28	09527	99545	11263	99364	12995	99152	14723	98910	16447	98638	32	2
14	29	09556	99542	11291	99360	13024	99148	14752	98906	16476	98633	31	
15	30	09585	99540	11320	99357	13053	99144	14781	98902	16505	98629	30	2
15	31	09614	99537	11349	99354	13081	99141	14810	98897	16533	98624	29	21 21 21 21 21
15	. 32	09642	99534	11378	99351	13110	99137	14838	98893	16562	98619	28	2
16	33	09671	99531	11407	99347	13139	99133	14867	98889	16591	98614	27	2
16	34	09700	99528	11436	99344	13168	99129	14896	98884	16620	98609	26	2
17	35	09729	99526	11465	99341	13197	99125	14925	98880	16648	98604	25	2
17	36	09758	99523	11494	99337	13226	99122	14954	98876	16677	98600	24	
18	37	09787	99520	11523	99334	13254	99118	14982	98871	16706	98595	23	2
18	38	09816	99517	11552	99331	13283	99114	15011	98867	16734	98590	22	1
19	39	09845	99514	11580	99327	13312	99110	15040	98863	16763	98585	21	1
19	40	09874	99511	11609	99324	13341	99106	15069	98858	16792	98580	20	1
20	41	09903	99508	11638	99320	13370	99102	15097	98854	16820	98575	19	1
20	42	09932	99506	11667	99317	13399	99098	15126	98849	16849	98570	18	1
21	43	09961	99503	11696	99314	13427	99094	15155	98845	16878	98565	17	1
21	44	09990	99500	11725	99310	13456	99091	15184	98841	16906	98561	16	1
22	45	10019	99497	11754	99307	13485	99087	15212	98836	16935	98556	15	1
22	46	10048	99494	11783	99303	13514	99083	15241	98832	16964	98551	14	1
23	47	10077	99491	11812	99300	13543	99079	15270	98827	16992	98546	13	1
23	48	10106	99488	11840	99297	13572	99075	15299	98823	17021	98541	12	_ 1
24	49	10135	99485	11869	99293	13600	99071	15327	98818	17050	98536	11	1
24	56	10164	99482	11898	99290	13629	99067	15356	98814	17078	98531	10	1
25	51	10192	99479	11927	99286	13658	99063	15385	98809	17107	98526	9	1
25	52	10221	99476	11956	99283	13687	99059	15414	98805	17136	98521	- 8	1
26	53	10250	99473	11985	99279	13716	99055	15442	98800	17164	98516	7	(
26	54	10279	99470	12014	99276	13744	99051	15471	98796	17193	98511	- 6	
27	55	10308	99467	12043	99272	13773	99047	15500	98791	17222	98506	- 5	
27 27	56	10337	99464	12071	99269	13802	99043	15529	98787	17250	98501	4	- (
28	. 57	10366	99461	12100	99265	13831	99039	15557	98782	•17279	98496	- 3	(
28	58	10395	99458	12129	99262	13860	99035	15586	98778	17308	98491	2	(
29	59	10424	99455	12158	99258	13889	99031	15615	98773	17336	98486	1	- 0
29	60	10453	99452	12187	99255	13917	99027	15643	98769	17365	98481	0	. (
-0	1		1	1	1			1		1			
										1		4	
		N. cos.	N. sine.	N. cus.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	M.	
			N. sine.		N. sine.	i	N. sine.	1.	N. sine. 	1	, N. sine.	М.	-

# TABLE 41.

Prop.		10	<b>)</b> 0	. 11	0	1	<b>9</b> 0	1	3°	1	<b>4</b> °		Pro
25	М.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.		par 6
0	0	17365	95481	19081	98163	20791	97815	22495	97437	24192	97030	60	6
0	1	17393	98476	19109	98157	20820	97809	22523	97430	24220	97023	59	6
ĭ	2	17422	98471	19138	98152	20848	97803	22552	97424	24249	97015	58	6
î	3	17451	98466	19167	98146	20877	97797	22580	97417	24277	97008	57	6
2	4	17479	98461	19195	98140	20905	97791	22608	97411	24305	97001	56	6
0	5	17508	98455	19224	98135	20933	97784	22637	97404	24333	96994	55	6
3	- 6	17587	98450	19252	98129	20962	97778	22665	97398	24362	96987	54	5
-3	7	17565	98445	19281	98124	20990	97772	22693	97391	24390	96980	53	-5
4	8	17594	98440	19309	98118	21019	97766	22722	97384	24418	96973	52	5
4	9	17623	98435	19338	98112	21047	97760	22750	97378	24446	96966	51	- 5
5	10	17651	98430	19366	98107	21076	97754	22778	97371	24474	96959	50	5
5	11	17680	98425	19395	98101	21104	97748	22807	97365	24503	96952	49	5
6	12	17708	98420	19423	98096	21132	97742	22835	97358	24531	96945	48	- 5
6	13	17737	98414	19452	98090	21161	97735	22863	97351	24559	96937	47	- 5
7	14	17766	98409	19481	98084	21189	97729	22892	97345	24587	96930	46	
7	15	17794	98404	19509	98079	21218	97723	22920	97338	24615	96923	45	- 5
7	16	17823	98399	19538	98073	21246	97717	22948	97331	24644	96916	44	4
8	17	17852	98394	19566	98067	21275	97711	22977	97325	24672	96909	43	4
8	18	17880	98389	19595	98061	21303	97705	23005	97318	24700	96902	42	-
-9	19	17909	98383	19623	98056	21331	97698	23033	97311	24728	96894	41	
9	20	17937	98378	19652	98050	21360	97692	23062	97304	24756	96887	40	-
10	21	17966	98373	19680	98044	21388	97686	23090	97298	24784	96880	39	-
10	00	17995	98368	19709	98039	21417	97680	23118	97291	24813	96873	38	1
11	23	18023	98362	19737	98033	21445	97673	23146	97284	24841	96866	37	-
11	24	18052	98357	19766	98027	21474	97667	23175	97278	24869	96858	36	. 4
12	25	18081	98352	19794	98021	21502	-	-			96851		
12	26	18109	98347	19823	98021	$\frac{21502}{21530}$	97661 97655	23203 23231	97271 97264	24897 $24925$	96844	35 34	-
13	27	18138	98341	19823	98010	21559		23231	97257	24925	96837	33	- 5
13	28	18166	98336	19851	98010	21587	97648	23288		24954	96829	32	
14	29	18195	98331	19908	97998	21616	97642	233316	97251 97244	25010	96829	31	- 5
14	30	18224	98325	19937	97992	21644	97636 97630	23345	97237	25038	96815	30	- 3
-	31												
14 15	32	18252 18281	98320	19965	97987	21672	97623	23373	97230	25066	96807	29	
15	33	18309	98315 98310	19994 20022	97981 97975	$\frac{21701}{21729}$	97617	23401	97223 97217	25094 25122	96800	28 27	- 3
16	34	18338	98304	20022	97969	21729	97611	23429	97217	25122	96793	26	. 3
16	35	18367	98299	20051	97963	$\frac{21758}{21786}$	97604	23458	97210		96786		- 3
17	36	18395	98294	20108	97958	21814	97598 97592	23486 23514	97203	25179	96778 96771	25 24	
	37								-	25207			
17	38	18424	98288	20136	97952	21843	97585	23542	97189	25235	96764	23	-
18	39	18452	98283	20165	97946	21871	97579	23571	97182	25263	96756	22 21	
18 19	40	18481 18509	98277	20193	97940	21899	97573	23599	97176	25291	96749		
19	41	18538	98272 98267	20222 20250	97934	21928	97568	23627	97169	25320	96742	20	- 3
20	42	18567		20250	97928	21956	97560	23656	97162	25348	96734		1
	m 4		98261		97922	21985	97553	23684	97155	25376	96727	18	
20	43	18595	98256	20307	97916	22013	97547	23712	97148	25404	96719	17	- 1
21 21	44 45	18624 18652	98250	20336	97910	22041	97541	23740	97141	25432	96712	16	:
21	46	18652 18681	98245	20364	97905	22070 22098	97534	23769	97134	25460	96705	15	
21	47		98240	20393	97899	22098 22126	97528	23797	97127	25488	96697	14	1
99	48	18710	98234	20421	97893	22126	97521	23825	97120	25516	96690	13	
		18738	98229	20450	97887		97545	23853	97113	25545	96682	12	_!
23	49	18767	98223	20478	97881	22153	97508	23882	97106	25573	96675	11	
23	50	18795	98218	20507	97875	22212	97502	23910	97100	25601	96667	10	
$\frac{24}{24}$	51 52	18824	98212	20535	97869	22240	97 196	23938	97093	25629	96660	9	1
24	53	18852 48881	98207	20563	97863	22268	97489	23966	97086	25657	96653	8 7	
25   25	54	18881	98201 98196	20592 20620	97857 97851	22297	97453	23995	97079	25685	96645 96638	6	. 1
_						22325	97476	24023	97072	25713			
26	55	18938	98190	20649	97845	22353	97470	24051	97065	25741	96630	5	
26	56	18967	98185	20677	97839	22382	97.463	24079	97058	25769	96623	4	1
27	57	18995	98179	20706	97833	22410	97457	24108	97051	25798	96615	3	(
27	58	19024	98174	20734	97827	22438	97450	24136	97044	25826	96608	2	1 9
28	59	19052	98168	20763	97821	22467	97444	24164	97037	25854	96800	1	1 6
28	60	19051	98163	20791	97815	22495	97437	24192	97030	25882	96593	-0	(
	1					-							
		N cos	North	N. ros.	N. sins	N cos	N sine.	N. cos.	S sine	N cos	N. sine.	М.	

TABLE 41.

Prop.		14	50	16	0	1	70	1	80	1	9°		Prop.
27	М.	N, sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.		9
0	0	25882	96593	27564	96126	29237	95630	30902	95106	32557	94552	60	9
0	1	25910	96585	27592	96118	29265	95622	30929	95097	32584	94542	59	9
1	2 3	25938 25966	96578	$27620 \\ 27648$	96110 96102	29293 29321	95613 95605	30957	95088	32612	94533	58	9
$\frac{1}{2}$	4	25994	96570 96562	27648 27676	96094	29348	95596	30985 31012	95079 95070	32639 32667	94523	57 56	9 8
2	5	26022	96555	27704	96086	29376	95588	31040	95061	32694	94504	55	8
2 3	6	26050	96547	27731	96078	29404	95579	31068	95052	32722	94495	54	8
3	7	26079	96540	27759	96070	29432	95571	31095	95043	32749	94485	53	8
-1	8	26107	96532	27787	96062	29460	95562	31123	95033	32777	94476	52	8
4	9	26135	96524	27815	96054	29487	95554	31151	95024	32804	94466	51	8
5	10 11	26163 26191	96517 96509	$\begin{array}{c} 27843 \\ 27871 \end{array}$	96046 96037	29515 29543	95545 95536	31178 31 <b>2</b> 06	95015 95006	32832 32859	94457 94447	50 49	8
5	12	26219	96502	27899	96029	29571	95528	31233	94997	32887	94438	48	7
-6	13	26247	96494	27927	96021	29599	95519	31261	94988	32914	94428	47	8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
6	14	26275	96486	27955	96013	29626	95511	31289	94979	32942	94418	46	7
7	15	26303.	96479	27983	96005	29654	95502	31316	94970	32969	94409	45	7
7	16	26331	96471	28011	95997	29682	95493	31344	94961	32997	94399	44	7
8 8	17 18	26359 26387	96463 96456	28039 28067	95989 95981	29710 29737	95485 95476	31372 31399	94952 94943	33024 33051	94390 94380	43 42	6
$-\frac{8}{9}$	$\frac{18}{19}$	26415	96448	28095	95972	29765	95467	31427	94943	33079	94370	41	6
9	20	26443	96440	28123	95964	29793	95459	31454	94924	33106	94361	40	- 6
9	21	26471	96433	28150	95956	29821	95450	31482	94915	33134	94351	39	6
10	22	26500	96425	28178	95948	29849	95441	31510	94906	33161	94342	38	6
10	23 24	26528	96417	28206	95940	29876	95433	31537	94897	33189	94332	37	6
$-\frac{11}{11}$	25	$\frac{26556}{26584}$	$\frac{96410}{96402}$	$\frac{28234}{28262}$	95931 95923	29904 29932	95424	31565	94888	33216	94322	$\frac{36}{35}$	5_
12	26	26612	96394	28292	95925	29960	95415	31593 31620	94869	33271	94303	34	5 5
12	27	26640	96386	28318	95907	29987	95398	31648	94860	33298	94293	33	5
13	28	26668	96379	28346	95898	30015	95389	31675	94851	33326	94284	32	5
13	29	26696	96371	28374	95890	30043	95380	31703	94842	33353	94274	31	5
14	30	26724	96363	28402	95882	30071	95372	31730	94832	33381	94264	30	5
14 14	31 32	26752 26780	96355 96347	28429 28457	9587‡ 95865	30098 30126	95363 95354	31758 31786	94823 94814	33408 33436	94254 94245	29 28	4
15	33	26808	96340	28485	95857	30154	95345	31813	94805	33463	94235	27	4
15	34	26836	96332	28513	95849	30182	95337	31841	94795	33490	94225	26	4
16	35	26864	96324	28541	95841	30209	95328	31868	94786	33518	94215	25	4
16	36	26892	96316	28569	95832	30237	95319	31896	94777	33545	94206	24	4
17 17	37 38	26920 26948	96308 96301	28597 28625	95824 $95816$	30265 30292	95310 95301	31923 31951	94768 94758	33573 33600	94196 94186	23 22	3 3
18	39	26976	96293	28652	95807	30320	95293	31979	94749	33627	94176	21	3
18	40	27004	96285	28680	95799	30348	95284	32006	94740	33655	94167	20	3
18	41	27032	96277	28708	95791	30376	95275	32034	94730	33682	94157	19	3
19	42	27060	96269	28736	95782	30403	95266	32061	94721	33710	94147	18	3_
19	43	27088	96261	28764	95774	30431	95257	32089	94712	33737	94137	17	3
20 20	44 45	27116 27144	96253 96246	28792 28820	95766 95757	30459 30486	95248 95240	$32116 \\ 32144$	94702 94693	33764 33792	94127 94118	16 15	2
21	46	27172	96238	28847	95749	30514	95231	32171	94684	33819	94108	14	2
21	47	27200	96230	28875	95740	30542	95222	32199	94674	33846	94098	13	2
22	48	27228	96222	28903	95732	30570	95213	32227	94665	33874	94088	12	2
22	49	27256	96214	28931	95724	30597	95204	32254	94656	33901	94078	11	2
23	50	27284	96206	28959	95715	30625	95195	32282	94646	33929 33956	94068 94058	10	3 2 2 2 2 2 2 2 2 1
23 23	51 52	27312 27340	96198 96190	28987 29015	95707 95698	30653 30680	95186 95177	32309 32337	94637 94627	33956	94058	8	1
24	53	27368	96182	29042	95690	30708	95168	32364	94618	34011	94039	7	î
24	54	27396	96174	29070	95681	30736	95159	32392	94609	34038	94029	6	i
25	55	27424	96166	29098	95673	30763	95150	32419	94599	34065	94019	5	1
25	56	27452	96158	29126	95664	30791	95142	32447	94590	34093	94009	4	1
$\begin{bmatrix} 26 \\ 26 \end{bmatrix}$	57 58	27480 27508	96150 96142	29154 29182	95656 95647	30819 30846	95133 95124	32474 32502	94580	34120 34147	93999 93989	3 2	0
27	59	27536	96134	29209	95639	30874	95115	32529	94561	34175	93979	ĩ	0
27	60	27564	96126	29237	95630	30902	95106	32557	94552	34202	93969	0	0
	_								-	<u> </u>		-	
		N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	М.	
		7-	<b>4</b> °	78	30	7	20	1 7	1°	7	0°		

Page 750]

# TABLE 41.

Prop.		50	7	21	7	2:	2	2:	32	2	2		Prop.
part-	М	N sine	N. cos.	N sine.	N. cos	N. sine.	N. cos	N. sine.	N. cos.	N. sitie,	N. cos.		parts 11
0	- (1	34202	9039999	35837	93058	37461	92718	39073	92050	40674	91355	60	11
- ()	1	34229	93959	35864	93348	37488	92707	39100	92039	40700	91343	59	11
1	2 3	34257	93949	35891	93337	37515	92697	39127	92028	40727	91331	58	11
1		34284	93939	35918	93327	37542	92686	39153	92016	40753	91319	57	10
2 2	4	34311	93929	35945	93316	37569	92675	39180	92005	40780	91307	56	10
1 2	- 6	34000	93919	35973	93306	37595	92664	39207	91994	40806	91295	55	10
	_6	34366	93909	26000	93295	37622	92653	39234	91982	40833	91283	54	10_
- 8	7	34.395	93899	36027	93285	37649	92642	39260	91971	4()56()	91272	53	10
- 1	- 6	31421	93889	36054 36081	93274	37676	92631	39287	91959	40886	91260	52	10
4 5	10	34448 34475	93879 93869	36108	93264 93253	37703 37730	92620 92609	39314	91945 91936	40913	91248 91236	51	9
5	-11	34503	93859	36135	98243	37757	92598	39367	91925	40939	91224	50 49	9
1 3	12	34530	93849	36162	93232	37784	92557	39394	91914	40992	91212	48	9
6	-13	34557 +	93839	36190	93202	37811	92576	39421	91902	41019	91200	47	- 9-
- 6 - 6	14	34584	93829	36217	93211	37838	92565	39148	91891	41045	91188	46	8
7	15	34612	93819	36244	93201	37565	92554	39474	91879	41072	91176	45	8
1 :	16	34639	93809	36271	93190	37892	92543	39501	91868	41098	91164	44	8
, s	17	34666	93799	36298	93180	37919	92532	39528	91856	41125	91152	43	8
	18	34694	93789	36325	93169	37946	92521	39555	91845	41151	91140	42	8
9	19	34721	93779	36352	93159	37973	92510	39581	91833	41178	91128	41	-s
9	20	34748	93769	36379	93148	37999	92499	39608	91822	41204	91116	40	87777777
9	21	34775	93759	36406	93137	38026	92488	39635	91810	41231	91104	39	7
10	~~	34803	93748	36434	93127	38053	92477	39661	91799	41257	91092	38	7
10	23	34830	93738	36461	93116	38080	35,499	39688	91787	41284	91080	37	7
11	24	34857	93728	36488	93106	38107	92455	39745	91775	41310	91068	36	
1.1	25	34884	93718	36515	93095	38134	92444	39741	91764	41337	91056	35	6
12	26	34912	93708	36512	93084	38161	92432	39768	91752	41363	91044	34	6
12	27	34939	93698	36569	93074	38188	92421	39795	91741	41390	91032	33	6
13	28	34966	93688	36596	93063	38215	92410	39822	91729	41416	91020	32	6
1.3	29 30	34993	93677	36623	93052	38241	92399	39848	91718	41443	91008	31	6
14		35021	93667	36650	93042	38268	92388	39875	91706	41469	80888		
14	31 32	35048 35075	93657 93647	36677 36704	93031 93020	38295 38322	92377 92366	39902 39928	91694 91683	41496 41522	90954	29 28	5 5
15	33	35102	93637	36731	93010	38349	92355	39955	91671	41549	90960	27	⊩ 5 - 5
15	34	35130	93626	36758	92999	38376	92343	39982	91660	41575	90945	26	5
16	35	35157	93616	36785	92988	38403	92332	40008	91648	41602	90936	25	5
16	36	35184	93606	36812	92978	38430	92321	40035	91636	41628	90924	24	4
17	37	35211 1	93596	36839	92967	38456	92310	40062	91625	41655	90911	23	4
17	38	35239	93585	36867	92956	38483	92299	40088	91613	41681	90899	22	4
18	39	35266	93575	36894	92945	38510	92287	40115	91601	41707	90887	21	4
15	40	35293	93565	36921	92935	38537	92276	40141	91590	41734	90875	20	4
18	-41	35320	93555	36948	92921	38564	92265	40168	91578	41760	90863	19	3
19	-12	35347	93544	36975	92913	38591	92254	40195	91566	41787	90851	18	_3_
19	43	35375	93534	37002	92902	38617	92213	40221	91555	41813	90839	17	3
20	44	35402	93524	37029	92892	38844	92231	40248	91543	41840	90826	16	3
20	45	35429	93514	37056	92881	38671	92220	40275	91531	41866	90814	15 14	3
21 21	46 47	35456 35484	93503 93493	37083 37110	92870 92859	38698 38725	92209 -	40301 40328	91519 91508	41892 41919	90802 90790	13	
50	18	35484	93483	37137	92849	38752e		40325	91496	41945	90778	12	2 2
- 55	19	35538	93472	$-\frac{37137}{37164}$	92838	38778	92175	40381	91484	41972	90766	11	
22	50	35565	93472	37164	92838 92827	38505	92178	40408	91454	41972	90753	10	2 2
23	51	35592	93452	37218	92816	38832	92152	40434	91461	42024	90741	9	2
23	52	35619	93441	37245	92805	38859	92141	40461	91449	42051	90729	8	ĩ
24	53	35647	93431	37272	92794	34446	92130	10488	91437	42077	90717	7	i
24	51	35674	93420	37299	92784	38912	92119	40514	91425	42104	90704	В	1
25	55	35701	93410	37326	92773	38939	92107	40541	91414	12130	386992	5	1
25	, 56	35728	93400	37353	92762	38966	92096	40567	91402	42156	90650	4	1
26	57	35755	93389	37380	92751	38993	92085	40594	91390	42183	90668	- 3	1
26	58	05782	93379	37407	92740	20050	92073	40621	91378	12209	90955	2	0
27	59	35810	900348	37434	92729	339046	95095	40647	91366	42235	90643	1	0
27	60	35837	93358	37461	92718	39073	55020	40674	91355	42262	1809331	-0	-0
ì										N 1.08	N sine	М	-
		5 0 %	1 -10	7 1134	N. sitte	N cos	N -1110	N 000	N sine	N cos	N sine	М _	_
1		60		65		6:	7	60	3 -	6.7			

TABLE 41.

			250			l omes a							
Prop. parts			25°			2	7°			2	90	_	Prop.
26	M.	N. sine.	N. cos.	N. sine.	N. cos.	N, sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.		14
0	0	42262	90631	43837	89879	45399	89101	46947	88295	48481	87462	60	14
ŏ	1	42288	90618	43863	89867	45425	89087	46973	88281	48506	87448	59	14
1	2	42315	90606	43889	89854	45451	89074	46999	88267	48532	87434	58	14
1	3	42341	90594	43916	89841	45477	89061	47024	88254	48557	87420	57	13
$\frac{2}{2}$	4 5	42367 42394	90582 90569	43942 43968	89828 89816	45503 45529	89048 89035	47050 47076	88240 88226	48583 48608	87406 87391	56 55	13
3	6	42420	90557	43994	89803	45554	89021	47101	88213	48634	87377	54	13
- 3	7	42446	90545	44020	89790	45580	89008	47127	88199	48659	87363	53	12
3	s	42473	90532	44046	89777	45606	88995	47153	88185	48684	87349	52	12
4	9	42499	90520	44072	89764	45632	88981	47178	88172	48710	87335	51	12
4	10	42525	90507	44098	89752	45658	88968	47204	88158	48735	87321	50	12
5 5	11	$\frac{42552}{42578}$	90495 90483	44124 44151	89739 89726	45684 45710	88955 88942	47229 $47255$	88144	48761	87306	49	11
$-\frac{3}{6}$	13	42604	90470	44177	89713	45736	88928	47281	$\frac{88130}{88117}$	48786	87292 87278	48	11_
6	14	42631	90458	44203	89700	45762	88915	47306	88103	48837	87264	46	11
7	15	42657	90446	44229	89687	45787	88902	47332	88089	48862	87250	45	11
7	16	42683	90433	44255	89674	45813	88888	47358	88075	48888	87235	44	10
	17	42709	90421	44281	89662	45839	88875	47383	88062	48913	87221	43	10
8	18	42736	90408	44307	89649	45865	88862	47409	88048	48938	87207	42	10
- 8	19	42762	90396	44333	89636	45891	88848	47434	88034	48964	87193	41	10
9	20 21	42788 42815	90383 90371	44359 44385	89623 89610	45917 45942	88835	47460 47486	88020 88006	48989 49014	87178 87164	40 39	9
10	22	42841	90358	44411	89597	45968	88808	47511	87993	49040	87150	38	9
10	23	42867	90346	44437	89584	45994	88795	47537	87979	49065	87136	37	9
_10	24	42894	90334	44464	89571	46020	88782	47562	87965	49090	87121	36	8
11	25	42920	90321	44490	89558	46046	88768	47588	87951	49116	87107	35	8
11	26	42946	90309	44516	89545	46072	88755	47614	87937	49141	87093	34	8
12 12	27 28	42972 42999	90296 90284	44542 44568	89532 89519	46097 46123	88741 88728	47639 47665	87923 87909	49166 49192	87079 87064	33 32	8
13	29	43025	90271	44594	89506	46149	88715	47690	87896	49217	87050	31	7
13	30	43051	90259	44620	89493	46175	88701	47716	87882	49242	87036	30	8 7 7
13	31	43077	90246	44646	89480	46201	88688	47741	87868	49268	87021	29	7 7
14	32	43104	90233	44672	89467	46226	88674	47767	87854	49293	87007	28	7
14	33	43130	90221	44698	89454	46252	88661	47793	87840	49318	86993	27	6
15 15	34 35	43156 43182	90208	44724 44750	89441 89428	46278 46304	88647 88634	47818	87826	49344 49369	86978 86964	26 25	6
16	36	43209	90196 90183	44776	89415	46330	88620	47844 47869	87812 87798	49394	86949	24	6
16	37	43235	90171	44802	89402	46355	88607	47895	87784	49419	86935	23	5
16	38	43261	90158	44828	89389	46381	88593	47920	87770	49445	86921	22	5
17	39	43287	90146	44854	89376	46407	88580	47946	87756	49470	86906	21	5
17	40	43313	90133	44880	89363	46433	88566	47971	87743	49495	86892	20	
18 18	41	43340	90120	44906	89350	46458 46484	88553	47997	87729	49521	86878	19 18	4
19	$\frac{42}{43}$	43366	90108	44932	89337 89324	46510	88539 88526	48022	87715	49546	86849	$\frac{18}{17}$	-4-
19	43	43392	90095	44984	89324	46536	88512	48048 48073	87701 87687	49571 49596	86834	16	4
20	45	43445	90070	45010	89298	46561	88499	48099	87673	49622	86820	15	4
20	46	43471	90057	45036	89285	46587	88485	48124	87659	49647	86805	14	3
20	47	43497	90045	45062	89272	46613	88472	48150	87645	49672	86791	13	3
21	48	43523	90032	45088	89259	46639	88458	48175	87631	49697	86777	12	3_
21 22	49	43549	90019	45114 45140	89245	46664	88445 88431	$\frac{48201}{48226}$	87617	49723	86762	11	3
22	50 51	$\frac{43575}{43602}$	90007 89994	45166	89232 89219	46690 $46716$	88431 88417	48226	87603 87589	49748 49773	86748		5
23	52	43628	89981	45192	89206	46742	88404	48277	87575	49798	86719	8	01010101
23	53	43654	89968	45218	89193	46767	88390	48303	87561	49824	86704	7	13
23	54	_43680	89956	45243	89180	46793	88377	48328	87546	49849	86690	- 6	1
24	55	43706	89943	45269	89167	46819	88363	48354	87532	49874	86675	5	1
24	56	43733	89930	45295	89153	46844	88349	48379	87518	49899	86661	3	1
25 25	57- 58	43759 43785	89918 89905	45321 45347	89140 89127	46870 46896	88336 88322	48405 48430	87504 87490	49924 49950	86646 86632	2	0
26	59	43811	89892	45373	89114	46921	88308	48456	87476	49975	86617	1.	. 0
26	60	43837	89879	45399	89101	46947	88295	48481	87462	50000	86603	0	0
<u> </u>													
		N. cos.	N. sine.	N. cos.	N. sine,	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	М.	
		6	10	68	0	65	20	61	0	66	00		
						0.	-	0.					

### TABLE 41.

Prop.		30	r	31	0	3:	5.	33	30	3	P		Prop.
25	Μ.	N. sine	N. cos.	N. sine.	N. cos.	N. sine.	N. et s.	N. sine.	N. cos.	N. sine.	N. cos.		16
0	0	50000	86603	51504	85717	52992	84805	54464	83867	55919	82904	60	16
0	1	50025	50555	51529	85702	53017	84789	54488	83851	55943	82887	59	16
1	2 3	50050	56573	51554	85687	53041	84774	54513	83835	55968	82871	58	15
1 .	4	50076 50101	86559 86544	51579 51604	85672 85657	53066 53091	84759   84743	54537 54581	83819 83804	55992 56016	82855 82839	57 56	15 15
- 0	- 5	50126	86530	51628	85642	53115	84728	54556	83788	56040	82822	55	15
3	6	50151	86515	51653	85627	53140	84712	54610	83772	56064	82806	54	14
3	7	50176	86501	51678	85612	53164	84697	54635	83756	56088	82790	53	14
3	S .	50201	86486	51703	85597	53189	84681	54659	83740	56112	82773	52	14
4	. 9	50227	86471	51728	85582	53214	84666	54683	83724	56136	82757	51	14
4 5	10 11	50252 50277	86457 86442	51753 51778	85567 85551	53238 53263	84650 84635	54708 54732	83708 83692	56160 56184	82741 82724	50 49	13
5	12	50302	86427	51803	85536	53288	84619	54756	83676	56208	82708	48	13
-5	13	50327	86413	51828	85521	53312	54604	54781	83660	56232	82692	47	13
6	14	50352	86398	51852	85506	53337	84588	54805	83645	56256	82675	46	12
6	15	50377	86384	51877	85491	53361	84573	54829	83629	56280	82659	45	12
7	16	50403	86369	51902	85476	53386	84557	54854	83613	56305	82643	44	12
7	17	50428	86354	51927	85461	53411	84542	54878	83597	56329	S2626	43	11
_ S	18	50453	86340	51952	85446	53435	84526	54902	83581	56353	82610	42	11
8	19	50478 50503	86325 86310	51977 52002	85431 85416	53460 53484	84511 84495	54927 54951	83565 83549	56377 56401	82593 82577	41 40	11
5 9	20 21	50528	56295	52002 52026	85416 85401	53509	54450	54975	83533	56425	82561	39	10
9	22	50553	86281	52051	85385	53534	84464	54999	83517	56449	82544	38	10
10	23	50578	86266	52076	85370	53558	84448	55024	83501	56473	82528	37	10
10	24	50603	86251	52101	85355	53583	84433	55048	83485	56497	82511	36	10
10	25	50628	86237	52126	*85340	53607	84417	55072	83469	56521	82495	35	9
11	26	50654	86222	52151	85325	53632	54402	55097	83453	56545	82478	34	9
11	27	50679	86207	52175	85310	53656	84356	55121	83437	56569	82462	33	9
12 1	28 29	50704 50729	86192 86178	52200 52225	85294 85279	53681 53705	84370 84355	55145 55169	83421 83405	56593 56617	82446 82429	32	9
13 -	30	50754	86163	52250	85264	53730	84339	55194	83389	56641	82413	30	8
- 13 !	31	50779	86145	52275	85249	53754	84324	55218	83373	56665	82396	29	-8
13	32	50804	86133	52299	85234	53779	84308	55242	83356	56689	82380	28	7
14	33	50829	86119	52324	85218	53804	84292	55266	83340	56713	82363	27	7
14	34	50854	86104	52349	85203	53828	84277	55291	83324	56736	82347	26	7
15	35	50879	86089	52374	85188	53853	84261	55315	83308	56760	42330	25	7
15	.16	50904	86074	52399	85173	53877	84245	55339	83292	56784	82314	24	6
15	37	50929	86059	52423	85157	53902	84230	55363	83276	56808	82297 82281	23	6
16	38	50954 50979	86045 86030	52448 52473	85142 85127	53926 53954	84214 84198	55388 55412	83260 83244	56832 56856	82281 82264	21	6
17	40	51004	86015	52498	85112	53975	84182	55436	83228	56880	82248	20	. 5
17	41	51029	56000	52522	85096	54000	84167	55460	83212	56904	82231	19	- 5
18	42	51054	85985	52547	85081	54024	84151	55484	83195	56928	82214	18	- 5
18 (	-43	51079	85970	52572	S5066	54049	84135	55509	83179	56952	82198	17	5
18	44	51104	85956	52597	85051	54073	84120	55533	83163	56976	82181	16	4
19	45	51129	85941	52621	85035	54097	84104	55557	83147	57000	82165	15	4
19	46	51154	85926	52646	85020	54122	84088 84072	55581 55605	83131 83115	57024 57047	82148 82132	14	3
20 20	47	51179 51204	85911 85896	52671 52696	\$5005 \$4989	54146	84072	55630	83115	57071	82115	12	3
$-\frac{20}{20}$	49	51204	85881	52720	84974	54195	84041	55654	53052	57095	82098	11	3
21	50	51254	55566	52745	84959	54220	S4025	55678	83066	57119	82082	10	3
21	51	51279	85851	52770	84943	54244	84000	55702	83050	57143	82065	9	2
90	52	51304	85836	52794	84928	54269	83994	55726	83034	57167	82048	8	2 2
434)	53	51329	85821	52819	84913	54293	83978	55750	83017	57191	×2032	7	2 2
23	54	51354	858(8)	52544	84897	54317	83962	55775	83001	57215	82015	-6	
23	55	51379	85792	52869	84882	54342	83946	55799	82985	57238 57262	81999 81982	5	1
23 24	. 56   57	51404 51429	\$5777 \$5762	52893 52918	\$4866 \$4851	54366 54391	83930 83915	55823 55847	82969 82953	57286	81985	3	i
24	55	51454	85747	52943	84836	51115	53599	55871	82936	57310	81949	2	1
25	59	51479	85732	52967	84820	54440	83883	55895	82920	57334	81932	ī	ô
25	60	51504	85717	52992	84805	54464	83867	55919	82904	57358	81915	0	0
												_	
		N. cos	N sinc	N cos	N sine.	N cos.	N. sino	N cost	N. sine.	N. cos.	N. sine.	М.	
	-	5	9	55			7		61	- 5	50	-	
	r											Ь.	

TABLE 41.

Prop. parts		35	0	36	0	37		35	o	39	90		Prop. parts
23	М.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N, cos.		18
0	0	57358	81915	58779	80902	60182	79864	61566	78801	62932	77715	60	18
0	1	57381	81899	58802	80885	60205	79846	61589	78783	62955	77696	59	18
. 1	2	57405	81882	58826	80867	60228	79829	61612	78765	62977	77678	58	17
1	3	57429	81865	58849	80850	60251	79811	61635	78747	63000	77660	57	17
2 2	4	57453	81848	58873	80833	60274	79793	61658	78729	63022	77641	56	17
2 2	5	57477	81832	58896	80816	60298	79776 79758	61681	78711	63045	77623	55	17
	_6	57501	81815	58920	80799	60321		61704	78694	63068	77605	54	16_
3	7	57524	81798	58943	80782	60344 60367	79741 79723	61726	78676	63090	77586	53	16
3	8 9	57548 57572	81782 81765	58967 58990	80765 80748	60390	79706	$61749 \\ 61772$	78658 78640	63113	77568 77550	52 51	16 15
4	10	57596	81748	59014	80730	60414	79688	61795	78622	63135 63158	77531	50	15
4	11	57619	81731	59037	80713	60437	79671	61818	78604	63180	77513	49	15
5	12	57643	81714	59061	80696	60460	79653	61841	78586	63203	77494	48	14
-5	13	57667	81698	59084	80679	60483	79635	61864	78568	63225	77476	47	14
5	14	57691	81681	59108	80662	60506	79618	61887	78550	63248	77458	46	14
6	15	57715	81664	59131	80644	60529	79600	61909	78532	63271	77439	45	14
ě	16	57738	81647	59154	80627	60553	79583	61932	78514	63293	77421	44	13
7	17	57762	81631	59178	80610	60576	79565	61955	78496	63316	77402	43	13
7	18	57786	81614	59201	80593	60599	79547	61978	78478	63338	77384	42	13
7	19	57810	81597	59225	80576	60622	79530	62001	78460	63361	77366	41	12
8	20	57833	81580	59248	80558	60645	79512	62024	78442	63383	77347	40	12
8	21	57857	81563	59272	80541	60668	79494	62046	78424	63406	77329	39	12
8	22	57881	81546	59295	80524	60691	79477	62069	78405	63428	77310	38	11
9	23	57904	81530	59318	80507	60714	79459	62092	78387	63451	77292	37	11
9	24	57928	81513	59342	80489	60738	79441	62115	78369	63473	77273	36	11
10	25	57952	81496	59365	80472	60761	79424	62138	78351	63496	77255	35	11
10	26	57976	81479	59389	80455	60784	79406	62160	78333	63518	77236	34	10
10	27	57999	81462	59412	80438	60807	79388	62183	78315	63540	77218	33	10
11	28	58023	81445	59436	80420	60830	79371	62206 62229	78297	63563	77199	32 31	10 9
11 12	30	58047 58070	81428 81412	59459 59482	80403 80386	60853 60876	79353	62229	78279 78261	63585 63608	77181 77162	30	9
											77144	29	9
12 12	31 32	58094 58118	81395	59506	80368	60899 60922	79318 79300	62274 62297	78243 78225	63630 63653	77125	28	8
13	33	58141	81378 81361	59529 59552	80351 80334	60945	79282	62320	78206	63675	77107	27	8
13	34	58165	81344	59576	80316	60968	79264	62342	78188	63698	77088	26	l š
13	35	58189	81327	59599	80299	60991	79247	62365	78170	63720	77070	25	8
14	36	58212	81310	59622	80282	61015	79229	62388	78152	63742	77051	24	7
14	37	58236	81293	59646	80264	61038	79211	62411	78134	63765	77033	23	7
15	38	58260	81276	59669	80247	61061	79193	62433	78116	63787	77014	22	7
15	39	58283	81259	59693	80230	61084	79176	62456	78098	63810	76996	21	6
15	40	58307	81242	59716	80212	61107	79158	62479	78079	63832	76977	20	-6
16	41	58330	81225	59739	80195	61130	79140	62502	78061	63854	76959	19	6
16	42	58354	81208	59763	80178	61153	79122	62524	78043	63877	76940	18	5
16	43	58378	81191	59786	80160	61176	79105	62547	78025	63899	76921	17	5
17	44	58401	81174	59809	80143	61199	79087	62570	78007	63922	76903	16	5
17	45	58425	81157	59832	80125	61222	79069	62592	77988	63944	76884	15	5
18	46	58449	81140	59856	80108	61245	79051	62615	77970	63966	76866	14	4
18	47	58472	81123	59879	80091	61268	79033	62638	77952	63989 64011	76847 76828	13 12	4
18	48	58496	81106	59902	80073	61291	79016	62660	77934				$-\frac{4}{3}$
19	49	58519	81089	59926	80056	61314	78998	62683	77916	64033	76810 76791	11 10	
19 20	50	58543 58567	81072	59949 59972	80038	61337	78980	62706 62728	77897 77879	64056 64078	76772	9	3 3 2 2 2
20	51 52	58590	81055 81038	59972 59995	80021 80003	61360 61383	78962 78944	62751	77861	64100	76754	. 8	2
20	53	58614	81038	60019	79986	61406	78926	62774	77843	64123	76735	7	2
21	54	58637	81004	60042	79968	61429	78908	62796	77824	64145	76717	6	2
21	55	58661	80987	60065	79951	61451	78891	62819	77806	64167	76698	5	2
21	56	58684	80970	60089	79934	61474	78873	62842	77788	64190	76679	4	ī
22	57	58708	80953	60112	79916	61497	78855	62864	77769	64212	76661	3	1
22	58	58731	80936	60135	79899	61520	78837	62887	77751	64234	76642	2	1
23	59	58755	80919	60158	79881	61543	78819	62909	77733	64256	76623	1	0
23	60	58779	80902	60182	79864	61566	78801	62932	77715	64279	76604	-0	0
												-	_
1		N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	N. cos.	N. sine.	M.	l
		5.	40	5	30	- 5	<b>2</b> 0	5	10	5	00	-	
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TABLE 41.

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TABLE 42.

[Page 755

### Logarithms of Numbers.

No. 1—	<del></del> 100.						L	og. 0.00000	2,00000,
No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
1	0.00000	21	1, 32222	41	1.61278	61	1.78533	81	1, 90849
2	0.30103	22	1.34242	42	1.62325	62	1.79239	82	1.91381
3	0.47712	23	1.36173	43	1.63347	63	1.79934	83	1.91908
4	0.60206	24	1.38021	44	1, 64345	64	1.80618	84	1,92428
5	0.69897	25	1.39794	45.	1.65321	65	1.81291	85	1.92942
6	0.77815	26	1. 41497	46	1.66276	66	1.81954	86	1.93450
7	0.84510	27	1. 43136	47	$1.67210 \pm$	67	1.82607	87	1.93952
8	0.90309	28	1.44716	48	1.68124	68	1.83251	88	1.94448
9	0.95424	29	1.46240	49	1,69020	69	1.83885	89	1.94939
10	1.00000	30	1.47712	50	1.69897	70	1.84510	90	1.95424
11	1.04139	31	1, 49136	51	1, 70757	71	1,85126	91	1.95904
12	1.07918	32	1.50515	52	1.71600	72	1.85733	92	1.96379
13	1.11394	33	1.51851	53	1. 72428	73	1.86332	93	1.96848
14	1.14613	34	1.53148	54	1. 73239	74	1.86923	94	1.97313
15	1.17609	35	1.54407	55	1.74036	75	1.87506	95	1.97772
16	1. 20412	36	1.55630	56	1.74819	76	1.88081	96	1.98227
17	1.23045	37	1.56820	57	1. 75587	77	1.88649	97	1.98677
18	1.25527	38	1.57978	58	1.76343	78	1.89209	98	1.99123
19	1.27875	39	1.59106	59	1.77085	79	1.89763	99	1,99564
20	1, 30103	40	1.60206	60	1.77815	80	1. 90309	100	2.00000

Page	756]	
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### TABLE 42.

Logarithms of Numbers.

No.   0	No.	No. 100—1600.									- L z 0	× 1.)()	204	12,
100   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101	No.	Ü	1	2	3	4	- 5	6	7	_ :	9			
100   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-15   101-											00389		19	10
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111														
112												1		
113												-		
114										05614		1		
115												3		
111		-06070	06108	06145	06183	06221	-06258	06296	06333	06371			16	16
118													21	
119														
120														
121   08279   08314   08350   08386   08422   08458   08493   08529   08565   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600   08600														
122												-	-	-
123	122											-	1	
125   06691   06726   06765   06795   06795   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06896   06894   06894   06894   06894   06894   06894   06895   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894   06894	123	08991				09132								
125							09517		09587	09621	09656	3		
127														
128														
11059   11059   11063   11126   11160   11193   11227   11261   11294   11327   11361   8   31   30   11304   11428   11461   11444   11528   11561   11594   11628   11661   11644   9   35   34   34   34   34   34   34   34														23
139	129													
11727   11760   11793   11826   11860   11863   11926   11955   11992   12024   37   86   12057   12090   12123   12156   12189   12292   12251   12287   12304   12352   3   4   6   12352   1248   12710   12743   12775   12808   12940   12752   12965   12965   12966   12966   12678   2   4   7   7   7   7   7   7   7   7   7														
1235   1235   12418   12450   12483   12516   12548   12541   126418   12646   12678   1   4   4   12710   12743   12775   12808   12460   12572   12905   12937   12669   13001   2   7   7   7   7   7   7   7   7   7							11893	11926	11959	11992	12024			
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155			18498	18526	18554	18583	18611	18639	18667	18696	18724		-3	
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157         19590         19618         19645         19673         19700         19728         19756         19783         19811         19838         5         17         16           158         19866         19893         19921         19948         19976         20003         20000         20058         20055         20112         6         20         19           159         20140         20167         20194         20222         20249         20276         20303         20330         20358         20385         7         23         22           8         26         26														
158         198-96         198-93         19821         19848         19976         20003         20030         20058         20085         20112         6         20         19           159         20140         20167         20194         20222         20249         20276         20303         2030         20358         20368         7         23         22           8         26         20         20         20         20         20         20         8         26         28														
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163 164 165	21219 21484 21748	$\begin{array}{r} 21245 \\ 21511 \\ \hline 21775 \end{array}$	$\begin{array}{r} 21272 \\ 21537 \\ \hline 21801 \end{array}$	$\begin{array}{r} 21299 \\ 21564 \\ \hline 21827 \end{array}$	$\begin{array}{c} 21325 \\ 21590 \\ \hline 21854 \end{array}$	$\begin{array}{c} 21352 \\ 21617 \\ 21880 \end{array}$	21378 21643 21906	$\begin{array}{c} 21405 \\ 21669 \\ \hline 21932 \end{array}$	$\begin{array}{c} 21431 \\ 21696 \\ \hline 21958 \end{array}$	$\begin{array}{r} 21458 \\ 21722 \\ \hline 21985 \end{array}$	2 3 4 5	6 9 12	6 9 12
166 167 168 169	22011 22272 22531 22789	22037 22298 22557 22814	22063 22324 22583 22840	22089 22350 22608 22866	$\begin{array}{c} 22115 \\ 22376 \\ 22634 \\ 22891 \end{array}$	22141 22401 22660 22917	22167 22427 22686 22943	22194 22453 22712 22968	22220 22479 22737 22994	22246 22505 22763 23019	5 6 7 8	16 19 22 25	15 18 21 24
170 171 172	23045 23300 23553	23070 23325 23578	23096 23350 23603	23121 23376 23629	23147 23401 23654	23172 23426 23679	23198 23452 23704	23223 23477 23729	23249 23502 23754	23274 23528 23779	9 T	28	27
$-\frac{173}{174}$	23805 24055 24304	$\frac{23830}{24080} \\ -\frac{24329}{24329}$	$\begin{array}{r} 23855 \\ 24105 \\ \hline 24353 \end{array}$	$\frac{23880}{24130} \\ \hline 24378$	$\begin{array}{c} 23905 \\ 24155 \\ \hline 24403 \end{array}$	$23930 \\ 24180 \\ 24428$	$\frac{23955}{24204} \\ \hline 24452$	$\frac{23980}{24229}$ $\overline{24477}$	$\begin{array}{r} 24005 \\ 24254 \\ \hline 24502 \end{array}$	$\frac{24030}{24279}$ $\overline{24527}$	2 3 4	6 9 12	6 8 11
176 177 178 179	24551 24797 25042 25285	24576 24822 25066 25310	24601 24846 25091 25334	24625 24871 25115 25358	24650 24895 25139 25382	24674 24920 25164 25406	24699 24944 25188 25431	24724 24969 25212 25455	24748 24993 25237 25479	24773 25018 25261 25503	5 6 7 8	15 17 20 23	14 17 20 22
180 181 182	25527 25768 26007	25551 25792 26031	25575 25816 26055	25600 25840 26079	$\begin{array}{c} 25624 \\ 25864 \\ 26102 \end{array}$	$\begin{array}{c} 25648 \\ 25888 \\ 26126 \end{array}$	25672 25912 26150	$\begin{array}{c} 25696 \\ 25935 \\ 26174 \end{array}$	25720 25959 26198	$\begin{array}{c} 25744 \\ 25983 \\ 26221 \end{array}$	$\frac{9}{1}$	26	25 26 3
183 184 185	26245 26482 26717	26269 26505 26741	26293 26529 26764	26316 26553 26788	26340 26576 26811	26364 26600 26834	26387 26623 26858	26411 26647 26881	26435 26670 26905	26458 26694 26928	2 3 4	5 8 11	5 8 10
186 187 188 189	26951 27184 27416 27646	26975 27207 27439 27669	26998 27231 27462 27692	27021 27254 27485 27715	27045 27277 27508 27738	27068 27300 27531 27761	27091 27323 27554 27784	27114 27346 27577 27807	27138 27370 27600 27830	27161 27393 27623 27852	5 6 7 8	14 16 19 22	13 16 18 21
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193 194 195 196	28780 28780 29003 29226	28803 29026 29248	28825 29048 29270	28847 29070 29292	28870 29092 29314	28892 29115 29336	28914 29137 29358	28713 28937 29159 29380	28959 29181 29403	28981 28981 29203 29425	$\frac{2}{3}$	5 8 10	5 7 10
197 198 199	29447 29667 29885	29469 29688 29907	29491 29710 29929	29513 29732 29951	29535 29754 29973	$\begin{array}{c} 29557 \\ 29776 \\ 29994 \end{array}$	29579 29798 30016	29601 29820 30038	29623 29842 30060	29645 29863 30081	5 6 7 8	13 15 18 20	12 14 17 19
200 201 202 203	30103 30320 30535 30750	30125 30341 30557 30771	30146 30363 30578 30792	30168 30384 30600 30814	30190 30406 30621 30835	30211 30428 30643 30856	30233 30449 30664 30878	30255 30471 30685 30899	30276 30492 30707 30920	30298 30514 30728 30942	$\frac{\frac{9}{9}}{1}$	23	22
204 205 206	30963 31175 31387	$\frac{30984}{31197}\\31408$	31006 31218 31429	31027 31239 31450	$\frac{31048}{31260} \\ 31471$	31069 31281 31492	$\frac{31091}{31302} \\ 31513$	31112 31323 31534	31133 31345 31555	31154 31366 31576	2 3 4	5 7 9	4 7 9
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214 215 216	33041 33244 33445	$\frac{33062}{33264} \\ 33465$	33082 33284 33486	33102 33304 33506	$\begin{array}{r} 33122 \\ \hline 33325 \\ 33526 \end{array}$	33143 33345 33546	33163 33365 33566	33183 33385 33586	33203 33405 33606	33224 33425 33626	2 3 4	4 6 8	4 6 8
217 218 219	33646 33846 34044	33666 33866 34064	33686 33885 34084	33706 33905 34104	33726 33925 34124	33746 33945 34143	33766 33965 34163	33786 33985 34183	33806 34005 34203	33826 34025 34223	5 6 7 8	11 13 15 17	10 12 14 16
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20	34616	34596	34577	34557	34537	34518	34498	34479	34459	34439	221
1   2	34811	34792	34772	34753	34733	34713	34694	34674	34655	34635	222
2 4	35005	34986	34967	34947	34928	34908	34889	34869	34850	34830	223
3 6	35199	35180	35160	35141	35122	35102	35083	35064	35044	35025	224
5 10	35392 35583	35372 35564	35353 35545	35334 35526	35315 35507	35295 35488	35276 35468	35257 35449	35238 35430	35218 35411	225 226
6 , 12	35774	35755	35736	35717	35698	35679	35660	35641	35622	35603	227
7 14	35965	35946	35927	35908	35889	35870	35851	35832	35813	35793	228
8 16	36154	36135	36116	36097	36078	36059	36040	36021	36003	35984	229
9 18	36342	36324	36305	36286	36267	36248	36229	36211	36192	36173	230
1	36530	36511	36493	36474	36455	36436	36418	36399	36380	36361	231
1	36717	36698	36680	36661	36642	36624	36605	36586 ± 36773	36568	36549 36736	232 233
2 4	36903 37088	36884 37070	36866 37051	36847 37033	36829 37014	36810 36996	36791 36977	36959	36754 36940	36922	234
3 6	37273	37254	37236	37218	$-\frac{37014}{37199}$	37181	37162	37144	37125	37107	235
5 10	37457	37438	37420	37401	37383	37365	37346	37328	37310	37291	236
6 11	37639	37621	37603	37585	37566	37548	37530	37511	37493	37475	237
7 13	37822	37803	37785	37767	37749	. 37731	37712	37694	37676	37658	238
8 15	38003	37985	37967	37949	37931	37912	37894	37876	37858	37840	239
9 17	38184	38166	38148	38130	38112	38093	38075	38057	38039	38021	240
1	38364	38346	38328	38310	38292	38274	38256	38238	38220	38202	241
1 :	38543	38525	38507	38489 38668	38471 38650	38453 38632	38435 38614	38417   38596	38399 38578	38382   38561	242 243
2 3	38721 38899	38703 38881	38686 38863	38846	38828	38810	38792	38775	38757	38739	243
3 5	39076	39058	39041	39023	39005	38987	38970	38952	38934	38917	-245
4 7	39252	39235	39217	39199	39182	39164	39146	39129	39111	39094	246
6 11	39428	39410	39393	39375	39358	39340	39322	39305	39287	39270	247
7 13	39602	39585	39568	39550	39533	39515	39498	39480	39463	39445	248
8   14	39777	39759	39742	39724	39707	39690	39672	39655	39637	39620	249
9 ' 16	39950	39933	39915	39898	39881	39863	39846	39829	39811	39794	250
1	40123	40106 40278	40088 40261	40071	40054 40226	40037	40019	40002	39985 40157	39967 40140	251 252
1 :	40230	40449	40432	40415	40398	40203 . 40381 i	40364	40346	40329	40312	253
2 3	40637	40620	40603	40586	40569	40552	40535	40518	40500	40483	254
3   5	40807	40790	40773	40756	40739	40722	40705	40688	40674	40654	255
4 7	40976	40960	40943	40926	40909	40892	40875	40858	40841	40824	256
5 9	41145	41128	41111	41095	41078	41061	41044	41027	41010	40993	257
1 7 11	41313	41296	41280	41263	41246	41229	41212	11196	41179	41162	258
8 14	41481	41464	41447	41430	41414	41397	41380	41363	$=\frac{41347}{41517}$	41330	259
9 15	41647 41814	$\frac{41631}{41797}$	$\frac{41614}{41780}$	41597 41764	41581 41747	41564 41731	44547 41714	44531 41697	$\frac{41514}{41681}$	41497	260 261
1	41979	41963	41946	41929	41913	41896	41880	41863	41847	41830	262
1 3	42144	42127	42111	42095	42078	12062	42045	42029	42012	41996	263
2 3	42308	42292	42275	42259	42243	42226	42210	42193	42177	42160	264
3 5	42472	42455	42439	42423	42406	12390	42374	42357	42341	42325	265
4 5	42635	42619	42602	42586	12570	12553	42537	42524	42504	42488	266
5 8	42797 42959	42781	42765 42927	42749 42911	42732 42894	42716 42878	42700 42862	42684 42846	$\frac{42667}{42830}$	42651 42843	267 268
7 11	43120	43104	42927	42911	43056	42578	43024	13008	42991	42975	269
8 13	43251	43265	43249	43233	4.3217	43201	43185	43169	43152	43136	-270
9 14	43441	43425	43409	43393	1.3377	43364	4.6345	43329	43313	43297	271
1	43(9)()	43584	43569	43553	43537	43521	43505	43489	43473	43457	272
1 :	43759	43743	43727	43712	13696	43680	43664	43648	43632	43616	273
2 3	43917	43902	43886	43870	13854	4.3808	43823	43807	43791	43775	274
3 5	44075	44059	44044	44028	11012	40096	43984	43965	40949	43933	275
5 5	44232 44389	44217 44373	44201 44358	44185 44342	44170 44326	44154 44314	44138 44295	44122 44279	44107	44091 44248	276 277
6 5	44545	44529	44514	44498	11153	11167	44451	44436	11420	14 104	278
7 11	44700	44685	44669	44654	44635	14623	44607	44592	44576	44560	279
5 11											
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TABLE 42.

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311	48996	49150			49052	49066	49080	49094	49108	49122	3	4
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313 4 314 4 315 4 315 4 316 4 317 5 318 5 319 5 320 5 321 5 322 5 322 5 323 5 324 5 325 5 326 5 327 5 328 5	49276	49290	49304	49318	49332	49346	49360	49374	49388	49402	5	7
314 4 315 4 316 4 317 5 318 5 318 5 319 5 320 5 321 5 322 5 323 5 324 5 325 5 326 5 327 5 328 5	49415	49429	49443	49457	49471	49485	49499	49513	49527	49541	6 :	- 8
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317     5       318     5       319     5       320     5       321     5       322     5       323     5       324     5       325     5       326     5       327     5       328     5	49831	49845	49859	49872	49886	49900	49914	49927	49941	49955	9	13
318     5       319     5       320     5       321     5       322     5       323     5       324     5       325     5       326     5       327     5       328     5	49969	49982.	49996	50010	50024	50037	50051	50065	50079	50092	-	
319     5       320     5       321     5       322     5       323     5       324     5       325     5       326     5       327     5       328     5	50106	50120	50133	50147	50161	50174	50188	50202	50215	50229	i	
320 5 321 5 322 5 323 5 324 5 325 5 326 5 327 5 328 5	50243	50256	50270	50284	50297	50311	50325	50338	50352	50365	1	13
321   5 322   5 323   5 324   5 325   5 326   5 327   5 328   5	50379	50393	50406	50420	50433	50447	50461	50474	50488	50501	-	
321   5 322   5 323   5 324   5 325   5 326   5 327   5 328   5	50515	50529	50542	50556	50569	50583	50596	50610	50623	50637	1	1
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323   5 324   5 325   5 326   5 327   5 328   5	50786	50799	50813	50826	50840	50853	50866	50880	50893	50907	3	4
324   5 325   5 326   5 327   5 328   5	50920	50934	50947	50961	50974	50987	51001	51014	51028	51041	1 4	5
325   5 326   5 327   5 328   5	51055	51068	51081	51095	51108	51121	51135	51148	51162	51175	5	7
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328 - 5		51468	51481					51548	51561		8	10
	51455			51495	51508	51521	51534			51574	9	12
	51587	51601	51614 51746	51627	51640	51654	51667	51680	51693 51825	51706 51838		
	51790	51733		51759	51772	51786	51799	51812				_
	51720	51865	51878	51891	51904	51917	51930	51943	51957	51970		12
	51851	51996	52009	52022	52035	52048	52061	52075	52088	52101	-	
	$\frac{51851}{51983}$	52127	52140	52153	52166	52179	52192	52205	52218	52231		1
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TABLE 42.

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340	53148	53161	53173	53186	53199	53212	53224	53237	53250	53263	13
341	53275	53288	53301	53314	53326	53339	53352	53364	53377	53390	1 1
342	53403	53415	53428	53441	53453	53466	53479	53491	53504	53517	2 3
343	53529	53542	53555	53567	53580 53706	53593	53605	53618	53631	53643	3 4
344	53656	53668	53681	53694		53719	53732	53744	53757	53769	
345	53782	53794	53807 53933	53820 53945	53832 53958	53845 53970	53857 53983	53870 53995	53882 54008	53895 54020	$\begin{array}{ccc} 4 & 5 \\ 5 & 7 \end{array}$
346 347	53908 54033	53920 54045	54058	54070	54083	54095	54108	54120	54133	54145	6 S
348	54158	54170	54183	54195	54208	54220	54233	54245	54258	54270	7 9
349	54283	54295	54307	54320	54332	54345	54357	54370	54382	54394	8 10
350	54407	544119	54432	54444	54456	54469	54481	54494	54506	54518	9 12
351	54531	54543	54555	54568	54580	54593	54605	54617	54630	54642	
352	54654	54667	54679	54691	54704	54716	54728	54741	54753	54765	
353	54777	54790	54802	54814	54827	54839	54851	54864	54876	54888	
354	54900	54913	54925	54937	54949	54962	54974	54986	54998	55011	
355	55023	55035	55047	55060	55072	55084	55096	55108	55121	55133	
356	55145	55157	55169	55182	55194	55206	55218	55230	55242	55255	12
357	55267	55279	55291	55303	55315	55328	55340	55352	55364	55376	
358	55388	55400	55413	55425	55437	55449	55461	55473	55485	55497	1 1
359	55509	_55522	_ 55534	55546	55558	55570	55582	55594	55606	55618	2 2 3 4
360	55630	55642	55654	55666	55678	55691	55703	55715	55727	55739	
361	55751	55763	55775	55787	55799	55811	55823	55835	55847	55859	4 5
362	55871	55883	55895	55907	55919	55931	55943	55955	55967	55979	5 6
363	55991	56003 56122	56015 56134	56027 56146	56038 56158	56050 56170	56062 56182	56074 56194	56086	56098 56217	6 7 8
364	56110								56205		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
365	56229	56241 56360	56253 56372	56265 56384	56277 56396	56289 56407	56301 56419	56312 56431	56324 56443	56336	9 11
366 367	56348   56467	56478	56490	56502	56514	56526	56538	56549	56561	56455 56573	9 11
368	56585	56597	56608	56620	56632	56644	56656	56667	56679	56691	
369	56703	56714	56726	56738	56750	56761	56773	56785	56797	56808	
370	56820	56832	56844	56855	56867	56879	56891	56902	56914	56926	
371	56937	56949	56961	56972	56984	56996	57008	57019	57031	57043	
372	57054	57066	57078	57089	57101	57113	57124	57136	57148	57159	
373	57171	57183	57194	57206	57217	57229	57241	57252	57264	57276	- 11
374	57287	57299	57310	57322	57334	57345	57357	57368	57380	57392	
375	57403	57415	57426	57438	57449	57461	57473	57484	57496	57507	1 1
376	57519	57530	57542	57553	57565	57576	57588	57600	57611	57623	2 2 3
377	57634	57646	57657	57669	57680	57692	57703	57715	57726	57738	3 3
378	57749	57761	57772	57784	57795	57807	57818	57830	57841	57852	4   4 5   6
379	57864	57875	57887	_5789S	57910	_57921	57933	57944	57955	57967	6 7
380	57978	57990	58001	58013	58024	58035	58047	58058	58070	58081	7 8
381	58092	58104	58115	58127	58138	58149	58161	58172	58184	58195	8   9
382	58206	58218	58229	58240	58252	58263	58274 58388	58286 58399	58297 58410	58309 58422	9 10
383	58320 58433	58331 5844 F	58343 58456	58354 58467	58365 58478	58377 58490	58501	58512	58524	58422 58535	
				58580	58591	58602	58614	58625	58636	58647	
385 386	58546 58659	58557 58670	58569 58681	58692	58704	58715	58726	58737	58749	58760	
387	58771	58782	58794	58805	58816	58827	58838	58850	58861	58872	1
388	58883	58894	58906	58917	58928	58939	58950	58961	58973	58984	
389	58995	59006	59017	59028	59040	59051	59062	59073	59084	59095	10
390	59106	59118	59129	59140	59151	59162	59173	59184	59195	59207	
391	59218	59229	59240	59251	59262	59273	59284	59295	59306	59318	1 1
392	59329	59340	59351	59362	59373	59384	59395	59406	59417	59428	
393	59439	59450	59461	59472	59483	59494	59506	59517	59528	59539	2 2 3
394	59550	59561	59572	59583	59594	59605	59616	59627	59638	59649	4 4
395	59660	59671	59682	59693 ,	59704	59715	59726	59737	59748	59759	5 5
396	59770	59780	59791	59802	59813	59824	59835	59846	59857	59868	6 6
397	59879	59890	59901	59912	59923	59934	59945	59956	59966	59977	7 7
398	59988	59999	60010	60021	60032	60043	60054	60065	60076	60086	8 8
399	60097	60108	60119	60130	60141	60152	60163	60473	60184	60195	9 9
No	U	1	2	3	ı	ő	6	7	4	19	

TABLE 42.

No.	4000160	0.							1	.og, 60206-	663	276.
No.	0	1	2	3	4	5	6	7	9	9		
400 401	60206 60314	60217 60325	60228 60336	60239 60347	60249 60358	60260 60369	60271 60379	60282 60390	60293 60401	60304 60412	-	11
402	60423	60433	60444	60455	60466	60477	60487	60498	60509	60520	1 2	1
403 404	60531 60638	60541 60649	60552 60660	60563 60670	60574 60681	60584 60692	60595 60703	60606	60617 60724	60627 60735	3	2 3
$-\frac{407}{405}$	60746	60756	60767	60778	60788	60799	60810	60821	60831	60842	4	4
406	60553	60863	60874	60885	60895	60906	60917	60927	60938	60949	5	6
407	60959	60970	60981	60991	61002	61013	61023	61034	61045	61055	6 7	7 8
408 409	61066 61172	61077	61087	61098 61204	61109 61215	61119 61225	61130 61236	61140	61151 $61257$	61162 $61268$	8	9
410	61278	61289	61300	61310	61321	61331	61342	61352	61363	61374	9	10
411	61384	61395	61405	61416	61426	61437	61448	61458	61469	61479		
412	61490	61500	61511	61521	61532	61542	61553	61563	61574	61584	1	
413 414	61595 61700	61606 61711	$61616 \\ 61721$	61627 61731	61637 61742	61648 61752	61658 61763	61669	61679	61690	1	
415	61805	61815	61826	61836	61847	61857	61868	61878	61888	61899	1	
416	61909	61920	61930	61941	61951	61962	61972	61982	61993	62003	ı	
417	62014	62024	62034	62045	62055	62066	62076	62086	62097	62107	1	
418 1 419	62118 62221	62128 $62232$	62138 62242	62149 62252	62159 62263	62170 62273	62180 62284	62190 62294	62201 62304	62211 62315	1	
420	62325	62335	62346	62356	62366	62377	62387	62397	62408	62418	l	
421	62428	62439	62449	62459	62469	62480	62490	62500	62511	62521	[	
422	62531	62542	62552	62562	62572	62583	62593	62603	62613	62624	l	
423	62634	62644	62655 62757	62665	62675	62685 62788	62696	62706	62716	62726		
424	$\frac{62737}{62839}$	$\frac{62747}{62849}$	62859	$\frac{62767}{62870}$	$\frac{-62778}{62880}$	62890	62798	$\frac{62808}{62910}$	62818 62921	62829	ı	10
426	62941	62951	62961	62972	62982	62992	63002	63012	63022	63033	·	,
427	63043	63053	63063	63073	63083	63094	63104	63114	63124	63134	1 2	1 2
428	63144	63155	63165	63175	63185	63195	63205	63215	63225	63236	3	3
429	63246	63256	63266	63276	63286	63296	63306	63317	63327	63337	4	4
431	63448	63458	63468	63478	63488	63498	63508	63518	63528	63538	5 6	2 3 4 5 6 7
432	63548	63558	63568	63579	63589	63599	63609	63619	63629	63639	7	7
433	63649	63659	63669	63679	63689	63699	63709	63719	63729	63739	8	8
434	63749 63849	$\frac{63759}{63859}$	63769	63779	63789	63799	63809 63909	63819	63829	63839	9	9
436	63949	63959	63969	63979	63988	63998	64008	64018	64028	64038		<u>'</u>
437	64048	64058	64068	64078	64088	64098	64108	64118	64128	64137	1	
438	64147	64157	64167	64177	64187	64197	64207	64217	64227	64237		
439	64246	$\frac{64256}{64355}$	$\frac{64266}{64365}$	$\frac{64276}{64375}$	$\frac{-64286}{64385}$	64395	64306	64316	64326	64335	l	
440 441	64144	64454	64464	64473	64389	64395	64503	64513	64523	64532	ı	
442	64542	64552	64562	64572	64582	64591	64601	64611	64621	64631	ı	
443	64640	64650	64660	64670	64680	64689	64699	64709	64719	64729	1	
444	64738	64748	64758	64768	64777	64787	64797	64807	64816	64826		
445 446	64836 64933	64846 64948	64856 64953	64865 64963	64875 64972	64885 64982	64895 64992	6±904 65002	64914 65011	64924 65021		
447	65031	65040	65050	65060	65070	65079	65089	65099	65108	65118		
448	65128	65137	65147	65157	65167	65176	65186	65196	65205	65215	ļ	
449	65225	65234	65244	65254	65263	65273	65283	65292	65302	65312		9
450 451	65321 65418	65331 65427	65341 65437	65350 65447	65360 65456	65369 65466	65379 65475	65389 65485	65398 65495	65408 65504	1	1
452	65514	65523	65533	65543	65552	65562	65571	65581	65591	65600	2	
453	65610	65619	65629	65639	65648	65658	65667	65677	65686	65696	3	3
454	65706	65715	65725	65734	65744	65753	65763	65772	65782	65792	4	2345566
455 456	65801 65896	65811 65906	65820 65916	65830 65925	65839 65935	65849 65944	65858 65954	65868 65963	65877 65973	65887 65982	5 6	5
457	65992	66001	66011	66020	66030	66039	66049	66058	66068	66077	7	6
458	66087	66096	66106	66115	66124	66134	66143	66153	66162	66172	8	7
459	66181	66191	66200	66210	66219	66229	66238	66247	66257	66266	9	8
No.	0	1	- 2	3	4		6	7	s	9		
A10,	,			,		,						

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No.	0	1	5	3		5	-6	7		9		
460	66276	66285	66295	66304	66314	66323	66332	66342	66351	66561		1
461	66370	66380	66389	66398	66408	66417	66427	66436	66445	66455		
462	66464	66474	66483	66492	66502	66511	66521	66530	66539	66549	1	
463	66558	66567	66577	66586	66596	66605	66614	66624	66633	66642	2 3	
461	66652	66661	66671	66680	66689	66699	66705	66717	66727	66736		
465	66745	66755	66764	66773	66783	66792	66801	66811	66820	66829	4	-
410.	66839	66848	66857	66867	66876	66885	66894	66904	66913	66922	5	- 3
			66950	66960	66969	66978					- 6	
457	665612	66941	67043	67052	67062		66987	66997	67006	67015	7	- 7
465	67025	67034				67071	67080	67089	67099	67108	- 8	y
469	67117	67127	67136	67145	67154	67164	67173	67182	67191	67201	9	
470	67210	67219	67228	67237	67247	67256	67265	67274	67284	67293	1	
-17.1	67302	67311	67321	67330	67339	67348	6,307	67367	67376	67385		_
472	67394	67403	67413	67422	67431	67440	67449	67459	67468	67477		
473	67486	67495	67504	67514	67523	67532	67.541	67550	67560	67569	1	
474	67578	67.587	67596	67605	67614	67624	67633	67642	67651	67660	1	
475	67669	67679	67688	67697	67706	67715	67724	67733	67742	67752	1	
476	67761	67770	67779	67788	67797	67806	67815	67825	67834	67843	ı	
477	67852	67861	67870	67879	67888	67897	67906	67916	67925	67934	1	
478	67943	67952	67961	67970	67979	67985	67997	68006	68015	68024	ı	
459	68034	68043	68052	68061	68070	68079	68088	68097				
				_					68106	68115	ı	
480	68124	68133	68142	68151	68160	68169	68178	68187	68196	68205	ı	
451	68215	68224	68233	68242	68251	68260	68269	68278	68287	68296	1	
452	65305	68314	68323	68332	68341	68350	68359	68368	68377	68386	1	
483	68395	68404	68413	68422	68431	68440	68449	68458	68467	68476	ı	
454	65455	98484	68502	68511	68520	68529	68538	68547	68556	68565		- 5
455	68574	68583	68592	68604	68610	68619	68628	68637	68646	68655		
180	08064	68673	68681	68690	68699	68708	68717	68726	68735	68744		
45-	68753	68762	68771	68780	68789	68797	65806	68815	68824	68833	1	1
155	65542	68851	68860	68869	68878	68886	68895	68904	68913	68922	2 3	:
150	68931	68940	68949	68958	68966	68975	68984	68993	69002	69011		
								-			4	-
400	63020	69028	69037	69046	69055	69064	69073	69082	65050	69099	5	÷
491	69108	69117	69126	69135	69144	69152	69161	69170	69179	69188	6	ě
442	691.97	69205	69214	69223	69232	69241	69249	69258	69267	69276	7	ŧ
490	69285	69294	69302	69311	69320	69329	69338	69346	69355	69364	- 8	- 7
494	69373	69381	69390	69399	69408	69417	69425	69434	69443	69452	- 9	
495	69461	69469	69478	69487	69496	69504	69513	69522	69531	69539		_
196	69548	69557	69566	69574	69583	69592	69601	69609	69618	69627	İ	
497	69636	69644	69653	69662	69671	69679	69688	69697	69705	69714		
4968	69723	69732	69740	69749	69758	69767	69775	69784	69793	69801		
499	69810	69819	69827	69836	69845	69854	69862	69871	69880	69888		
500	69897	69906 .	69914	69923	69932	69940	69949	69958	69966	69975	ı	
501	60984	69992	70001	70010	7001S	70027	70036	70044	70 <b>05</b> 3	70062	ı	
502	70070	70079	70088	70096	70105						ı	
						70114	70122	70131	70140	70148	i	
503	70157	70165	70174	70183	70191	70200	70209	70217	70226	70234	i	
501	70243	70252	70260	70269	70278	70286	70295	70303	70312	70321	i i	
505	70329	70338	70346	70355	70364	70372	70381	70389	70398	70406	i	
506	70415	70424	70432	70441	70449	70455	70467	70475	70484	70492	i	
507	70501	70509	70518	70526	70535 +	70544	70552	70561	70569	70578	i	
508	70586	70595	70603	70612	70621	70629	70638	70646	70655	70663		
509	70672	70680	70689	70697	70706	70714	70723	70731	70740	70749		
510	70757	70766	70774	70783	70791	70800	70808	70817	70825	70834		
511	70842	70851	70×59	70565	70876	70885	70893	70902	70910	70919	1	
512	70927	70935	70:444	70952	70961	70969	70978	70986	70995	71003	1	-1
513	71012	71020	71029	71037	71046	71054	71063	71071	71079	71005		-
	71000										3	14 14 25
514		71105	71113	71122	71130	71139	74147	71155	71164	71172	4	
545	71151	71189	71198	71206	71214	71223	71231	71240	71248	71257	5	-1
516	71265	71273	71282	71290	71299	71307	71315	71324	71332	71341	6	5
517	71.349	7 1357	71366	71374	71083	71391	71399	71408	71416	71425	7	G
518	714.43	71441	71450	71458	71466	71475	71483	71492	71500	71508	8	ti
519	71517	7.1525	71533	71542	71550	71559	71567	71575	71581	71592	- 9	7

TABLE 42.

No.	. 5200——58	00.							Le	og. 71600-	76343.	
No.	0	1	2	3	1	5	6 ,	7	- 4	9		
520	71600	71609	71617	71625	71634	71642	71650	71659	71667	71675		9
521	71684	71692	71700	71709	71717	71725	71734	71742	71750	71759		-
522	71767	71775	71784	71792	71800	71809	71817	-71825	71834	71842	1	1
523	71850	71858	71867	71875	71883	71892	71900	71908	71917	71925	2   3	3
524	_71933	71941	71950	71958	71966	71975	71983	71991	71999	72008	4	4
525	72016	72024	72032	72041	72049	72057	72066	72074	72082	72090	5	5
526	72099	72107	72115	72123	72132	72140	72148	72156	72165~	72173 72255	6	5
527	72181	72189	72198	72206	72214	72222	72230	72239	72247	72255	7	6
528	72263	72272	72280	72288	72296	72304	72313	72321	72329 *		s	7
529	72346	72354	72362	72370	72378	72387	72395	72403	72411	72419	9	8
530	72428	72436	72444 72526	72452 72534	72460 72542	72469 $72550$	72477 72558	72485 72567	72493	72501		
531	72509	72518							72575	72583		
532 533	72591 72673	72599 72681	72607 72689	72616 $72697$	72624 72705	72632 $72713$	72640 $72722$	72648 72730	72656	72665 72746	l	
534	72754	72762	72770	72779	72787	72795	72803	72811	72819	72827		
535	72835	72843	72852	72860	72868	72876	72884	72892	72900	72908	l	
536	72916	72925	72933	72941	72949	72957	72965	72973	72981	72989		
537	72997	73006	73014	73022	73030	73038	73046	73054	73062	73070		
538	73078	73086	73094	73102	73111	73119	73127	73135	73143	73151	ĺ	
539	73159	73167	73175	73183	73191	73199	73207	73215	73223	73231		
540	73239	73247	73255	73263	73272	73280	73288	73296	73304	73312	1	
541	73320	73328	73336	73344	73352	73360	73368	73376	73384	73392	l	
542	73400	73408	73416	73424	73432	73440	73448	73456	73464	73472	l	
543	73480	73488	73496	73504	73512	73520	73528	73536	73544	73552		
544	73560	73568	73576	73584	73592	73600	73608	73616	73624	73632		9
545	73640	73648	73656	73664	73672	73679	73687	73695	73703	73711	l -	
546	73719	73727	73735	73743	73751	73759	73767	73775	73783	73791	1	1
547	73799	73807	73815	73823	73830	73838	73846	73854	73862	73870	2	
548	73878	73886	73894	73902	73910	73918	73926	73933	73941	73949	3	2 2 3
549	73957	73965	73973	73981	73989	73997	74005	74013	74020	74028	4	3
550	74036	74044	74052	74060	74068	74076	74084	74092	74099	74107	5	4
551 552	74115	74123 74202	74131 74210	74139 - 74218	$74147 \\ 74225$	74155 $74233$	$74162 \\ 74241$	74170 74249	74178 74257	74186 74265	6	5
553	74194 74273	74202	74210	74218	74304	74312	74341	74327	74335	74343	7	6
554	74351	74359	74367	74374	74382	74390	74320	74406	74414	74421	8 9	6
555	74429	74437	74145	74453	74461	74468	74476	74484	74492	74500	9	•
556	74507	74515	74523	74531	74539	74547	74554	74562	74570	74578		
557	74586	74593	74601	74609	74617	74624	74632	74640	74648	74656	ŀ	
558	74663	74671	74679	74687	74695	74702	74710	74718	74726	74733		
559	74741	74749	74757	74764	74772	74780	74788	74796	74803	74811		
560	74819	74827	74834	74842	74850	74858	74865	74873	74881	74889	1	
561	74896	74904	74912	74920	74927	74935	74943	74950	74958	74966		
562	74974	74981	74989	74997	75005	75012	75020	75028	75035	75043	l	
563	75051	75059	75066	75074	75082	75089	75097	75105	75113	75120	l	
564	75128	75136	75143	75151	75159	75166	75174	75182	75189	75197		
565	75205	75213	75220	75228	75236	75243	75251	75259	75266	75274		
566	75282	75289	75297	75305	75312	75320	75328	75335	75343	75351		
567	75358	75366	75374	75381	75389	75397	75404	75412	75420	75427	l	
568 569	75435 75311	75442 75519	75450 75526	75458 75534	75465 75542	75473 75549	75481 75557	75488 75565	75496 75572	75504 75580	-	-
	75511	75595					75633	75641	75648	75656		7
570 571	75587 75664	75671	75603 75679	75610 75686	75618 75694	75626 75702	75709	75717	75724	75732		1
572	75740	75747	75755	75762	75770	75778	75785	75793	75800	75808	$\frac{1}{2}$	1
573	75815	75823	75831	75838	75846	75853	75861	75868	75876	75884	3	$\frac{1}{2}$
574	75891	75899	75906	75914	75921	75929	75937	75944	75952	75959	4	3
575	75967	75974	75982	75989	75997	76005	76012	76020	76027	76035	5	4
576	76042	76050	76057	76065	76072	76080	76087	76095	76103	76110	6	4
577	76118	76125	76133	76140	76148	76155	76163	76170	76178	76185	7	5
578	76193	76200	76208	76215	76223	76230	76238	76245	76253	76260	8	6
579	76268	76275	76283	76290	76298	76305	76313	76320	76328	76335	-9	6
No,	0	1	2	3	4	å	6	7	5	9		
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э.	0	t	2	3	4	5	6		` _	9		
i0	76343	76350	76358	76365	76373	76380	76388	76395	76403	76410		8
31	76418	76425	76433	76440	76448	76455	76462	76470	76477	76485	_	٠,
32	76492	76500	76507	76515	76522	76530	76537	76545	76552	76559	1	1
s3	76567	76574	76582	76589	76597	76604	76612	76619	76626	76634	3	- 2
4	76641	76649	76656	76664	76671	76678	76686	76693	76701	76708	4	2 2 3
5	76716	76723	76730	76738	76745	76753	76760	76768	76775	76782 :	5	4
6	76790	76797	76805	76812	76819	76827	76834	76842	76849	76856	6	4 5
7	76864	76871	76879	76886	76893	76901	76908	76916 76989	76923	76930	7	6
8	76938	76945 77019 ±	76953 77026	76960 77034	76967 77041	76975 77048 :	76982 77056	77063	76997 77070	77004 77078	8	6
5	77012	100			77115		77129	77137	77144	77151	9	7
1	77085 77159	77093 77166	77100 77173	77107 77181	77188	77122 77195	77203	77210	77217	77005	-	
1	77232	77240	77247	77254	77262	77269	77203 77276	77283	77217 77291 77364	77225 77298		
1	77305	77313	77320	77327	77335	77342	77349	77283 77357	77364	77371		
1	77379	77386	77393	77401	77408	77415	77422	77430	77437	77444		
ŀ	77452	77459	77466	77474	77481	77488	77495	77503	77510	77517		
ı	77525	77532	77539	77546	77554	77561	77568	77576	77583	77590		
ı	77597	77605	77612	77619	77627	77634	77641	77648	77656	77663		
ı	77670	77677	77685	77692	77699	77706	77714	77721	77728	77735		
i	77743	77750	77757	77764	77772	777779	77786	77793	77801	77808		
i	77815	77822	77830 .	77837	77844	77851	77859	77866	77873	77880		
ı	77887	77895	77902	77909	77916	77924	77931	77938	77945	77952		
ı	77960	77967	77974	77981	77988	77996	78003	78010	78017	78025		
١	78032	78039	78046	78053	78061	78068	78075	78082	78089	78097		
ı	78104	78111	78118	78125	78132	78140	78147	78154	78161	78168		7
ı	78176	78183	78190	78197	78204	78211	78219	78226	78233	78240		_
ı	78247	78254	78262	78269	78276	78283	78290	78297	78305	78312	1	1
ĺ	78319	78326	78333	78340	78347	78355	78362	78369	78376	78383	2	
١	78390	78398	78405	78412	78419	78426	78433	78440	78447	78455	3	:
ı	78462	78469	78476	_ 78483 _	78490	78497	78504	78512	78519	78526	4	
۱	78533	78540	78547	78554	78561	78569	78576	78583	78590	78597 78668	-5	4
l	78604	$\frac{78611}{78682}$	78618 78689	78625 78696	78633 78704	78640 78711	78647 78718	78654 $78725$	78661 78732	75739	6	
l	78675 78746	78753	78760	78767	78774	78781	78789	78796	78803	78810	7 8	:
ı	78817	78824	78831	78838	78845	78852	78859	78866	78873	78880	9	
1	78888	78895	78902	78909	78916	78923	78930	78937	78944	78951		,
١	78958	78965	78972	78979	78986	78993	79000	79007	79014	79021	_	_
ı	79029	79036	79043	79050	79057	79064	79071	79078	79085	79092		
ı	79099	79106	79113	79120	79127	79134	79141	79148	79155	79162	l	
ı	79169	79176	79183	79190	79197	79204	79211	79218	79225	79232		
ı	79239	79246	79253	79260	79267	79274	79281	79288	79295	79302	1	
ı	79309	79316	79323	79330	79337	79344	79351	79358	79365	79372		•
1	79379	79386	79393	79400	79407	79414	79421	79428	79435	79442		
1	79449	79456	79463	29420	79477	79484	79491	79498	79505	79511	1	
١	79518	79525	79532	79539	79546	79553	79560	79567	79574	79581	ŀ	
١	79588	79595	79602	79609	79616	79623	79630	79637	79644	79650		
ı	79657	79664	79671	79678	79685	79692	79699	79706	79713	79720		
١	79727	79734	79741	79748	79754	79761	79768	79775	79782	79789		
1	79796	79803	79810	79817	79821	79831	79837	79844	79851	79858		_
1	79865	79872	79879	79886	79893	79900	79906	79913	79920	79927		1
1	799014	79941	79948	79955	79962	79969	79975	79982	79959	71886		
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1	80140 80209 I	801 17 802 16	80154 80223	S0161 S0229	80236	80175 80243	80250	80257	80264	80271	3	
									80032	80339	4 5	
5	80277	80251	80291 80359	80298 80366	80305 80373	80312 80380	80318 80387	80325 80393	80400	80407	6	
6	80346	80353 80421	80339	S0434	80441	80448	80455	80462	80468	80475	7	
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14	85974	35930	N5956	85992	85998	86004	86040	86016	249055	86028		
:5	86004 .	86040	86046	86052	86058	86064	56070	86076	86082	56055		
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, <	86213	86219	86225	86231	86237	86243	86249	86255	56261	86267	3	
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1	86302	86398	86401	56410	86115	86421	86427	86433	86439	86445	6	
12	86[5]	86457	86463	86469	86475	86481	86487	86493	46499	86504	7	
::: }	56510	86516	86522	86528	86534	86540	86546	86552	86558	86564	3	1
13 14	80.570	86576	86581	30037	865004	86593	86605	86611	86617	36623	9	- 7
5	86629	86635	86641	86646	86652	86658	86664	86670	86676	46652	1	
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17	86747	86753	86759	86764	56770	86776	86782	36733	86794	565(10)		
5.0	56506	86812	86817	8632.1	50529	86835	86811	86847	46453	40270	ŀ	
(0)	56564	56570	86876	24542	711344	20201	86900	86906	86911	800017	1	
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1.	86082	86988	86994	860 699	87005	\$7011	87017	87023	2,000	87035	ĺ	
12	87040	87046	87052	57005	S7(#1	87070	87075	47081	57057	87003		
4.5	57000	87105	87111	87116	87122	87128	87134	87140	87146	87151		
11	87157	87163	87169	87175	5"151	87186	87192	87198	57204	87210		
Į5.	87216	87221	57227	87233	87239	87245	87251	87256	87262	87268	ŀ	
10	57274	87280	87286	872.41	57297	87303	87309	87315	87320	87326	l	
17	87.432	870008	87344	87349	87355	87361	87367	87373	87379	87384		
1.	\$7000	\$7096	87102	87408	87413	87419	87425	87431	57437	87442		
18 19	87118	87454	87460	87466	87471	87,177	87483	87 189	87495	87500		
50	\$7506	87512	87518	87523	87529	87535	87541	87547	57552	57558		
	\$75m4	87570	87576	87581	87587	87593	87599	87604	87610	87616	1	1
10	87622	87628	87633	87639	87615	87651	87656	87662	87668	87674	2	
50 50 50 54	876. 1	471147	87/991	87697	8770.1	87708	87711	87720	87726	877311	3	
11	87787	577.13	87749	87754	87760	87766	87772	87777	57783	87789	i	:
55	877/6	57500	~7×(It)	57512	87515	87823	87829	87835	87841	87846	5	:
50.	47450	74.54	87564	57569	87875	87881	57557	57502	47.494	879844	- 61	:
55 56 57	\$7910	87915	87924	87927	87930	87008	\$7911	\$7950	87955	57961	7	
5%	871017	87973	87978	57051	575690	STORY	55001	55007	55013	5511]5	1	-
59	88021	88070	880.36	55041	48017	8805.1	55055	55061	55(171)	88076	- 9	
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761	88138	88144	88150	88156	88161	88167	88173	88178	88184	88190		
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763	88252	88258	88264	88270	88275	88281	88287	88292	88298	88304	2	I
764	88309	88315	88321	88326	88332	88338	88343	88349	88355	88360	3	2 2 3
765	88366	88372	88377	88383	88389	88395	88400	88406	88412	88417	4	2
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767	88480	88455	88491	88497	88502	88508	88513	88519	88525	88530	7	4
768	88536	88542	88547	88553	88559	88564	88570	88576	88581	88587	8	5
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770	88649	88655	88660	88666	88672	88677	88683	88689	88694	88700		
771	88705	88711	88717	88722	88728	88734	88739	88745	88750	88756		
772	88762	88767	88773	88779	88784	88790	88795	88801	88807	88812		
773	88818	88824	88829 88885	88835 88891	88840 88897	88846	88852	88857	88863	88868		
774	88874	88880		mention of the state of	-	88902	88908	88913	88919	88925		
775	88930	88936	88941	88947 89003	88953 89009	88958 89014	88964	88969	88975	88981		
776	88986 89042	88992 - 89048	88997 89053	89003 89059	89009 89064	89070	89020 89076	89025 89081	89031 89087	89037		
777 778	89098	89104	89109	89115	89120	89126	89131	89137	89087	89092 89148		
779	89154	89159	89165	89170	89176	89182	89187	89193	89198	89204		
780	89209	89215	89221	89226	89232	89237	89243	89248	89254	89260		
781	89265	89271	89276	89282	89287	89293	89298	89304	89310	89315		
782	89321	89326	89332	89337	89343	89348	89354	89360	89365	89371		
783	89376	89382	89387	89393	89398	89404	89409	89415	89421	89426		
784	89432	89437	89443	89448	89454	89459	89465	89470	89476	89481		
785	89487	89492	89498	89504	89509	89515	89520	89526	89531	89537		
786	89542	89548	89553	89559	89564	89570	89575	89581	89586	89592		
787	89597	89603	89609	89614	89620	89625	89631	89636	89642	89647		
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790	89763	89768	89774	89779	89785	89790	89796	89801	89807	89812		
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792	89873	89878	89883	89889	89894	89900	89905	89911	89916	89922		
793	89927	89933	89938	89944	89949	89955	89960	89966	89971	89977		
794	89982	89988	89993	89998	90004	90009	90015	90020	90026	90031		
795	90037	90042	90048	90053 90108	90059 90113	90064 90119	90069	90075	90080 90135	90086		
796 797	90091 90146	90097 90151	90102   90157	90168	90113	90179	90124 90179	90129 90184	90135	90140		
798	90200	90206	90211	90217	90222	90227	90233	90238	90244	90249		
799	90255	90260	90266	90271	90276	90282	90287	90293	90298	90304		
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801	90363	90369	90374	90380	90385	90390	90396	90401	90407	90412		
802	90417	90423	90428	90434	90439	90445	90450	90455	90461	90466		
803	90472	90477	90482	90488	90493	90499	90504	90509	90515	90520		
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805	90580	90585	90590	90596	90601	90607	90612	90617	90623	90628		
806	90634	90639	90644	90650	90655	90660	90666	90671	90677	90682		
807	90687	90693	90698	90703	90709	90714	90720	90725	90730	90736		
808	90741	90747	90752	90757	90763	90768	90773	90779	90784	90789		
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812 813	90956 91009	90961 91014	90966   91020	90972 91025	90977 91030	90982 91036	90988 91041	91046	90998	91004	2	1
814	91009	91068	91020	91025	91030	91036	91041	91100	911052	91110	4	9
				91132				91153	91158	91164	5	1 2 2 3 3
815	91116	91121 91174	91126 91180	91132 91185	91137 91190	91142 91196	91148 91201	91153	91212	91217	6	3
816 817	91169 91222	91174	91180	91238	91190	91196	91254	91259	91212	91270	7	4
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819	91328	91334	91339	91344	91350	91355	91360	91365	91371	91376	9	5
3.0	0.1020	0.10.71	0 2000		22330							
No.	0	1	2	8	4	5	6	7	8	9		
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No.	8200880	),								Log. 31381-	944	14
No.	0	1	2	3	ı	ā	6	7	` `	14		
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822	91457	91492	91498	91503	91508	91514	91519	91524	91529	91535	2	1
823 824	91540 ± 91593 ±	91545 91598	91551 91603	91556 91609	91564 91614	91566 91619	91572 91624	91577 91630	91582 $91635$	91587 91640	3	
825	91645	91651	91656	91661	91666	91672	91677	91682	91687	91693	4	2 2 2 2
826	91698	91703	91709	91714	91719	91724	91730	91735	91740	91745	5	
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828	91803	91808	91814	91819	91824	91829	91834	91840	91845	91850	8	5
829	91855	91861	91866	91871	91876	91882	91887	91892	91897	91903	9	5
830 831	91908 91960	91913 91965	91918 91971	91924 91976	91929 91981	91934 91986	91939 91991	91944 91997	91950 92002	91955 92007		
832	92012	92018	92023	92028	92033	92038	92044	92049	92054	92059		
833	92065	92070	92075	92080	92085	92091	92096	92101	92106	92111		
834	92117	92122	92127	92132	92137	92143	92148	92153	92158	92163		
835	92169	92174	92179	92184	92189	92195	92200	92205	92210	92215		
836 837	92221 92273	92226 92278	92231 92283	92236 92288	92241 92293	92247 92298	92252 92304	92257 92309	92262 92314	92267 92319		
838	92324	92330	92335	92340	92345	92250	92355	92361	92366	92371		
839	92376	92381	92387	92392	92397	92402	92407	92412	92418	92423		
840	92428	92433	92438	92443	92449	92454	92459	92464	92469	92474		
841	92480	92485	92490	92495	92500	92505	92511	92516	92521	92526		
842 843	92531 92583 i	92536 92588	92542 92593	92547 92598	92552 92603	92557 92609	92562 92614	92567 92619	92572 92624	92578 92629		
844	92634	92639	92645	92650	92655	92660	92665	92670	92675	92681		
845	92686	92691	92696	92701	92706	92711	92716	92722	92727	92732		5
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847	92788	92793	92799	92804	92809	92814	92819	92824	92829	92834	2	1
848 849	92840 92891	92845 92896	92850 92901	92855 92906	92860 92911	92865 92916	92870 92921	$92875 \\ 92927$	92881 92932	92886 92937	3	2
850	92942	92947	92952	92957	92962	92967	92973	92978	92983	92988	5	2 2 3
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852	93044	93049	93054	93059	93064	93069	93075	93080	93085	93090	7	4
853 854	93095	93100   93151	93105 93156	93110	93115	93120 93171	93125	93131	93136	93141 $93192$	8	4
855	93146 93197	$\frac{-93131}{93202}$	93207	93161 93212	93166   93217	93222	$\frac{-93176}{93227}$	93181	93186 93237	93242	9	5
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858	93349	93354	93359	93364	93369	93374	93379	93384	93389	93394		
859	93399	93404	93409	93414	-93420	_93425	93430	93435	93440	93445		
860 861	93450 93500	93455 93505	93460 93510	93465 93515	93470 93520	93475 93526	93480 93531	93485	93 <b>490</b> 93541	93495 93546		
862	93551	93556	93561	93566	93571	93576	93581	93586	93591	93596		
863	93601	93606	93611	93616	93621	93626	93631	93636	93641	93646		
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876	94250	94255	94260	94265	94270	94275	94280	94285	94290	44293	15	2 2 3
877	94300	94305	94310 94359	94315 94364	94320	94325 94374	94330 94379	94335 94384	94340 94389	94395	7 4	3
575 570	94,399		94400	91411	94419	94121	94129		94435	93113	9	4
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No.	8800940	0,							I	.og. 9414%	973	13.
No.	0	1	5	3	4	5	6	7	4	9		
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887	94792	94797	94802	94807	94812	94817	94822	94827	94832	94836	7	4
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890	94939	94944	94949	94954	94959	94963	94968	94973	94978	94983	٥	0
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893	95085	95090	95095	95100	95105	95109	95114	95119	95124	95129		
894	95134	95139	95143	95148	95153	95158	95163	95168	95173	95177		
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896	95231	95236	95240	95245	95250	95255	95260	95265	95270	95274	1	
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900	95424	95429	95434	95439	95444	95448	95453	95458	95463	95468		
901	95472	95477	95482	95487	95492	95497	95501	95506	95511	95516	l	
902	95521	95525	95530	95535	95540	95545	95550	95554	95559	95564	1	
903	95569	95574	95578	95583	95588	95593	95598	95602	95607	95612	l	
904	95617	95622	95626	95631	95636	95641	95646	95650	95655	95660	I	
905	95665	95670	95674	95679	95684	95689	95694	95698	95703	95708	l	
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907	95761	95766	95770	95775	95780	95785	95789	95794	95799	95804	l .	
908	95809	95813	95818	95823	95828	95832	95837	95842	95847	95852	l	
909	95856	95861	95866	95871	95875	95880	95885	95890	95895	95899	l	
910	95904	95909	95914	95918	95923	95928	95933	95938	95942	95947	İ	
911	95952	95957	95961	95966	95971	95976	95980	95985	95990	95995	l	
912	95999	96004	96009	96014	96019	96023	96028	96033	96038	96042	Ī	
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916	96190	96194	96199	96204	96209	96213	96218	96223	96227	96232	l	
917	96237	96242	96246	96251	96256	96261	96265	96270	96275	96280	l	
918	96284	96289	96294	96298	96303	96308	96313	96317	96322	96327		
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926	96708	96713	96717	96722	96727	96731	96736	96741	96745	96750		
928	96755	96759	96764	96769	96774	96778	96783	96788	96792	96797		
929	96802	96806	96811	96816	96820	96825	96830	96834	96839	96844	-	4
930	96848	96853	96858	96862					96886	96890		*
931	96895	96900	96904	96909	96867 96914	96872 96918	96876 96923	96881 96928	96932	96937	١, ١	0
932	96942	96946	96951	96956	96960	96965	96923	96928	96979	96984	1	0
933	96988	96993	96997	97002	97007	97011	97016	97021	97025	97030	2 3	1
934	97035	97039	97044	97002	97053	97011	97016	97021	97023	97077	4	1
935					-				97118	97123	5	2 2 3
	97081	97086	97090	97095	97100	97104	97109	97114		97123	6	9
936 937	97128	97132	97137	97142	97146	97151	97155	97160	$97165 \\ 97211$	97216	7	2
	97174	97179	97183	97188	97192	97197	97202	97206	97211	97216	8	3
938	97220	97225	97230	97234	97239	97243	97248	97253			9	4
939	97267	97271	97276	97280	97285	97290	97294	97299	97304	97308	17	-1
								-			-	
No.	0	1	-2	3	4	·)	6	7	8	9 1		

No. 9400-10000.

TABLE 42.

#### Logarithms of Numbers.

Log. 97313-99996,

										AUG. 21310-	939	, ,
No.	- ()	1	2	3	4	ò	6	7		. 9		
940	97313	97317	97322	97327	97331	97336	97340	97345	97350	97354		5
941	97359	97364	97368	97373	97377	97382	97387	97391	97396	97400	-	
942	97405	97410	97414	97419	97424	97428	97433	97437	97442	97447	1	1
943	97451	97456	97460	97465	97470	97474	97479	97483	97488	97493		1
941	97497	97502	97506	97511	97516	97520	97525	97529	97534	97539	2 3	0
945						97566	97571	97575	97580		4	2 2 3
	97543	97548	97552	97557	97562			07001		97585	5	-2
946 947	97589	97594	97598	97603	97607	97612 97658	97617 97663	97621	97626	97630	6	3
	97635	97640	97644	97649	97653			97667	97672	97676	7	4
948	97681	97685	97690	97695	97699	97704	97708	97713	97717	97722	ś	4
949	97727	97731	97736	97740	97745	97749	97754	97759	97763	97768	9	5
950	97772	97777	97782	97786	97791	97795	97800	97804	97809	97813	l :	
951	97818	97823	97827	97832	97836	97841	97845	97850	97855	97859	i	
952	97864	97868	97873	97877	97882	97886	97891	97896	97900	97905	ı	
953	97909	97914	97918	97923	97928	97932	97937	97941	97946	97950	l	
954	97955	97959	97964	97968	97973	97978	97982	97987	97991	97996	l	
955	98000	98005	98009	98014	98019	98023	98028	98032	98037	98041	l	
956	98046	98050	98055	98059	98064	98068	98073	98078	98082	98087	1	
957	98091	98096	98100	98105	98109	98114	98118	98123	98127	98132	1	
958	98137	98141	98146	98150	98155	98159	98164	98168	98173	98177	1	
959	98182	98186	98191	98195	98200	98204	98209	98214	98218	98223	1	
960	98227	98232	98236	98241	98245	98250	98254	98259	98263	98268	ı	
961	98272	98277	98281	98286	98290	98295	98299	98304	98308	98313	1	
962	98318	98322	98327	98331	98336	98340	98345	98349	98354	98358	ı	
963	98363	98367	98372	98376	98381	98385	98390	98394	98399	98403		
964	98408	98412	98417	98421		98430	98435	98439	98444	98448	ı	
965	98453	98457	98462	98466		98475	98480	98484	98489	98493		
								98529				
966	98498	98502	98507	98511	98516	98520	98525		98534	98538		
967	98543	98547	98552	98556	98561	98565	98570	98574	98579	98583	ı	
968	98588	98592	98597	98601	98605	98610	98614	98619	98623	98628		
969	98632	98637	98641	98646	98650	98655	98659	98664	98668	98673		
970	98677	98682	98686	98691	98695	98700	98704	98709	98713	98717		
971	98722	98726	98731	98735		98744	98749	98753	98758	98762		
972	98767	98771	98776	98780	98784	98789	98793	98798	98802	98807		
973	98811	98816	98820	98825	98829	98834	98838	98843	98847	98851		
974	98856	98860	98865	98869		98878	98883	98887	98892	98896	1	
975	98900	98905	98909	98914	98918	98923	98927	98932	98936	98941		
976	98945	98949	98954	98958	98963	98967	98972	98976	98981	98985	Ì	
977	98989	98994	98998	99003	99007	99012	99016	99021	99025	99029		
978	99034	99038	99043	99047	99052	99056	99061	99065	99069	99074		
979	99078	99083	99087	99092	99096	99100	99105	99109	99114	99118		
980	99123	99127	99131	99136	99140	99145	99149	99154	99158	99162		
981	99167	99171	99176	99180	99185	99189	99193	99198	99202	99207		
982	99211	99216	99220	99224	99229	99233	99238	99242	99247	99251		
983	99255	99260	99264	99269	99273	99277	99282	99286	99291	99295		
984	99300	99304	99308	99313	99317	99322	99326	99330	99335	99339		
985	99344	99348	99352	99357	99361	99366	99370	99374	99379	99383		
986	99388	99392	99396	99401	99405	99410	99414	99419	99423	99427		
987	99432	99436	99441	99145	99449	99454	99458	99463	99467	99471		
988	99476	99480	99484	99489	99493	99498	99502	99506	99511	99515		
989	99520	99524	99528	99533	99537	99542	99546	99550	99555	99559	-	-
-990	99564	99568	99572	99577	99584	99585	99590	99594	99599	99603		4
991					99625	99629	99634	99638			1	()
	99607	99612	99616	99621					99642	99647		
992	99651	99656	99660	99664	99669	99673	99677	99682	99686	99691	2 3	1
993	99695	99699	99704	99708	99712	99717	99721	99726	99730	99734	4	1
994	99739	99743	99747	99752	99756	99760	99765	99769	99774	99778	5	2 2 2 3
995	99782	99787	99791	99795	99800	99804	99808	99813	99817	99822	8	9
996	99826	99830	99835	99839	99843	99848	99852	99856	99861	99865		-
997	99870	99874	99878	99883	99887	99891	99896	99900	00004	99909	7	
998	99913	99917	99922	99926	99930	99935	99939	99944	99948	99952	8	3
999	99957	156996	99965	99970	99974	99978	99983	99987	99991	96666	9	4
L 1											-	
No.	0	1	2	8	4	5	6	7	8	9		

TABLE 43.

[Page 771

Logarithmic Sines, Tangents, and Secants to every Point and Quarter Point of the Compass.

Points.	Sine.	Cosine.	Tangent.	Cotangent.	Secant.	Cosecant.	
0	Inf. neg.	10.00000	Inf. neg.	Infinite.	10,00000	Infinite.	8
1	8, 69080	9, 99948	8, 69132	11,30868	10.00052	11.30920	73
1	8.99130	9, 99790	8.99340	11.00660	10,00210	11,00870	7 Å
34	9.16652	9, 99527	9.17125	10.82875	10.00473	10.83348	7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1
1	9. 29024	9. 99157	9, 29866	10, 70134	10, 00843	10, 70976	7
11	9, 38557	9, 98679	9.39879	10.60121	10.01321	10, 61443	63
13	9, 46282	9, 98088	9, 48194	10.51806	10.01912	10.53718	68
14	9. 52749	9, 97384	9, 55365	10, 44635	10.02616	10.47251	61
2	9, 58284	9, 96562	9, 61722	10, 38278	10, 03438	10, 41716	6
21	9.63099	9, 95616	9.67483	10, 32517	10.04384	10, 36901	$5\frac{3}{4}$
21	9.67339	9, 94543	9, 72796	10. 27204	10.05457	10.32661	51
2½ 2¾	9, 71105	9, 93335	9.77770	10.22230	10.06665	10.28895	5 } 5 }
3	9. 74474	9. 91985	9, 82489	10, 17511	10,08015	10, 25526	5
31	9.77503	9.90483	9,87020	10, 12980	10.09517	10, 22497	43
3 <u>i</u>	9, 80236	. 9. 88819	9.91417	10.08583	10.11181	10, 19764	4 %
34	9.82708	9.86979	9.95729	10.04271	10.13021	10.17292	4½ 4½
4	9. 84949	9. 84949	10.00000	10,00000	10. 15051	10. 15051	4
	Cosine,	Sine.	Cotangent.	Tangent.	Cosecant.	Secant.	Points.

Page	7721
- 250	• • • • •

TABLE 44.

1"_												1.90
М.	Houra, M.	Hon	irr, M.	Sine.	Diff. 1'.	Coverant.	Tangent.	Diff. I'	. Cotangent.	Securit	Cosine,	М.
()	12 0 0	0	0 0	Inf. neg.		Infinite.	Iní, neg.		Intinit	10, 00000	to oooo	60
ĭ	1 59 52	17	0 5	6, 46373	30103		6, 46373	20102	13, 50027	DOOG J	00000	59
9	50 44		0.16	76476	17609	23524		17609	23524	00000	DOOD	58
3	59 56		0.24	94085	12494	05915	94085	12494	05915	00000	00000	57
4	59.28		0.32	7, 06579	9691	12, 93421	7, 06579		12, 93421	00000	00000	56
-5	11 59 20	-1	0.40	7, 16270	7918	12, 83730	7, 16270	7918	12, 83730			55
6	59 32		0.48	24188	6694	75812	24155	6694	75812	00000	00000	54
7	59 4		0.56	30882	5800	69118	30882	5800	69118	00000	00000	53
` `	58 56		1 4	36682	5115	63318	36682	5115	63318	00000	00000	52
- 9	Jan 1900		1 12	41797	4576	58203	41797	4576	58203	00000	00000	51
10	11.58.40	11	1.20	7.46373	4139	12, 53627	7, 46373		12, 53627	10, 00000	10, 00000	50
11	58 32		1.28	50512	3779	49488	50512	3779	49488	00000	00000	49
12	58 24		1.36	54291	3476	45709	54291	3476	45709	00000	00000	48
13	55 16		1 44	57767	3218	42233	57767	3219	42233	00000	00000	47
14			1_52	60985	2997	39015	60986	2996		00000	00000	46
	11 58 0	()	$\frac{2}{9} = \frac{0}{8}$	7, 63982	2802	12, 36018	7, 63982	2803			10,00000	45
16 : 17	57 52 57 44		$\frac{2}{2} \cdot \frac{8}{16}$	66784 69417	2633 2483	33216	66785 69418	2633 2482	33215	00000	00000	44
18	57 36		2 16	71900	2348	28100	71900	2348	28100	00001	9, 99999	43 42
19	57 28		2 32	74248	2045	25752	74248	2228	25752	100001	99999	42
	11 57 20	0	2 40	7, 76475	2119	12, 23525	7, 76476	2119	12, 23524	10, 00001	9, 99999	40
21	57 12	.,	2 48	78594	2021	21406	78595	2020	21405	00001	99999	39
22	57 4		2.56	80615	1930	19385	80615	1931	19385	00001	99999	38
23	56 56		3 4	82545	1848	17455	82546	1848	17454	00001	99999	37
24	56 48		3 12	84393	1773	15607	84394	1773	15606	00001	99999	36
25	11 56 40	0	$3^{-}20$	7.86166	1704	12, 13834	7, 86167	1704	12, 13833	10, 00001	9, 99999	35
26	56, 32		3.28	87870	1639	12130	87871	1639	12129	00001	99999	34
27	56 24		3 36	89509	1579	10491	89510	1579	10490	00001	99999	-33
28	56 16		3 44	91088	1524	08912	91089	1524	08911	00001	99999	32
29	56 8		3 52	92612	1472	07388	92613	1473	07387	00002	99998	31_
30	11 56 0 55 52	()	4 0	7,94084	1424	12,05916	7, 94086	1424	12,05914	10, 00002	9, 99998	30
32	55 44		4 8 4 16	95508 96887	1379 1336	04492	95510 96889	1379 1336	04490 03111	00002	99998 99998	29 28
33	55 36		4 24	98223	1297	01777	98225	1297	01775	00002	99998	25
34	55.28		4 32	99520	1259	00480	99522	1259	00478	00002	99998	26
35	11 55 20	0	4 40	8, 00779		11.99221	8, 00781		11. 99219	10, 00002	9, 99998	25
36	55 12	**	4 48	02002	1190	97998	02004	1190	97996	00002	99998	24
37	55 4		4.56	03192	1158	96808	03194	1159	96806	00003	99997	23
38	54.56		5 4	04350	1128	95650	04353	1128	95647	00003	99997	22
39	54.45		5.12	05478	1100	94522	05481	1100	94519	00003	99997	21
40	11 54 40	0	5 20	8,06578	1072	11, 93422	8, 06581	1072	11.93419	10, 00003	9, 99997	20
41	54 32		5.28	07650	1046	92350	07653	1047	92347	00003	99997	19
42	54 24		5.36	08696	1022	91304	08700	1022	91300	00003	99997	18
43	54 16 54 8		5 41 5 52	09718	999	90282	09722	998	90278	00003	99997	17
44				10717	976	89283	10720	976	89280	00004	90006	16
46 46	11 54 0 53 52	()	6 0	8, 11693 12647	954 934	11. 88307 87353	8, 11696 12651	955 934	11, 88304 87349	10,00001	9, 99996 99996	15
47	58.44		6 16	13581	954	S(419)	13585	934	87349	00004	99996	14 13
48	5 1 36		6 21	14495	896	85505	14500	895	85500	00004	99996	12
49	5 ( 28		6.32	15391	877	54609	15395	878	84605	00004	99996	11
50	11 53 20	0	6.40	8, 16268		11, 83732	8, 16273	560	11. 83727	10, 00005	9. 99995	10
51	54 12		6.48	17128	843	82872	17133	843	82867	00005	99995	9
52	51 4		6.56	17971	827	82029	17976	828	82024	60005	99995	- 8
50	52, 56		7 4	18798	812	81202	15504	812	81196	00005	99995	7
51	52.48		7 12	19610 -		80390	19616	797	50384	00005	99995	- 6
55	U 52 30 -	()	7.20	5, 20407		11, 79593	8 20413	782	11,79587	10, 00006	9, 99994	- 5
56	52, 32		7.28	21189	769	78811	21195	769	78805	00006	56861	4
57	52 24 1 52 16 1		7 36	21958	755	78042	21964 22720	756	78036	00006	566644	3
58 59	52 46 52 8 I		7 44 7 52 i	22713 23456	743 730	77287 76541	22720	742 730	77280 76538	(80006	99994	1
60	52 0		5 0	24186	717	75814	24192	718	7550S	00007	999993	0
			,	~.11.40	111	100011	-11'-	1.10	411.5165	10000		ľ
М	Heuri M	Hon	r v M	F + P411141	Dist 11	Sentit	cotangent	DHT 11	Tangent	Cosecsut.	8 mc	M
. 1			-									
90												480

1780

М.	Hour A. M.	Hour P. M.	Sine.	Diff. 1'.	Cosecant.	Tangent.	Diff. 1'.	Cotangent.	Secant.	Cosine.	И.
0	11 52 0	0 8 0	8. 24186	717	11, 75814	8, 24192	718	11 75000	10.00007	0.00009	60
ĭ	51 52	8 8	24903	706	75097	24910	706	11. 75808 75090	10,00007 00007	9, 99993 99993	59
9	51 44	8 16	25609	695	74391	25616	696	74384	00007	99993	58
3	51 36	8 24	26304	684	73696	26312	684	73688	00007	99993	57
4	51 28	8 32	26988	673	73012	26996	673	73004	00008	99992	56
5	11 51 20	0 8 40	8, 27661	663	11, 72339	8, 27669	663	11.72331	10,00008	9, 99992	55
. 6	51 12	8 48	28324	653	71676	28332	654	71668	00008	99992	54
7	51 4	8.56	28977	644	71023	28986	643	71014	00008	99992	53
8	50-56	9 4	29621	634	70379	29629	634	70371	00008	99992	52
- 9	50 48	9 12	30255	624	69745	30263	625	69737	00009	99991	51
10	11 50 40	0 9 20	8. 30879	616	11.69121	8, 30888	617	11.69112	10.00009	9, 99991	50
11	50 32	9 28	31495	608	68505	31505	607	68495	00009	99991	49
12	50 24	9 36	32103	599	67897	32112	599	67888	00010	99990	48
13	50 16 50 8	9 44 9 52	32702 33292	590 583	67298 66708	32711 33302	591 584	67289 66698	00010 00010	99990	47
14										99990	46
15 16	11 50 0 49 52	$\begin{array}{cccc} 0 & 10 & 0 \\ 10 & 8 \end{array}$	8. 33875 34450	575 568	11.66125 65550	8. 33886 34461	575 568	11. 66114 65539	10.00010 00011	9, 99990 99989	45 44
17	49 44	10 16	35018	560	64982	35029	561	64971	00011	99989	43
18	49 36	10 10	35578	553	64422	35590	553	64410	00011	99989	42
19	49 28	10 32	36131	547	63869	36143	546	63857	00011	99989	41
20	11 49 20	0 10 40	8. 36678	539	11, 63322	8, 36689	540	11, 63311	10,00012	9, 99988	40
21	49.12	10 48	37217	533	62783	37229	533	62771	00012	99988	39
22	49 4	10 56	37750	526	62250	37762	527	62238	00012	99988	38
23	48 56	11 4	38276	520	61724	38289	520	61711	00013	99987	37
24	48 48	11 12	38796	514	61204	38809	514	61191	00013	99987	36
25	11 48 40	0 11 20	8. 39310 ·	508	11.60690	8. 39323	509	11.60677	10.00013	9.99987	35
26	48 32	11 28	39818	502	60182	39832	502	60168	00014	99986	34
27 28	48 24 48 16	11 36 11 44	40320	496 491	59680 59184	40334 40830	496 491	59666 59170	00014 00014	99986 99986	33 32
28 29	48 16	11 52	40816 41307	485	58693	41321	486	58679	00014	99985	31
30	11 48 0	0 12 0	8, 41792	480	11.58208	8. 41807	480	11. 58193	10. 00015	9, 99985	30
31	47 52	12 8	42272	474	57728	42287	475	57713	00015	99985	29
32	47 44	12 16	42746	470	57254	42762	470	57238	00016	99984	28
33	47 36	12 24	43216	464	56784	43232	464	56768	00016	99984	27
34	47 28	12 32	43680	459	56320	43696	460	56304	00016	99984	26
35	11 47 20	0 12 40	8. 44139	455	11.55861	8. 44156	455	11.55844	10.00017	9.99983	25
36	47 12	12 48	44594	450	55406	44611	450	55389	00017	99983	24
37	47 4	12 56	45044	445	54956	45061	446	54939	00017	99983	23
38	46 56	13 4	45489	441	54511	45507	441	54493	00018	99982	22 21
39	46 48	13 12	45930	436	54070	45948	437	54052	00018	99982	
40	11 46 40 46 32	0 13 20 13 28	8. 46366	433	11. 53634 53201	8. 46385	432 428	11. 53615 53183	10.00018 00019	9, 99982 99981	20 19
41 42	46 32 46 24	13 28 13 36	46799 47226	427 424	52774	$\frac{46817}{47245}$	428	52755	00019	99981	18
43	46 16	13 44	47650	419	52350	47669	420	52331	00019	99981	17
44	46 8	13 52	48069	416	51931	48089	416	51911	00020	99980	16
45	$11 \ 46 \ 0$	0 14 0	8. 48485	411	11, 51515	8, 48505	412	11.51495	10.00020	9.99980	15
46	45 52	14 8	48896	408	51104	48917	408	51083	00021	99979	14
47	45 44	14 16	49304	404	50696	49325	404	50675	00021	99979	13
48	45 36	14 24	49708	400	50292	49729	401	50271	00021	99979	12
49	45 28	14 32	50108	396	49892	50130	397	49870	00022	99978	11
50	11 45 20	0 14 40	8.50504	393	11.49496	8. 50527	393	11. 49473	10.00022	9. 99978	10
51 52	45 12	14 48 14 56	50897	390	49103	50920 51310	390 386	49080 48690	00023 00023	99977 99977	9 8
52 53	45 4 44 56	14 56 15 4	51287 51673	386 382	48713 48327	51696	383	48304	00023	99977	7
54	44 48	15 12	52055	379	47945	52079	380	47921	00023	99976	6
55	11 44 40	0 15 20	8, 52434	376	11. 47566	8, 52459	376	11. 47541	10.00024	9, 99976	5
. 56	44 32	15 28	52810	373	47190	52835	373	47165	00025	99975	4
57	44 24	15 36	53183	369	46817	53208	370	46792	00025	99975	3
58	44 16	15 44	53552	367	46448	53578	367	46422	00026	99974	$\frac{2}{1}$
59	44 3	15 52	53919	363	46081	53945	363	46055	00026	99974	
60	44 0	16 0	54282	360	45718	54308	361	45692	00026	99974	0
-				T. 1			Vi.109 - 51	/D	0	ole -	1
М.	Hour P. M.	Hour A. M.	Cosine.	Diff. 1'.	Secant.	Cotangent.	Diff. 1'.	Tangent.	Cosecant.	Sine.	М.
91°											220

Page	774]

### TABLE 44.

0										1779
М.	Hour A. M.   Hour P. M	Sine.	Diff. 1'.	Cosecant.	Tangent.	Diff. 1'.	Cotangent.	Secant.	Cosine	М.
0	11 44 0 0 16 0	8,54282	360	11, 45718	8, 54308	361	11. 45692	10.00026	9. 99974	60
1	43 52 16 8	54642	357	45358	54669	358	45331	00027	99973	59
2	43 44 16 16	54999	355	45001	55027	355	44973	00027	99973	58
3	43 36 16 24	55354	351	44646	55382	352	44618	00028	99972	57
-}	43 28 16 32	55705	349	44295	55734	349	44266	00028	99972	56
5	11 43 20 0 16 40	8, 56054	346	11, 43946	8, 56083	346	11, 43917	10.00029	9,99971	55
6	43 12 16 48	56400	343	43600	56429	344	43571	00029	99971	54
7	43 4 16 56	56743	341	43257	56773	341	43227	00030	99970	53
8	-42/56 = -17/4	57084	337	42916	57114	338	42886	00030	99970	52
9	42 48 17 12	57421	336	42579	57452	336	42548	00031	99969	51
0	11 42 40 0 17 20	8,57757	332	11.42243	8,57788	333	11.42212	10.00031	9, 99969	50
11	42 32 - 17 28	58089	330	41911	58121	330	41879	00032	99968	48
12	42 24 17 36	58419	328	41581	58451	328	41549	00032	99968	48
13	42 16 17 44	58747	325	41253	58779	326	41221	00033	99967	47
14	42 8 17 52	59072	323	40928	59105	323	40895	00033	99967	46
15	$11 \ 42 \ 0 \ 0 \ 18 \ 0$	8, 59395	320	11.40605	8, 59428	321	11.40572	10.00033	9, 99967	45
6	41 52 18 8	59715	318	40285	59749	319	40251	00034	99966	44
7	41 44 18 16	60033	316	39967	60068	316	39932	00034	99966	43
18	41 36 18 24	60349	313	39651	60384	314	39616	00035	99965	45
19	41 28 18 32	60662	_311_	39338	60698	311	39302	00036	99964	41
(0)	11 41 20 0 18 40	8, 60973	309	11.39027	8, 61009	310	11, 38991	10,00036	9, 99964	40
21	41 12 18 48	61282	307	38718	61319	307	38681	00037	99963	39
23	41 4 18 56 40 56 19 4	61589	305	38411	61626	305	38374	00037	99963	33
24		61894 62196	302	38106 37804	61931 62234	303	38069	00038	99962 99962	33
			301			301	37766	00038		
	11 40 40 0 19 20	8, 62497		11, 37503	8, 62535	299	11, 37465	10. 00039	9, 99961	3
6 7	40 32 19 28 40 24 19 36	62795 63091	296	37205 36909	62834	297 295	37166 36869	00039	99961 99960	3
S	40 16 19 44	63385	294 293	36615	63426	293	36574	00040	99960	3:
9	40 8 19 52	63678	290	36322	63718	291	36282	00040 00041	99959	3
30	11 40 0 0 20 0	8, 63968	288	11. 36032	8. 64009	289	11. 35991	10. 00041	9, 99959	30
31	39 52 20 8	64256	287	35744	64298	289	35702	00041	9, 99958	96
32	39 44 20 16	64543	284	35457	64585	285	35415	00042	99958	25
33	39 36 20 24	64827	283	35173	64870	284	35130	00043	99957	2
34	39 28 20 32	65110	281	34890	65154	281	34846	00044	99956	20
35	11 39 20 0 20 40	8, 65391	279	11. 34609	8, 65435		11. 34565	10, 00044	9, 99956	2
365	39 12   20 48	65670	277	34330	65715	278	34285	00045	99955	2
37	39 4 20 56	65947	276	34053	65993	276	34007	00045	99955	2
38	38.56, $21.4$	66223	274	33777	66269	274	33731	00046	99954	2:
351	38 48 21 12	66497	272	33503	66543	273	33457	00046	99954	2
10	11 38 40 0 21 20	8, 66769	270	11, 33231	8, 66816	271	11, 33184	10, 00047	9, 99953	20
1	38 32 21 28	67039	269	32961	67087	269	32913	00048	99952	11
2	38 24 21 36	67308	267	32692	67356	268	32644	00048	99952	1
3	38 16   21 44	67575	266	32425	67624	266	32376	00049	99951	1
- <b> </b>	38 8 21 52	67841	263	32159	67890	264	32110	00049	99951	1
5	11 38 0 0 22 0	8, 68104	263	11.31898	8, 68154	263	11, 31846	10,00050	9, 99950	1.
6	37/52 = 22/8	68367	260	31633	68417	261	31583	00051	99949	1
7	37 44 22 16	68627	259	31373	68678	260	31322	00051	99949	1
8	37/36 = 22/24	68886	258	31114	68938	258	31062	00052	99948	1
9	37 28 22 32	69144	256	30856	69196	257	30804	00052	99948	1
()	11 37 20 0 22 40	8, 69400	254	11, 30600	8, 69453	255	11.30547	10.00053	9,99947	-1
1	37 12 22 48	69654	253	30346	69708	254	30292	00054	99946	П
2	37 4 22 56	69907	252	30093	69962	252	30038	00054	99846	1
3	36 56 23 4	70159	250	29841	70214	251	29786	00055	99945	
4	36 48 - 23 12	70409	249	29591	70465	249	29535	00056	99944	
5	11 36 40 0 23 20	8, 70658	247	11, 29342	8, 70714	248	11, 29286	10, 00056	9, 99944	
6	36 32   23 28	70905	246	29095	70962	246	29038	00057	99943	
7	36 24 23 36	71151	244	28849	71208	245	28792	00058	99942	1
8	36 16 23 44 36 8 23 52	71395	243 242	28605 28362	71453	244	28547	00058 00059	99942 99941	1
59 50	36 8 23 52 36 0 24 0	71638 71880	242	28362 28120	71697 71940	243 241	28303 28060	00060	99940	١,
1()	50 0 24 0	/1580	240	20120	113640	241	=(J(N)()	(AAAA)	17(7)74(7)	1
м.	Hours M Housa M	Cosine.	biñ. Ľ.	Secant.	Cotangent		Tangent	Cosecant.	Sine.	X

3°				Log. O	nce, range	ents, and i	ecante	•			1760
М.	Honr A. M.	Hour P. M.	Sine.	Diff, 1'.	Cosecant.	Tangent.	Diff. 1'.	Cotangent.	Secant,	Cosine.	М.
0	11 36 0	0 24 0	8, 71880	240	11, 28120	8. 71940	241	11. 28060	10,00060	9. 99940	60
1	35 52	24 8	72120	239	27880	72181	239	27819	00060	99940	59
2 3	35 44 35 36	24 16 24 24	72359	238	27641	72420	239	27580	00061	99939	58
4	35 36 35 28	24 32	72597 72834	237 235	27403 27166	72659 72896	237 236	27341 27104	00062	99938 99938	57 56
5	11 35 20	0 24 40	8, 73069	234	11, 26931	8, 73132	234	11, 26868	10, 00063	9, 99937	55
-6	35 12	24 48	73303	232	26697	73366	234	26634	00064	99936	54
7	35 4	24 56	73535	232	26465	73600	232	26400	00064	99936	53
8	34 56 34 48	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73757 73997	230 229	26233 26003	73832 74063	231 229	26168 25937	00065	99935 99934	52 51
10	11 34 40	0 25 20	8, 74226	228	11, 25774	8, 74292	229	11, 25708	10, 00066	9, 99934	50
11	34 32	25 28	74454	226	25546	74521	227	25479	00067	99933	49
12	34 24	25 36	74680	226	25320	74748	226	25252	00068	99932	48
13 14	34 16 34 8	25 44 25 52	74906 75130	224 223	25094 24870	74974 75199	225 224	25026 24801	00068 00069	99932 99931	$\frac{47}{46}$
15	11 34 0	0 26 0	8. 75353	222	11. 24647	8, 75423	222	11. 24577	10,00070	9, 99930	45
16	33 52	26 8	75575	220	24425	75645	222	24355	00071	99929	44
17	33 44	26 16	75795	220	24205	75867	220	24133	00071	99929	43
18 19	33 36 33 28	26 24 26 32	76015 76234	219 217	23985 23766	76087 76306	219 219	23913 23694	00072	99928	42 41
$\frac{19}{20}$	11 33 20	0 26 40	8. 76451	216	11, 23549	8. 76525	$-\frac{219}{217}$	11. 23475	10,00074	99927 9, 99926	$\frac{41}{40}$
21	33 12	26 48	76667	216	23333	76742	216	23258	00074	99926	39
22	33 4	26 56	76883	211	23117	76958	215	23042	00075	99925	38
23 24	32 56	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	77097	213	22903	77173	214	22827	00076	99924	37
25	32 48 11 32 40	27 12 0 27 20	77310 8. 77522	$\frac{212}{211}$	22690 11, 22478	77387 8, 77600	$-\frac{213}{211}$	$\frac{22613}{11,22400}$	10, 00077	99923	36
26	32 32	27 28	77733	210	22267	77811	211	22189	00078	99922	34
27	32 24	27 36	77943	209	22057	78022	210	21978	00079	99921	33
28	32 16 32 8	27 44	78152	208	21848	78232	209	21768	00080	99920	32
30	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27 52 0 28 0	78360 8, 78568	208	$\frac{21640}{11,21432}$	78441 8, 78649	208	21559 11, 21351	00080	99920	$\frac{31}{30}$
31	31 52	28 8	78774	205	21226	78855	206 206	21145	10.00081	99918	29
32	31 44	28 16	78979	204	21021	79061	205	20939	00083	99917	28
33	31 36	28 24	79183	203	20817	79266	204	20734	00083	99917	27
$\frac{34}{35}$	31 28 11 31 20	28 32 0 28 40	79386 8, 79588	$\frac{202}{201}$	20614 11, 20412	79470 8, 79673	$\frac{203}{202}$	20530 -11, 20327	00084	99916	26 25
36	31 12	28 48	79789	201	20211	79875	202	20125	00086	9, 99915	25 24
37	31 4	28 56	79990	199	20010	80076	201	19924	00087	99913	23
38	30 56	29 4	80189	199	19811	80277	199	19723	00087	99913	22
39	30 48 11 30 40	0 29 20	80388 8, 80585	197	19612 11, 19415	80476 8, 80674	198	19524 11, 19326	10,00089	99912	21
41	30 32	29 28	80782	196	19218	80872	198	19128	00090	9. 99911	19
42	30 24	29 36	80978	195	19022	81068	196	18932	00091	99909	18
43	30 16	29 44	81173	194	18827	81264	195	18736	00091	99909	17
44	30 8 11 30 0	0 30 0	81367 8, 81560	$\frac{193}{192}$	18633 11, 18440	81459 8, 81653	$-\frac{194}{193}$	18541 11, 18347	10,00093	99908 9, 99907	$\frac{16}{15}$
46	29 52	30 8	81752	192	18248	81846	193	18154	00094	99906	14
47	29 44	30 16	81944	190	18056	82038	192	17962	00095	99905	13
48	29 36	30 24	82134	190	17866	82230	190	17770	00096	99904	12
<del>49</del> <del>50</del>	29 28 11 29 20	30 32	82324 8, 82513	$\frac{189}{188}$	17676 11. 17487	82420 8, 82610	$\frac{190}{189}$	$\frac{17580}{11.17390}$	10,00097	99904	$\frac{11}{10}$
51	29 12	30 48	82701	187	17299	82799	188	17201	00098	99902	9
52	29 4	30 56	82888	187	17112	82987	188	17013	00099	99901	8
53	28 56	31 4	83075	186	16925	83175	186	16825	00100	99900	
54	28 48	31 12 0 31 20	83261 8, 83446	185	16739	83361	$\frac{186}{185}$	16639	00101 $10.00102$	99899	5
55 56	11 28 40 28 32	0 31 20 31 28	83630	184 183	11. 16554 16370	8. 83547 83732	185	11. 16453 16268	00102	9, 99898	i 41
57	28 24	31 36	83813	183	16187	83916	184	16084	00103	99897	3
58	28 16	31 44	83996	181	16004	84100	182	15900	00104	99896	2 1
59 60	28 8 28 0	$\begin{array}{ccc} 31 & 52 \\ 32 & 0 \end{array}$	84177 84358	181 181	15823 15642	84282 84464	182 182	15718 15536	00105 00106	99895 99894	0
00	20 0	35 0	CTOUR	101	10042	(777)9	1.,_	10,410	0011/0		Ľ
М.	Hour P. M.	Hour A. M.	Cosine.	Diff. 1'.	Secant.	Cotangent.	Diff. 1'.	Tangent.	Cosecant.	Sine	М.
93°											860

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40										1750
М.	Hour A. M. Hour P. M.	Sine.	Diff. 1'.	Cosecant.	Tangent.	Diff. 1'.	'Cotangent.	Secant.	Cosine.	М.
0	11 28 0 0 32 0	8, 84358	181	11, 15642	8, 84464	182	11. 15536	10.00106	9, 99894	60
1	27 52   32 8	84539	179	15461	84646	180	15354	00107	99893	59
2	27 44 32 16	84718	179	15282	84826	180	15174	00108	99892	58
3	27 36   32 24	84897	178	15103	85006	179	14994	00109	99891	57
4	27 28 32 32	85075	177	14925	85185	178	14815	00109	99891	56
- 5	11 27 20 0 32 40	8, 85252	177	11, 14748	8, 85363	177	11, 14637	10, 00110	9, 99890	55
- 6	$27/12 \leftarrow 32/48$	85429	176	14571	85540	177	14460	00111	99889	54
7	27 4 32 56	85605	175	14395	85717	176	14283	00112	99888	53
-8	26 56 33 4	85780	175	14220	85893	176	14107	00113	99887	52
9	26 48 33 12	85955	173	14045	86069	174	13931	00114	99886	51
10	11 26 40 0 33 20	8, 85128	173	11.13872	8, 86243	174	11. 13757	10.00115	9, 99555	50
11	26 32 33 28	86301	173	13699	86417	174	13583	00116	99884	49
12	26 24 33 36	86474	171	13526	86591	172	13409	00117	99883	48
13	26 16 33 44	86645	171	13355	86763	172	13237	00118	99882	47
14	26 8 33 52	86816	171	13184	86935	171	13065	00119	99881	46
15	11 26 0 0 34 0	8, 86987	169	11.13013	8, 87106	171	11.12894	10,00120	9,99880	45
16	25 52 34 8	87156	169	12844	87277	170	12723	00121	99879	44
17	25 44 34 16	87325	169	12675	87447	169	12553	00121	99879	43
18	25 36 34 24	87494	167	12506	87616	169	12384	00122	99878	42
19	25 28 34 32	87661	168	12339	87785	168	12215	00123	99877	41
20	11 25 20 0 34 40	8, 87829	166	11.12171	8, 87953	167	11, 12047	10, 00124	9,99876	40
21	25 12 34 48	87995	166	12005	88120	167	11880	00125	99875	39
22	25 4 34 56	88161	165	11839	88287	166	11713	00126	99874	38
23	24 56 35 4	88326	164	11674	88453	165	11547	00127	99873	37
24	24 48   35 12	88490	164	11510	88618	165	11382	00128	99872	36
25	11 24 40 0 35 20	8, 88654	163	11, 11346	8, 88783	165	11, 11217	10,00129	9, 99871	35
26	24 32 35 28	88817	163	11183	88948	163	11052	00130	99870	34
27	24 24 35 36	88980	162	11020	89111	163	10889	00131	99509	33
28	24 16 35 44	89142	162	10858	89274	163	10726	00132	99868	32
29	24 8 35 52	89304	160	10696	89437	161	10563	00133	99867	31
30	11 24 0 0 36 0	8, 89464	161	11.10536	8, 89598	162	11.10402	10.00134	9, 99566	30
31	23 52 36 8	89625	159	10375	89760	160	10240	00135	99865	29
32	23 44 36 16	89784	159	10216	89920	160	10080	00136	99864	28
33	23 36 36 24 23 28 36 32	89943	159	10057	90080	160 159	09920	00137	99863	27 26
		90102	158	09898	90240		09760	00138	99862	
35	11 23 20 0 36 40	8, 90260	157	11, 09740	8, 90399	158	11, 09601	10, 00139		25
36 37	23 12 36 48 23 4 36 56	90417	157	09583	90557	158 157	09443	00140	99560	24 23
38		90574	156	09426	90715		09285	00141	99859	23
39	22 56 .37 4 22 48 37 12	90730 90885	155	09270 09115	90872 91029	157 156	09128 08971	00142 00143	99858 99857	21
			155							
40	11 22 40 0 37 20 22 32 37 28	8, 91040	155	11, 08960 08805	8,91185	155 155	11, 08815	10,00141	9, 99856 99855	20
41		91195	154		91340		08660	00145		19
42 43		91349 91502	153	08651	91495 91650	155 153	08505	00146	99854 99853	18 17
44	22 16 37 44 22 8 37 52	91655	153 152	08345	91803	154	08350 08197	00147 00148	99552	16
										15
45	11 22 0 0 38 0	8, 91807	152	11.08193	8, 91957	153 152	11, 08043	10, 00149	9, 99851 99850	
46 47	21 52 38 8 21 44 38 16	91959 92110	151 151	08044 07890	92110 92262	152 152	07890	00150 00152	99830	14 13
48	21 44   38 16 21 36   38 24	92110	. 450	07739	92414	151	07738 07586	00152	99847	12
49	21 28 38 32	92411	150	07589	92565	151	07435	00153	99546	lii
50					8, 92716	150	11, 07284			10
51	111 21 20 0 38 40 21 12 38 48	8,92561 92710	149	11, 07439 07290	8, 92716 92866	150	07134	30, 00155 00156 :	9, 99845	9
52	21 12 38 48	92710	149	07141	93016	149	07134	00157	99540	1 %
53	20 56 39 4	93007	147	06993	9:165	148	06835	00155	9984	7
54	20 36 38 4	93151	147	06816	90313	149	06687	00159	99841	6
55	11 20 40 0 39 20	8.93301	147	11, 06/892	8,90162	147	11.06538	10, 00160	9, 99540	5
56	20 32 - 39 28	93448	146	05552	90609	147	06391	00161	90,005-00	4
57	20 32 38 24	93591	146	06306	90756	117	062143	001621	989838	1 3
58	20 16 39 41	93740	145	06260	93903	146	06097	00163	995.17	3
59	20 10 38 41	93885	145	06115	94049	146	05951	00163	90836	ī
60	20 0 40 0	94030	144	05970	94195	145	05505	00166	986534	l ô
	20 0 30 0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.4.1	1616111	671367	1.4.7	641,1641	(7(7)(10)	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10	\ \ \ \ \
M	flour r w Hour v w	Cosme	Dist 1'	Secant	Cotampent	108 15	Tangent,	Cosecant	Sinc	M.
	110001 4 110001 4 4	1								
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Log. Sines, Tangents, and Secants.

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26         16         32         43         28         97629         57         02371         97825         58         02175         00196         1         99801         34           28         16         16         43         44         97894         61         02106         98092         62         01908         00197         1         99801         32           29         16         68         43         52         98026         64         01974         98225         64         01775         00199         1         99801         33           30         11         60         0         44         08         89828         68         01712         98490         69         01510         00202         1         99890         30           31         15         24         44         16         841         24         98549         72         014151         98522         71         011378         00203         1         99797         28           32         15         24         44         28         98679         75         01321         98884         75         01116         00205         1         99795 </th <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>					_								
27         16 24 4 43 36         97762 59         02238         97999 60         00 2041         00197 1         1 99803         33           28         16 16 43 44 97894 61         02106 9206         9802 62         01908 0198         1 99803         33           29         16 08 43 52         98026 64         01974 98225         64         01775 00199 1         99801         31           30 11 16 00 04 100         8 98588 68         68 01712         98490 69         01510 00202 1         99800         30           31 15 52 44 08         98288 68         68 01712         98490 69         01510 00202 1         99798 29         32           32 15 44 44 16         98419 70         01581 98622 71         01378 00203 1         99797 28         34           34 15 28 44 32         98679 75 01321 9884 75         01116 00205 1         99796 26         32           35 11 15 20 04 44 40 8,98308 77 70 1063 99145 80 00855 00200 1         99796 26         37         15 04 44 56         99066 81 00934 99275 82         200725 00209 1         99792 24           37 15 04 44 45 61 99144 83 00834 99275 82         00725 00209 1         99791 23         39 14 48 45 12 99322 86 00668 81 0034 9925         82 00725 00209 1         99790 22         39 14 48 45 61 20 99357 80 0066 9940 84         00406 0046 00212 1 99789 1 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th>											_		
99         16         08         43         52         98026         64         01974         98225         64         01775         00199         1         99801         31           30         11         16         00         04         00         8.98157         66         11.01843         8.98358         66         11.01642         10.00200         1         999800         30           32         15         44         44         16         98419         70         01581         98622         71         01378         00203         1         99798         29           34         15         28         44         32         98869         75         01321         9884         75         01116         00205         1         99795         26           35         11         52         04         44         8         98807         77         11.0192         8.9915         77         11.00985         10.00207         1         99795         26           35         11         52         04         44         48         98937         79         01063         99145         80         00855         00209         1	27	16 24				02238		60	02041				
30													
31         15         52         44         08         98288         68         01712         98490         69         01510         00202         1         99798         29           33         15         36         44         24         98549         72         01451         98678         73         01247         00203         1         99797         28           34         15         28         44         32         98679         75         01321         98884         75         0116         00204         1         99796         27           36         15         12         44         8         98837         79         01063         99145         80         00855         00208         1         99792         24           37         15         04         44         56         99066         81         00334         99275         82         00725         00209         1         99799         22           38         14         56         45         04         99194         83         00666         99405         84         00466         00212         1         9979979         21           40													
32   15 44   44 16   98419   70   01581   98622   71   01378   00203   1   99796   28   34   15 28   44 32   98679   75   01321   98884   75   01116   00205   1   99795   26   35   11   15 20   0 44 40   8,9808   77   11.01192   8,99015   77   11.00985   10.00207   1   99795   26   35   11   15 20   0 44 40   8,9808   77   11.01192   8,99015   77   11.00985   10.00207   1   99795   26   36   15 2   44 48   98937   79   01063   99145   80   00855   00208   1   99792   24   37   15 04   44 56   99066   81   00934   99275   82   00725   00209   1   99791   23   38   14 56   45 04   99194   83   00866   99405   84   00595   00210   1   99799   23   39   14 48   45 12   99322   86   00678   99534   86   00466   00212   1   99789   22   39   11   44 20   0 45 20   8,99450   88   10.00536   8,99662   89   11.00338   10.00213   1   99785   29   40   11   14 40   0 45 20   8,99450   88   11.00550   8,99662   89   11.00338   10.00213   1   99785   20   44   14 22   45 36   99704   92   00296   99919   93   00081   00215   1   99785   18   44   44   45 36   99704   92   00296   99919   93   00081   00215   1   99785   18   44   44   45   36   99956   96   00044   00174   97   99886   00216   1   99785   18   44   46   16   00332   103   99668   00046   95   10.99954   00217   1   99788   17   44   44   46   16   00332   103   99668   00553   104   99474   00222   1   99775   14   47   13   44   46   16   00332   103   99668   00553   104   99447   00222   1   99775   14   47   13   44   46   16   00332   103   99668   00553   104   99447   00222   1   99775   10   48   13   36   46   24   00456   105   99544   00679   106   99321   00223   1   99775   10   13   20   04 6 40   900704   110   10.99296   9.00301   10   99689   10.00219   1   99775   10   13   28   46 8 22   00588   107   99419   00805   108   99185   00222   1   99775   10   13   20   04 6 40   900704   110   900805   108   99185   00223   1   99775   10   11   12   40   04 72   0   900804   114   99849   01055   115   98851   00223   1   99775   10   11   1													
33         15 36         44 24         98549         72         01451         98753         73         01247         00204         1         99796         27           35         11 15 28         44 32         98679         75         01321         9884         75         01116         00205         1         99795         26           35         11 15 20         0 44 40         8.9808         77         11.0192         8.99015         77         11.00985         10.00207         1         9.9793         26           36         15 12         44 48         69066         81         00934         99275         82         00725         00725         00725         00209         1         99792         24           38         14 56         45 04         99194         83         00806         99405         84         00595         00201         1         99790         22           40         11 14 40         0 45 20         8.99450         88         11.00550         8.9962         89         11.0038         10.00213         1         9.99782         24           41         14 24         45 36         99704         92         00956													
34         15         28         44         32         98679         75         01321         98884         75         01116         00205         1         99795         26           35         11         15         20         044         40         8.98808         77         11.0192         8.99015         77         71         10.0985         10.00207         1         9.99793         25           37         15         04         44         56         99066         81         00934         99275         82         00725         00209         1         99792         24           38         14         56         45         04         99194         83         00806         99405         84         00595         00209         1         99791         23           39         14         48         45         12         99322         86         00678         99534         86         00466         00212         1         99789         21           40         11         14         24         45         28         99577         90         00223         99791         91         100209         00214         1													
36         15         12         44         48         98937         79         01063         99145         80         00855         00208         1         99792         24           37         15         04         44         56         99066         81         00934         99275         82         00725         00209         1         99791         23           38         14         56         45         04         99194         83         00806         99405         84         00595         00210         1         99790         92           39         14         48         12         99322         86         00678         99534         86         00466         00212         1         99785         20           41         14         32         45         28         99577         90         00423         99791         91         00208         00214         1         99785         19           42         14         24         53         99704         92         00296         99919         93         00081         00217         1         99785         19           43         14         6			44 32				98884			00205	1		26
37         15 04         44 56         99066         81         00834         99275         82         00725         00209         1         99791         23           38         14 56         45 04         99194         83         00806         99405         84         00595         00210         1         99790         22           39         14 48         45 12         99322         86         00678         99534         86         00466         00212         1         99788         21           40         11 14 40         04 520         8.99450         88         11.00338         10.00213         1         99788         21           41         14 32         45 53         99577         90         00423         99791         91         00008         00214         1         99788         21           42         14 24         45 36         99704         92         00396         99919         93         00081         00215         1         99788         18           43         14 16         45 52         99956         96         00044         00174         97         99826         00215         1         99783         17													
38         14         56         45         04         99194         83         00806         99405         84         00595         00210         1         99780         22           39         14         84         45         12         99322         86         00678         99534         86         00466         00212         1         99788         21           40         11         14         0         0.45         20         8.94507         88         11.00508         8.99662         89         11.00338         10.00213         1         9.99787         20           41         14         32         45         28         99577         90         00423         99791         91         00208         00215         1         99785         19           42         14         24         45         36         99704         92         00296         99919         93         00081         00217         1         99785         18           44         14         08         45         52         99956         00044         00174         97         99826         00217         1         99783         17													
39													
40         II 1 14 40         0 45 20         8.99450         88         II.00550         8.99682         89         II.00383         II.00213         I 1 9.99787         20           41         14 32         45 28         995777         90         00423         99791         91         00208         00211         1         99786         19           42         14 24         45 36         99704         92         00296         99919         93         00081         00215         1         99785         18           43         14 16         45 44         99830         94         00170         9.0046         95         10.99954         00217         1         99782         16           45         11 14 00         04 600         9.0082         99         10.99918         9.00301         100         10.99959         10.0219         1         99782         16           46         13 52         46 08         00207         101         99793         00427         102         99573         00229         1         99783         14           47         13 44         46 16         00332         103         9668         00553         104         99447													
41         14         32         45         28         99577         90         00423         99791         91         00209         00214         1         99785         19           42         14         24         45         36         99704         92         00296         99919         93         00081         00215         1         99785         18           43         14         16         45         54         99856         96         00044         00174         97         99826         00217         1         99782         16           45         11         40         0         0.46         0         9.00301         100         0.9698         10.00219         1         99782         16           46         13         52         46         08         00207         101         99793         0.0427         102         0.99689         10.00219         1         99782         16           46         13         36         46         24         0.0351         105         99648         0.06679         106         999321         0.0220         1         99777         12           49         13													
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		14 32	45 28	99577	90	00423		91			1		19
44         14         08         45         52         99956         96         00044         00174         97         99826         00218         1         99782         16           45         11         14         00         0.46         00         9.00082         99         10.09918         9.00301         100         10.99699         10.00219         1         9.99781         15           46         13         52         46         08         00207         101         999793         00427         102         99573         00220         1         997781         15           47         13         44         46         16         00332         103         99688         00553         104         99447         00222         1         997781         13           48         13         36         46         24         00456         105         99419         00805         108         99195         00224         1         99777         12           49         13         28         46         32         00581         107         99419         00805         110         99195         00224         1         99777         <													
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$													
51         13         12         46         48         00828         112         99172         01055         113         98943         00227         1         99773         9           52         13         04         46         56         09951         114         99894         01179         115         98821         00228         1         99772         8           53         12         56         47         04         01074         116         98896         01033         117         98697         00229         1         99771         7           54         12         48         47         12         01196         118         98804         01427         120         98573         00231         1         99769         6           55         11         24         04         20         9.01318         121         10.98682         9.01550         122         10.98450         10.00232         1         99768         5           56         12         32         47         28         01440         123         98500         01673         124         98327         00233         1         99767         5										9			1
52         13         04         46         56         00951         114         99049         01179         115         9821         00228.         1         99772         8           53         12         56         47         04         01074         116         98896         01203         117         98697         00229         1         99771         7           54         12         48         47         12         01196         118         98804         01427         120         98573         00231         1         99769         6           55         11         12         40         04         28         98600         01673         122         10         98450         10         90231         1         99769         6           56         12         24         47         28         01440         123         98500         01673         124         98327         00233         1         99765         5           57         12         24         47         36         01661         125         98399         01766         126         98204         00235         1         99763         3 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>													
53         12 56         47 04         0 1074         116         98926         01203         117         98897         00229         1         99771         7           54         12 48         47 12         0 1196         18         98804         01427         120         98573         00231         1         99769         6           55         11 12 40         0 47 20         9.01318         121         10.9882         9.01550         122         10.98450         10.00232         1         99765         5           56         12 32         47 28         01440         123         98560         01673         124         98327         00233         1         99767         4           57         12 24         47 36         01561         125         98439         01796         126         98204         00233         1         99767         4           58         12 16         47 44         01682         127         98318         0198         128         98082         00236         1         99763         3           59         12 08         47 52         01803         129         9817         02040         131         9760												99770	8
54         12         48         47         12         01196         118         98804         01427         120         98578         00231         1         99769         6           55         11         12         0         9.0158         121         10.98852         9.01550         122         10.98450         10.00232         1         99768         5           56         12         32         47         28         01440         123         98560         01673         124         98327         00233         1         99767         4           57         12         24         47         36         01561         125         98399         01766         126         98204         00233         1         99767         3           58         12         16         47         44         01682         127         98318         01918         128         98080         00236         1         99763         3           59         12         08         47         52         01803         129         98197         02040         131         97960         00237         1         99763         1           60										00229			7
56         12         32         47         28         01440         123         98560         01673         124         98327         00233         1         99767         4           57         12         24         47         36         01561         125         98439         01796         126         98204         00235         1         99765         3           58         12         16         47         44         01682         127         98318         01918         128         98082         00236         1         99764         2           59         12         08         47         52         01803         129         98197         02040         131         9760         00237         1         99763         1           60         12         00         48         00         01923         132         98077         02162         133         97838         00239         1         99761         0           M.         Hour F. M.         Hour A. M.         Cosine.         Diff.         Secant.         Cotangent. Diff.         Tangent.         Cosecant.         Diff.         Sine.         M.		12 48		01196									
57         12         24         47         36         01561         125         98439         01796         126         98204         00235         1         99763         3           58         12         16         47         44         01682         127         98318         01918         128         98082         00236         1         99763         2           59         12         08         47         52         01803         129         98197         02040         131         9760         00237         1         99763         1           60         12         00         48         00         01923         132         98077         02162         133         97838         00239         1         99761         0           M.         HOULE M.         HOULE M.         HOULE M.         HOULE M.         Costant.         Cotangent.         Diff.         Cotangent.         Diff.         Cotangent.         Costant.         Coseant.         Coseant.         Diff.         Secant.													
58         12 16         47 44         01682         127         98318         01918         128         98082         00236         1         99764         2           59         12 08         47 52         01803         129         98197         02040         131         97960         00237         1         99763         1           60         12 00         48 00         01923         132         98077         02162         133         97838         00239         1         99761         0           M.         Hour P. M.         Hour A. M.         Cosine.         Diff.         Secant.         Cotangent.         Diff.         Cosecant.         Diff.         Sine.         M.					123								1 4
59         12         08         47         52         01803         129         98197         02040         131         97960         00237         1         99763         I           60         12         00         48         00         01923         132         98077         02162         133         97838         00239         1         99761         0           M.         HOUF F. M.         HOUF A. M.         Cosine.         Diff.         Secant.         Cotangent. Diff.         Tangent.         Cosecant.         Diff.         Sine.         M.													9
60 12 00 48 00 01923 132 98077 02162 133 97838 00239 1 99761 0 M. Hour F. M. Hour A. M. Cosine, 'Diff. Secant, Cotangent, Diff. Tangent, Cosecant, Diff. Sine. M.													
													0
	м.	Hour P. M	Hour A. M	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Ditī.	- Sine.	M.
φυ <u>A</u> A D D ( 14													1
	900			A		А	D		17	` `			-1

Seconds of time	1.	2 :	3 •	4 *	5+	6 *	7 *
Prop. parts of cols.   A B	16	33 33	49 50	66 66	82 83	100	115 116

Page 778]

TABLE 44.

6.			. A		A	В		В	c		С	173°
М.	Hour a. M. 1	Iour P. M	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	11 12 00 (	) 48 00	9, 01923	0	10. 98077	9. 02162	0	10. 97838	10, 00239	0	9, 99761	60
1	11 52	48 08	02043	2	97957	02283	- 2	97717	00240	o i	99760	59
9	11 41	48 16	02163	4	97837	02404	4	97596	00241	0	99759	58
3	11.36	18 24	02283	15	97717	02525	6	97475	00243	0	99757	57
4	11 25	48 32	02402	7	97598	02645	8	97355	00244	ŏ	99756	56
-5		1 45 40	9, 02520	. 9	10.97480	9, 02766	- 9	10.97234	10.00245	0	9, 99755	55
6	11 12	48 48	02639	. 11	97361	02885	- 11	97115	00247	0	99753	54
7	11 04	48 56	02757	13	97243	03005	13	96995	00248	0	99752	53
- i	10.56	49 04	02874	15	97126	03124	15	96876	00249	0	99751	52
9	10.48	49 12	02992	17	97008	03242	17	96758	00251	0	99749	51
10	11 10 40 1	) 49 20	9, 03109	19	10, 96891	9, 03361	19	10, 96639	10,00252	0	9, 99748	50
11	10 32	49 28	03226	20	96774	03479	21	96521	00253	0	99747	49
12	10.24 .	49.36	03342	1313	96658	03597	23	96403	00255	0	99745	48
13	10 16	49 44	03458	24	96542	03714	24	96286	00256	0	99744	47
14	10.08	49.52	03574	26	96426	03832	26	96168	00258	0	99742	46
15	11 10 00 : 0	1	9, 03690	28	10.96310	9.03948	28	10.96052	10, 00259	0	9, 99741	45
16	9.52	50.08	03805	30	96195	04065	30	95935	00260	0	99740	44
17	9 44	50 16	03920	31	96080	04181	32	95819	00262	0	99738	43
18	9.36	50 24	04034	33	95966	04297	34	95703	00263	Ů,	99737	42
19	9.28	50.32	04149	35	95851	04413	36	95587	00264	0	99736	41
20		) 50 40	9, 04262		10, 95738	9, 04528	38	10, 95472	10,00266	0	9, 99734	40
21	9 12	50 48	04376	39	95624	04643	39	95357	00267	1	99733	39
1)+)	9 04	50.56	04490	41	95510	04758	41	95242	00269	i	99731	38
23	5.56	51 01	04603	43	95397	04873	43	95127	00270	i i	99730	37
24	8.48	51 12	04715	44	95285	04987	45	95013	00272	l i	99728	36
25		51 20	9, 04828	46	10.95172	9. 05101	47	10, 94899	10, 00273	1	9. 99727	35
26	8 32	51 28	04940	18	95060	05214	49	94786	00274	i	99726	34
27	9 24	51 36	05052	50	94948	05328	51	94672	00276	l î	99724	33
28	8 16	51 44	05164	52	94836	05441	53	94559	00277	i	99723	32
99	5 (15	51.52	05275	54	94725	05553	54	94447	00279	l î	99721	31
30	i1 5 00 0	52 00	9, 05386	56	10.94614	9. 05666	56	10, 94334	10.00280	1	9, 99720	30
31	7.52	52 08	05497	57	94503	05778	58	94222	00282	l i	99718	29
32	7 14	52 16	05607	59	94393	05890	60	94110	00283	i	99717	28
33	7.36	52 24	05717	61	94283	06002	62	93998	00284	l i	99716	27
31	7.28	52 32	05827	63	94173	06113	64	93887	00286	1	99714	26
35		52.40	9, 05937	65	10.94063	9.06224	titi	10.93776	10,00287	1	9.99713	25
385	7 12	52 48	06046	67	93954	06335	68	93665	00289	i i	99711	24
37	7 04	52 56	06155	69	93845	06445	69	93555	00290	i	99710	23
35	6.56	53 01	06264	70	93736	06556	71	93441	00292	1	99708	90
39	6.48	53 12	06372	72	503628	(166666	73	93334	00293	( 1	99707	21
40	11 6 40 0	0.53.20	9,06481	7.4	10, 93519	9,06775	. 75	10.93225	10, 00295	1	9, 99705	20
41	6.32	53.28	06589	76	93111	06885	77	93115	00296	i	99704	19
12	6.21	53 36	06696	78	93304	06994	79	93006	00298	1	99702	18
433	6 16	53 44	06804	80	93196	07103	81	92897	00299	1	99701	17
44	6.08	53 52	06911	81	93089	07211	83	92789	00301	1 1	99699	16
45	11 6 00 0	0.54 00	9.07018	83	10, 92982	9, 07320	84	10.92680	10. 00302	1 1	9, 99698	15
46	5.52	51.08	07124	85	92876	07428	86	92572	00304	i	99696	14
47	5.44	51 16	07231	87	92769	07536	15%	92464	00305	1	99695	13
45	5.36	54 24	07337	89	92663	07643	90	92357	00307	i	99693	12
49	5.28	54-32	07442	91	92558	07751	92	92249	00308	1 1	99692	11
50		1.51.40	9, 07548	93	10, 92452	9, 07858	91	10,92142	10, 00310	- 1	9, 99690	10
51	5 12	51.48	07653	94	92347	07964	96	92036	00311	i	99659	9
52	5.04	54 56	07758	1915	92242	08071	98	91929	00313	i	99657	1 4
53	1.56	55 04	07863	918	92137	08177	99	91823	00314	1	99686	1 7
54	1.48	55 12	07968	100	92032	08283	101	91717	00316	1	99684	- 6
55	11 4 10 0	3.55-20	9, 08072	102	$\tilde{10}$ , 91928	9, 05389	103	10.91611	10, 00317		9, 99653	5
56	4 32	55 28	08176	104	91824	08495	105	91505	00319	i	99651	1
57	4 24	55 36	08280	Loni	91720	05600	107	91400	00320	i	99650	3
58	4 16	55 44	08383	107	91617	08705	109	91295	00322	1	99678	2
59	4.05	55 52	08486	109	91514	08810	111	91190	00323	1	199677	1
60	4 00	56.00	08589	111	91111	08911	113	91086	00325	1	99675	-0
				8 41 47			1.45*					1
М	Hours w 1	Sour v. M.	Costme.	Diff		1	Hill	Tangent	Cosequit	DitT	Sine.	М
5943			Α.		\	11		H	€		C	430

Seconds of time	1 .	5.	3+	1.	5.	6.	71
Prop. parts of cols. $\begin{cases} A \\ B \\ C \end{cases}$	11	254	4.2	56	69	4,5	97
Prop. parts of cols, s B	1.1	12%	1.1	56	70	54	124
10	- 0	0	1	1	1	1	1

70			A		Α	В		В	C		С	1720
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	11 4 0	0.56 0	9, 08589	0	10, 91411	9, 08914	0	10, 91086	10, 00325	0	9, 99675	60
1	3 52	56 8	08692	2	91308	09019	2	90981	00326	0	99674	59
2	3 44	56 16	08795	3	91205	09123	3	90877	00328	0	99672	58
3	3 36	56 24	08897	5	91103	09227	- 5	90773	00330	0	99670	57
4	3 28	56 32	08999	6	91001	09330	7	90670	00331	0	99669	56
-5	11 3 20	0.56.40	9, 09101	8	10, 90899	9, 69434	8	10. 90566	10, 00333	0	9, 99667	55
6	3 12	56.48	09202	10	90798	09537	10	90463	00334	0	99666	54
7	3 4	56 56	09304	11	90696	09640	11	90360	00336	0	99664	53
8	2 56	57 4	09405	13	90595	09742	13	90258	00337	0	99663	52
9	2 48	57 12	09506	14	90494	09845	15	90155	00339	()	99661	51
10	11 - 2 - 40	0.57.20	9, 09606	16	10.90394	9, 09947	16	10.90053	10.00341	-0	9, 99659	50
11	2 32	57 28	09707	18	90293	10049	18	89951	00342	-0	99658	49
12	2 24	57.36	09807	19	90193	10150	20	89850	00344	0	99656	48
13	2 16	57 44	09907	21	90093	10252	21	89748	00345	0	99655	47
14	2 8	57 52	10006	22	89994	10353	23	89647	00347	0	99653	46
15	11 2 0	0.58 - 0	9.10106	24	10.89894	9. 10454	24	10.89546	10.00349	0	9, 99651	45
16	1 52	58 8	10205	26	89795	10555	26	89445	00350	0	99650	44
17	1 44	$58 \cdot 16$	10304	27	89696	10656	28	89344	00352	0	99648	43
18	1 36	58 - 24	10402	29	89598	10756	29	89244	00353	1	99647	42
19	1 28	58 32	10501	30	89499	10856	31	89144	00355	1	99645	41
20	11 1 20	0 58 40	9. 10599	32	10, 89401	9. 10956	33	10.89044	10, 00357	1	9, 99643	40
21	1 12	58 48	10697	34	89303	11056	34	88944	00358	1	99642	39
22	1 4	58 56	10795	35	89205	11155	36	88845	00360	1	99640	38
23	0.56	59 4	10893	37	89107	11254	37	88746	00362	1	99638	37
24	0.48	59 12	10990	38	89010	11353	39	88647	00363	1	99637	36
25	11 0 40	0 59 20	9.11087		10. 88913	9,11452	41	10. 88548	10,00365	1	9. 99635	35
26	0 32	59 28	11184	42	88816	11551	42	88449	00367	1	99633 99632	34
27	0 24	59 36	11281	43	88719	11649	44 46	88351 88253	00368 00370	1	99630	32
28	0 16	59 44 59 52	11377	45 46	88623 88526	11747 11845	47	88155	00370	1	99629	31
29			11474				49		10. 00373	1	9, 99627	30
30	11 0 0	1 0 0	9. 11570	48 50	10. 88430 88334	9. 11943 12040	51	10, 88057 87960	00375	1	99625	29
31	10 59 52	0 8	11666	51	88239	12040	52	87862	00376	1	99624	28
32 33	59 44 59 36	0 16 0 24	$11761 \\ 11857$	53	88143	12235	54	87765	00378	i	99622	27
34	59 28	0 32	11952	54	88048	12332	55	87668	00380	î	99620	26
35			9. 12047	56	10. 87953	9. 12428	57	10, 87572	10.00382	1	9. 99618	25
36	10 59 20 59 12	1 0 40 0 48	12142	58	87858	12525	59	87475	00383	1	99617	24
37	59 4	0 56	12236	59	87764	12621	60	87379	00385	1	99615	23
38	58 56	1 4	12331	61	87669	12717	62	87283	00387	î	99613	22
39	58 48	1 12	12425	62	87575	12813	64	87187	00388	î	99612	21
40	10 58 40	1 1 20	9. 12519	64	10. 87481	9, 12909	65	10.87091	10,00390	1	9, 99610	20
41	58 32	1 28	12612	66	87388	13004	67	86996	00392	î	99608	19
42	58 24	1 36	12706	67	87294	13099	68	86901	00393	1	99607	18
43	58 16	1 44	12799	69	87201	13194	70	86806	00395	1	99605	17
44	58 8	1 52	12892	70	87108	13289	72	86711	00397	1	99603	16
45	10 58 0	1 2 0	9. 12985	72	10.87015	9.13384	73	10, 86616	10.00399	1	9, 99601	15
46	57 52	2 8	13078	74	86922	13478	75	86522	00400	1	99600	14
47	57 44	2 16	13171	75	86829	13573	77	86427	00402	1	99598	13
48	57 36	2 24	13263	77	86737	13667	78	86333	00404	1	99596	12
49	57 28	2 32	13355	78	86645	13761	80	86239	00405	1	99595	11
50	10 57 20	1 2 40	9. 13447	80	10.86553	9. 13854	81	10, 86146	10.00407	1	9.99593	10
51	57 12	2 48	13539	82	86461	13948	83	86052	00409	1	99591	9
52	57 4	2 56	13630	83	86370	14041	85	85959	00411	1	99589	8
53	56 56	3 4	13722	85	86278	14134	86	85866	00412	1	99588	7
54	56 48	3 12	13813	87	86187	14227	88	85773	00414	2	99586	6
55	$10 \ 56 \ 40$	1 3 20	9, 13904	88	10.86096	9, 14320	90	10, 85680	10, 00416	2	9, 99584	5
56	56 32	3 28	13994	90	86006	14412	91	85588	00418	2 2	99582	3
57	56 24	3 36	14085	91	85915	14504	93	85496 85403	00419 00421	2	99581 99579	2
58	56 16	3 44	14175	93	85825	14597	95 96	85312	00421	2	99577	li
59	56 8	3 52	14266	95	85734	14688	98	85312 85220	00425	2	99575	0
60	56 0	4 0	14356	96	85644	14780	510	00220	00420		300(0)	_ "
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
							-			_	С.	0,00
979			A		A	В		В	C		(° .	450
			-									

Seconds of time	1.	21	3.	4.	ő,	64	73
Prop. parts of cols. (AB)	12	21	36	45	60	72	\$4
	12	21	37	49	61	78	86
	0	0	1	1	1	1	1

Page 780] TABLE 44. Log. Sines, Tangents, and Secants. A B C

0 10 1 2 3 4 4 5 10 6 6 7 8 9 10 10 11 12 13 14 14 15 10 15 10 17 18 19 20 10 21 22 23 22 24	our A, M.  56 0  55 54  55 54  55 20  55 12  55 14  54 56  54 40  54 32  54 16  54 8  54 8  54 8  54 8  54 8  54 8  54 8  54 8  54 8  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38  55 38	Hour r. st.  1	Sine. 9, 14346 14447 14535 14624 14714 9, 14803 14891 14980 15069 15157 9, 15245 15383 15421 15508 15508 15700 15857 15944 16030	0 1 3 4 6 7 8 10 11 13 14 16 17 18 20 21 22 24 25	Cosecant. 10. 85644 85555 85465 85576 85286 10. 85197 85109 85020 84843 10. 84755 84667 84579 84402 84401 10. 84317 84230	Tangent. 9, 14780 14872 14963 15054 15145 9, 15236 15327 15417 15508 15598 9, 15887 15777 15867 15956 9, 16135	0 1 3 4 6 7 9 10 12 13 -14 16 17 19 20	Cotangent. 10, 85220 85128 85037 84946 84855 10, 84764 84673 84583 84492 84402 10, 84312 84223 84133 84044	Secant.  10, 00425 00426 00428 00430 00432 10, 00434 00435 00437 00439 00444 00446 00448	0 0 0 0 0 0 0 0 0 0 0 0 0	Cosine.  9. 99575 99574 99572 99570 99568  9. 99565 99565 99561 99559 9. 99557 99556	M. 60 59 58 57 56 55 54 53 52 51 50 49
1 2 3 4 4 10 10 10 11 12 13 14 15 16 17 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	55 52 55 44 55 28 55 28 55 28 55 12 55 4 54 54 56 54 40 54 22 54 24 54 16 54 8 54 8 54 8 54 8 54 8 54 8 54 8 54 8	4 8 4 16 4 24 4 32 1 4 40 4 4 56 6 5 4 4 5 6 5 5 2 6 6 8 6 6 24 6 32 1 6 40 6 48	14445 * 14535   14624   14714   9.14803   14891   14980   15069   15157   9.15245   15333   15421   15596   9.15583   15770   15857   15944	1 3 4 6 7 8 10 11 13 14 16 17 18 20 21 23 24	85555 85465 85376 85286 10, 85197 85109 85020 84931 84843 10, 84755 84667 84579 84492 84492 84494 94404 10, 84317	14872 14963 15054 15145 9, 15236 15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	1 3 4 6 7 9 10 12 13 14 16 17 19	8512× 85037 84946 84855 10, 84764 84573 84583 84492 84492 10, 84312 84233 8444	00426 00428 00430 00432 10, 00434 00435 00437 00443 00441 10, 00443 00444	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99574 99572 99570 99568 9, 99565 99563 99563 99559 9, 99557 99556	59 58 57 56 55 54 53 52 51 50 49
1 2 3 4 4 10 10 10 11 12 13 14 15 16 17 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	55 52 55 44 55 28 55 28 55 28 55 12 55 4 54 54 56 54 40 54 22 54 24 54 16 54 8 54 8 54 8 54 8 54 8 54 8 54 8 54 8	4 8 4 16 4 24 4 32 1 4 40 4 4 56 6 5 4 4 5 6 5 5 2 6 6 8 6 6 24 6 32 1 6 40 6 48	14445 * 14535   14624   14714   9.14803   14891   14980   15069   15157   9.15245   15333   15421   15596   9.15583   15770   15857   15944	3 4 6 7 8 10 11 13 14 16 17 18 20 21 23 24	85555 85465 85376 85286 10, 85197 85109 85020 84931 84843 10, 84755 84667 84579 84492 84492 84494 94404 10, 84317	14872 14963 15054 15145 9, 15236 15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	3 4 6 7 9 10 12 13 -14 16 17 19	8512× 85037 84946 84855 10, 84764 84573 84583 84492 84492 10, 84312 84233 8444	00426 00428 00430 00432 10, 00434 00435 00437 00443 00441 10, 00443 00444	0 0 0 0 0 0 0 0 0 0 0	99574 99572 99570 99568 9, 99565 99563 99563 99559 9, 99557 99556	58 57 56 55 54 53 52 51 50 49
2 3 4 10 10 10 10 11 12 13 14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	55 36 55 28 55 28 55 12 55 4 54 56 54 48 54 40 54 32 54 24 54 16 54 40 54 32 54 24 55 3 36 53 28 53 28 53 28 53 28 53 28	1 4 24 4 32 1 4 48 4 48 5 5 12 1 5 20 5 36 5 44 5 5 5 2 1 6 0 6 8 6 16 6 24 6 32 1 6 48	14624 14714 9, 14803 14891 14980 15069 15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	$\begin{array}{c} 4 \\ 6 \\ \hline 7 \\ 8 \\ 10 \\ 11 \\ 13 \\ \hline 14 \\ 16 \\ 17 \\ 18 \\ 20 \\ 21 \\ 23 \\ 24 \\ \end{array}$	\$5376 \$5286 10, \$5197 \$5109 \$5020 \$4931 \$4843 10, \$4755 \$4667 \$4579 \$4404 10, \$4317	15054 15145 9, 15236 15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	4 6 7 9 10 12 13 14 16 17 19	54946 54855 10, 84764 84673 84583 84402 10, 84312 84223 84133 84044	00430 00432 10, 00434 00435 00437 00439 00441 10, 00443 00444	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99570 99568 9, 99566 99565 99563 99561 99559 9, 99557 99556	57 56 55 54 53 52 51 50 49
3 4 10 10 17 7 8 9 10 11 12 13 14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 4 24 4 32 1 4 48 4 48 5 5 12 1 5 20 5 36 5 44 5 5 5 2 1 6 0 6 8 6 16 6 24 6 32 1 6 48	14714 9, 14803 14891 14980 15069 15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15954	$\begin{array}{r} -6 \\ -7 \\ 8 \\ 10 \\ 11 \\ 13 \\ \hline 14 \\ 16 \\ 17 \\ 18 \\ 20 \\ 21 \\ 23 \\ 24 \\ \end{array}$	85286 10, 85197 85109 85020 84931 84843 10, 84755 84667 84579 84492 84404 10, 84317	15145 9, 15236 15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	6 7 9 10 12 13 14 16 17 19	\$4855 10, 84764 84673 84583 84492 84402 10, 84312 84223 84133 84044	00432 10, 00434 00435 00437 00439 00441 10, 00443 00444	$= \frac{0}{0}$ $= \frac{0}{0}$ $= \frac{0}{0}$ $= \frac{0}{0}$ $= \frac{0}{0}$	99568 9, 99566 99565 99563 99561 99559 9, 99557 99556	56 55 54 53 52 51 50 49
5 10 6 7 7 8 9 10 10 10 112 13 14 14 15 10 16 17 18 19 19 20 10 21 22 23 24 24 25 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	55 20 55 12 55 4 54 54 54 54 54 48 54 40 54 24 54 16 54 24 54 16 53 52 53 34 53 28 53 28 53 20 53 12 53 4 52 53 4 52 53 4 52 53 4 52 53 4 52 53 4	1 4 40 4 48 4 56 5 4 5 12 1 5 20 5 28 5 36 5 44 5 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 48	9, 14803 14891 14980 15069 15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	7 8 10 11 13 14 16 17 18 20 21 23 24	10. 85197 85109 85020 84931 84843 10. 84755 84667 84579 84492 84404 10. 84317	9, 15236 15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	7 9 10 12 13 14 16 17 19	10, 84764 84673 84583 84492 84402 10, 84312 84223 84133 84044	10, 00434 00435 00437 00439 00441 10, 00443 00444 00446	0 0 0 0 0 0 0	9, 99566 99565 99563 99561 99559 9, 99557 99556	55 54 53 52 51 50 49
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 10 21 22 23 24 25 10 27 28 29 30 31 33 33	$\begin{array}{c} 55 \ 12 \\ 55 \ 4 \\ 55 \ 4 \\ 54 \ 56 \\ 54 \ 56 \\ 54 \ 48 \\ 54 \ 40 \\ 54 \ 32 \\ 54 \ 16 \\ 54 \ 8 \\ 54 \ 0 \\ 53 \ 54 \\ 53 \ 36 \\ 53 \ 20 \\ 53 \ 12 \\ 53 \ 4 \\ 52 \ 56 \\ 52 \ 48 \\ \end{array}$	4 48 4 56 5 4 5 12 1 5 20 5 36 5 34 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40	14891 14980 15069 15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	8 10 11 13 14 16 17 18 20 21 23 24	85109 85020 84931 84843 10, 84755 84667 84579 84402 84404 10, 84317	15327 15417 15508 15598 9, 15688 15777 15867 15956 16046	9 10 12 13 14 16 17 19	84673 84583 84492 84402 10, 84312 84223 84133 84044	00435 00437 00439 00441 10, 00443 00444 00446	$\begin{array}{c} 0 \\ 0 \\ 0 \\ -0 \\ 0 \\ 0 \\ 0 \end{array}$	99565 99563 99561 99559 9, 99557 99556	54 53 52 51 50 49
7 8 9 10 10 11 12 13 14 14 15 16 17 18 19 20 10 22 23 24 25 10 27 28 29 20 33 32 33 33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 56 5 4 5 12 1 5 28 5 36 5 44 5 52 1 6 8 6 16 6 24 6 32 1 6 40 6 48	14980 15069 15157 9.15245 15333 15421 15508 15596 9.15683 15770 15887 15944	10 11 13 14 16 17 18 20 21 23 24	85020 84931 84843 10, 84755 84667 84579 84492 84404 10, 84317	15417 15508 15598 9, 15688 15777 15867 15956 16046	10 12 13 14 16 17 19	84583 84402 84402 10,84312 84223 84133 84044	00437 00439 00441 10, 00443 00444 00446	0 0 0 0 0 0	99563 99561 99559 9, 99557 99556	53 52 51 50 49
8 9 10 10 11 12 13 14 15 16 16 17 18 19 10 20 20 20 20 20 20 20 20 20 30 10 31 32 33 33	54 56 54 48 54 40 54 32 54 24 54 16 54 8 54 0 53 36 53 28 53 28 53 28 53 12 53 12 55 48	5 4 5 12 1 5 20 5 28 5 36 5 44 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	15069 15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	11 13 14 16 17 18 20 21 23 24	84931 84843 10, 84755 84667 84579 84492 84404 10, 84317	15508 15598 9, 15688 15777 15867 15956 16046	12 13 14 16 17 19	84492 84402 10,84312 84223 84133 84044	00439 00441 10, 00443 00444 00446	$-\frac{0}{0}$	99561 99559 9, 99557 99556	52 51 50 49
9   10   10   11   12   13   14   15   10   16   17   18   19   20   10   22   23   22   25   26   27   28   29   30   10   31   32   33   33   33	54 48 54 40 54 32 54 16 54 16 54 8 54 0 53 52 53 36 53 28 53 20 53 12 53 56 52 48	5 12 1 5 20 5 28 5 36 5 44 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	15157 9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	13 14 16 17 18 20 21 23 24	84843 10, 84755 84667 84579 84492 84404 10, 84317	15598 9, 15688 15777 15867 15956 16046	13 14 16 17 19	84402 10, 84312 84223 84133 84044	00441 10, 00443 00444 00446	$-\frac{0}{0}$	99559 9, 99557 99556	51 50 49
10 10 11 12 13 14 15 16 16 17 18 19 10 20 10 21 22 22 23 24 10 25 10 30 10 31 32 33 33	$\begin{array}{c} 54\ 40 \\ 54\ 32 \\ 54\ 24 \\ 54\ 16 \\ 54\ 16 \\ 54\ 0 \\ 53\ 52 \\ 53\ 36 \\ 53\ 28 \\ 53\ 20 \\ 53\ 14 \\ 52\ 56 \\ 52\ 48 \\ \end{array}$	1 5 20 5 28 5 36 5 44 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	9, 15245 15333 15421 15508 15596 9, 15683 15770 15857 15944	14 16 17 18 20 21 23 24	10, 84755 84667 84579 84492 84404 10, 84317	9, 15688 15777 15867 15956 16046	14 16 17 19	10, 84312 84223 84133 84044	10, 00443 00444 00446	0 0	9, 99557 99556	50 49
11 12 13 14 14 15 10 17 17 18 19 10 10 10 21 22 23 24 10 26 27 28 29 30 10 31 32 33 33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 28 5 36 5 44 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	15333 15421 15508 15596 9, 15683 15770 15857 15944	16 17 18 20 21 23 24	84667 84579 84492 84404 10, 84317	15777 15867 15956 16046	16 17 19	\$4223 \$4133 \$4044	00444	0	99556	49
12 13 14 15 16 17 18 19 20 10 21 22 23 24 25 10 27 28 29 30 31 32 33 33	54 24 54 16 54 8 54 0 53 52 53 44 53 28 53 28 53 20 53 12 53 4 52 56 52 48	5 36 5 44 5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	15421 15508 15596 9, 15683 15770 15857 15944	17 18 20 21 23 24	84579 84492 84404 10, 84317	15867 15956 16046	17 19	84133 84044	00446	0		
13 14 15 16 17 18 19 20 20 10 22 23 24 25 10 26 27 28 29 30 10 31 32 33	54 16 54 8 54 0 53 52 53 44 53 36 53 28 53 20 53 12 53 4 52 56 52 48	$\begin{array}{c} 5 & 44 \\ 5 & 52 \\ \hline 1 & 6 & 0 \\ 6 & 8 \\ 6 & 16 \\ 6 & 24 \\ 6 & 32 \\ \hline 1 & 6 & 40 \\ 6 & 48 \\ \end{array}$	15508 15596 9, 15683 15770 15857 15944	18 20 21 23 24	84492 84404 10, 84317	15956 16046	19	84044			99554	
14 15 16 17 18 19 20 21 22 23 24 24 25 10 26 27 28 29 30 31 32 33 33	54 8 54 0 53 52 53 44 53 36 53 28 53 20 53 12 53 4 52 56 52 48	5 52 1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	15596 9, 15683 15770 15857 15944	20 21 23 24	84404 10, 84317	16046			00448			48
15 10 16 17 18 19 20 10 21 22 23 224 25 10 25 10 26 27 28 29 30 30 31 32 33	54 0 53 52 53 44 53 36 53 28 53 20 53 12 53 4 52 56 52 48	1 6 0 6 8 6 16 6 24 6 32 1 6 40 6 48	9, 15683 15770 15857 15944	21 23 24	10, 84317		20				99552	47
16 17 18 19 19 20 21 22 23 24 25 26 27 28 29 30 10 31 31 32 33	53 52 53 44 53 36 53 28 53 20 53 12 53 4 52 56 52 48	6 8 6 16 6 24 6 32 1 6 40 6 48	15770 15857 15944	23 24		9 16135		S3954	00450	_0	99550	46
17 18 19 20 10 21 22 23 24 25 10 25 26 27 28 29 30 10 31 31 32 33 33	53 44 53 36 53 28 53 20 53 12 53 4 52 56 52 48	6 16 6 24 6 32 1 6 40 6 48	15857 15944	24	84230		20	10,83865	10,00452	0	9, 99548	45
18 19 20 10 21 22 23 24 25 10 26 27 28 29 30 31 31 32 33 33	53 36 53 28 53 20 53 12 53 4 52 56 52 48	6 24 6 32 1 6 40 6 48	15944			16224	23	83776	00454	1	99546	44
19 20 10 21 22 23 24 25 10 26 27 28 29 30 10 31 31 32 33	53 28 53 20 53 12 53 4 52 56 52 48	$\begin{array}{rrr} & 6.32 \\ \hline 1.6.40 \\ 6.48 \end{array}$			84143	16312	25	83655	00455	1	99545	43
20 10 21 22 23 24 25 10 26 27 28 29 30 10 31 32 33	53 20 53 12 53 4 52 56 52 48	1 6 40 6 48	10030		84056	16401	26 27	83599 83511	00457	1	99543	42
21 22 23 24 25 10 26 27 28 29 30 31 32 33	53 12 53 4 52 56 52 48	6.48	17	27	83970	16489			00459	_1	99541	41
22 23 24 25 10 26 27 28 29 30 10 31 32 33	53 4 52 56 52 48		9, 16116	28	10, 83884	9, 16577	29	10, 83423	10. 00461	1	9, 99539	40
23 24 25 26 27 28 29 30 31 32 33	$\frac{52}{52} \frac{56}{48}$		16203	30	83797	16665	30 32	83335	00463	1	99537	39
24 25 26 27 28 29 30 31 32 33	52.48		16289	31	83711 83626	16753 16841	33	83247 83159	00465	1	99535 99533	38
25 10 26 27 28 29 30 10 31 32 33		7 4 7 12	16374 16460	34	83540	16928	35	83072	00468	1	99532	36
26 27 28 29 30 31 32 33	52 40						36	10, 82984	10, 00470		9. 99530	35
27 28 29 30 31 32 33		1 7 20 7 28	9, 16545	35 37	10, 83455 83369	9, 17016 17103	37	10. 82984 82897	00472	1	9, 99530 99528	34
28 29 30 31 32 33	52 32 52 24	7 36	16631 16716	38	83284	17103	39	82810	00474	1	99528	33
29 30 31 32 33	52 16	7 44	16801	39	83199	17277	40	82723	00474	i	99524	32
30 10 31 32 33	52 10	7 52	16886	41	83114	17363	42	82637	00478	i	99522	31
31 32 33		1 8 0	9, 16970	42	10, 83030	9, 17450	43	10, 82550	10. 00450	- <u>i</u> -	9, 99520	30
32 33	52 0 51 52	8 8	17055	44	82945	17536	45	82464	00482	1	99518	29
33	51 44	8 16	17139	45	82861	17622	46	82378	00483	í	99517	28
	51 36	8 24	17223	47	82777	17708	48	82292	00485	ì	99515	27
	51 28	8 32	17307	48	82693	17794	49	82206	00457	i	99513	26
	51 20	1 8 40	9.17391	49	10.82609	9, 17880	50	10, 82120	10, 00489	1	9, 99511	25
36	51 12	8 48	17474	51	82526	17965	52	82035	00491	i	99509	24
37	51 4	8 56	17558	52	82442	18051	53	81949	00493	i	99507	23
38	50.56	9 4	17641	54	82359	18136	55	81861	00495	1	99505	22
39	50.48	9.12	17724	55	82276	18221	56	\$1779	00497	1	99503	-21
40 10	50.40	1 9 20	9, 17807	56	10, 82193	9. 18306	58	10, 81694	10, 00499	1	9, 99501	20
41	50 32	9.28	17890	5%	82110	18391	59	81609	00501	1	99499	19
42	50 24	9.36	17973	59	82027	18475	61	81525	00503	1	99497	18
43	50 16	9 44	18055	61	81945	18560	62	81440	00505	1	99495	17
4-1	50 8	9.52	18137	62	81863	18644	63	81356	00506	1	99494	16_
45 10	50 0	1.10 0	9.18220	433	10,81780	9.18728	65	10,81272	10,00508	1	9, 99492	-15
46	49.52	10 8	18302	65	81698	18812	66	81188	00510	1	(99494)	14
47	49 44	10.16	18383	66	81617	18896	68	81104	00512	1	99488	13
48	49 - 36	10 24	18465	68	81535	18979	69	81021	00514	2	99486	12
49	49 28	10/32	18547	69	81453	19063	71	80937	00516	2	99484	11
50 10		1 10 40	9,18628	71	10,81372	9, 19146	72	10,80854	10,00518	2	9, 99482	10
51	49/12	10.48	18709	72	81291	19229	74	80771	00520	2	99450	9
52	49 4	10.56	18790	73	81210	19312	75	80688	00522	2	99478	8
53	48.56	11 4	18871	4	81129	19395	76	80605 80522	00524	2	99476	7 6
54	45 45	11 12	18952	76	81048	19478	78	_	00526		99474	
55 10		1 11 20	9, 19033	78	10, 80967	9, 19561	79	10, 80439	10, 00528	2	9, 99472	5
56	48 32	11/28	19113	79	50557	19643	81	80357	00530	2	99470	4 3
57	48, 24	11.36	19193	80 (82	80807	19725	82 84	80275 80193	00532 00534	2	99465	2
58	48-16	11 44 11 52	19273 19353	82	80727 80617	19507 19559	85	80111	00536	2	99464	1
59	48 8	11.52	19353	85	80567	19889	87	50029	00535	- 2	99462	0
100	162 73	12 0	1314171	(3-1)	STERRY	120771		CHET	(4,94)	-		1
M H	48 0		Cosme	Diff.	Secant.	Cotangent	Diff	Tangent.				
		Hour C W			CONTRACTOR.			a many title	Concentiti	Diff	Sine	М.
19 00	48 0	Hour CM	1		Secant.	В		В В	Cosecunt	Iniff	Sine	M. 51°

Seconds of time	1.	25	3.	4.	2.	g,	7.
Prop. parts of cols. $\begin{cases} \frac{\Lambda}{B} \\ C \end{cases}$	11	21	32	42	78	65	74
	11	22	33	13	74	65	76
	0	0	1	1	1	1	2

Ī				_	TAI	3LE 44.					Page 78	31
				Log.	Sines, Tar	gents, and	l Sec	ants.				
90			A		A	В		В	C		C	1700
М.	Hour A. M.	Hour P. M.	Sine,	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine,	М.
0	10 48 0	1 12 0	9. 19433	0	10, 80567	9. 19971	0	10, 80029	10, 00538	0	9, 99462	60
1	47 52	12 8	19513	3	80487	20053	I	79947	00540	0	99460	59
2 3	47 44 47 36	12 16 12 24	19592 $19672$	4	80408 80328	20134 20216	3	79865 79784	00542 00544	0	99458 99456	58 57
4	47 28	12 32	19751	5	80249	20297	5	79703	00546	0	99454	56
- 5	10 47 20	$1 \ 12 \ 40$	9.19830	6	10.80170	9.20378	- 6	10.79622	10,00548	0	9.99452	55
6 7	47 12 47 4	12 48 12 56	19909_ 19988	8 9	80091 80012	20459 20540	8 9	79541 79460	00550 00552	0	99450 99448	54 53
8	46 56	13 4	20067	10	79933	20621	10	79379	00554	0	99446	52
9	46 48	13 12	20145	11	79855	20701	12	79299	00556	_0	99444	51
10 11	10 46 40 46 32	1 13 20 13 28	9. 20223 20302	13 14	10. 79777 79698	9, 20782 20862	13 14	10. 79218 79138	10, 00558 00560	0	9, 99442	50 49
12	46 24	13 36	20380	15	79620	20942	16	79058	00562	0	99438	48
13	46 16	13 44	20458	16	79542	21022	17	78978	00564	0	99436	47
14	46 8	13 52	20535	18	79465	21102	18	78898	00566	0	99434	46
15 16	$ \begin{array}{rrr} 10 & 46 & 0 \\ 45 & 52 \end{array} $	1 14 0 14 8	9. 20613 20691	19	10, 79387 79309	9, 21182 21261	19 21	10. 78818 78739	10. 00568 00571	1 1	9.99432 99429	45 44
17	45 44	14 16	20768	21	79232	21341	22	78659	00573	1	99427	43
18 19	45 36 45 28	14 24 14 32	20845 20922	23	79155 79078	21420 21499	23 25	78580 78501	00575 00577	1	99425 99423	42
$\frac{19}{20}$	10 45 20	14 32	9, 20999	25	10, 79001	9. 21578	26	$\frac{78301}{10.78422}$	$\frac{00577}{10,00579}$	_i_	9,99423	41
21	45 12	14 48	21076	26	78924	21657	27	78343	00581	ī	99419	39
22	45 4	14 56	21153	28	78847	21736	28	78264	00583	1	99417	38
23 24	44 56 44 48	15 4 15 12	21229 21306	29	78771 78694	21814 21893	30 31	78186 78107	00585 00587	1 I	99415 99413	37 36
25	10 44 40	1 15 20	9, 21382	31	10. 78618	9, 21971	32	10, 78029	10, 00589	1	9, 99411	35
26	44 32	15 28	21458	33	78542	22049	34	77951	00591	1	99409	34
27 28	44 24 44 16	15 36 15 44	$\frac{21534}{21610}$	34	78466 78390	22127 22205	35 36	77873 77795	00593 00596	1	99407 99404	33 32
29	44 8	15 52	21685	37	78315	22283	38	77717	00598	1	99402	31
30	10 44 0	1 16 0	9.21761	38	10.78239	9, 22361	39	10.77639	10.00600	1	9.99400	30
31	43 52	16 8	21836	39	78164	22438	40	77562	00602 00604	1	99398 99396	29 28
32 33	43 44 43 36	16 16 16 24	21912 21987	40	78088 78013	22516 22593	41 43	77484 77407	00604	1	99396	28
34	43 28	16 32	22062	43	77938	22670	44	77330	00608	1	99392	26
35	10 43 20	1 16 40	9, 22137	44	10.77863	9. 22747	45	10. 77253	10.00610	1	9, 99390	25
36 37	43 12 43 4	16 48 16 56	22211 22286	45	77789 77714	22824 22901	47	77176 77099	00612 00615	1	99388 99385	24 23
38	42 56	17 4	22361	48	77639	22977	49	77023	00617	î	99383	22
39	42 48	17 12	22435	49	77565	23054	50	76946	00619	1	99381	21
40 41	10 42 40 42 32	1 17 20 17 28	9. 22509 22583	50 52	10. 77491 77417	9. 23130 23206	52 53	$10.76870 \\ 76794$	10.00621 00623	1	9. 99379 99377	20 19
42	42 24	17 36	22657	53	77343	23283	54	76717	00625	1	99375	18
43	42 16	17 44	22731	54	77269	23359	56	76641	00628	2 2	99372	17
44	42 8 10 42 0	17 52 1 18 0	22805 9, 22878	55	77195	9, 23510	57	76565 10, 76490	00630 10, 00632	$\frac{2}{2}$	99370	16
46	41 52	18 8	22952	58	10. 77122 77048	23586	60	76414	00634	2	99366	14
47	41 44	18 16	23025	59	76975	23661	61	76339	00636	2	99364	13
48 49	41 36 41 28	18 24 18 32	23098 23171	60	76902 76829	23737 23812	62 63	76263 76188	00638 00641	2 2	99362 99359	12 11
50	10 41 20	1 18 40	9, 23244	63	10, 76756	9, 23887	65	10.76113	10, 00643	2	9, 99357	10
51	41 12	18 48	23317	64	76683	23962	66	76038	00645	2	99355	- 9
52 53	41 4 40 56	18 56 19 4	23390 23462	65	76610 76538	24037 $24112$	67 69	75963 75888	00647 00649	2 2	99353 99351	8 7
54	40 48	19 4	23535	68	76465	24112	70	75814	00652	2	99348	6
55	10 40 40	1 19 20	9.23607	69	10.76393	9. 24261	71	10. 75739	10,00654	2	9, 99346	5
56	40 32	19 28	23679	71	76321	24335	73	75665	00656 00658	2 2	99344	3
57 58	40 24 40 16	19 36 19 44	23752 23823	72 73	76248 76177	24410 24484	74 75	75590 75516	00660	2	99342	2
59	40 8	19 52	23895	74	76105	24558	76	75442	00663	2	99337	1
60	40 0	20 0	23967	76	76033	24632	78	75368	00665	2	99335	0
М.	Hourp. M.	Hour A.M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
990			A		A	В		В	С		C	50°

Seconds of time	}*	2,	34	41	5*	6.	7.
Prop. parts of cols, $\left\{ egin{matrix} A \\ B \\ C \end{array} \right.$	9	19	28	38	47	57	66
	10	19	29	39	49	58	68
	0	1	1	1	1	2	2

Page ?	782]
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TABLE 44.

10			Α		Α.	В		В	c		C	169°
М.	Hour A. M.	Hour P. M.	Sitte.	Dif	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine,	М.
0	10.40 0	1 20 0	9, 23967	()	10, 76033	9, 24632	0	10, 75368	10, 00665	0	9, 99335	60
1	39-52	20 8	24039	1	75961	24706	1	75294	00667	0	99333	59
2	39 44	20 16	241110	2	75890	24779	2	75221	00669	0	99331	58
3	39 36 39 28	20 24 20 32	24181	3	75819	24853	4	75147	00672	0	99328	57
-4			24253	$-\frac{5}{3}$	75747	24926	5	75074	00674	_()	99326	56
5 6	(0.39.20 39.12	1 20 40 20 48	9, 24324 24395	6	10, 75676 75605	9, 25000 25073	6	10, 75000 74927	10, 00676	0	9, 99324	55
7	39 4	20 56	24466	4	75534	25146	7	74854	00675	0	99322 99319	54 53
	35.56	21 4	24536	59	75464	25219	58	74781	00653	0	99317	52
9	38.48	21 12	24607	10	75393	25292	11	74708	00685	()	99315	51
10	10/38/40 ;	-1/21/20	9, 24677	11	10, 75323	9, 25065	12	10, 74635	10,00687	0	9, 99313	50
11	08/32	21/28	24748	13	75252	25437	13	74563	00690	. 0	99310	49
12	38 24	21 36 21 44	24818	14	75182	25510	1.1	74490	00692	0	99308	48
13 14	38 16 38 8	21 44 : 21 52	24888 24958	15 16	75112 75042	25582 25555	15 16	74418 74345	00694	1	99306	47
15	10 38 0	1 22 0	9, 25028	17	10, 74972	9, 25727	18	10, 74273	10. 00699	1 1	99304	46
16	37 52	22 8	25098	18	74902	25799	19	74201	00701	1	99299	45 44
i7	37 44	22 16	25168	19	74832	25871	20	74129	00703	í	99297	43
18	37.36	22 24	25237	20	74763	25943	21	74057	00706	1	99294	42
.19	37_28	22 32	25307	222	74693	26015	22	73985	00708	_1	99292	41
20	10 37 20	1 22 40	9, 25376	23	10, 74624	9, 26086	24	10, 73914	10, 00710	1	9, 99290	40
21	37 12 37 4	22 48 22 56	25445 25514	24 25	74555 74486	26158 26229	25 26	73842	00712	1	99288	39
93	36 56	22 56	25583	26	74417	26229	20	73771 73699	00715	1	99285 99283	38
24	36.48	23 12	25652	27	74348	26372	28	73628	00719	i	99281	36
25	10 36 40	1 23 20	9, 25721	28	10, 74279	9, 26443	29	10, 73557	10.00722	1	9. 99278	35
26	36-32	23 28 3	25790	30	74210	26514	31	73486	00724	1	99276	34
27	36 24	23 36	25858	31	74142	26585	32	73415	00726	1	99274	33
28 29	36 16 36 8	23 44 23 52	25927 25995	32	74073 74005	26655	33	73345	00729	1	99271	32
	10 36 0	1 24 0	9. 26063	34	10, 73937	26726 $9,26797$	35	73271	00731	1	99269	31
31	35 52	24 8	26131	35	73869	26867	36	10, 73203 73133	10, 00733	1	9, 99267 99264	30 29
32	35 44	24 16	26199	36	73801	26937	38	73063	00738	i	99262	28
33	35 36	24 24	26267	38	73733	27008	39	72992	00740	1	99260	27
34	35 28	24 32	26335	39	73665	27078	40	72922	00743	1	99257	26
35	10 35 20	1 24 40	9.26403	40	10, 73597	9, 27148	41	10,72852	10, 00745	1	9, 99255	25
36	35 12   35 4	24 48 24 56	26470 26538	41	73530	27218	42	72782	00748	1	99252	24
37	34 56	24 56 25 4	26605	42	73462 73395	27288 27357	44 45	72712 72643	00750 00752	1	99250 99248	23 22
39	34 48	25 12	26672	44	73328	27427	46	72573	00755	2	99245	21
	10 34 40	1 25 20	9. 26739	45	10, 73261	9, 27496	47	10, 72504	10, 00757	2	9, 99243	20
41	34 32	25.28	26806	47	73194	27566	48	72434	00759	2	99241	19
42	34 24	25 36	26873	48	73127	27635	49	72365	00762	2	99238	18
43	34 16	25 44	26940	49	73060	27704	51	72296	00764	2	99236	17
44	34 8	25 52 1	27007	50	72993	27773	52	72227	00767	-2	99233	16
45 46	10 34 0 I 33 52 I	1 26 0 26 8	9, 27073 27140	51 52	10, 72927 72860	9, 27842 27911	53 54	10, 72158 72089	10, 00769 00771	2	9. 99231 99229	15 14
1 47	33 44	26 16	27206	53	72794	27980	55	72020	00774	2	99226	13
48	33 36	26 24	27273	55	72727	28049	56	71951	00776	1)	99224	12
49	33 28	26.32	27339	56	72661	28117	58	71883	00779	2	99221	ii
50	10/35/20	1.26 - 40	9,27405	57	10,72595	9,28186	59	10.71814	10,00781	2	9, 99219	10
51	33 12	26 48	27471	58	72529	28254	(3)	71746	00783	2	99217	9
52 53	33 4 32 56	26 56 27 4	27537 27602	59 60	72463 72398	28323 28391	61 62	71677 71609	00786 00788	2	99214 99212	8 7
54	32 48	27 4 27 12	27668 27668	61	72335 72332	28391 28459	63	71511	00788	9	99212	6
55	10 32 40	1 27 20	9, 27733	63	10, 72266	9, 28527	65	10, 71473	10, 00793	-2-	9, 99207	5
56	32 32	27 28	27799	64	72201	28595	66	71405	00796	2	99204	4
57	32, 24	27, 36	27864	65	72136	28662	67	71338	00798	2	99202	3
55	32 16	27 44	27930	66	72070	28730	115	71270	00800	2	99200	2
59 60	.32 S :32 O	27, 52	27995 28060	67	72005 71940	28798 28865	69	71202 71135	00803	2	99197 99195	1 0
												i
М	Волге м	Hour v M	Costne	Diff		cotongent	Duff	Tangent	Coscent.	Diff.	Sinc.	M.
100			.\		'	R		В	(,		C	190
, , , , , ,												

Security of time	1.	2.	33*	-41	100	61	71
Properties of cols	A 2 B 2	15	26 26 1	34 35 1	11 11 1	51 53 2	60 62 2

110			A		A	В		В	C		C	1680
M.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant,	Diff.	Cosine.	М.
0	10 32 0	1 28 0	9, 28060	0	10, 71940	9, 28865	0	10, 71135	10, 00805	0	9, 99195	60
1	31 52	28 8	28125	1	71875	28933	1	71067	00808	0	99192	59
2	31 44	28 16	28190	2	71810	29000	2	71000	00810	0	99190	58
3	31 36	28 24	28254	3	71746	29067	3	70933	00813	0	99187	57
4	31 28	28 32	28319	4	71681	29134	4	70866	00815	0	99185	56
5	10 31 20	1 28 40	9, 28384	5	10. 71616	9. 29201	5	10. 70799	10.00818	0	9.99182	55
6 7	31 12 31 4	28 48 28 56	28448 28512	6 7	71552 71488	29268 29335	6	70732 70665	00820	0	99180	54
8	30 56	29 4	28577	8	71423	29402	9	70598	00823 00825	0	99177 99175	53 52
9	30 48	29 12	28641	9	71359	29468	10	70532	00828	ő	99173	51
10	10 30 40	1 29 20	9. 28705	10	10, 71295	9, 29535	11-	10, 70465	10. 00830	0	9. 99170	50
11	30 32	29 28	28769	ii	71231	29601	12	70399	00833	0	99167	49
12	30 24	29 36	28833	12	71167	29668	13	70332	00835	1	99165	48
13	30 16	29 44	28896	13	71104	29734	14	70266	00838	1	99162	47
14	30 8	29 52	28960	14	71040	29800	15	70200	00840	1	99160	46
15	10 30 0	1 30 0	9.29024	16	10.70976	9.29866	16	10.70134	10.00843	1	9.99157	45
16	29 52	30 8	29087	17	70913	29932	17	70068	00845	1	99155	44
17	29 44	30 16	29150	18	70850	29998	18	70002	00848	1	99152	43
18 19	29 36 29 28	30 24 30 32	29214 29277	19	70786 70723	30064 30130	19 20	69936 69870	00850 00853	1	99150	42
$\frac{19}{20}$	10 29 20	1 30 40	9, 29340	$\frac{20}{21}$	10, 70660	9, 30195	22	10, 69805			99147	$\frac{41}{10}$
20	29 12	30 48	29403	22	70597	30261	23	69739	10.00855 $00858$	1	9, 99145 99142	40 39
22	29 4	30 56	29466	23	70534	30326	24	69674	00860	1	99142	38
23	28 56	31 4	29529	24	70471	30391	25	69609	00863	l î	99137	37
24	28 48	31 12	29591	25	70409	30457	26	69543	00865	î	99135	36
25	10 28 40	1 31 20	9, 29654	26	10, 70346	9.30522	27	10, 69478	10.00868	1	9, 99132	35
26-	28 32	31 28	29716	27	70284	30587	28	69413	00870	1	99130	34
27	28 24	31 36	29779	28	70221	30652	29	69348	00873	1	99127	33
28	28 16 28 8	31 44	29841	29	70159	30717	30	69283	00876	1	99124	32
29		31 52	29903	30	70097	30782	31	69218	00878	1	99122	31
	$\begin{array}{cccc} 10 & 28 & 0 \\ 27 & 52 \end{array}$	1 32 0 32 8	9. 29966 30028	31 32	10. 70034 69972	9, 30846 30911	32 33	10. 69154 69089	10.00881	1	9, 99119	30
31 32	27 32	32 8 32 16	30028	33	69910	30975	35	69025	00883 00886	1	99117 99114	29 28
33	27 36	32 24	30151	34	69849	31040	36	68960	00888	1	99112	27
34	27 28	32 32	30213	35	69787	31104	37	68896	00891	1	99109	26
	10 27 20	1 32 40	9.30275	36	10.69725	9.31168	38	10.68832	10, 00894	2	9, 99106	25
36	27 12	32 48	30336	37	69664	31233	39	68767	00896	2	99104	24
37	27 4	32 56	30398	38	69602	31297	40	68703	00899	2	99101	23
38	26 56	33 4	30459	39	69541	31361	41	68639	00901	2	99099	22
39	26 48	33 12	30521	40	69479	31425	42	68575	00904	2	99096	21
	10 26 40	1 33 20	9.30582	41	10.69418	9.31489		10.68511	10.00907	2	9, 99093	20
41	26 32	33 28	30643	42	69357	31552	44	68448	00909	2	99091	19
42 43	26 24 26 16	33 36 33 44	30704 30765	43 45	69296 69235	31616 31679	45	68384 68321	00912 00914	2 2	99088 99086	18 17
44	26 8	33 52	30826	46	69174	31743	47	68257	00914	2	99086	16
5	10 26 0	1 34 0	9, 30887		10.69113	9, 31806	49	10, 68194	10, 00920	2	9, 99080	15
46	25 52	34 8	30947	48	69053	31870	50	68130	00922	2	99078	14
47	25 44	34 16	31008	49	68992	31933	51	68067	00925	2	99075	13
48	25 36	34 24	31068	50	68932	31996	52	68004	00928	2	99072	12
49	25 28	34 32	31129	51	68871	32059	53	67941	00930	2	99070	11
00	10 25 20	1 34 40	9.31189		10,68811	9, 32122	54	10.67878	10,00933	2	9, 99067	10
51	25 12	34 48	31250	53	68750	32185	55	67815	00936	2	99064	9
52 j	25 4	34 56	31310	54	68690	32248	56	67752	00938	2 2	99062	8
53	24 56 24 48	$\begin{array}{ccc} 35 & 4 \\ 35 & 12 \end{array}$	31370 31430	55 56	68630	32311	57 58	67689 67627	00941 00944	2	99059 99056	7 6
54			9, 31490	57	$\frac{68570}{10,68510}$	32373 9, 32436		10, 67564	10, 00946	$-\frac{2}{2}$	9, 99054	$\frac{6}{5}$
55 56	10 24 40 24 32	1 35 20 35 28	31549	58	68451	32436	60	67502	00946	2	99051	9 4
57	24 24	35 36	31609	59	68391	32561	61	67439	00943	2	99048	3
58	24 16	35 44	31669	60	68331	32623	63	67377	00954	2	99046	2
59	24 8	35 52	31728	61	68272	32685	64	67315	00957	3	99043	1 i
60	24 0	36 0	31788	62	68212	32747	65	67253	00960	3	99040	0
		I	- Const	nim	One of	0.4.	Dim.	Tana at	Constitution	71/2	otter -	اجا
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	om.	Tangent.	Cosecant.	Diff.	Sine.	М.
101°			A		A	В		В	C			75-

Seconds of time	1*	2,	3,	4"	ō1	61	7*
Prop. parts of cols. $\begin{cases} A \\ B \\ C \end{cases}$	8	16	23	31	39	47	54
	8	16	24	32	40	49	57
	0	1	1	1	2	2	2

Page 784]
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TABLE 44.

12			٨.		٨.	В		11	· · ·		c	1672
М.	Houra, M.	Hour P. M	Sine.	Diff.	Coscent.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	М.
0	10 24 0	1.36 0	9, 31788	()	10, 68212	9, 32747	0	10, 67253	10, 00960	0	9, 99040	60
1	23.52	36 8	31847	1	68153	32810	1	67190	00962	0	99038	59
2 1	23 41	36 16	31907	2	68093	32872	2	67128	00965	0	99035	58
1 3 1	23 36	36 24	31966	::	68034	32933	:3	67067	00963	0	99032	57
4	23, 28	36 32	32025	_4	67975	32995	4	67005	00970	0	99030	56
5	10/23/20	1 36 40	9.32084	5	10.67916	9, 33057	- 5		10, 00973	. 0	9,99027	55
- 15	23 12	36 48	32143	6	67857	33119	6	66881	00976	0	99024	54
[ ]	23 4 22 56	36 56 37 4	32202 32261	7.8	67798 67739	33180 33242	7.8	66820 66758	00978 00981	0	99022 99019	53 52
	22 48	37 12	32319	- 6	67681	33303	9	66697	00984	0	99016	51
10	10 22 40	1 37 20	9, 32378	10	10, 67622	9.33365	10		10, 00987	0	9, 99013	50
Lii l	22 32	37 28	32437	10	67563	33426	11	66574	00989	1	99011	49
12	22 24	37 36	32495	11	67505	35457	12	66513	00992	1	99008	48
13	22 - 16	37 44	32553	12	67447	33548	13	66452	00995	1	99005	47
14	22 S	37 52	32612	-13	67388 1	33609	14	66 <b>2</b> 91	00998	1	99002	46
15	10/22 0	1.38 - 0	9.32670	14	10, 67330	9, 33670	15	10,66330	10, (1)(00)	1	9, 99000	45
16	21 52	38 8	32728	15	67272	33731	16	66269	01003	1	98997	44
17	21 44	38 16 38 24	32786 32844	16	67214   67156	33792	17	66147	01006 01009	1	98994 98991	43 42
19	21 28	38 32	32902	15	67098	33913	19	66087	0[0]1	1	98989	42
	10 21 20	T 38 40	9, 32960	19	10, 67040	9, 33974	20	10, 66026	10, 01014	1	9, 98986	40
21	21 12	38 48	33018	20	66982	34034	21	65966	01017	i	98983	39
22	21 4	38 56	33075	21	66925	34095	* ) * )	65905	01020	1	98980	38
23	20.56	39 4	33133	-2.2	titisti7	34155	23	65545	01022	1	98978	37
24	50.48	39 12	33190	23	66810	34215	24	65785	01025	_1	98975	36
	10/20/40	1 39 20	9, 33248	24	10, 66752	9, 34276	25	10, 65724	10,01028	1	9, 98972	35
26	20/32	39-28 39-36	33305	25 26	66695	34336	26	65664	01031	1	98969	34
27 28	20 24 20 16	39 44	33362 33420	27	66580	34396 34456	27	nanu4 nää44	01033	1	98967 98964	33 32
29	20 8	39.52	33477	28	66523	34516	201	65484	01039	1	98961	31
1	.0.20 0	1 40 0	9, 33534	29	10, 66466	9, 34576	30	10,65424	10, 01042	i-	9, 98958	30
31	19.52	40 8	33591	29	66409	34635	31	65365	01045	i	98955	29
32	19 44	40.16	33647	20	66353	34695	32	65305	01047	i	98953	28
33	19.36	40.24	33701	31	66296	34755	33	n5245	01050	.)	98950	27
34	19/28	40/32	33761	32	66239	31814	34	65186	01053	2	98947	26
35	(0.19.20)	1 40 40	9, 33515	33	10.66182	9, 34874	35	10.65126	10, 01056		9, 98944	25
36	19-12 19-4	40 48 10 56	33874 33931	334	66126	34933	36 37	65067 65008	01059	5	98941	24 23
37 38	19 4	41 1	33987	35	66069	34992 35051	38	64949	01062 01064	2	98938 98938	23
39	18 48	11 12	34043	37	65957	35111	39	64559	01067	2	98933	21
40	10 15 40	1 41 20	9.34100	38	10, 65900	9,35170	40	10, 64830	10, 01070		9, 98930	20
41	18,32	41 28	34156	39	65841	35229	41	64771	01073	1 5	98927	19
42	18 24	41.36	34212	40	65788	35288	42	64712	01076	2	98924	18
4.5	-18/16	41 41	34268	41	65732	35347	43	64653	01079	2	98921	17
41	15 8	-41/52	34324	42	65676	35405	44	64595	01081	_2	98919	16
45	:0.15 0	1 42 0	9, 34380	43	10, 65620	9, 35464	45	10, 61536	10, 01084	2	9, 98916	15
46	17 52 17 44	42 8 42 16	34436 34491	44 45	65564 5 65509	35523 35581	46	61177	01087 01090	2	98913 98910	14
45	17 36	42 16	34491	46	65453	35610	48	61360	01093	2	98907	12
49	17 28	12 32	34602	17	65398	35698	49	64302	01096	1 2	98904	11
50	10 17 20	1 42 40	9, 34658	18	10, 65342	9, 35757	50	10, 64243	10, 01099	2	9, 98901	10
51	17 12	42.48	34713	48	65287	35845	51	61185	01102	- 2	98898	9
52	17 4	42.56	34769	49	65231	35873	52	64127	01104	2	98896	-8
53	16 56	43 4	34824	50	65176	35931	53	64069	01107	2	98893	7
54	16.48	43 12	34879	51	65121	35989	54	64011	01110	3	98890	_6
55	10 16 40	1 43 20	9, 34934	52	10, 65066	9, 36017	55	10, 63953	10, 01113	3	9, 98887	5
56 57	16 32 16 24	43-28 43-36	34989 35044	- 53 - 54	65011 64956	36163 36163	56 57	63895 63837	01116	3	98884 98881	4 3
58	16 16	43 44	35099	55	64901	36221	58	63779	01122	3	98578	2
59	16 5	43.52	35151	56	618)6	36279	59	63721	01125	3	98875	Ιĩ
60	16 0	44 0	35209	57	64791	36336	60	63664	01128	3	98872	0
	-		-									
М	Ноигт, и	Hour v M	Cosine.	Diff	Secant.	Cotangent	Dut	Tangent.	Cosecutit,	Hit.	Sine.	M.
102			Α		Λ	н		Н	4.1		C.	770
_												

seconds of time	11	21	3.	11	5.	6+	7+
Prop. parts of cols.	-	11	1	.50 .50	36 37 2	45 45 2	122

	TABLE 44. [Page 785																			
	Log. Sines, Tangents, and Secants.																			
13°			A		A	В		В	С		С	1660								
М.	Hour A.M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	м.								
0	10 16 0	1 44 0	9. 35209	0	10.64791	9, 36336	0	10.63664	10.01128	0	9.98872	60								
1 2	15 52 15 44	44 8 44 16	35263	1 2	64737	36394 36452	1 2	63606	01131	0	98869	59								
3	15 36	44 24	35318 35373	3	64682 64627	36509	3	63548 63491	01133 01136	0	98867 98864	58 57								
4	15 28	44 32	35427	4	64573	36566	4	63434	01139	0	98861	56								
5 6	10 15 20 15 12	1 44 40	9. 35481 35536	5	10. 64519 64464	9. 36624 36681	5 6	10. 63376 63319	10. 01142 01145	0	9. 98858 98855	55 54								
7	15 4	44 56	35590	6	64410	36738	6	63262	01148	0	98852	53								
8	14 56 14 48	45 4 45 12	35644 35698	8	64356 64302	36795 36852	8	63205 63148	$01151 \\ 01154$	0	98849	52								
$\frac{8}{10}$	10 14 40	1 45 20	9, 35752	9	10, 64248	9, 36909	9	10.63091	10. 01157	1	$\frac{98846}{9,98843}$	$\frac{51}{50}$								
11	14 32	45 28	35806	10	64194	36966	10	63034	01160	1	98840	49								
12 13	14 24 14 16	45 36 45 44	35860 35914	11	64140 64086	37023 37080	11 12	62977 62920	01163 01166	1	98837 98834	48								
14	14 16	45 52	35968	12	64032	37137	13	62863	01169	i	98831	47 46								
15	10 14 0	1 46 0	9.36022	13	10.63978	9.37193	14	10.62807	10.01172	1	9.98828	45								
16 17	13 52 13 44	46 8 46 16	36075 36129	14 15	63925 63871	37250 37306	15 16	62750 62694	01175 01178	1	98825 98822	44 43								
18	13 36	46 24	36182	16	63818	37363	17	62637	01181	1	98819	42								
19	13 28	46 32	36236	17	63764	37419	18	62581	01184	1	98816	41								
20 21	$10 \ 13 \ 20 \ 13 \ 12$	1 46 40 46 48	9, 36289 36342	18 18	10. 63711 63658	$9.37476 \\ 37532$	19 19	10, 62524 62468	10. 01187 01190	1	9. 98813 98810	40 39								
22	13 4	46 56	36395	19	63605	37588	20	62412	01193	1	98807	38								
23 24	12 56 12 48	47 4 47 12	36449 36502	20 21	63551 63498	37644 37700	21 22	62356 62300	01196 01199	1	98804 98801	37 36								
25	10 12 40	1 47 20	9, 36555	22	10. 63445	9. 37756	23	10. 62244	10. 01202	1	9, 98798	35								
26	12 32	47 28	36608	23	63392	37812	24	62188	01205	1	98795	34								
27 28	12 24 12 16	47 36 47 44	36660 36713	24 25	63340 63287	37868 37924	25 26	62132 62076	$01208 \\ 01211$	1	98792 98789	33 32								
29	12 8	47 52	36766	25	63234	37980	27	62020	01214	î	98786	31								
30	10 12 0	1 48 0	9.36819	26	10.63181	9. 38035	28	10.61965	10.01217	2	9.98783	30								
31 32	11 52 11 44	48 8 48 16	$36871 \\ 36924$	27	63129 63076	38091 38147	29 30	61909 61853	01220 01223	2 2	98780 98777	29 28								
33	11 36	48 24	36976	29	63024	38202	31	61798	01226	2	98774	27								
34	11 28 10 11 20	48 32	37028	30	62972	38257	32	61743	01229	$\frac{2}{2}$	98771	26								
35 36	10 11 20 11 12	1 48 40 48 48	9. 37081 37133	31 32	10. 62919 62867	9. 38313 38368	32 33	10. 61687 61632	10.01232 $01235$	2	9. 98768 98765	25 24								
37	11 4	48 56	37185	32	62815	38423	34	61577	01238	2	98762	23								
38 39	10 56 10 48	49 4 49 12	37237 37289	33	62763 62711	38479 38534	35 36	61521 61466	01241 01244	2 2	98759 98756	22 21								
40	10 10 40	1 49 20	9. 37341	35	10. 62659	9, 38589	37	10, 61411	10. 01247	2	9. 98753	20								
41	10 32	49 28	37393	36	62607	38644	38	61356	01250	2	98750	19								
42 43	10 24 10 16	49 36 1 49 44	37445 37497	37	62555 62503	$\frac{38699}{38754}$	39   40	61301 61246	01254 01257	2 2	98746 98743	18 17								
44	10 8	49 52	37549	39	62451	38808.	41	61192	01260	2	98740	16								
45 46	10 10 0 9 52	1 50 0 50 8	9.3760	39	10. 62400	9. 38863	42	10.61137	10. 01263 01266	2 2	9. 98737 98734	15 14								
47	9 52 9 44	50 8	37652 37703	40	62348 62297	38918 38972	43 44	61082 61028	01266	2	98734	13								
48	9 36	50 24	37755	42	62245	39027	45	60973	01272	$\frac{2}{2}$	98728	12								
49 50	$\frac{9 28}{10 9 20}$	50 32 1 50 40	37806 9, 37858	43	62194 10. 62142	39082 9.39136	$\frac{45}{46}$	60918 10, 60864	01275 10. 01278	$\frac{2}{3}$	$\frac{98725}{9.98722}$	11								
51	9 12	50 48	37909	45	62091	39190	47	60810	01281	3	98719	9								
52 53	9 4 8 56	50 56 51 4	37960	46 47	62040	39245 39299	48 49	60755 60701	01285 01288	3	98715 98712	8 7								
54	8 48	51 12	38011 38062	47	61989 61938	39299 39353	50	60647	01288	3	98712 98709	6								
55	10 8 40	1 51 20	9. 38113	48	10.61887	9.39407	51	10.60593	10.01294	3	9.98706	5								
56 57	8 32   8 24	51 28 51 36	38164 38215	49 50	61836 61785	39461 39515	52 53	60539 60485	01297 01300	3	98703 98700	4 3								
58	8 16	51 44	38266	51	61734	39569	54	60431	01303	3	98697	2								
59 60	8 8 8 0	51 52 52 0	38317 38368	52 53	61683 61632	39623 39677	55 56	60377 60323	01306 01310	3	98694 98690	1 0								
M.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Seeant.	Cotangent.		Tangent.	Cosecant.	Diff.	Sine.	M.								
M. 103°	LOUI P. M.	LIULI A.M.	A A	υш.	A A	Cotangent.	ыш.	B	C C	D.4.	C C	76°								
1035			A		A	ь		ь				10-								
									7.											

Seconds of time	1,	2*	3.	4,	5,	63	7.
Prop. parts of cols. $\left\{egin{smallmatrix} A \\ B \\ C \end{array}\right.$	7	13	20	26	33	39	46
	7	14	21	28	35	42	49
	0	1	1	2	2	2	3

	Page 786	]			TA	BLE 44						
				Log.	Sines, Tar		1 Sec					
140			Α		A	В		В	. c		· · · · ·	1650
М.	Hour A. M.	Hour E. M.	Sine.	Duff.	Cosecant,	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	м.
0	10 8 0	1.52 0	9, 38368	0	10. 61632	9, 39677	0	10, 60323	10, 01310	0	9, 98690	60
$\frac{1}{2}$	7 52 7 44	52 8 52 16	38418 38469	1 2	61582 61531	39731 39785	1 2	60269 60215	01313 01316	0	98687 98684	59 58
3	7.36	52 24	38519	2	61481	39838	3	60162	01319	0	98681	57
$\frac{4}{5}$	$\frac{7.28}{10-7.20}$	52 32	38570 9, 38620	3	$\frac{61430}{10,61380}$	39892 9,39945	$-\frac{3}{4}$	60108 10, 60055	01322 <u>.</u> 10, 01325	0	9.98675	$\frac{56}{55}$
6	7 12	52 48	38670	5	61330	39999	5	60001	01329	0	98671	54
7	7 4	52 56	38721	6	61279	40052	6	599-8	01332	0	98668	53
8	6 56 6 48	53 4 53 12	38771 38821	7	61229 61179	40106 40159	8	59894 59841	01335 01338	0	98665 98662	52
10	10 6 40	1 53 20	9.38871	8	10. 61129	9, 40212	9	10, 59788	10, 01341	1	9.98659	50
11 12	6 32 6 24	53 28 53 36	38921 38971	10	61079 61029	40266 40319	10	59734 59681	01344 01348	1	98656 98652	49
13	6 16	53 44	39021	11	60979	40372	11	59628	01351	1	98649	48 47
14	6 8	53 52	39071	11	60929	40425	12	59575	01354	1	98646	46
15 16	10 6 0 5 52	1 54 0 54 8	9, 39121 39170	12	10, 6087 <b>9</b> 60830	9, 40478 40531	13	10, 59522 59469	10, 01357 01360	1	9, 98643 98640	45 44
17	5 44	54 16	39220	14	60780	40584	15	59416	01364	1	98636	43
18 19	5 36 5 28	54 24 54 32	39270 39319	15 15	60681	40636 40689	16 17	59364 59311	01367 01370	1	98633 98630	42 41
$\frac{10}{20}$	10 5 20	1 54 40	9, 39369		10, 60631	9, 40742	17	10. 59258	10. 01373	1	9, 98627	40
21	5 12	54.48	39418	17	60589	40795	18	59205	01377	1	98623	39
22 23	5 4 4 56	54 56 55 4	39467 39517	18 19	60533 60483	40847 40900	19 20	59153 59100	01380 01383	1	98620 98617	38
24	4 48	55 12	39566	20	60434	40952	21	59048	01386	i	98614	36
25 26	10 4 40	1 55 20 55 28	5, 39615	20 21	10,60385	9, 41005	22	10, 58995	10, 01390	1	9, 98610	35
26 27	4 32 4 24	55 28 55 36	39664 39713	21	60336 60287	41057 41109	23	58943 58891	01393 01396	1	98607 98604	34
28	4 16	55 44	39762	23	60238	41161	24	58839	01399	2	95601	32
30	$\frac{4}{10} \frac{8}{4} \frac{8}{0}$	55_52 1_56_0	39811 9.39860	24 24	50189 10, 60140	41214 9, 41266	25	58786 10, 58734	01403 10, 01406	2	9, 98594	$\frac{31}{30}$
31	3 52	56 S	39909	25	60091	41318	27	58682	01409	2	95591	29
32 33	3 44 3 36	56 16 56 24	39958 40006	26 27	60042 59994	41370	28 29	58630 58578	01412	9	30.20	28
33	3 28	56 32	40006	28	59945	41422 41474	30	58548 58526	01416 01419	2	98584 98581	27 26
35	10 3 20	1 56 40	9, 40103	29	10, 59897	9,41526	30	10, 58474	01422	2	9, 98578	25
36 37	3 12	56 48 56 56	40152 40200	29	59548 59500	41578 41629	31 32	58422 58371	01426 01429	2 2	98574 98571	24 23
38	2.56	57 4	40249	31	59751	41681	33	58319	01432	2	98568	22
39	2.48	57 12	40297	32	59703	41733	34	58267	01435	2	98565	21
40 41	10 2 40 . 2 32	. 1 57 20 57 28	9, 40346 10391	33	10, 59654 59606	9,41784	35 36	10, 58216 58164	10, 01439 01442	2 2	9, 98561 98558	20 19
42	2 24	57, 36	40442	34	59558	41887	36	58113	01445	2	98555	18
43 44	2 16 2 8	57 44 57 52	40490 40538	35	59510 59462	41939 41990	37 38	58061 58010	01449 01452	. 2	98551 98548	17 16
45	10 2 0	1.58 0	9, 40586	37	10, 59411	9, 42041	39	10. 57959	10, 01455	2	9, 98545	15
46	1.52	58 8	40634	37	59366	12093 42144	40	57907	01459	3	98541	14
47 48	1 36	58 16 58 24	10682 -10730	38	59318 59270	42144 42195	41	57856 57805	01462 01465	3	98538 98535	13 12
49	1.28	58 32	40778	40	59222	42246	43	57754	01469	3	98531	11
50 51	10 1 20 1 12	1 58 40 58 48	9, 40825 40873	41	10, 59175 · 59127 ·	9 12297 42348	43	10, 57703 57652	10. 01472 01475	3	9, 98528 98525	10
52	1 1	58.56	40921	12	59079	42399	45	57601	01479	- 3	98521	8
53 54	0.56	59 4 59 12	40968	13	59032 - 58984	12450 42501	46	57550 57499	01482 01485	3	98518 98515	7 6
55	10 0 10	1 59 20	41016 9, 41063	44	10, 58907	F 42501 F9. 42552	-15	10, 57 118	10, 01489	3	9, 98511	5
56	0.32	59.28	41111	165	55559	12603	49	57397	01492	- 3	115015	-1
57 58	0.24	59 36 59 44	41158 41205	46	58842 58795	42653 42701	50	57347 57296	01495 01499	3	98505 98501	3 2
59	0.5	59.50	41252	48	58748	12755	51	57245	01502	3	98498	1
150	() ()	2 0 0	41300	-429	58700	42805	52	57195	01506	- 3	98494	-0
М	Hour r. M.	Hour v. v.	Centilie.	Diff.	Securit	Cotangent	Diff.	Tang- nt	Cosecant.	Diff.	Sine.	M.
104			Α.		Λ	В		13	€.		<i>(,</i>	750
_							_			_		

Securids of time

 $\label{eq:problem} \text{Prep parts of cols.} \begin{cases} \Lambda & = 6 & = 12 \\ R & = 7 & = 13 \\ C & = 0 & = 1 \end{cases}$ 

37 39 2

-												87
				Log.	Sines, Tar	igents, an	d Sec	ants.				`
150			A		A	В		В	С		С	1640
M.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	10 0 0	2 0 0	9, 41300	0	10.58700	9.42805	0	10. 57195	10, 01506	0	9, 98494	60
$\frac{1}{2}$	9 59 52 59 44	0 8 0 16	41347 41394	1 2	58653 58606	42856 42906	$\frac{1}{2}$	57144 57094	01509 01512	0	98491 98488	59 58
3	59 36	0 24	41441	2	58559	42957	2	57043	01516	0	98484	57
4	59 28	0 32	41488	_3_	58512	43007	_3	56993	01519	0	98481	56
5 6	9 59 20 59 12	2 0 40 0 48	9. 41535 41582	4 5	10, 58465 58418	9, 43057 43108	5	10. 56943 56892	$\frac{10.01523}{01526}$	0	9, 98477 98474	55 54
7	59 4	0 56	41628	5	58372	43158	6	56842	01529	0	98471	58
8	58 56	1 4	41675	6	58325	43208	. 7	56792	01533	0	98467	52
9	58 48	2 1 20	41722	-7	58278	43258	$\frac{7}{8}$	56742	01536	1	98464	51
10 11	9 58 40 58 32	2 1 20 1 28	9. 41768 41815	8	10. 58232 58185	9. 43308 43358	9	10, 56692 56642	10, 01540 01543	1	9, 98460 98457	50 49
12	58 24	1 36	41861	9	58139	43408	10	56592	01547	î	98453	48
13	58 16 58 8	$\begin{array}{c} 1 & 44 \\ 1 & 52 \end{array}$	41908 41954	10	58092 58046	43458 43508	11 11	56542 56492	01550 01553	1	98450	. 47
14 15	$\frac{58}{9} \frac{8}{58} \frac{8}{0}$	$\frac{152}{220}$	9, 42001	11	10. 57999	9, 43558	12	10. 56442	$1\overline{0}, 0\overline{1555}$	$\frac{1}{1}$	$\frac{98447}{9,98443}$	$-\frac{46}{45}$
16	57 52	2 8	42047	12	57953	43607	13	56393	01560	1	98440	44
17	57 44	2 16	42093	13	57907	43657	14	56343	01564	1	98436	43
18 19	57 36 57 28	2 24 2 32	42140 42186	14	57860 57814	43707 43756	15 16	56293 56244	01567 01571	1	98433 98429	42 41
20	9 57 20	2 2 40	9, 42232	15	10.57768	9, 43806	16	10. 56194	10.01574	1	9, 98426	+40
21	57 12	2 48	42278	16	57722	43855	17	56145	01578	1	98422	39
22 23	57 4 56 56	2 56 3 4	42324 42370	17 17	57676 57630	43905 43954	18	56095 56046	01581 01585	1	98419 98415	38
24	56 48	3 12	42416	18	57584	44004	20	55996	01588	1	98412	
25	9 56 40	2 3 20	9. 42461	19	10.57539	9. 44053	20	10, 55947	10. 01591	1	9, 98409	35
26	56 32	3 28	42507	20	57493	44102	21 22	55898	01595	2	98405	
27 28	56 24 56 16	3 36 3 44	42553 42599	21 21	57447 57401	44151 44201	22	55849 55799	01598 01602	2	98402 98398	
29	56 8	3 52	42644	22	57356	44250	24	55750	01605	2	98395	
30	9 56 0	2 4 0	9, 42690	23	10.57310	9, 44299	25	10.55701	10,01609	2	9, 98391	30
31 32	55 52 55 44	4 8 4 16	42735 $42781$	24 24	57265 57219	44348 44397	25 26	55652 55603	01612 01616	2 2	98388 98384	29 28
33	55 36	4 24	42826	25	57174	44446	27	55554	01619	2	98381	27
34	55 28	4 32	42872	26	57128	44495	28	55505	01623	2	98377	26
35 36	9 55 20 55 12	2 4 40 4 48	9. 42917 42962	27 27	10. 57083 57038	9, 44544 44592	29 29	10. 55456 55408	10. 01627 01630	2 2	9, 98373 98370	
37	55 4	4 48	43008	28	56992	44641	30	55359	01634	2	98366	23
38	54 56	5 4	43053	29	56947	44690	. 31	55310	01637	2	98363	22
39	54 48	5 12	43098	30	56902	44738	32	55262	01641	$\frac{2}{2}$	98359	
40 41	9 54 40 54 32	2 5 20 5 28	9. 43143 43188	30	10. 56857 56812	9. 44787 44836	33	10. 55213 55164	$10.01644 \\ 01648$	2	9, 98356 98352	
42	54 24	5 36	43233	32	56767	44884	34	55116	01651	. 2	98349	18
43	54 16	5 44	43278	33	56722	44933	35	55067	01655	3	98345	
44	54 8 9 54 0	$\frac{5}{2} \frac{52}{60}$	43323 9. 43367	33	56677 10, 56633	9,45029	36	55019 10, 54971	$\frac{01658}{10,01662}$	3	98342 9, 98338	
46	53 52	6 8	43412	35	56588	45078	38	54922	01666	3	98334	14
47	53 44	6 16	43457	36	56543	45126	38	54874	01669	3	98331	13
48 49	53 36 53 28	6 24 6 32	43502 43546	36	56498 56454	45174 45222	39 40	54826 54778	01673 01676	3	98327 98324	12 11
50	9 53 20	2 6 40	9, 43591	38	10, 56409	9, 45271	41	10. 54729	10, 01680	3	9, 98320	
51	53 12	6 48	43635	39	56365	45319	42	54681	01683	3	98317	9
52	53 4	6 56	43680	39 40	56320 56276	45367 45415	43	54633 54585	01687 01691	3	98313 98309	
53 54	52 56 52 48	7 4 7 12	43724 43769	41	56231	45463	44	54537	01694	3	98306	
55	9 52 40	2 7 20	9, 43813	42	10.56187	9, 45511	45	10, 54489	10.01698	3	9,98302	5
56	52 32	7 28	43857	43	56143	45559	46	54441	01701	3	98299	
57 58	52 24 52 16	7 36 7 44	43901 43946	43	56099 56054	45606 45654	47	54394 54346	01705 01709	3	98295 98291	3 2
58 59	52 16	7 52	43990	45	56010	45702	48	54298	01712	3	98288	1
60	52 0	8 0	44034	46	55966	45750	49	54250	01716	4	98284	0
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Sceant.	Cotangent	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
105	:		A		A	В		В	C		C.	740
-			Seconds of t	im	1*	20 30	4.	5* 6*	7:			

Seconds of time	1.	5.	3*	4.	5*	64	71
Prop. parts of cols.	6	11	17	23	28	34	40
	6	12	18	25	31	37	43
	0	1	1	2	2	3	3

Page 78	8	1
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TABLE 44.

16°		A		٨.	В		В	С		С	163°
М	Hour v. M. Hour P. M.	Sine	Diff.	Cosecant.	Tangent.	Duff.	Cotangent	Secant.	Diff.	Cosme.	M.
0	9.52 - 0 - 2 - 8 - 0	9, 44054	()	10, 55966	9, 45750	0	10.54250	10. 01716	0	9,98284	60
1 0	51 52 8 8	44078	1	55922	45797	1	54203	01719	0	98281	59
3	51 41 8 16 51 36 8 24	44122 44166	- 1	55878 55834	45845 45892	2	54155 54108	01723 01727	()	98277 98273	58 57
4	51 28 8 32	44210	- 3	55790	45940	3	54060	01730	0	98270	56
-5	9 51 20 2 8 40	9, 44253	4	10,55747	9, 45987	-1	10, 54013	10.01734	0	9, 98266	55
6	51 12 8 48 51 4 8 56	44297	4 5	55703	46035	5	53965	01738	0	98262	54
7 8	51 4 8 56 50 56 9 4	44341 44385	6	55659 55615	46082 46130	5 6	53918 53870	01741 01745	0	98259 98255	53 52
9	50 48 9 12	44128	45	55572	46177	7	53823	01749	i	98251	51
10	9 50 40 2 9 20	9, 44472	ĩ	10.55528	9, 46224	- 4	10,53776	10.01752	1	9, 98248	50
11	50/32 9/28	44516	8	55484	46271	- 9	53729	01756	1	98244	49
12 13	50 24 9 36 50 16 9 44	44559 44602	9	55441 55398	46319 46366	10	53681 53634	$=\frac{01760}{01763}$	1	98240 98237	48 47
14	50 S 9 52	44646	10	55354	46413	11	53587	01767	1	98233	46
15	9 50 0 2 10 0	9,44689	11	10, 55311	9, 46460	12	10,53540	10. 01771	1	9.98229	45
16	49 52 10 8	44733	11	55267	46507	12	53493	01774	1	98226	44
17 18	49 44 10 16 49 36 10 24	44776 44819	12	55224 55181	46554 46601	13 14	53446 53399	01778 01782	1	98222 98218	43 42
19	49 28 10 32	44862	14	55138	46648	15	53352	01785	1	98215	41
20	9 49 20 2 10 40	9, 44905	14	10, 55095	9, 46694	15	10. 53306	10.01789	-,1	9.98211	40
21	49 12 10 48	44948	15	55052	46741	16	53259	01793	1	98207	39
22 23	49 4 10 56 48 56 11 4	44992 45035	16	55008 54965	46788 46835	17	53212 53165	01796 01800	1	98204 98200	38
24	45 48 11 12	45077	4.17	. 54923	46881	19	53119	01804	i	98196	36
25	9 45 40 2 11 20	9, 45120	18	10, 54880	9, 46928	19	10,53072	10, 01808	2	9, 98192	35
26	48 32 - 11 28	45163	18	54837	46975	20	53025	01811	2	98189	34
27 28	48 24 11 36 48 16 11 44	45206 45249	19 20	54794 54751	47021 47068	21	52979 52932	01815 01819	2	98185	33
29	48 8 11 52	45292	21	54708	47114	1313	52886	01823	2	98177	31
30	9.48 0 2.12 0	9, 45334	21	10. 54666	9, 47160	23	10, 52840	10, 01826	2	9, 98174	30
31	-47/52 - 12/8	45377	222	54623	47207	21	52793	01830	2	98170	29
32 33	47 44 12 16 47 36 12 24	45419 45462	23	54581 54538	47253 47299	25 26	52747 52701	01834 01838	2 2	98166 98162	28 27
34	47 28 12 32	45504	24	54496	47346	26	52654	01841	2	98159	26
35	9 47 20 2 12 40	9, 45547	25	10, 54453	9, 47392	27	10,52608	10, 01845	-2	9, 98155	25
36	47 12 12 48	45589	26	54411	47438	28	52562	01849	2	98151	24
37 35	47 4 12 56 46 56 13 4	45632 45674	26 27	54368 54326	47484 47580	29 29	52516 52470	01853 01856	2 2	98147 98114	23
39	46 48 13 12	45716	28	51284	17576	30	52424	01860	2	98140	21
40	9 46 40 2 13 20	9, 45758	28	10, 54242	9, 47622	31	$\overline{10.52378}$	10.01864	2	9, 98136	20
41	46 32   13 28	45501	29	54199	47668	32	52332	01868	3	98132	19
42	46 24 13 36 46 16 13 44	45843 45885	30	54157 54115	47714 47760	32	52286 52240	$01871 \\ 01875$	3	98129 98125	18 17
43	46 B 13 52	45927	31	54073	47806	34	52194	01879	3	98123	16
45	9 46 0 2 14 0	9, 45969	32	10, 54031	9, 47852	35	10, 52148	10, 01883	3	9, 98117	15
46	45 52 14 8	46011	33	53989	47897	36	52103	01887	3	98113	14
48 48	45 44 14 16 45 36 ( 14 24	46053 46095	33	53947 53905	47943 47989	36	52057 52011	01890 01894	3	98110 98106	13 12
49	45 28 14 32	46136	35	53864	48035	38	51965	01898	3	98100	11
50	9 45 20   2 14 40	9, 46178	36	10,53822	9, 48080	39	10, 51920	10, 01902	3	9, 98098	10
51	-45/12 + -14/48	46220	36	53780	48126	39	51874	01906	3	98094	9
52 53	45 4 14 56 44 56 15 4	46262 46303	37 38	53738 53697	48171 48217	40	51829 51783	01910 01913	3	98090 98087	8 7
54	44 48 15 12	46345	38	53655	48217	41	51738	01913	3	98083	6
55	9 44 40 2 15 20	9, 46386	39	10, 53614	9, 48307	43	10.51693	10, 01921	3	9, 98079	5
56	44 32   15 28	-46128	40	53572	48353	43	51647	01925	3	98075	4
57	44 24   15 36 44 16   15 44	46469 46511	41	53531 53489	48398 48443	44	51602 51557	01929 01933	4	98071 98067	3 2
59 59	44 8 15 52	46552	41	53448	48489	48	51511	01937	4	98063	ī
60	41 0 16 0	46594	43	53406	48534	46	51466	01940	4	98060	Ò
M	Hour P. M. Hour A. M.	Cosine	Diff	Secant	Cotangent	1167	Tangent.	Cosecant,	Diff	Sine	М.
106	THOME I A STRONG A M			A	B	42411	B	C C	1	e e	730
106	1	١.		.1	n		n	,			1.0

seconds of time	11	ş,	31	4.	Б+	6.	71
Prop. parts of cols. $\begin{cases} A \\ B \\ C \end{cases}$	5	11	16	21	27	32	37
	6	12	17	23	29	35	41
	0	1	1	2	2	3	3

TA	RI	.FC	.1.1

[Page 789

No.   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   P	170			A		A	В		В	C		C	$162^{\circ}$
1	М.	Hour A. M.	Hour P. M.	Sine.	Diff	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
1			2 16 0	9.46594	0	10. 53406	9, 48534	0	10, 51466	10, 01940	0	9, 98060	60
14										01944	0	98056	59
4   32   28   16   32   447785   3   53242   45771   3   51286   6   6   98041   6   5   944   948   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4881   4   4   4   4   4   4   4   4   4													58
5													57
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35				47934		52066	50004	24	49996	02070		97930	27
38				47974		52026	50048	_25	49952	02074		97926	26
37   39   4   20   56   48094   25   51906   50180   27   489820   02086   2   97910   2   39   38   48   21   12   48173   26   51827   50267   29   49733   02094   3   97910   2   41   38   32   21   28   48252   27   51748   50555   30   49645   02102   3   97898   1   41   38   32   21   28   48252   27   51748   50555   30   49645   02102   3   97898   1   42   38   24   21   36   48592   28   51708   50485   31   49602   02106   3   97898   1   43   38   16   21   44   48332   29   51668   50442   32   49558   02110   3   97896   1   44   38   8   21   52   48371   29   51629   50485   32   49558   02110   3   97896   1   44   38   8   21   52   48371   29   51629   50485   32   49558   02110   3   97886   1   46   37   52   22   8   48450   31   51550   50572   34   49428   02122   3   97886   1   48   37   36   22   24   48529   32   51432   50562   35   49384   02122   3   97878   1   48   37   36   22   24   48529   32   51471   50659   35   49384   02126   3   97870   1   49   37   28   22   32   48568   33   51432   50703   36   49297   02134   3   97860   1   51   37   22   24   48647   34   51353   50703   36   49297   02134   3   97860   1   51   37   22   24   48647   34   51353   50769   37   40141   02130   3   97870   1   51   37   2   22   48   48647   34   51353   50763   36   49297   02134   3   97856   15   37   4   22   56   48686   35   51314   50833   38   49167   02147   3   97855   51   36   48   23   12   48764   36   51236   50919   40   49081   02155   4   97849   55   36   48   23   12   48764   36   51236   50919   40   49081   02155   4   97849   55   36   6   23   4   48725   35   51175   50876   39   49124   02151   4   97849   55   36   6   23   4   48725   35   51175   50876   39   49124   02151   4   97849   55   36   6   23   4   48725   35   51175   50876   39   49124   02151   4   97849   55   36   6   23   4   48863   38   51119   51048   42   48952   02167   4   97835   56   36   6   23   4   48898   38   51119   51048   42   48952   02167   4   97835   60   36   0													25
38         38         56         21         4         48133         25         51867         50223         28         49777         02090         3         97906         2           40         9 38         40         2 21 20         9.48213         27         10.51787         9.50311         29         10.49689         10.02098         3         9.97906         2           41         38         32         21 28         48252         27         51748         50355         30         49645         02102         3         97890         1           42         38         24         21 36         48892         28         51708         50398         31         49602         02106         3         97890         1           43         38         16         21 44         48332         29         51668         50442         32         49558         02110         3         97896         1           44         38         8         21 52         48371         29         51689         50685         32         49515         02110         3         97886         1           45         93         0         222         2					24						2		24 23
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48         37         36         22         24         48529         32         51471         50659         35         49341         02130         3         97870         1           49         37         28         22         32         48568         33         51432         50703         36         49297         02134         3         97860         1           50         937         20         22         49         9.48607         33         10.51393         9.50746         37         10.49254         10.02139         3         9.97851         1           51         37         1         22         48         48647         34         51353         50789         37         10.49254         10.02143         3         97851         1           52         37         4         22         56         4886         35         51315         50876         39         49167         02147         3         97853           53         36         56         23         4         48725         35         51236         50876         39         49124         02151         4         97849           54         36													13
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51         37         12         22         48         48847         34         51353         50789         37         49211         02143         3         97857           52         37         4         22         56         48686         35         51314         50833         38         49167         02147         3         97853           53         36         56         23         4         48723         35         51275         50876         39         49124         02151         4         97849           54         36         48         23         12         48764         36         51236         50919         40         49081         02155         4         97845           56         36         32         23         28         48842         37         70.51197         9.50962         40         10.49038         10.02159         4         9.97841           57         36         24         23         36         48881         38         51119         51048         42         48905         02163         4         97837           58         36         16         23         44         48902						51432		_					11
52         37         4         22         56         48886         35         51314         50833         38         49167         02147         3         97853           53         36         48         23         12         48764         36         51236         59919         40         49081         02155         4         97849           55         9         36         40         2         32         20         9,48803         37         10.51197         9,50962         40         10.49038         10.02159         4         97845           56         36         32         23         8         48812         37         15158         51005         41         48905         02163         4         97837           57         36         24         23         36         4881         38         51119         51048         42         48952         02163         4         97837           58         36         16         23         44         49920         39         51080         51092         43         48988         02171         4         97829           59         36         8         23													10
53         36         56         23         4         48725         35         51275         50876         39         49124         02151         4         97849           54         36         48         23         12         48764         36         51236         59919         40         49081         02155         4         97849           55         9         48         0         23         20         9.48803         37         10.51197         9.50862         40         10.49038         10.02159         4         9.97841           56         36         32         23         28         48842         37         51158         51005         41         48995         02163         4         97837           57         36         24         23         36         48881         38         51119         51048         42         48955         02163         4         97837           58         36         16         23         44         48920         39         51080         51089         43992         434890         202171         4         97829           59         36         8         23         52													9 8
54         36         48         23         12         48764         36         51236         50919         40         49081         02155         4         97845           55         9         36         40         22         32         9,48803         37         10.51197         9,50962         40         10.49038         10.02159         4         9,7841           56         36         32         23         28         48842         37         51158         51005         41         48995         02163         4         97837           57         36         24         23         36         48881         38         51119         51048         42         48952         02167         4         97833           58         36         16         23         44         48920         39         51080         51092         43         48908         02171         4         97829           59         36         8         23         52         48959         39         51041         51135         43         4896         02175         4         97825           60         36         0         24         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8 7</td></t<>													8 7
55         9 36 40         2 23 20         9.48803         37         10.51197         9.50962         40         10.49038         10.02159         4         9.97841           56         36 32         23 28         48842         37         51158         51005         41         48995         02163         4         97837           57         36 24         23 36         48881         38         51119         51048         42         48952         02167         4         97833           58         36 16         23 44         48920         39         51080         51092         43         48808         02171         4         97829           59         36 8         23 52         48959         39         51041         51135         43         48865         02171         4         97829           60         36 0         24 0         48998         40         51002         51178         44         48822         02175         4         97821           M. Hour F.M. Hour A.M.         Cosine.         Diff.         Secant.         Cotangent.         Diff.         Tangent.         Cosecaut.         Diff.         Sine.         3													6
56         36         32         23         28         48842         37         51158         51005         41         48995         02163         4         97837           57         36         24         23         36         48881         38         51119         51048         42         48952         02167         4         97837           58         36         16         23         44         48920         39         51080         51092         43         48908         02171         4         97829           59         36         8         23         52         48959         39         51041         51135         43         48865         02175         4         97825           60         36         0         24         0         4898         40         51002         51178         44         48822         02179         4         97821           M.         Hour F.M.         Hour A.M.         Cosine.         Diff.         Secant.         Cotangent.         Diff.         Tangent.         Cosecant.         Diff.         Sine.         3													5
58         36         16         23         44         48920         39         51080         51092         43         48908         02171         4         97829         59         59         36         8         23         52         48959         39         51041         51135         43         48865         02175         4         97825         60         36         0         24         0         48998         40         51002         51178         44         48822         02179         4         97821           M.         Hour F. M.         Hour A. M.         Cosine.         Diff.         Secant.         Cotangent.         Diff.         Tangent.         Cosecant.         Diff.         Sine.         3	56	36 32	23 28	48842	37	51158	51005	41	48995	02163	4	97837	4
59     36     8     23     52     48959     39     51041     51135     43     48865     02175     4     97825       60     36     0     24     0     48988     40     51002     51178     44     48822     02179     4     97821       M.     Hour F.M.     Hour A.M.     Cosine.     Diff.     Secant.     Cotangent.     Diff.     Tangent.     Cosecant.     Diff.     Sine.     3													3
60     36     0     24     0     48998     40     51002     51178     44     48822     02179     4     97821       M. Hour F. M. Hour A. M. Cosine.     Diff.     Secant.     Cotangent.     Diff.     Tangent.     Cosecant.     Diff.     Sine.     3													$\frac{2}{1}$
M. Hour P.M. Hour A.M. Cosine. Diff. Secant. Cotangent. Diff. Tangent. Cosecant. Diff. Sine. 3													0
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A A B B C C		HOUR P. M.	HOUF A. M.		DIII.			ып.			Dill.		720
	107-					Α							

Seconds of time	1.	51	3.	4+	ija.	61	7*
Prop. parts of cols. $\begin{cases} A \\ B \\ C \end{cases}$	5	10	15	20	25	30	35
	6	11	17	22	28	33	39
	0	1	1	2	2	3	3

Page	790]

### TABLE 44.

150			A		A	В		В	c		c	1610
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosceant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	М.
0	9.36 0	2 24 0	9, 48998	0	10.51002	9, 51178	0	10, 48822	10. 02179	0	9,97821	60
1	35 52	24 8	49037	1	50963	51221	1	48779	02183	0	97817	59
2 3	35 44 35 36	24 16 24 24	49076 49115	1 2	50924 50885	51264 51306	1 2	48736 48694	02188 02192	0	97812 97808	58
1 4	35 28	24 32	49153	3	50847	51349	3	48651	02196	i o	97804	56
5	9 35 20	2 24 40	9, 49192	3	10.50808	9,51392	3	10, 48608	10. 02200	0	9,97800	55
- 6	35 12	24 48	49231	4	50769	51435	4	48565	02204	0	97796	54
\vec{i}{8}	35 4   34 56	24 56   25 4	49269 49308	4 5	50731 50692	51478 51520	5	48522 48480	02208 02212	0	97792 97788	53 52
9	34 48	25 12	49347	6	50653	51563	6	48437	02216	i	97784	51
10	9 34 40	2 25 20	9, 49385	- 6	10, 50615	9, 51606	-7	10. 48394	10. 02221		9, 97779	50
11	34 32	25 28	49424	7	50576	51648	- 8	48352	02225	1	97775	49
12	34 24 34 16	25 36 25 44	49462 ₄ 49500	8	50538 50500	51691 51734	S 9	48309 48266	02229 02233	1	97771 97767	48 .
14	34 IO	25 52	49539	9	50461	51776	10	48224	02235	i	97763	46
15	9 34 0	2 26 0	9, 49577	9	10.50423	9.51819	10	10. 48181	10. 02241	-i-	9, 97759	45
16	33.52	26 8	49615	10	50385	51861	11	48139	02246	1	97754	44
17	33 44	26 16	49654	11	50346	51903	12	48097	02250	1	97750	43
18 19	33 36 33 28	26 24 26 32	49692 49730	11	50308 50270	51946 51988	13	48054 48012	02254 02258	1	97746 97742	42 41
20	9 33 20	2 26 40	9, 49768	13	10, 50232	9, 52031	14	10, 47969	10. 02262	1	9, 97738	40
21	33 12	26 48	49806	13	50194	52073	15	47927	02266	1	97734	39
22	33 4	26.56	49844	14	50156	52115	15	47885	02271	2	97729	38
28 24	32 56 32 48	$\frac{27}{27} \frac{4}{12}$	49882 49920	14 15	50118 : 50080 :	52157 52200	16 17	47843 47800	02275 02279	2	97725 97721	37 36
25	9 32 40	2 27 20	9, 49958	16	10, 50042	9, 52242	-17	10: 47758	10, 02283	2	9, 97717	$\frac{30}{35}$
26	32 32	27 28	49996	16	50004	52284	18	47716	02287	2	97713	34
27	32 24	27 36	50034	17	49966	52326	19	47674	02292	2	97705	33
28	32 16	27 44	50072	18	49928	52368	20	47632	02296	2	97704	32
29	$\frac{32}{9.32} - \frac{8}{0}$	$\frac{27}{2} \frac{52}{28} = 0$	50110	-18	49890	52410	20 21	$\frac{1}{10}$ 47590	02300 10, 02304	-2	97700	31 30
31	9 32 0 31 52	28 8	9, 50148 50185	19	10, 49852 49815	9, 52452 52494	21	10, 47548 47506	02309	2	97691	29
32	31 44	28 16	50223	20	49777	52536	22	47464	02313	()	97687	28
33	31 36	28 - 24	50261	21	49739	52578	23	47422	02317	2	97683	27
34	31 28	28.32	50298	$\frac{21}{50}$	49702	52620	24	47380	02321	$-\frac{2}{2}$	97679	26
35 36	9 31 20 31 12	2 28 40 28 48	9, 50336 50374	23	10. 49664 49626	9, 52661 52703	24 25	10, 47339 47297	10. 02326 02330	3	97670	25 24
37	31 4	28 56	50411	23	49589	52745	26	47255	02334	3	97666	23
38	30.56	29 4	50449	24	49551	52787	27	47213	-02338	3	97662	22
39	30 48	$_{}^{29-12}$	50486	25	49514	52829	27	47171	02343		97657	21
40	9 30 40 30 32	2 29 20 29 28	9, 50523 50561	25	10, 49477 49439	9,52870 52912	28	10, 47130 47088	10, 02347 0235 <b>1</b>	3	9, 97653 97649	20 19
42	30 24	29 36	50598	26	49402	52953	264	47047	02355	3	97645	18
43	30 16	29 41	50635	27	49365	52995	30	47005	02360	3	97640	17
44	30 8.	29.52	50673	28	49327	53037	31	46963	02364	_3	97636	16
45	9 30 0	2 30 0	9, 50710	28	10, 49290	9, 53078	31	10,46922	10, 02368	3	9, 97632 97628	15 14
46	29 52 29 44	30 8 30 16	50747 50784	29	49253 49216	53120 53161	32	46880 46839	02372 02377	3	97628	13
48	29 36	30 24	50821	30	49179	53202	34	46798	02381	3	97619	12
49	29, 25	30.32	50858	31	49142	53244	34	46756	02385	_3	97615	11
50	9 29 20	2/30/40	9, 50896	31	10, 49104	9, 53285	35	10, 16715	10, 02390	4	9, 97610	10
51 52	29 12 29 4	30.48	50933 50970	32	49037	53327 53368	36	46673	02394 02398	4	97606 97602	8
53	28 56 28 56	31 4	50970 7 1007	33	45993	53409	137	46591	02398	4	97597	1 7
51	28 48	31 12	51043	31	48957	5 950	338	46550	02407	4	9759.1	6
55	9/28/40	2 31 20	9,51080	35	10, 48920	9, 53192	335	10, 16508	10, 02411	4	9, 97589	5
56	28 32 28 24	31 28	51117	35	18846	53503 53574	39	46467 16426	02416 02420	1	97584 97580	4
57 55	28 16 28 16	31 36	51154 51191	36	48809	53615	41	16426	02420	1	97576	2
59	28 8	31 52	51227	37	48773	50956	41	46314	02429	i	97571	1 1
60	25 0	32 0	51264	38	48736	53697	42	46303	02433	-1	97567	0
M.	Hourr M.	Hours M	Casine,	Init	Securit	Cotungent	Ditt.	Tangent	Cosecant.	Diff.	Sine	М.
105					Α.	В -		В	('		1.	110

Seconds of time,	1.	o,	3.	4.	Ty*	43+	71
Prop parts of cols, $\begin{cases} X \\ B \end{cases}$	5 5	9 10 1	14 16 2	19 21 2	24 26 3	25 31 3	233 337 4

190			A		Λ	В		В	C		C	160°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotange:.t.	Secant.	Diff.	Cosine	М.
0	9 28 0	2 32 0	9, 51264	0	10, 48736	9, 53697	0	10, 46303	10, 02433	0	9, 97567	60
1	27 52 27 44	32 8	51301	1	48699	53738	1	46262 46221	02437	0	97563	59
2 3	27 44 27 36	32 16 32 24	51338 51374	1 2	48662 48626	53779 53820	1 2	46180	02442 02446	0	97558 97554	58 57
4	27 28	32 32	51411	2	48589	53861	3	46139	02450	Ö	97550	56
-5	$9 \ 27 \ 20$	2 32 40	9.51447	3	10, 48553	9,53902	- 3	10.46098	10,02455	0	9.97545	55
- 6	27 12	32 48	51484	4	48516	53943	4	46057	02459	0	97541	54
7.	27 4 26 56	32 56 33 4	51520 51557	5	48480 48443	53984 54025	5	46016 45975	02464 02468	1	97536 97532	53 52
8 9	26 48	33 12	51593	5	48407	54065	6	45935	02472	1	97528	51
10	9 26 40	2 33 20	9, 51629	6	10. 48371	9,54106	7	10, 45894	10. 02477	1	9.97523	50
11	26 - 32	33 28	51666	7	48334	54147	7	45853	02481	1	97519	49
12	26 24	33 36	51702	7	48298	54187 54228	8	45813 45772	02485 02490	1	97515 97510	48
13 14	26 16 26 8	33 44 33 52	51738 51774	8	48262 48226	54228 54269	9	45731	02490	1	97506	47 46
15	9 28 0	2 34 0	9.51811	9	10, 48189	9,54309	10	10, 45691	10, 02499	1	9, 97501	45
16	25 52	34 8	51847	10	48153	54350	11	45650	02503	1	97497	44
17	25 44	34 16	51883	10	48117	54390	11	45610	02508	1	97492	43
18 19	25 36 25 28	34 24 34 32	51919 51955	11 11	48081 48045	54431 54471	12	45569 45529	02512 02516	1	97488 97484	42 41
20	9 25 20	2 34 40	9, 51991	12	10, 48009	9.54512	13	10. 45488	10. 02521	1	9, 97479	$\frac{11}{40}$
21	25 12	34 48	52027	12	47973	54552	14	45448	02525	2	97475	39
22	25 4	34 56	52063	13	47937	54593	15	45407	02530	2	97470	38
23 24	24 56 24 48	35 4 35 12	52099 52135	14 14	47901 47865	54633 54673	15 16	45367 $45327$	02534 02539	2 2	97466 97461	37 36
25	9 24 40	2 35 20	9, 52171	15	10, 47829	9.54714	17	10, 45286	10. 02543	2	9, 97457	35
26	24 - 32	35 28	52207	15	47793	54754	17	45246	02547	- 2	97453	34
27	24 24	35 36	52242	16	47758	54794	18	45206	02552	2	97448	33
28	24 16 • 24 8	35 44 35 52	52278	17	47722	54835	19	45165	02556 02561	2	97444 97439	32 31
30	9 24 8	2 36 0	52314 9, 52350	$\frac{17}{18}$	47686 10, 47650	54875 9, 54915	$\frac{19}{20}$	45125 10, 45085	10, 02565	2	9, 97435	$\frac{31}{30}$
31	23 52	36 8	52385	18	47615	54955	21	45045	02570	2	97430	29
32	23 44	36 16	52421	19	47579	54995	21	45005	02574	2	97426	28
33	23 36 23 28	36 24 36 32	52456 52492	20 20	47544	55035	22 23	44965 44925	02579 02583	2 3	97421 97417	27 26
34	9 23 20	2 36 40	9. 52527	21	47508 10, 47473	55075 9, 55115	23	10, 44885	10, 02588	3	9, 97412	25
36	23 12	36 48	52563	21	47437	55155	24	44845	02592	3	97408	24
37	23 4	36 56	52598	22	47402	55195	25	44805	02597	3	97403	23
38	22 56 22 48	37 4 37 12	52634 52669	23	47366	55235 55275	25 26	44765 44725	02601 02606	3	97399 97394	22 21
39 40	9 22 40	2 37 20	9. 52705	23	47331 10, 47295	9, 55315	27	10, 44685	10, 02610	3	9, 97390	20
41	22 32	37 28	52740	24	47260	55355	27	44645	02615	3	97385	19
42	22 24	37 36	52775	25	47225	55395	28	44605	02619	3	97381	18
43	22 16 22 8	37 44 37 52	52811	26	47189	55434	29 29	44566 44526	02624 02628	3	97376 97372	17 16
45	9 22 0	2 38 0	$\frac{52846}{9.52881}$	26	47154 10, 47119	55474 9, 55514	30	10, 44486	$\frac{02628}{10,02633}$	3	9, 97367	15
46	21 52	38 8	52916	27	47084	55554	31	41446	02637	3	97363	14
47	21 44	38 16	52951	28	47049	55593	31	44407	02642	3	97358	13
48	21 36 21 28	38 24 38 32	52986	29 29	47014	55633	32	44367 44327	02647 02651	4	97353 97349	12 11
49 50	9 21 28	2 38 40	53021 9,53056	30	46979 10, 46944	55673 9, 55712	$\frac{33}{33}$	10, 44288	10, 02656	1	9. 97344	10
51	21 12	38 48	53092	30	46908	55752	34	44248	02660	4	97340	9
52	21 4	38 56	53126	31	46874	55791	35	44209	02665	4	97335	8
53	20 56 20 48	39 4 39 12	53161	32	46839	55831	35 36	44169 44130	02669 02674	4	97331 97326	7 6
$\frac{54}{55}$	9 20 40	2 39 20	53196 9, 53231	32	46804 10.46769	55870 9,55910	36	10. 44090	10. 02678	4	9, 97322	- 5
56	20 32	39 28	53266	33	46734	55949	37	44051	02683	4	97317	4
57	20 24	39 36	53301	34	46699	55989	38	44011	02688	4	97312	3
58	20 16	39 44	53336	34	46664	56028	39	43972	02692 02697	4	97308 97303	2
59 60	20 S 20 0	39 52 40 0	53370 53405	35 36	46630 46595	56067 56107	39	43933 43893	02697	1	97299	0
_												-
М.	Hour P. M.	Hour A. M.	Cosine,	Diff.	Secant.	Cotangent	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
109°			Λ		.1.	В		В	C		(3	70°
_			-				~~~			CONTRACTOR A		-

Seconds of time	1.	24	53	4.	5,	Gr	7.
Prop. parts of cols.	4 1	9	13 15	18 20	22 25	27 30	31 85
	1	1	2	2	3	3	-4

Page 792]

TABLE 44.

200			A		Α	В		В	C		С	1590
М.	Honra, M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	М.
0	9 20 0	2 40 0	9, 53405	0	10. 46595	9, 56107	0	10. 43893	10. 02701	0	9, 97299	60
-1	19.52	40 8	53440	1	46560	56146	1	43854	02706	- 0	97294	59
2	19 44	40 16 1	53475	1	46525	56185	1	43815	02711	- 0	97289	58
3	19.36	40 24	53509	9	46491	56224	2	43776	02715	0	97285	57
4	19/28	40.32	53544		46456	56264	_3	43736	02720	_0	97250	56
5	9 19 20	2 40 40	9. 53578	3	10. 46422	9, 56303	3	10, 43697	10. 02724	0	9, 97276	55
- 6	19 12	40 48	53613	3	46357 46353	56342 56381	4	43658 43619	02729 02734	0	97271 97266	54 53
7	19 4 : 18 56	40 56 -	53647 53682	5	46318	56420	4 5	43580	02738	. 1	97262	52
- 61	18 48	41 12	53716	5	46284	56159	6	43541	02743	1	97257	51
10	9 18 40	2 41 20	9,53751	-6	10. 46249	9, 56498	6	10, 43502	10, 02748	1	9, 97252	50
11	18 32	41 28	53785	65	46215	56537	7	43463	02752	i	97248	49
12	18 24	41 36	53819	7	46181	56576	- 8	43424	02757	1	97243	48
13	18 16	41 44	53854	7	46146	56615	8	43385	02762	1	97238	47
14	18 8	41 52	53888	8	46112	56654	53	43346	02766	1	97234	46
15	9 18 0	2 42 0	9, 53922	8	10,46078	9, 56693	10	10,43307	10,02771	1	9,97229	45
16	17/52	42 8	53957		46043	56732	10	43268	02776	1	97224	44
17	17 44	42 16 42 24	53991	10	16009	56771	11	43229 43190	02780 02785	1	97220 97215	43 42
18	17 36 17 28	42 24 42 32	54025 54059	- 11	45975 45941	56849 56849	12	43151	02780	1	97210	141
20	9 17 20	2 42 40	9, 54093	11	10, 45907	9,56887	-13	10, 43113	10. 02794	-2	9, 97206	40
21	17 12	42 48	54127	12	45873	56926	13	43074	02799	$\frac{\tilde{2}}{2}$	97201	39
99	17 4	42.56	54161	12	45839	56965	14	43035	02804	- 2	97196	38
23	16.56	43 4	54195	13	45805	57004	15	42996	02808	2	97192	37
24	16.48	43 12	54229	14	45771	57042	15	42955	02813	2	97187	1 36
25	9 16 40	2 43 20	9,54263	14	10,45737	9,57081	16	10,42919	10,02818	2	9, 97182	; 35
26	16.32	43 28	54297	15	45703	57120	17	42880	02822		97175	34
27	16 24	43.36	54331	15	45669	57158	17	42842	02827	9	97173	1 33
28	16 16	43 44	54365	16 16	45635	57197 57235	18 19	42803 42765	02832 02837	2	97168 97163	32
29	16 8	43 52	54399 9, 54433		45601 10, 45567		19	10, 42726	10. 02841		9, 97159	30
30 31	9 16 0 15 52	2 44 0	9, 54433 54466	17	45534	9, 57274 57312	20	42688	02846	2	9, 97159	29
32	15 44	44 16	54500	18	45500	57351	21	42649	02851	3	97149	28
33	15 36	44 24	54534	19	45466	57389	21	42611	02855	. 3	97145	27
34	15 28	44 32	54567	19	45433	57428	22	42572	02860	3	97140	26
35	9 15 20	2 44 40	9, 54601	20	10, 45399	9, 57466	22	10, 42534	10,02865	3	9, 97135	25
36	15 12	44 48	54635	20	45365	57504	23	42496	02870	3	97130	24
37	15 4	44 56	54668	21	45332	57543	24	42457	02874	3	97126	23
38	14 56	45 4	54702	21	45298	57581	24	42419	02879	3	97121	22
39	14 48	45 12	54735	22	45265	57619	25	42381	02884	3	97116	21
40	9 14 40	2 45 20	9, 54769	23	10, 45231 45198	9, 57658 57696	26 26	10, 42342 42304	10.02889 02893	3	9, 97111 97107	20 19
41 42	14 32 14 24	45-28 45-36	54802 54836	24	45164	57734	27	42266	02898	3	97107	18
43	14 16	45 44	54869	24	45131	57772	- 55	42228	02903	3	97097	17
44	14 8	45.52	54903	25	45097	57810	28	42190	02908	3	97092	16
45	9 14 0	2 46 0	9, 54936	25	10, 45064	9,57849	29	10, 42151	10, 02913	4	9, 97087	15
46	13 52	46 8	54969	26	45031	57887	30	42113	02917	4	97083	14
17	13 44	46 16	55003	26	44997	57925	30	42075	02922	4	97078	13
48	13 36	46 24	55036	27	44964	57963	31	12037	02927	4	97073	12
49	13_28	46_32	55069	28	44931	58001	31	41999	02932	4	97068	11
50	9 43 20	2 46 40	9, 55102	28	10,44898	9, 58039	32	10, 41961	10, 02937	4	9, 97063	10
51	13 12	46.48	55136 55169	29	44864 44831	58077 58115	33	41923 41885	02941 02946	- 4	97059 97054	8
52 53	13 4 12 56	46 56	55202	30	14798	58153	34	41847	02951	4	97049	1 7
54	12 48	47 12	55235	30	44765	58191	35	41809	02956	4	97041	é
55	9 12 40	2 47 20	9, 55268	31	10, 44732	9, 58229	35	10, 41771	10, 02961	4	9, 97039	- 5
56	12 32	47 28	55301	32	44699	58267	36	41733	02965	- Á	97035	1 4
57	12 21	47 36	55334	32	44666	58304	37	41696	02970	4	97030	3
58	12 16	47 44	55307	33	44633	58342	37	41658	02975	5	97025	1 2
59	12 8	47.52	55100	33	44600	58380	38	41620	02980	5	97020	1
60	12 0	48 0	55433	1 34	44567	58418	39	41582	02985	5	97015	1
M	Hour P. M	Hour & M	Cosine.	Diff.	Secant.	Cotangent	Diff	. Tangent.	Cosecant.	Diff	Sine	М
110			Α	-	Α.	- B	-	B	e e			69
6 1 17												

Seconds of time,	11	24	::-	4.	5+	6.	7*
Prop. parts of cols. $\begin{cases} X \\ B \\ C \end{cases}$	4 5	5 10 1	13	17 19 2	21 24 3	25 29 4	30 34 4

					TA	BLE 44.					Page 7	93
1				Log.	Sines, Ta	-	d Sec					
210	,		. A			B		В	С		С	1580
М.	Hour A.M.	Hour P. M	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	M.
0 1	9 12 0	2 48 0 48 8	9, 55433 55466	0	10. 44567	9, 58418	0	10, 41582	10.02985	0	9, 97015	60
2	11 44	48 16	55499	I	44534 44501	58455 58493	1 1	41545 41507	02990 02995	0	97010 97005	59 58
3	11 36	48 24	55532	2	44468	58531	2	41469	02999	0	97001	57
4	11 28	48 32	55564	2	44436	58569	2	41431	03004	0	96996	56
5 6	9 11 20 11 12	2 48 40	9, 55597	3	10. 44403	9, 58606	3	10, 41394	10. 03009	0	9, 96991	55
7	11 12	48 48 48 56	55630 55663	3 4	44370 44337	58644 58681	1 1	41356 41319	03014 03019	1 0	96986 96981	54 53
8	10 56	49 4	55695	4	44305	58719	5	41281	03024	i	96976	52
9	10 48	49 12	55728	5	44272	58757	6	41243	03029	1	96971	51
10 11	9 10 40 10 32	2 49 20 49 28	9. 55761	5	10. 44239	9,58794	6	10.41206	10. 03034	1	9, 96966	50
12	10 32	49 28 49 36	55793 55826	6	44207 44174	58832 58869	7	41168 41131	03038 03043	1	96962 96957	49
13	10 16	49 44	55858	7	44142	58907	8	41093	03048	i	96952	47
14	10 8	49 52	55891	_ 7	44109	58944	9	41056	03053	1	96947	46
15 16	9 10 0 9 52	2 50 0 50 8	9, 55923 55956	8	10.44077	9.58981	9	10. 41019	10.03058	1	9.96942	45
17	9 44	50 16	55988	9	44044 44012	59019 59056	10	40981 40944	03063 03068	1	96937 96932	44 43
18	9 36	50 24	56021	10	43979	59094	11	40906	03073	1	96927	42
19	9 28	50 32	56053	10	43947	59131	12	40869	03078	2	96922	41
$\frac{20}{21}$	9 9 20 9 12	2 50 40 50 48	9, 56085 56118	11	10. 43915	9. 59168	12	10. 40832	10.03083	2 2	9.96917	40
22	9 4	50 56	56150	11 12	43882 43850	59205 59243	14	40795 40757	03088 03093	2	96912 96907	39 38
23	8 56	51 4	56182	12	43818	59280	14	40720	03097	2	96903	37
24	8 48	51 12	56215	13	43785	59317	15	40683	03102	2	96898	36
25 26	9 8 40 8 32	2 51 20 51 28	9, 56247 56279	13 14	10. 43753	9, 59354	15	10. 40646	10.03107	2 2	9. 96893	35
27	8 24	51 36	56311	14	43721 43689	59391 59429	16	40609 40571	03112 03117		96888 96883	34 33
28	8 16	51 44	56343	15	43657	59466	17	40534	03122	2 2	96878	32
29	8 8	51 52	56375	16	43625	59503	18	40497	03127	_2	96873	31
30 31	9 8 0 7 52	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9. 56408 56440	16 17	10. 43592 43560	9, 59540	19 19	10. 40460 40423	10.03132	3	9.96868	30
32	7 44	52 16	56472	17	43528	59577 59614	20	40386	03137 03142	3	96863 96858	29 28
33	7 36	52 24	56504	18	43496	59651	20	40349	03147.	3	96853	27
34	7 28	52 32	56536	18	43464	59688	21	40312	03152	_3	96848	26
35 36	9 7 20 7 12	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9, 56568 56599	19 19	10, 43432 43401	9, 59725	22 22	10. 40275 40238	10. 03157	3	9.96843	25
37	7 4	52 48 52 56	56631	20	43369	59762 59799	23	40238	03162 03167	3	96838 96833	24 23
38	6 56	53 4	56663	20	43337	59835	23	40165	03172	3	96828	22
39	6 48	53 12	56695	21	43305	59872	24	40128	03177	3	96823	21
40 41	9 6 40 6 32	2 53 20 53 28	9. 56727 56759	21 22	$10,43273 \\ 43241$	9. 59909	25 25	10.40091 40054	10. 03182	3	9. 96818	20
42	6 24	53 36	56790	22	43210	59946 59983	26	40017	03187 03192	3	96813 96808	19 18
43	6 16	53 44	56822	23	43178	60019	27	39981	03197	4	96803	17
44	6 8	53 52	56854	24	43146	60056	27	39944	03202	4	96798	16
45 46	9 6 0 5 52	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9.56886 56917	24 25	10. 43114 43083	9, 60093 60130	28	10. 39907 39870	10.03207 $03212$	4	9.96793	15
47	5 44	54 16	56949	25	43083	60166	28	39870 39834	03212	4	96788 96783	14 13
48	5 36	54 24	56980	26	43020	60203	30	39797	03222	4	96778	12
49	5 28	54 32	57012	26	42988	60240	30	39760	03228	4	96772	11
50 51	$\begin{bmatrix} 9 & 5 & 20 \\ & 5 & 12 \end{bmatrix}$	2 54 40 54 48	9, 57044 57075	27 27	10. 42956 42925	9. 60276 60313	31 31	10. 39724 39687	10. 03233 03238	4	9. 96767 96762	10
52	5 4	54 56	57107	28	42925	60349	32	39651	03243	4	96757	8
53	4 56	55 4	57138	28	42862	60386	33	39614	03248	4	96752	171
54	4 48	55 12	57169	_29	42831	60422	33	39578	03253	4	96747	6
55 56	9 4 40 4 32	2 55 20 55 28	9, 57201 57232	29 30	10. 42799 42768	9. 60459 60495	34 35	10. 39541 39505	10. 03258 03263	5	9. 96742 96737	5
57	4 24	55 36	57264	30	42736	60532	35	39468	03268	5	96732	3
58	4 16	55 44	57295	31	42705	60568	36	39432	03273	5	96727	2
59 60	4 8	55 52 56 0	57326 57358	32 32	$\frac{42674}{42642}$	60605 60641	36 37	39395 39359	03278 03283	5	96722 96717	$\frac{1}{0}$
М.	Hour P. M.	Hour A. M.		Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
111°			A		A	В		В	С		С.	65°
			Conord : 1 c		1:	2* 3* 1	40	50 60	7. 1			
			Second of tir	ме	1	- 3,	**	0, 0,	7.			

12 16 20 14 19 23 2 2 3

8 9 1

Prop. parts of cols.  $\begin{cases} A \\ B \\ C \end{cases}$ 

28 32 4

Page	7941

TABLE 44.

22.			A		Α.	В		В	C		C	1570
М.	Hour CM.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0.1	9 4 0	2.56 0	9, 5705%	0	10.42642	9. 60641	0	10. 39359	10, 03283	0	9, 96717	60
1	3.52	56 S	57389	1	42611	60677	1	39323	03289	0	96711	59
2	37.44	56 16	57420	1	42580	60714	1	39286	03294	0	96706	58
3 !	3.36	56-24	57451	2	42549	60750	2	39250	03299	0	96701	57
4 1	3 25	56, 32	57482	2	_42518	60786	2	30214	03304	0	56956	56
-5	9 3 20	2.56 40	9, 57514	3	10,42486	9, 60823	3	10, 39177	10,03309	0	9, 96691	55
- 5	3 12	56 48 56 56	57545 57576	3	42455 42424	60859 60895	4	39141 39105	03314 03319	. 1	96686 96681	54
7.	2.56	57 4	57607	4	42393	60931	5	39069	03319	1	96676	53 52
6	2.45	57 12	57638	5	42362	60967	5	35033	03330	i	96670	51
10	9 2 40	2 57 20	9, 57669	-5	10, 42331	9, 61004	-6	10, 38996	10. 03335	1	9, 96665	50
11	2 32	57, 28	57700	6	42300	61040	7	38960	03340	1	96660	49
12	2 24	57.36	57731	- 6	42269	61076	7	384/24	03345	1	96655	48
13	2 16	57 41	57762	-	42238	61112	5	388-5	03350	1	96650	47
14	2 8	57_52	57793	_7	42207	61148	_ 8	38852	03355	1_1_	96645	46
15 16	9 2 0	2.58 0	9, 57824	8	10, 42176	9, 61184	10	10.38816	10, 03360		· 9, 96640	45
17	1 44	58 - 8 58 - 16	57855 57885	9	42145 42115	61220 61256	10	38780 38744	03366 03371	1	96629	44
18	1 36	58 24	57916	9	42110	61292	11	38708	03376	2	96624	42
19	1 28	58 32	57947	10	42053	61328	11	38672	03381	2	96619	41
20	9 = 1 = 20	2 58 40	9,57978	10	10, 42022	9, 61364	12	10, 38636	10, 03386	· - 2	9, 96614	40
21	1 12	58.48	58008	11	41992	61400	13	38600	03392	. 2	96608	39
22	1 4	58.56	58039	11	41961	61436	13	38564	03397	2	96603	38
23	0.56	59 4	58070	12	41930	61472	14	38528	03402	2	96598	37
24	9 0 45	59-12	58101	12	41899	61508	14	38492	03407	-2	96593	36
25 26	9 0 40 0 32	2 59 20 59 28	9, 58131 58162	13	10, 41869 41838	9, 61544 61579	15 15	10, 38456 38421	10, 03412 03418	2	9, 96588 96582	35 34
27	0.52	59 36	58192	14	41808	61615	16	38385	03423	2	96577	33
28	0.16	59 44	58223	14	41777	61651	17	38349	03428	. 5	96572	32
29	0.5	59.52	58253	15	41747	61687	17	38313	03433	3	96567	31
30	9 0 0	3 - 0 - 0	9, 58284	15	10, 41716	9, 61722	18	10, 38278	10, 03438	3	9, 96562	30
31	8 59 52	0 8	58314	16	41686	61758	18	38242	03444	3	96556	29
32	59 44	0.16	58345	16	41655	61794	19	38206	03449	3	96551	28
33 34	59-36 59-38	0 24 0 32	58375 58406	17	† 41625 41594	61830 61865	20	38170 38135	03454 03459	3	96546 96541	27 26
35	8 59 20	3 0 40	9, 58436	18	10, 41564	9, 61901	20	10, 38099	10. 03465	1-3	9, 96535	25
36 36	59 12	0.48	9. 58456 58467	18	41533	61936	21	38064	03470	3	96530	25
37	59 4	0.56	58497	19	41503	61972		38028	03475	3	96525	23
38	58-56	1 4	58527	19	41473	62008	23	37992	03480	3	96520	22
39	58.48	1 12	58557	20	41443	62043	23	37957	03486	3	96514	21
40	8 58 40	3 1 20	9,58588	20	10.41412	9, 62079	24	10.37921	10.03491	13	9, 96509	20
41	58, 32	1.28	58618	. 21	41382	62114	24	37886	03496	1 4	96504	19
42 43	58-24 58-16	1 36	58648	21	41352	62150	25	37850	03502	1 1	96498	18
44	58 16 58 5	1 44 1 52	58678 58709	220	41322 41291	62185 62221	26 26	37815 37779	03507 03512	4	96493 96488	17 16
45	8 58 0	$\frac{1}{3} \frac{32}{2} \frac{0}{0}$	9, 58739	23	10, 41261	9, 62256	27	10. 37744	10. 03517	-4	9, 96483	15
46	57 52	5 2 0 2 8	58769	23	41231	69999	27	37708	03523	1 4	96477	14
47	57 44	2 16	58799	24	41201	62327	28	37673	03525	4	96472	13
48	57, 36	2 24	58829	21	41171	62362	29	37638	03533	4	96467	12
49	57, 28	2.32	58859	25	41141	62398	29	37602	03539	4	96461	11
50	57 20	3 2 40	9, 58889	25	10, 41111	9, 62433	30	10, 37567	10, 03544	4	9, 96456	10
51 52	57 12 57 4	2 48 2 56	58919 58949	26 26	41081 11051	62468 62504	30	37532	03549 03555	5	96451 96445	8
53	56 56	3 4	58949 58979	26	11051	62539	31	37496 37461	03555	5	96440	7
54	56 48	3 12	59009	27	40991	62571	32	37426	03565	5	96435	6
55	\$ 56 40	3 3 20	9, 59039	28	10, 40961	9, 62509	33	10, 37391	10, 03571	-5	9, 96429	5
56	56.32	3.28	59069	28	40931	62645	1113	37355	03576	- 5	96424	4
57	56.24	3 36	5:098	29	40902	62680	34	37320	03581	- 5	96419	- 3
5%	56 16	3 44	59128	20	40872	62715	3.7	37285	03587	5	96413	2
59	56 S 56 0	3.52	59158 59188	30	40812 40812	62750	255 235	37250 37215	03592	5 5	96408 96403	1
6(1	.36, 41	1 0	39188	:11	40842	62785	. 45	5,215	03597	0	(40-40)(	0
71	Нотек	Hour v. M.	Costi	Diff	Secont	Cotangent	Dist	Tangent	Cosciant	Diff.	Sine,	М.
112			\		Α	В		3:	€.		1.	67

-modeled tire		1.	2.	32	1.	÷	65-	71.
Prop parts of cols	[3]	4 1	:	11	15	19	23 27 1	37 81

	TABLE 44. [Page 795												
				Log.	Sines, Tan	gents, and	l Sec						
230			2 5 A		A	В		В	c			156°	
М.	Houra. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	М.	
0	8 56 0	3 4 0	9.59188	0	10, 40812	9, 62785	0	10, 37215	10, 03597	0	9, 96403	60	
$\frac{1}{2}$	55 52 55 44	$\frac{4}{4} \frac{8}{16}$	59218 59247	0	40782 40753	62820 62855	1	37180 37145	03603 03608	0	96397 96392	59 58	
3	55 36	4 24	59277	1	40723	62890	- 2	37110	03613	0	96387	57	
4	55_28	4 32	59307	2	40693	62926	2	37074	03619	0	96381	56	
5 6	8 55 20 55 12	3 4 40 4 48	9, 59336 59366	3	10. 40664 40634	9, 62961 62996	3	10, 37039 37004	10, 03624 03630	0	9, 96376 96370	55 54	
7	55 4	4 56	59396	3	40604	63031	4	36969	03635	î	96365	53	
- 8 9	54 56 54 48	5 4 5 12	59425 59455	4	40575 40545	63066 63101	5	36934 36899	03640 03646	1	96360 96354	52 51	
$\frac{9}{10}$	8 54 40	3 5 20	9, 59484	5	10. 40516	9, 63135	6	10, 36865	10, 03651	1	9, 96349	50	
11	54 32	5 28	59514	5	40486	63170	6	36830	03657	1	96343	49	
12	54 24	5 36	59543	6	40457	63205	7	36795	03662	1	96338	48	
13 14	54 16 54 8	5 44 5 52	59573 59602	6	40427 40398	63240 63275	7	36760 36725	03667 03673	1	96333 96327	47 46	
15	8 54 0	3 6 0	9.59632	7	10,40368	9, 63310	9	10. 36690	10, 03678	1	9,96322	45	
16	53 52	6 8	59661 59690	8	40339	63345 63379	10	36655 36621	03684 03689	1 2	96316	44	
17 18	53 44 53 36	6 16 6 24	59690	8	40310 40280	63414	10	36586	03695	2	96311 96305	43 42	
19	53 28	6 32	59749	9	40251	63449	11	36551	03700	2	96300	41	
20	8 53 20	3 6 40	9, 59778	10	10. 40222	9.63484	12 12	10. 36516	10, 03706	$\frac{2}{2}$	9.96294	40	
21 22	53 12 53 4	6 48 6 56	59808 59837	10 11	40192 40163	63519 63553	13	36481 36447	03711 03716	2	96289 96284	39 38	
25	$52 \ 56$	7 4	59866	11	40134	63588	13	36412	03722	2	96278	37	
24	52 48	7 12	59895	12	40105	63623	14	36377	03727	$\frac{2}{2}$	96273	$\frac{36}{35}$	
25 26	8 52 40 52 32	3 7 20 7 28	9. 59924 59954	12 13	10, 40076 40046	9, 63657 63692	14	36308	10. 03733 03738	2	9, 96267 96262	34	
27	52 24	7 36	59983	13	40017	63726	16	36274	03744	- 2	96256	33	
28 29	52 16 52 8		60012 60041	14	39988 39959	63761 63796	16 17	36239 36204	03749 03755	3	96251 96245	32 31	
$\frac{29}{30}$	8 52 0	$\frac{752}{380}$	9,60070	15	10. 39930	9, 63830	17	10. 36170	10. 03760	$-\frac{3}{3}$	9. 96240	30	
31	51 52	8 8	60099	15	39901	63865	18	36135	03766	3	96234	29	
32	51 44 51 36	8 16 8 24	60128 60157	15 16	39872 39843	63899 63934	18	36101 36066	03771 03777	3	96229 96223	28 27	
34	51 28	8 32	60186	16	39814	63968	20	36032	03782	3	96218	26	
35	8 51 20	3 8 40	9, 60215	17	10. 39785	9,64003	20	$\overline{10.35997}$	10.03788	. 3	9, 96212	25	
36 37	51 12 51 4	8 48 8 56	60244 60273	17	39756 39727	64037 $64072$	21	35963 35928	03793 03799	3	96207 96201	24 23	
38	50 56	9 4	60302	18	39698	64106	22	35894	03804	3	96196	22	
39	50 48	9 12	60331	19	39669	64140	22	35860	03810	4	96190	21	
40 41	8 50 40 50 32	3 9 20 9 28	9, 60359 60388	19	10, 39641 39612	9, 64175 64209	23 24	10. 35825 35791	10. 03815 03821	4	9, 96185 96179	20 19	
42	50 24	9 36	60417	20	39583	64243	24	35757	03826	4	96174	18	
<b>4</b> 3	50 16	9 44	60446	21	39554	64278	25	35722	03832	4	96168	17	
$\frac{44}{45}$	50 S 8 50 0	$\frac{9.52}{3.10 - 0}$	9,60503	21	39526	9. 64346	25	35688 10, 35654	03838	4	96162	$\frac{16}{15}$	
46	49 52	10 8	60532	22	39468	64381	26	35619	03849	4	96151	14	
47	49 44	10 16	60561	23	39439	64415	27	35585	03854	4	96146	13	
48 49	49 26 49 28	10 24 10 32	60589 60618	23	39411 39382	64449 64483	28 28	35551 35517	03860 03865	4	96140 96135	12 11	
50	8 49 20	3 10 40	9, 60646	24	10. 39354	9, 64517	29	10.35483	10, 03871	5	9, 96129	10	
51	49 12	10 48 10 56	60675 60704	25 25	39325 39296	64552 64586	30	35448 35414	03877 03882	5	96123 96118	9 8	
52 53	49 4 48 56	10 56	60732	26	39296	64620	31	35380	03888	- 5	96112	7	
54	48.45	11 12	60761	26	39239	64654	31	35346	03893	- 5	96107	6	
55	8 48 40	3 11 20	9,60789	27 27	10. 39211	9.64688	32 32	10. 35312 35278	10. 03899 03905	5	9, 96101 96095	5 4	
56 57	48 32 48 24	11 28 11 36	60818 60846	28	39182 39154	64722 64756	33	35248	0:305	5	96090	3	
58	48 16	11 44	60875	28	39125	64790	33	35210	03916	5	96084	2	
59 60	48 5 48 0	11 52 12 0	60903 60931	29 29	39097 39069	64824 64858	34	35176 35142	03921 03927	5	96079 96073	1 0	
_										_		-	
М.	Hour P.M	Поига, м.	Cosine.	Diff.	Secant.	1	Diff.		Cosecant.	Diff.	Sine.	М.	
113	Unaborican in con		.\		.\	В		В	С		С	660	

Seconds of time	1*	25	3,	4+	5.	6:	7.
Prop. parts of cols. $\begin{cases} A \\ B \\ C \end{cases}$	4 1	7 9 1	11 13 2	15 17 3	18 22 3	22 26 4	25 3 <b>1</b> 5

Page 796]

TABLE 44.

Mar.   Mour.   Mour.   Mour.   Sleve   Daff.   Cosecant.   Tangent.   Part   Cotangent.   Secant.   Daff.   Codine.   Mar.   No.	240			A		A	В		В	C		C	155°
1	М.	Нопт А. М.	Hour P. M	Sine,	Diff.	Cosecant.	Tangent,	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
24   47   48   12   26   60888   1   300 2   64926   1   33074   63383   0   900 2   58   44   738   12   23   610 46   2   380 55   649 60   2   350 60   639 55   0   900 56   57   57   47   20   31   24   61101   3   3889    650 62   3   340 25   360 56   1   900 55   55   58   47   20   31   24   61101   3   3889    650 62   3   349 8   039 61   1   900 55   58   58   46   56   61129   3   3887    650 60   4   34870   039 72   1   900 55   58   58   46   56   513   4   61158   4   38812   65130   4   34870   039 72   1   900 55   55   58   40   50   50   50   50   50   50   50				9, 60931	0	10, 39069	9, 64858	0	10. 35142	10. 03927	0		60
4   47   28   12   22   61016   1   3.894   6496   2   3.906   6384   0   9.9654   58   58   47   20   31   24   0   9.61073   2   10.3895   7   9.6502   3   3.906   6385   0   9.9605   58   58   66   64   72   12   48   61101   3   3.8896   65062   3   3.998   1   9.9605   58   67   67   67   67   67   67   67   6													
4   47   28   12   22   61045   2   33.955   64964   2   33.066   63355   6   94.054   55.65   6   47   12   12   48   61101   3   33.8589   65.062   3   34.958   63.060   1   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   6   94.078   55.65   55.65   6   94.078   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.65   55.	2 3												
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6 47 12 12 48 61101 3 3 38899 65002 3 34938 03961 1 96639 54 7 47 4 12 56 61129 3 38871 65066 4 34910 03966 1 96634 53 8 46 56 13 4 6158 4 38812 65130 4 34970 03972 1 96028 52 10 8 46 40 8 13 12 61186 4 38814 65164 5 34836 03978 1 96028 51 10 8 46 40 8 13 12 6128 6 61220 6 38750 65265 7 34735 03965 1 96605 18 11 46 24 13 36 61270 6 38750 65265 7 34735 03965 1 96605 18 13 46 16 13 44 61288 6 38760 65295 7 34735 03965 1 96606 47 14 46 8 13 152 61326 6 38674 65323 8 34600 04060 1 96605 1 15 8 46 0 3 14 0 9,61354 7 10,38649 1 65324 8 34600 04060 1 95605 48 16 45 52 14 8 61322 7 33618 65300 9 34600 04018 2 95608 1 1 18 46 46 13 44 4 14 16 61411 8 3858 1 65300 9 34600 04018 2 95608 1 1 19 45 28 14 32 61460 9 38542 65343 9 34600 04018 2 95608 4 1 1 20 8 45 20 3 14 0 9,61494 9 10,38540 65305 1 10,34463 00,000 1 2 95071 42 19 45 24 14 8 61522 1 0 38540 65506 1 34409 04019 2 95071 42 20 4 5 4 14 14 16 61541 1 3442 6 1438 8 3589 6 65344 9 34600 04018 2 95608 4 1 1 20 8 45 20 3 14 20 9,61460 9 38544 65501 11 34190 0405 2 95071 42 21 44 14 15 6 61550 10 3453 6 65508 11 3493 04005 2 95071 42 22 45 5 4 14 5 6 61550 10 3453 6 65508 11 3493 04005 2 95071 42 23 44 5 6 15 4 6 61578 11 3442 6 6158 1 3 3483 04009 2 95071 42 24 44 8 15 12 61600 11 38438 6 65508 11 0.34468 00.0408 2 95605 41 25 8 44 10 3 15 20 61600 11 38438 6 65508 11 0.34468 00.0408 2 95605 41 25 8 44 10 3 15 20 61600 11 38438 6 65508 11 0.34468 00.0408 2 95605 41 26 44 32 15 28 66608 11 38430 65508 13 34331 04003 2 95608 3 34000 3 2 95608 3 34000 3 3 34000 3 2 95608 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3400 3 3 3 3												Annual Control	
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53   10 56   19 4   62405   24   37595   66638   30   33364   01231   5   95760   7   54   40 48   19 12   62432   25   37568   66669   30   33364   04237   5   95760   6   55   840 40   3 19 20   9,62459   25   10,37541   9,66702   31   10,33265   10,04237   5   95750   6   56   40 32   19 28   62486   26   37544   9,66702   31   10,33265   04249   5   95755   5   56   40 32   19 36   62513   26   37487   66768   32   33232   04249   5   957751   1   57   40 24   19 36   62513   26   37487   66768   32   33232   04255   5   95751   2   58   40 8   19 52   62568   27   37432   66831   33   33166   04267   6   95739   2   59   40 8   19 52   62568   27   37432   66831   33   33166   04267   6   95739   2   6   40 0   20 0   62595   28   37405   66867   35   33133   04272   6   95728   0   40   40 0   20 0   62595   28   37405   66867   35   33133   04272   6   95728   0   40   40 0   20 0   62595   28   37405   66867   35   33133   04272   6   95728   0   40   40 0   20 0   62595   28   37405   66867   35   33133   04272   6   95728   0   40   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0   40 0													1 ' 1
54         40         18         19         12         62432         25         37568         66669         30         30031         10,4237         5         95760         6           55         8         40         0         31         90         9,62459         25         10,37541         9,66702         31         10,33298         10,01243         5         9,5755         5           56         40         32         19         28         62486         26         37514         66735         31         33295         04249         5         95751         5           57         40         24         19         36         62513         26         37487         66768         32         33292         04255         5         95745         2           58         40         16         19         41         62541         27         37459         66801         32         33199         04261         6         95739         2           59         40         8         19         52         62568         27         37459         66831         33         33166         01267         6         95733         1													
56         40         32         19         28         62486         26         37544         66735         31         33265         04249         5         95751         1           57         40         24         19         36         62513         26         37487         66768         32         33292         04235         5         95745         2           58         40         16         19         4         62541         27         37459         66801         32         33199         04261         6         95739         2           59         40         8         19         52         62568         27         37432         66831         33         33166         01267         6         95733         1           60         40         0         20         62568         27         37405         66867         35         33133         04272         6         95728         0           M.         Hour ex         Hour ex         Hour ex         Hour ex         Cosine         buf         Secant         Cotangent         10f         Tangent         Coseant         Diff         sine         M	1	40.48	19-12	62432	25		66669	30			- 5		
57   40 24   19 36   62513   26   37487   66768   32   33232   04255   5   95745   2   58   40 16   19 44   62541   27   37459   66801   32   33199   04261   6   95739   2   59 40   8   19 52   62568   27   37432   66831   33   33166   04267   6   95773   1   60   40 0   20 0   62595   28   37405   66867   33   33133   04272   6   95728   0   M.													
58					26								
59   40   8   19 52   62568   27   37432   66831   33   33166   01267   6   95723   1   60   40   0   20   0   62595   28   37405   66867   33   33133   04272   6   95728   0   M.													
60 40 0 20 0 62595 28 37405 66867 33 33133 04272 6 95728 0 M. Hourest Hourast Cosine Diff Secant Cotangent 10ff Langent Coseant [Out. Sine M.													
M. Hourry Houran Cosine Diff Secant Cotangent Infl Langent Cosecant Diff. Sine M													
	,	Hour to g	Hone a re	Control	Liter	Same		Lord	Turnin na		friet		,
113 A A B B C C 66	1	11/101 1: 14	mont CA		-	_		11111	,		1911.		' 1
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Seconds a time	11	2.	46	1.	51	6.	2+
Seconds of time $ \begin{aligned} &\text{Prop. parts of cols} \; \begin{cases} A \\ B \\ C \end{cases} \end{aligned} $	.; 4 1	7 8	10 13 1 2	11 17 3	17 21 4	21 25 4	24 29 5

Log.	Sines,	Tangents,	and	Secants.
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250			A	GOE.	A	B B	i rec	В	$\mathbf{c}$		$\mathbf{c}$	154°
M.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	м.
0	8 40 0	3 20 0	9. 62595	0	10. 37405	9.66867	0	10. 33133	10, 04272	0	9, 95728	60
1 2	39 52 39 44	20 8 20 16	62622 62649	0	37378 37351	66900 66933	1	33100 33067	04278 04284	0	95722 95716	59 58
3	39 36	20 24	62676	1	37324	66966	2	33034	04290	0	95710	57
$\frac{4}{5}$	39 28 8 39 20	3 20 40	$\frac{62703}{9,62730}$	$\frac{2}{2}$	37297 10, 37270	66999 9, 67032	$\frac{2}{3}$	33001 10. 32968	04296 $10.04302$	$\frac{0}{1}$	95704 9, 95698	55
-6	39 12	20 48	62757	3	37243	67065	3	32935	04308	1	95692	54
7 8	$\frac{39}{38} \frac{4}{56}$	20 56 21 4	62784 62811	3	37216 37189	67098 67131	1 1	32902 32869	04314 04320	1	95686 95680	53 52
9	38 48	21 12	62838	4	37162	67163	5	32837	04326	i	95674	51
10 11	8 38 40 38 32	3 21 20 21 28	9. 62865 62892	4 5	10. 37135 . 37108	9, 67196 67229	5 6	$10.32804 \\ 32771$	10. 04332 04337	1	9.95668 95663	50 49
12	38 24	21 36	62918	5	37082	67262	7	32738	04343	1	95657	48
13	38 16	$\begin{array}{ccc} 21 & 44 \\ 21 & 52 \end{array}$	$62945 \\ 62972$	6	37055 37028	67295 67327	8	32705 32673	04349 04355	1	95651 95645	47
$\frac{14}{15}$	38 8 8 38 0	$\frac{21}{3} \frac{32}{22} \frac{0}{0}$	9.62999	$\frac{6}{7}$	10, 37001	9, 67360	8	10. 32640	10. 04361	$-\frac{1}{2}$	9, 95639	$-\frac{46}{45}$
16	37 52	22 8	63026	7	36974	67393	9	32607	04367	2	95633	44
17 18	37 44 37 36	22 16 22 24	63052 63079	8	36948 36921	67426 67458	10	32574 32542	04373 04379	2 2	95627 95621	43 42
19	37 28	22 32	63106	8	36894	67491	10	32509	04385	2	95615	41
$\frac{20}{21}$	8 37 20 37 12	3 22 40 22 48	9. 63133 63159	9	10. 36867 36841	9. 67524 67556	11 11	10. 32476 32444	10. 04391 04397	$\frac{2}{2}$	9. 95609 95603	40 39
22	37 <b>4</b>	22 56	63186	10	36814	67589	12	32411	04403		95597	38
23 24	36 56 36 48	$\begin{array}{ccc} 23 & 4 \\ 23 & 12 \end{array}$	63213 63239	10 11	36787 36761	$67622 \\ 67654$	12	32378 32346	04409 04415	2 2 2	95591 95585	37 36
$\frac{24}{25}$	8 36 40	3 23 20	9, 63266	11	10, 36734	9.67687	14	10, 32313	10, 04421	3	9, 95579	35
26	36 32	23 28	63292	11	36708	67719	14	32281	04427	3	95573	34
$\frac{27}{28}$	36 24 36 16	23 36 23 44	63319 63345	12 12	36681 36655	67752 67785	15 15	32248 32215	04433 04439	3	95567 95561	33
29	36 8	23 52	63372	13	36628	67817	16	32183	04445	3	95555	31
30 31	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 24 0 24 8	9. 63398 63425	13 14	10. 36602 36575	$9.67850 \\ 67882$	16 17	10. 32150 32118	$10.04451 \\ 04457$	3	9. 95549 95543	30 29
32	35 44	24 16	63451	14	36549	67915	17	32085	04463	3	95537	28
33 34	35 36 35 28	24 24 24 32	63478 63504	15 15	36522 36496	67947 67980	18 18	32053 32020	04469 04475	3	95531 95525	27 26
35	8 35 20	3 24 40	9. 63531	15	10. 36469	9.68012	19	10.31988	10.04481	4	9.95519	25
36	35 12	24 48 24 56	63557	16	36443	68044 68077	20 20	31956 31923	04487 04493	4	95513 95507	24 23
37 38	35 4 34 56	25 4	63583 63610	16 17	36417 36390	68109	21	31891	04500	4	95500	22
39	34 48	25 12	63636	17	36364	68142	21	31858	04506	4	95494	21
40 41	8 34 40 34 32	3 25 20 25 28	9, 63662 63689	18 18	10. 36338 36311	9.68174 68206	22 22	10.31826 31794	10, 04512 04518	4	9. 95488 95482	20 19
42	34 24	25 36	63715	19	36285	68239	23	31761	04524	4	95476	18
43 44	34 16 34 8	25 44 25 52	63741 63767	19 19	36259 362 <b>33</b>	68271 68303	23 24	31729 31697	04530 04536	4	95470 95464	17 16
45	8 34 0	3 26 0	9.63794	20	10.36206	9,68336	24	10.31664	10.04542	- 5	9.95458	15
46 47	33 52 33 44	26 8 26 16	63820 63846	20 21	36180 36154	68368 68400	25 25	31632 31600	04548 04554	5 5	95452 95446	14 13
48	33 36	26 24	63872	21	36128	68432	26	31568	04560	- 5	95440	12
49	33 28	26 32 3 26 40	63898 9, 63924	- 22	36102 10, 36076	68465 9, 68497	27	31535 10, 31503	04566 10, 04573	5	95434 9, 95427	$\frac{11}{10}$
50 51	8 33 20 33 12	26 48	63950	23	36050	68529	28	31471	04579	5	95421	9
52	33 4	26 56	63976	23 23	36024 35998	68561 68593	28	31439 31407	$04585 \\ 04591$	5 5	95415 95409	8 7
53 54	32 56 32 48	27 4 27 12	64002 64028	25	35972	68626	29	31374	04597	5	95403	- 6
55	8 32 40	3 27 20	9, 64054	24	10. 35946	9, 68658	30	10. 31342	10, 04603	6	9, 95397	5
56 57	32 32 32 24	27 28 27 36	64080 64106	25 25	35920 35894	68690 68722	30	31310 31278	04609 04616	6 6	95391 95384	3
58	32 16	27 44	64132	26	35568	68754	31	31246	04622	6	95378	2
59 60	32 8 32 0	27 52 28 0	64158 64184	26 26	35842 35816	68786 68818	32	31214 31182	04628 04634	6	95372 95366	0
М.	Hour P. M.	Hour A. M.	Cosine,	Diff.	Secant.	Cotangent.		Tangent.	Cosecant.	Diff.	Sinc.	М.
115°	Loui F. M.	Hour A. M.	A A		A A	B B		В	Coperation			640

Seconds of time	11	2 .	33 =	4:	5.	G+	7.
Prop. parts of cols. $\begin{cases} A \\ B \end{cases}$	3	7	10	13	17	20	23
	4	8	12	16	20	24	28
	1	2	2	3	1	5	5

P	age 798]			TAI	3LE 44.						
			Log.	Sines, Tar		l Sec					
260					В		E	е с		C	1530
М	Hour A. M. Hour P. M.	Sine.	Diff.	Cosecant	Tangent.	Duff.	Cotungent	Secant.	Diff.	Cosine.	М.
0	8 32 0 3 28 0	9, 64184	0	10, 35816	9,68818	()	10.31182	10, 04634	$\Theta$	9, 95366	60
$\frac{1}{2}$	31 52 28 8 31 44 28 16	64210 64236	1	35790 35764	68850 68882	1	31150 31118	04640	0	95360 95354	59 58
3	31 36 28 24	64262	1	35758	68914	- )	31086	04652	0	95348	57
.4	31 28 28 32	64288	2	35712	68946	-2	31054	04659	()	95341	ōб
5 6	8 31 20 - 3 28 40 31 12 - 28 48	9, 64313 64339	2	10, 35687 35661	9, 68978 69010	3	30990	10, 04665 04671	1	9, 95335 95329	55 . 54
7	31 4 28 56	64365	3	35635	69042	4	30958	04677,	1	95323	53
- 8	30.56 29 4	64391	3	35609	69074	4	30926	(4683	1	95317	52
9 10	30 48 29 12 8 30 40 3 29 20	64417 9.64442	-1	35583 10, 35558	69106	.5 .5	30894	04690 10, 04696	$-\frac{1}{1}$	95310 9, 95304	$\frac{51}{50}$
10	30 32   29 28	64468	5	35532	69170	15	30830	04702	. 1	95298	49
12	30 24   29 36	61494	- 5	35506	69202	6	30798	94704	1	95292	48
13 14	30 16 29 44 30 8 29 52	64519 64545	5 6	35481 35455	69234 69266	7	30766 30734	04714 04721	1	95286 95279	47 46
15	5 30 0 3 30 0	9, 64571	-6	10, 35429	9, 69298	- 4	10, 30702	10. 04727	-2	9,95273	45
16	$29.52 \pm 30.8$	64596	7	35404	69329	5	30671	04733	2	95267	44
17 18	29 44 30 16 29 36 30 24	64622 64647	7	35378 35353	69361 69393	9	30639 30607	04739 04746	2 2	95261 95254	43 42
19	29 28 30 32	64673	S	35327	69425	10	30575	01752	2	95248	-11
20	8 29 20 3 30 40	9, 64698	8	10,35302	9, 69457	11	10, 30543	10, 04758	2	9, 95242	40
21	29 12 30 48 29 4 30 56	64724 64749	9	35276 35251	69488 69520	11	30480	04764	2 2	95236 95229	39
23	28 56 31 4	64775	10	35225	69552	12	30448	04777	2	95223	37
24	28 48 31 12	64800	10	35200	69584	13	30416	04783	_3	95217	36
25 26	8 28 40 3 31 20 28 32 31 28	9, 64826 64851	11	35149	9, 69615 69647	13	10, 30385	10, 04759	3	9, 95211 95204	35 34
27	28 24 31 36	61877	11	35123	62679	11	30321	04502	.3	95198	33
25	28 16 31 44	64902	12	25098	69710	15	30290	04808	3	95192	32
29 30	28 8 31 52 8 28 0 3 32 0	64927 9, 64953	12 13	35073	69742 9, 69774	15 16	30258	04815 10.04821	-3	95185	31_30
31	27 52 32 8	61978	13	35022	69805	16	30195	04827	3	95173	29
32	27 44 32 16	65003	14	34997	69837	17	30163	04833	3	95167	28
33 34	27 36 32 24 27 28 32 32	65029 65054	14	34971 34946	69868	17	30100	04846 04846	3 4	95160 95154	27 26
35	8 27 20 3 32 40	9,65079	15	10, 04921	9, 69932	18	10, 30068	10, 04852	4	9, 95148	25
36	27 12 32 48	65104	15	211896	69963	19	00007	04859	4	95141	24
37 38	27 4 32 56 26 56 33 4	65130 65155	16	04870 54845	69995 70026	20	29974	04865 04871	4	95135 95129	23
39	26 48 33 12	65180	1ti	34820	70055	24	29042	04878	4	95122	21
40	8 26 40   3 33 20	9, 65205	17	10, 04795	9, 700×9	21	10, 29911	10,01881	4	9,95116	20
41 42	26 32 33 28 26 24 33 36	65230 65255	17	34770 31745	70121 70152	100	29848 29848	04890	. 4	95110 95103	19 18
43	26 16 33 44	(528)	15	34719	70181	11.1	29816	0.[505]	- 5	95097	17
44	26 8 33 52	65306	1.4	34694	70215	23	19785	04940	- 5	5020000	16
45 46	8 26 0 3 31 0 25 52 34 8	9, 65 331 65356	19	31641	9, 70097 70075	24	10, 29, 53	10, 04216 04922	5 5	9, 95084 95078	15 14
47	25 411 04 16	65381	20	.1464.4	7.5,09	25	22.9394	(4)929	- 5	95071	13
45	25 06 04 24 25 28 34 02	65406 65151	20	34569	76544 70.52	25 26	29659 29628	04935 04941	5 5	95065 95059	12 11
50	25 28 - 34 52 8 25 20 - 3 31 40	9, 65 456	21	10, 34544	9, 70404	26	10, 29596	10.01935	ā	9, 95052	10
51	25 12 - 34 18	65481		34510	704.35	27	29565	04954	- 5	105046	9
52 50	25 4 04 56 94 56 35 4	65506 65501	13-3	34 69	70466 70498	27	29504 29502	04967	5 6	95039 95033	S
51	24 56 - 35 d 24 B - 75 d2	165556	23	34177	1000	25	29474	04973	6	95027	6
55	8 24 40 0 5 20	9, 6,550	2.1	10,537,20	36 70566	29	10, 29140	10, 04980	ti	9,95020	5
56	24 32 35 2 24 24 5 35	156.0	21	34576 54576	70.000 70.000	.,O	29408	04986	6	95014 95007	1 3
57 58	24 24 5 06 24 16 5 31	1565	25	34.55	1000		2116	04099	6	95001	2
50	24 8 35 6	65680	- 25	5,4520	700,00		29405	05005	13	94965	1
60	21 0 25 0	65705	15	31*15	700.17		29083	05012	6	94988	0
M	Hart M. Homas w	1	Dis	- Is1 ·	GOLD O	Į.	Laras pr	C cost.	Diff.	Sine	М.
1										,	6230

Seconds of time.	1.	2.	o.	1.	4.	100	71
15 1 todayle (A)	; 1	5 2	10	11	16 20 1	24	25

T	Λ.	RΤ	E.	1.1

[Page 799

270			A		A	В		В	C		C	1520
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Covecunt.	Tangent,	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	8 24 0	3 36 0	9.65705	0	10. 34295	9, 70717	0	10, 29283	10.05012	0	9, 94988	60
$\frac{1}{2}$	23 52 23 44	36 S 36 16	65729 65754	0	34271 34246	70748 70779	1	29252 29221	05018	0	94982	1 59
3	23 36	36 24	65779	1	34221	70810	1 2	29221	05025 05031	0	94975 94969	58
4	23 28	36 32	65804	2	34196	70841	2	29159	05038	0	94962	56
5	8 23 20	3 36 40	9.65828	2	10, 34172	9, 70873	3	10. 29127	10, 05044	1	9, 94956	55
6	23 12	36.48	65853	2	34147	70904	3	29096	05051	î	94949	54
7	23 4	36 56	65878	3	34122	70935	4	29065	05057	1	94943	53
8	22 56 22 48	37 4	65902	3	34098	70966	1 4	29034	05064	1	94936	52
9		37 12	65927	4	34073	70997	-5	29003	05070	1	94930	51
10	8 22 40 22 32	3 37 20 37 28	9, 65952 65976	4	10. 34048 34024	9, 71028 71059	5 6	10, 28972	10, 05077	1	9, 94923	50
$\frac{11}{12}$	22 24	37 36	66001	5	33999	71090	6	28941 28910	05083 05089	1	94917 94911	49 48
13	22 16	37 44	66025	5	33975	71121	7	28879	05096	i	94904	47
14	22 8	37 52	66050	6	33950	71153	7	28847	05102	2	94898	46
15	8 22 0	3 38 0	9.66075	- 6	10.33925	9.71184	8	10. 28816	10,05109	2	9, 94891	45
16	21 52	38 8	66099	6	33901	71215	- 8	28785	05115	2	94885	44
17	21 44	38 16	66124	7	33876	71246	9	28754	05122	2	94878	43
18 19	21 36 - 21 28	38 24 38 32	66148 66173	8	33852 33827	71277 71308	10	28723 28692	05129 05135	2 2	94871 94865	42
$\frac{19}{20}$	8 21 20	3 38 40	9, 66197	-8	10. 33803	9, 71339	10	10, 28661	10.05142	2	9, 94858	$\frac{41}{40}$
21	21 12	38 48	66221	8	33779	71370	11	28630	05148	2	94852	39
22	21 4	38 56	66246	9	33754	71401	11	28599	05155	2	94845	38
23	20 56	39 4	66270	9	33730	71431	12	28569	05161	3	94839	37
24	20 48	39 12	66295	10	33705	71462	12	28538	05168	3	94832	36
25	8 20 40	3 39 20	9.66319	10	10. 33681	9.71493	13	10. 28507	10.05174	3	9,94826	35
26 27	$\begin{array}{ccc} 20 & 32 \\ 20 & 24 \end{array}$	39 28 39 36	66343 66368	11	33657 33632	71524 71555	13 14	28476 28445	05181 05187	3	94819 94813	34
28	20 24	39 44	66392	11	33608	71586	14	28414	05194	3	94806	33 32
29	20 8	39 52	66416	12	33584	71617	15	28383	05201	3	94799	31
30	8 20 0	3 40 0	9.66441	12	10.33559	9.71648	15	10, 28352	10.05207	3	9, 94793	30
31	19 52	40 8	66465	13	33535	71679	16	28321	05214	3	94786	29
32	19 44	40 16	66489	13	33511	71709	16	28291	05220	4	94780	28
33	19 36 19 28	40 24 40 32	66513 66537	13	33487 33463	. 71740	17 17	28260 28229	05227 05233	4	94773	27 26
34	8 19 20	3 40 40	9. 66562	14	10. 33438	$\frac{71771}{9,71802}$	18	10. 28198	10.05233	-4-	94767	$\frac{26}{25}$
36	19 12	40 48	66586	15	33414	71833	19	28167	05247	4	94753	24
37	19 4	40 56	66610	15	33390	71863	19	28137	05253	1	94747	23
38	18 56	41 4	66634	15	33366	71894	20	28106	05260	4	94740	22
39	18 48	41 12	66658	16	33342	71925	20	28075	05266	_4	94734	21
40	8 18 40	3 41 20	9. 66682	16	10. 33318	9. 71955	21	10. 28045	10. 05273	4	9. 94727	20
41	18 32 18 24	41 28 41 36	66706 66731	17	33294 33269	71986 72017	21	28014 27983	05280 05286	5	94720 94714	19 18
43	18 16	41 44	66755	17	33245	72048	22	27952	05293	5	94707	17
44	18 8	41 52	66779	18	33221	72078	23	27922	05300	5	94700	16
45	8 18 0	3 42 0	9.66803	18	10. 33197	9.72109	23	10. 27891	10.05306	5	9, 94694	15
46	17 52	42 8	66827	19	33173	72140	24	27860	05313	5	94687	14
47	17 44	42 16	66851	19	33149	72170	24	27830	05320	5	94680	13
48 49	17 36 17 28	42 24 42 32	66875 66899	19 20	33125 33101	72201 72231	25 25	27799 27769	05326 05333	5	94674 94667	12 11
50	8 17 20	3 42 40	9, 66922	20	10, 33078	$\frac{72251}{9,72262}$	$\frac{25}{26}$	10. 27738	10, 05340	$\frac{5}{5}$	9,94660	10
51	17 12	42 48	66946	21	33054	72293	26	27707	05346	6	94654	9
52	17 4	42 56	66970	21	33030	72323	27	27677	05353	6	94647	8
53	16 56	43 4	66994	21	33006	72354	27	27646	05360	6	94640	7
54	16 48	43 12	67018	22	32982	72384	28	27616	05366	6	94634	6
55	8 16 40	3 43 20 43 28	9.67042	22 23	10. 32958	9, 72415	28 29	10, 27585	10. 05373 05380	6	9. 94627	5
56 57	16 32 16 24	43 28 43 36	67066 67090	23	32934 32910	72445 72476	29	27555 27524	05380 05386	6	94620 94614	3
58	16 16	43 44	67113	23	32887	72506	30	27494	05393	6	94607	2
59	16 8	43 52	67137	24	32863	72537	30	27463	05400	6	94600	l i
60	16 0	44 0	67161	24	32839	72567	31	27433	05407	7	94593	0
М.	Hour P. M.	Hour A.M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff,	Sine.	М.
1170			A		A	В —		В	c		C.	620
<u> </u>												

Seconds of time	11	21	8.	4+	5:	61	7,
Prop. parts of cols, $\begin{cases} A \\ B \\ C \end{cases}$	3	6	9	12	15	18	21
	4	8	12	15	19	23	27
	1	2	2	3	4	5	6

Page	800]
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### TABLE 44.

540			A		Α	B		В	C		C	151°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Intr.	Cotangent	Secant.	Diff.	Cosine.	М.
0	8 16 0	3 44 0	9, 67161	0	10, 32839	9, 72567	0	10, 27433	10, 05407	0	9, 94593	60
- 1	15.52	44 8	67185	0	32815	72598	1	27402	05413	0	94587	59
2	15 44	44 16	67208	1	32792	72628	1	27372	05420	0	94580	58
3 4	15 36 15 28	44 24 1 44 32	67232 67256	1 2	32768 - 32744	72659 72689	2	27341 27311	05427 05433	. 0	94573 94567	57
5	8 15 20 F	3 44 40	9, 67280	-2	10. 32720	$\frac{72083}{9.72720}$	-3	10, 27280	10, 05440	1	9, 94560	56 55
6	15 12	44 48	67303	2	32697	72750	3	27250	05447	1	94553	54
7	15 4 1	44.56	67327	3	32673	72780	4	27220	05454	1	94546	53
8	14 56	45 4	67350	3	32650	72811	4	27189	05460	1	94540	52
10	14 48 j 8 14 40 l	45 12 3 45 20	67374 9, 67398	$\frac{3}{4}$	32626 10, 32602	72841 9, 72872	$-\frac{5}{5}$	27159	05467 10: 05474	1	94533	51
11	14 32	45 28	67421	1	32579	72902	6	10, 27128 27098	05481	1	9, 94526 94519	50 49
12	14 24	45 36	67445	5	32555	72932	6	27068	05487	i	94513	48
13	14 16	45 44	67468	5	32532	72963	7	27037	05494	1	94506	47
14	14_8	45_52	67492	_5_	32508	72993	7	27007	05501	2	94499	46
15 16	8 14 0 13 52	3 46 0 46 S	9, 67515 67539	6	10. 32485 32461	9, 73023 73054	8	10, 26977 26946	10, 05508 05515	2 2	9, 94492 94485	45 44
17	13 44	46 16	67562	7	32438	73084	9	26916	05521	2	94479	43
18	13 36	46 24	67586	7	32414	73114	9	26886	05528	2	94472	42
19	13_28	46_32	67609	_7	32391	73144	10	26856	05535	_2	94465	41
20	8 13 20	3 46 40	9. 67633	8	10. 32367	9, 73175	10	10. 26825	10.05542	2 2	9, 94458	40
21	13 12   13 4	46 48 46 56	67656 67680	9	32344 32320	73205 73235	11	26795 26765	05549 05555	3	94451 94445	39 38
23	12 56	47 4	67703	9	32297	73265	12	26735	05562	3	94438	37
24	12 48	47 12	67726	_ 9	32274	73295	12	26705	05569	3	94431	36
25	8 12 40	3/47/20	9, 67750	10	10.32250	9, 73326	13	10,26674	10, 05576	3	9.94424	35
26 27	12 32 12 24	47 28 47 36	67773 67796	10	32227 32204	73356 73386	13	26614 26614	05583 05590	3	94417 94410	34 33
28	12 16	47 44	67820	ii	32180	73416	14	26584	05596	3	94404	32
29	12 8	47 52	67843	11	32157	73446	15	26554	05603	3	94397	31
30	8 12 0	3 48 0	9,67866	12	10.32134	9,73476	15	10,26524	10,05610	3	9, 94390	30
31 32	11 52 11 44	48 8 48 16	67890 67913	12 12	32110 32087	73507 73537	16 16	26493 26463	05617 05624	4	94383 94376	29 28
33	11 36	48 24	67936	13	32064	73567	17	26433	05631	1	94369	27
34	11/28	48 32	67959	13	32041	73597	17	26403	05638	4	94362	26
35	8 11 20	3.48.40	9,67982	14	10.32018	9.73627	18	10, 26373	10, 05645	-4	9, 94355	25
36 .	11 12 11 4	48 48 48 56	68029	14	31994 31971	73657 73687	18	26343 26313	05651 05658	4	94349 94342	24 23
38	10 56	49 4	68052	15	31948	73717	19	26283	05665	4	94335	20
39	10 48	49 12	68075	15	31925	73747	20	26253	05672	4	94328	21
40	8 10 40	3 49 20	9, 68098	16	10.31902	9, 73777	20	10, 26223	10, 05679	5	9, 94321	20
41 42	10 32 10 24	49-28 49-36	68121 68144	16 16	31879 31856	73807 73837	21	26193 26163	056 <b>86</b> 05693	5	94314 94307	19 18
43	10 24	49 44	68167	17	31833	73867	20	26133	05700	5	94300	17
44	10 S	49.52	68190	17	31810	73897	22	26103	05707	5	94293	16
45	8 10 0	3.50 0	9,68213	17	10,31787	9,73927	23	10,26073	10, 05714	5	9.94286	15
46	9 52	50 S 50 I6	68237 68260	18	31763	73957 73987	23 24	26043 26013	05721 05727	5 5	94279 94273	14
47	9 44 9 36	50 21	68283	19	31740	74017	. 24	25983	05731	5	94266	13 12
49	9.28	50 32	68305	19	31695	74047	25	25953	05741	- 6	94259	11
50	8 9 20	3.50.40	9, 68328	19	10.31672	9.74077	25	10, 25923	10,05748	6	9, 94252	10
51	9 12	50.48	68351	20	31649 31626	7 H07 7 H37	26 26	25893 25863	05755 05762	6	94245 94238	9
52 53	9 4 5 56 i	51 4	68374 68397	20	31603	74166	27	25834	05769	6	94238	7
54	5 15	51 12	68420	21	31580	74196	27	25804	05776	6	94224	- 6
55	8 8 40 ;	S 51 20	9, 684 (3)	21	10, 31557	9, 74226	28	10, 2577 (	10, 05783	6	9, 94217	5
56	\$ 32	51 28 ) 51 36	68466 68489	00	31534 31514	74256 74286	28	25744 25714	05790 05797	6 7	94210 94203	1 3
57 58	S 24 S 16	51.44	68512	1313	31488	74316	29	25684	05804	1 4	94196	2
59	4 4	51.52	68534	2.3	31466	74015	30	25655	05811	7	94189	1
60	<b>\</b>	52 00	68557	23	31443	7-0375	30	25625	05818	7	94182	0
М	Невем	Herr CM	C +(0)	Deff	Secunt	Colument	Init.	Tangent.	Coscentit	Dist	S1114	М
118			\		1	11		B	C		1.	61
							_					-

290			A		A	В		В	$\mathbf{c}$		$\mathbf{c}$	150°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	8 8 0	3 52 0	9, 68557	0	10. 31443	9. 74375	0	10, 25625	10.05818	0	9, 94182	60
1	7 52	52 8	68580	0	31420	74405	0	25595	05825	0	94175	59
2 3	7 44 7 36	52 16 52 24	68603 68625	1	31397 31375	74435 74465	1	25565 25535	05832 05839	0	94168	58
1	7 28	52 32	68648	1	31352	74494	1 2	25506	05846	0	94161 94154	57 56
$\frac{1}{5}$	8 7 20	3 52 40	9,68671		10.31329	9. 74524	2	10. 25476	10. 05853	1	9. 94147	55
6	7 12	52 48	68694	2	31306	74554	3	25446	05860	i	94140	54
7	7 4	-52.56	68716	3	31284	74583	3	25417	05867	1	94133	53
8	6 56	53 4	68739	3	31261	74613	4	25387	05874	1	94126	52
9	6 48	53 12	68762	3	31238	74643	4	25357	05881	1	94119	51
10 11	8 6 40 6 32	3 53 20 53 28	9, 68784 68807	4	10.31216 31193	9. 74673 74702	5	10, 25327 25298	10. 05888 05895	1	9. 94112 94105	50 49
12	6 24	53 36	68829	4	31171	74732	6	25268	05902	i	94098	48
13	6 16	53 44	68852	5	31148	74762	6	25238	05910	2	94090	47
14	6 8	53 52	68875	5	31125	74791_	7	25209	05917	2	94083	46
15	8 6 0	3 54 0	9,68897	6	10. 31103	9.74821	7	10.25179	10,05924	2	9, 94076	45
16 17	5 52 5 44	54 8 54 16	68920 68942	6	31080 31058	74851 74880	8	25149 25120	05931 05938	2	94069 94062	44 43
18	5 36	54 24	68965	7	31035	74910	9	25090	05945	2 2	94055	42
19	5 28	54 32	68987	7	31013	74939	9	25061	05952	2	94048	41
20	8 5 20	3 54 40	9.69010	7	10. 30990	9.74969	10	10. 25031	10.05959	2	9.94041	40
21	5 12	54 48	69032	8	30968	74998	10	25002	05966	3	94034	39
22 23	5 4 4 56	54 56 55 4	69055	8	30945	75028	11	24972 24942	05973 05980	3	94027 94020	38 37
$\frac{23}{24}$	4 48	55 12	69077 69100	9	30923 30900	75058 75087	12	24913	05988	3	94012	36
25	8 4 40	3 55 20	9.69122	9	10.30878	9. 75117	12	10, 24883	10, 05995	3	9. 94005	35
26	4 32	55 28	69144	10	30856	75146	13	24854	06002	3	93998	34
27	4 24	55 36	69167	10	30833	75176	13	24824	06009	3	93991	33
28	4 16	55 44	69189	10	30811	75205	14	24795	06016	3	93984	32
29	8 4 0	3 56 0	9, 69234	$\frac{11}{11}$	30788	$\frac{75235}{9.75264}$	14	24765 10, 24736	06023 10, 06030	3	93977	31
30 31	3 52	56 8	69256	12	30744	75294	15	24706	06037	1	93963	29
32	3 44	56 16	69279	12	30721	75323	16	24677	06045	4	93955	28
33	3 36	56 24	69301	12	30699	75353	. 16	24647	06052	4	93948	27
34	3 28	56 32	69323	13	30677	75382	17	24618	06059	4	93941	26
35 36	8 3 20 3 12	3 56 40 56 48	9. 69345 69368	13 13	10. 30655 30632	9. 75411 75441	17	10, 24589 24559	10.06066 06073	4	9. 93934 93927	$\frac{25}{24}$
37	3 4	56 56	69390	14	30610	75470	18	24530	06080	4	93920	23
38	2 56	57 4	69412	14	30588	75500	19	24500	06088	5	93912	22
39	2 48	57 12	69434	15	30566	75529	19	24471	06095	_5	93905	21
40	8 2 40	3 57 20	9.69456	15	10. 30544	9.75558	20	10. 24442	10.06102	5	9. 93898	20
41 42	2 32 2 24	57 28 57 36	69479 69501	15 16	30521 30499	75588 75617	20 21	24412 24383	06109 06116	5	93891 93884	19 18
43	2 16	57 44	69523	16	30477	75647	21	24353	06124	5	93876	17
44	2 8	57 52	69545	16	30455	75676	22	24324	06131	5	93869	16
45	8 2 0	3 58 0	9.69567	17	10.30433	9.75705	22	10. 24295	10.06138	5	9.93862	15
46	1 52	58 8	69589	17	30411	75735	23	24265	06145	5	93855	14
47 48	1 44 1 36	58 16 58 24	69611 69633	17 18	30389 30367	75764 75793	23 24	24236 24207	06153 06160	6	93847 93840	13 12
49	. 1 28	58 32	69655	18	30345	75822	24	24178	06167	6	93833	11
50	8 1 20	3 58 40	9.69677	19	10, 30323	9. 75852	25	1	10.06174	6	9. 93826	10
51	1 12	58 48	69699	19	30301	75881	25	24119	06181	-6	93819	9
52	1 4	58 56	69721	19	30279	75910	26	24090	06189	6	93811	8 7
53 54	0 56 0 48	59 4 59 12	69743 69765	20 20	30257 30235	75939 75969	26 27	24061 24031	06196 06203	6	93804 93797	6
55	8 0 40	3 59 20	9, 69787	-20	10. 30213	9, 75998	27	10. 24002	10, 06211	7	9, 93789	5
56	0 32	59 28	69809	21	30191	76027	28	23973	06218	7 1	93782	4
57	0 24	59 36	69831	21	30169	76056	28	23944	06225 -	7	93775	3
58	0 16	59 44	69853	22	30147	76086	29	23914	06232	7	93768	$\frac{2}{1}$
59 60	0 8	59 52 4 0 0	69875 69897	22	30125 30103	76115 76144	29 29	23885 23856	06240 06247	7 7	93760 93753	0
טפ	0 0	4 0 0	16060		10103	70174			00217		20100	
М.	Hour P. M.	Houra, M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	Sine.	М.
1190			A		A	В		В	С		С -	60°
ASSESSED FOR		and the second second		-	-					_		_

Seconds of time	Ĭε	2,	<b>B</b> 3	43	5	G=	7.
Prop. parts of cols. ABC	3	6	8	11	14	17	20
	4	7	11	15	18	22	26
	1	2	3	4	-1	5	6

TABLE 44.

30°			Α		Α	В		P	c		С	149°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	Diff.	Cosine.	М.
0	8 0 0	4 0 0	9, 69897	0	10, 30103	9, 76144	0	10.23856	10.06247	0	9, 93753	60
-1	7 59 52	() S	65815	0	30081	76173	0	23827	06254	-0	9.5746	59
2	59 44	0.16	69941	1	30059	76202	1	23798	06262	0	93738	58
3	59.36	0.24	69963	1	30037	76231	1	23769	06269	- 0	93731	57
4	59/28	0.32	69984	$-\frac{1}{2}$	30016	76261	2	23739	06276	()	93724	56
5 6	7 59 20 59 12	4 0 40 0 48	9, 70006 70028	2	10, 29994 29972	9, 76290 76319	3	10, 23710 23681	10.06283 06291	1	9, 93717	55
7	59 4	0.56	70028	- 3	29950	76348	3	23652	06298	1	93702	54 53
8	58 56	1 4	70072	. 3	29928	76377	4	23623	06305	i	93695	52
- 9	58.48	1 12	70093	3	29907	76406	4	28594	06313	1	93687	51
10	7.58.40	4 1 20	9, 70115	4	10, 29885	9, 76135	5	10,23565	10, 06320	1	9, 93650	50
11	58.32	1.28	70137	-1	29863	76464	- 5	23536	06327	1	93673	49
12	58, 24	1.36	70159	4	29841	76493	6	23507	06335	1	93665	48
13	58 16 58 8	1 44	70180	5 5	29520	76522 76551	6	23478 23449	06342	2 2	90658	47
14 15	7.58 0	1 52	70202	-5	29798) 10, 29776		-7-	10, 23420	06350	- 5	90650 9 90643	46
15 16	57.52	4 2 0	70245	6	29755	9, 76580 76609	8	23391	10, 06357 06364	2	9, 93636	45
17	57 44	2 16	70245	. 6	29733	76639	8	23361	06372	5	93925	44 43
18	57 36	2 24	70288	G	29712	76668	. 9	23332	06379	2	93621	42
19	57.28	2 32	70310	7	29690	76697	9	23303	06386	2	90614	41
20	7 57 20	4 2 40	9,70332	7	10, 29668	9, 76725	10	10, 23275	10.06394	^ 2	9, 93606	$4\bar{0}$
21	57 12	2.48	70353	S	29647	76754	10	23246	06401	3	93599	39
22	57 4	2.56	70375	- 5	29625	76783	11	23217	06409	3	93591	38
23 24	56 56 56 48	3 4 3 12	70396 70418	8 9	29604 29582	76812 76811	11	23188 23159	06416 06423	3 3	93584 93577	37 36
29	17.7	$\frac{3}{4} = \frac{3}{3} = \frac{12}{20}$	9, 70439	-9	10, 29561		12	10, 23130			9. 93569	$\frac{36}{35}$
28 26	7 56 40 56 32	3 28	70461	9	29539	9, 76870 76899	13	23101	10, 06431 06438	3	93562	34
27	56 24	3 36	70482	10	29518	76928	13	23072	(16446	3	93554	33
28	56 16	3 44	70504	10	29496	76957	13	23043	06453	3	93547	32
29	56 8	3.52	70525	10	29475	76986	14	23014	06461	4	93539	31
30	7.56 0	4 4 0	9, 70547	11	10, 29453	9,77015	14	10, 22985	10,06468	4	9, 93532	30
31	55.52	4.8	70568	11	29432	77044	15	22956	06175	4	-#3525	29
32	55 44	4 16	70590	11	29410	77073	15	22927	06453	4	93517	28
33	55-36 55-28	4 24 4 32	70611 70633	12 12	29389 29367	77101 77130	16	22899 22870	06490	4.	93510 93502	27 26
35	7 55 20			13	10, 29346	9, 77159	16	10, 22841	06498 10. 06505	4	9.93495	25
36	55 12	4 4 40	9, 70654 70675	13	29325	77188	17	22847	06513-	4	93487	20 24
37	55 4	4 56	70697	13	29303	77217	18	22783	06520	5	93480	23
38	54 56	5 4	70718	14	29252	77246	18	22754	06528	5	93472	99
39	54.48	5/12 :	70739	14	29261	77274	19	22726	06535	5	93465	21
40	7 54 40	4 5 20	9,70761	14	10.29239	9,77303	19	10,22697	10, 06543	- 5	9, 93457	$2\widetilde{0}$
41	54 32	5 28	70782	15	29218	77332	20	22668	06550	- 5	93450	19
42	54 24 54 16	5 36 ;	70803 70824	15	29197 29176	77361	20	22639 22610	06565 06565	5	93442	18
43 44	54 16 54 8	5 44 5 52	70824	16	29154	77390 77418	21	22610	06573	5	93435 93427	17 16
45	7 54 0	4 6 0	9,70867	16	10, 29133	9, 77447	22	10, 22553	10.06580	6	9, 93420	15
46	53.52	6 8	70888	16	29112	77476	-20	22524	06588	6	93412	14
47	53 44	6 16	70909	17	29091	77505	23	22495	06595	6	93405	13
48	53.36	6.21	70931	17	29069	77533	23	22467	06603	6	93397	12
49	53.28	6/32	70952	18	29048	77502	24	22438	08610	6	93390	11
50	7 53 20	4 6 40	9,70973	18	10, 29027	9, 77591	24	10, 22409	10, 06618	6	9, 93382	10
51	53 12	6.45	70994	18	29006	77619	25	22381	06625	- 6	93375	9
52 53	53 4 52 56	6 56 7 4	71015 71036	19	25955 25964	77648 77677	25 26	22352 22323	06633 06640	6 7	93367 93360	8 7
54	52 48	7 12	71058	19	28942	77077	26	22020	06648		93352	6
55	7 52 40	4 7 20	9, 71079	20	10.28921	9, 77734	26	10. 22266	10. 06656		9. 93344	$\frac{3}{5}$
56	52 .32	7 7 58	71100	20	28900	77763	27	99937	06663	7	93337	4
57	52 24	7.36	71121	20	25579	77791	27	22200	06671	7	93329	3
58	52 16	7 44	71142	21	28858	77820	28	22180	06678	7	93322	2
59	52 S	7.52	71163	21	28837	77819	28	22151	06656	7	93314	1
60	52 0	8 0	71184	21	28816	77877	29	22123	06693	1	93307	0
М.	Hour P M	Houra M.	Cosine.	Diff.	Secient.	Cotangent.	Diff.	Tangent	Cosecunt.	Diff.	Sine.	М.
120			Α.		Α	В		13	C.		С	59~

seconds of time	ı.	5.	3+	41	₽•	g.	7.
Prop. parts of cobs. $ \begin{cases} \frac{A}{C} \\ C \end{cases} $	3 -4 1	5 7 2	11 3	11 14 4	13 18 5	16 22 6	19 25 7

r	$\Gamma \Lambda$	$\mathbf{R}$	LE	1.5	1
	_ /A	D	1.6	-	١.

[Page 803

31	0		Α		A	B		В	C		('	1450
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecunt.	Tangent.	Diff	Cotangent	secant.	Dift.	Cosme.	M.
0	7 52 0	4 8 0	9, 71184	0	10. 28816	9.77877	0	110, 22123	10, 06693	0	9, 93307	60
1	51 52	8 8	71205	0	28795	77906	0	22094	06701	0	93290	59
2	51 44	8 16	71226	1	28774	77935	1	22065	06709	0	93291	58
3	51 36	8 24 8 32	71247	1	28753	77963	1	22037	06716	0	93284	57
4	$\begin{bmatrix} -51 & 28 \\ 7 & 51 & 20 \end{bmatrix}$		71268	$-\frac{1}{2}$	28732 110, 28711	77992	2	22008	06724	1	93276	56
5 6	7 51 20 51 12	4 8 40 8 48	9. 71289 71310	2	28690	9, 78020 78049	3	10, 21980 21951	10, 06731 06739	1	9, 90269	55
7	51 4	8.56	71331	5	28669	78077	3	21923	06747	1	95253	53
8	50.56	9 4	71352	3	28648	78106	4	21894	06754	1	90246	52
9	50 48	9-12	71373	- 3	28627	78135	4	21865	06762	1	90208	51
10	7 50 40	4 9 20	9. 71393	3	10,28607	9.78163	5	10.21837	10, 06770	1	9, 93230	50
11	50 32	9 28	71414	4	28586	78192	- 5	21808	06777	1	93223	1.49
12	50 24	9 36	71435	1	28565	78220	6	21780	06785	2	93215	140
13 14	50 16 50 8	9 44 9 52	71456 71477	5	28544 28523	78249 78277	6 7	21751 21728	06793 06800	2 2	93207 93200	47
15	7 50 0	4 10 0	9. 71498	-5	10, 28502	9, 78306	7	10, 21694	10.06808	$-\frac{1}{2}$	9. 93192	46
16	49 52	10 ° 8	71519	5	28481	78334	8	21666	06816	2	93184	45 44
17	49 44	10 16	71539	6	28461	78363	8	21637	06823	2	93177	43
18	49 36	10 24	71560	- 6	28440	78391	9	21609	-06831	2	93169	42
19	49 28	10 32	71581	7	28419	78419	9	21581	06839	_ 2	93161	41
20	7 49 20	4 10 40	9.71602	7	10.28398	9.78448	9	10.21552	10,06846	3	9.93154	40
21 22	49 12	10 48	71622	7	28378	78476	10	21524	06854	3	93146	39
23	49 4 48 56	10 56 11 4	71643 71664	8	28357 28336	78505 78533	111	21495 21467	06862 06869	3	93138 93131	38
24	48 48	11 12	71685	8	28315	78562	11	21438	06877	3	93123	36
25	7 48 40	4 11 20	9.71705	9	10, 28295	9, 78590	12	10. 21410	10,06885	3	9. 93115	35
26	48 32	11 28	71726	9	28274	78618	12	21382	06892	3	93108	34
27	48 24	11 36	71747	9	28253	78647	13	21353	06900	3	93100	33
28	48 16	11 44	71767	19	28233	78675	13	21325	06908	4	93092	32
29	48 8	11 52	71788	10	28212	78704	14	21296	06916	4	93084	31
30	$\begin{bmatrix} 7 & 48 & 0 \\ 47 & 52 \end{bmatrix}$	4 12 0 12 8	9.71809 71829	10	10.28191 $28171$	9. 78732 78760	14	10. 21268 21240	10, 06923 06931	1 4	9. 93077 93069	$\frac{30}{29}$
32	47 44	12 16	71850	11	28150	78789	15	21211	06939	1	93061	28
33	47 36	12 24	71870	ii	28130	78817	16	21183	06947	1	93053	27
34	47 28	12 32	71891	12	28109	78845	16	21155	06954	4	93046	26
35	7 47 20	4 12 40	9.71911	12	10.28089	9.78874	17	10.21126	10.06962	5	9.93038	25
36	47 12	12 48	71932	12	28068	78902	17	21098	06970	5	93030	24
37	47 4 46 56	12 56 13 4	71952 71973	13 13	28048 28027	78930 78959	17	21070 21041	06978 06986	5	93022 93014	23 22
39	46 48	13 12	71994	13	28006	78987	18	21041	06993	5	93007	21
40	7 46 40	4 13 20	9, 72014	14	10. 27986	9. 79015	19	10, 20985	10, 07001		9, 92999	20
41	46 32	13 28	72034	14	27966	79043	19	20957	07009	5	92991	19
42	46 24	13 36	72055	14	27945	79072	20	20928	07017	- 5	92983	18
43	46 16	13 44	72075	15	27925	79100	20	20900	07024	6	92976	173
44	46 8	13 52	72096	15	27904	79128	21	20872	07032	6	92968	16
45 46	7 46 0 45 52	4 14 0 14 8	9. 72116 72137	15 16	$10.27884 \\ 27863$	9. 79156 79185	21 22	10. 20844 20815	10. 07040 07048	6 6	9, 92960 92952	15 14
47	45 52	14 16	72157	16	27843	79183	22	20515	07048	6	92932	13
48	45 36	14 24	72177	16	27823	79241	23	20759	07064	-6	92936	12
49	45 28	14 32	72198	17	27802	79269	23	20731	07071	- 6	92929	11
50	7 45 20	4 14 40	9. 72218		10.27782	9.79297	24	10,20703	10.07079	- 6	9, 92921	10
51	45 12	14 48	72238	18	27762	79326	24	20674	07087	7	92913	9
52 53	45 4 44 56	14 56 15 4	72259 72279	18	27741 27721	79354 79382	25 25	20646 20618	07095 07103	7	92905 92897	8 7
54	44 48	15 12	72279	19	27721	79382 79410	26	20518	07103	7	92889	6
55	7 44 40	4 15 20	9, 72320	19	10, 27680	9, 79438	26	10. 20562	10. 07119		9. 92881	5
56	44 32	15 28	72340	19	27660	79466	26	20534	07126	7	92874	4
57	44 24	15 36	72360	20	27640	79495	27	20505	07134	7	92866	3
58	44 16	15 44	72381	20	27619	79523	27	20477	07142	7	92858	2
59 60	44 8 44 0	15 52 16 0	72401 72421	20 21	27599 27579	79551 79579	28 28	20449 20421	07150 07158	8	92850 92842	1 0
-00	44 0	16 0	(2921	-1	21019	10019	20	20421	01108		75 143	"
M.	Honr P. M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	sine.	M.
1219			A		A	В		В	C		C	540
1.27												

Seconds of time	1:	2 1	3 1	4 *	5 *	61	7.
Prop. parts of cols.	3	5	8	10	13	15	18
	4	7	11	14	18	21	25
	1	2	3	4	5	6	7

Page 804]	
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TABLE 44.

1 -	age ovaj				1.11	)Liti 44.						
1			L	og. S	Sines, Tan	gents, and	Secs	ints.				
32			Λ		Λ	В		В	C		c	1470
-						L		-		1 - 1 -		
М.	Hour & 9	Hour P. M.	Sinc.	Diff.	Coscount.	Tangent.	Dill.	Cotangent	Secant.	Diff.	Cosine,	М.
0	7 44 0	4 16 0	9, 72421	0	10, 27579	9, 79579	0	10, 20421	10. 07155	0	9, 92842	60
i	48.52	16 8	72441	Ü	27559	79607	. 0	20393	07166	0	92834	59
2	43 44	16 16	72461	1	27539	79635	1	20365	07174	0	92826	58
3	43.36	16 24	72482	1	27518	79663	1	20337	07182	- ()	92818	57
4	43.28	16/32	72502	1	27498	79694	2	20309	07190	1	92810	56
-5	7 43 20	4 16 40	9, 72522	- '	10, 27478	9, 79719	1 2	10,20281	10.07197	1	9, 92803	55
- 61	43 12	16 48	72542	2	2745s	79747	3	20253	07205	1	92795	54
7	43 4	16.56	72562	2	27438	79776	3	20224	07213	1	92787	53
8 9	42 56 42 48	17 4 17 12	72582 72602	3	27418	79804 79832	4	20196	07221	1	92779	52
•			9, 72622		$\frac{27398}{10.27378}$		1 1	20168	07229	1	92771	51
10 11	7 42 40 42 32	4 17 20 17 28	72643	4	27357	9, 79860 79888	5	10, 20140 20112	10. 07237 07245	1	9, 92763 92755	50 49
12	42 24	17 36	72663	4	27337	79916	6	20084	07253	1 5	92747	48
13	42 16	17 44	72683	4	27317	79944	6	20056	07261	2	92739	47
14	42 \	17 52	72703	5	27297	79972	7	20028	07269	2	92731	46
15	7 42 0	4 18 0	9, 72723	5	10. 27277	9, 50000	7	10, 20000	10, 07277	-2	9.92723	45
16	41 52	18 8	72743	5	27257	80028	. 7	19972	07285	2	92715	44
17	41 44	18/16	72763	- 6	27237	80056	S	19944	07293	2	92707	43
18	41 36	18 24	72783	6	27217	80084	S	19916	07301	2	92699	42
19	41 28	18/32	72803	- 6	27197	80112	-9-	19888	07309	3	92691	41
20	7 41 20	4 18 40	9, 72823	7	10, 27177	9, 80140	. 9	10. 19860	10, 07317	3	9, 92683	40
21 22	41 12 41 4	18 48 18 56	72843 72863	7	27157 27137	80168 80195	10	19832 19805	07325 07333	3	92675 92667	39 38
23	41 4	19 4	72883	1	27117	80223	11	19777	07341	3	92659	37
24	40.45	19 12	72902	S	27098	80251	11	19749	07349	3	92651	36
25	7 40 40	4 19 20	9, 72922	-8	10, 27078	9, 80279	12	10, 19721	10, 07357	3	9, 92643	35
26	40 32	19 28	72942	9	2705s	80307	12	19693	07365	3	92635	34
27	40 24	19 36	72962		27038	80335	. 13	19665	07373	4	92627	33
28	40 16	19 44	72982	9	27018	80363	13	19637	07381	4	92619	32
29	40 8	19.52	73002	- 10	26998	80391	- 13	19609	07389	4	92611	31
30	7.40 - 0	4 20 0	9.73022	10	10.26978	9, 80419	14	10. 19581	10, 07397	4	9, 92603	30
31	39.52	20 8	73041	10	26959	80447	14	19553	07405=		92595	29
32	39 44	20 16	73061	11	26939	80474	15	19526	07413	4	92587	28
33	39-36 39-28	20 24	73081	11	26919	80502	15	19498	07421	4	92579	27
34 35		20 32	73101	11	26899	80530	16	19470	07429	5	92571	26
35	7 39 20 39 12	4 20 40 20 48	9, 73121 73140	12	10.26879 $26860$	9, 80558 80586	16	10. 19442 19414	10, 07437 07445	5 5	9, 92563 92555	25 24
37	39 4	20 48	73140	12	26840	80614	17	19386	07454	5	92546	23
38	38.56	21 4	73180	13	26820	80642	18	19358	07462	5	92538	22
39	38 48	21 12	73200	13	26800	80669	18	19331	07470	5	92530	21
40	7 38 40	4 21 20	9, 73219	13	10,26781	9, 80697	19	10. 19303	10, 07478	5	9. 92522	20
41	38 32	21.28	73239	14	26761	80725	19	19275	07486	- 6	92514	19
42	38 24	21.36	73259	14	26741	80753	20	19247	07494	6	92506	18
43	38 16	21 44 1	73278	14	26722	80781	20	19219	07502	6	92498	17
44	38 8	21 52	73298	15	26702	80808	20	19192	07510	-6	92490	16
45	7 38 0	4 22 0	9, 73318	15	10, 26682	9, 80836	21	10, 19164	10.07518	6	9. 92452	15
46 47	37 52 37 44	22 8 22 16	73337 73357	15 16	26663 26643	80864 80892	21	19136 19108	07527 07535	6	92473 92465	14 13
45	37 36	22 24	73377	16	26623	80919	20	19081	07543	6	92457	12
49	37 25	22 32	73396	16	26604	80947	23	19053	07551	7	92449	liī
50	7 37 20	4 22 40	9, 73416	17	10, 26581	9, 80975	23	10. 19025	10, 07559	7	9. 92441	10
51	87 12	22 48 1	73435	17	26565	81003	24	18997	07567	7	92433	9
52	.17 4	22.56	73455	17	26545	81030	24	18970	07575	7	92425	- 8
53	Jin 56	23 4	73474	18	26526	81058	25	18942	07584	7	92416	7
54	.36, 48	23 12	73494	18	26506	81086	25	18914	07592		92408	- 6
55	7 35 40	4 23 20	9, 73513	18	10,26487	9, 81113		10, 18887	10, 07600	7	9, 92400	5
56	36 32	23 28	73533	19	26467	81141	26	18859	07608	1	92392	4
57 58	206-24	23 36 1	73552 73572	158	26448 26428	\$1469 \$1196	26	18804	07616 07624	8 8	92384 92376	3 9
59	36 16	23 41 23 52	73592	20	26409	81196 81224	27	18776	07624	7	92376	l i
60	26 0	21 0	73531	20	26389	81252	24	15745	07641	5	92359	1 6
			771						1			
		The state M	#Sections	11157	Security	Cotat with	$1n\gamma$	{ (ph. 25 %)	C so and	Inst	~ n-	M.
119			\		\			14	('		(,	57
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 firme		1 +	21	3 .	- 6	4	G ·	71
	Propose of a	B	2			11	- 11	11	17 24 7

TARLE 41	

[Page 805

Log. Sines	, Tangents,	and Secants.
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330			A		A	В		B	С		e	116°
М.	Hour A. M.	Hour P. M.	Sine,	Diff.	Cosecant.	Taugent.	Diff.	Cotungent.	Secant.	Diff.	Cosine.	М.
0	7 36 0	4 24 0	9. 73611	0	10. 26389	9, 81252	0	10, 18748	10, 07641	0	9, 92359	60
1	35 52	24 8	73630	0	26370	81279	ő	18721	07649	0	92351	59
2	35 44	24 16	73650	1	26350	81307	1	18693	07657	ō	92343	58
3	35 36	24 24	73669	1	26331	81335	1	18665	07665	0	92335	57
4	35 28	24 32	73689	1	26311	81362	2	18638	07674	1	92326	56
5	7 35 20	4 24 40	9,73708	2	10,26292	9, 81390	2	10. 18610	10.07682		9, 92318	55
-6	35 12	24 48	73727	2	26273	81418	3	18582	07690	1	92310	54
7	35 4	24 56	73747	2	26253	81445	3	18555	07698	1	92302	53
8	34 56	25 4	73766	3	26234	81473	4	18527	07707	1	92293	52
- 9	34 48	25_12	73785	_3	26215	81500	4	18500	07715	1_1	92285	51
10	7 34 40	4 25 20	9, 73805	3	10.26195	9.81528	5	10. 18472	10.07723	1	9, 92277	50
11	34 32	25 28	73824	3	26176	81556	5	18444	07731	2	92269	49
12 13	34 24 34 16	25 36 25 44	73843	4	26157	81583	5	18417	07740	200	92260	48
14	34 8	25 52	73863 73882	4	26137 26118	81611 81638	6	18389 18362	07748 07756	2	92252 92244	47
15	7 34 0	4 26 0	9, 73901	5	10. 26099	9, 81666	7	10. 18334	10. 07765	2	9, 92235	46
16	33 52	26 8	73921	5	26079	81693	4	18307	07773	2	9. 92235	45 44
17	33 44	26 16	73940	5	26060	81721	8	18279	07781	2	92219	43
18	33 36	26 24	73959	6	26041	81748	8	18252	07789	3	92211	42
19	33 28	26 32	73978	6	26022	81776	9	18224	07798	3	92202	41
20	7 33 20	4 26 40	9.73997	6	10, 26003	9, 81803	9	10, 18197	10, 07806	3	9, 92194	40
21	33 12	26 48	74017	7	25983	81831	10	18169	07814	3	92186	39
22	33 4	26 56	74036	7	25964	81858	10	18142	07823	3	92177	38
23	32 56	27 4	74055	7	25945	81886	11	18114	07831	3	92169	37
24	32 48	27 12	74074	_8	25926	81913	11	18087	07839	_3	92161	36
25	7 32 40	4 27 20	9.74093	8	10.25907	9, 81941	11	10.18059	10.07848	- 3	9.92152	35
26	32 32	27 28	74113	8	25887	81968	12	18032	07856	4	92144	34
27	32 24	27 36	74132	9	25868	81996	12	18004	07864	4	92136	33
28 29	32 16 32 8	27 44 27 52	74151 74170	9	25849 25830	82023 82051	13	17977 17949	$07873 \\ 07881$	4	92127 92119	32 31
$\frac{29}{30}$	7 32 0		9, 74189	10	$\frac{25850}{10.25811}$				10. 07889			30
31	31 52	4 28 0 28 8	74208	10	25792	9. 82078 82106	14	10.17922 17894	07898	4	9. 92111 92102	29
32	31 44	28 16	74227	10	25773	82133	15	17867	07906	4	92094	28
33	31 36	28 24	74246	10	25754	82161	15	17839	07914	5	92086	27
34	31 28	28 32	74265	ii	25735	82188	16	17812	07923	5	92077	26
35	7 31 20	4 28 40	9.74284	11	10. 25716	9, 82215	16	10.17785	10.07931	5	9,92069	25
36	31 12	28 48	74303	11	25697	82243	16	17757	07940	5	92060	24
37	31 4	28 56	74322	12	25678	82270	17	17730	07948	5	92052	23
38	30 56	29 4	74341	12	25659	82298	17	17702	07956	5	92044	22
39	30 48	29 12	74360	12	25640	82325	18	17675	07965	5	92035	21
40	7 30 40	4 29 20	9.74379	13	10.25621	9.82352	18	10.17648	10,07973	6	9,92027	20
41	30 32	29 28	74398	13	25602	82380	19	17620	07982	6	92018	19
42	30 24	29 36	74417	13	25583	82407	19	17593	07990	6	92010	18
43 44	30 16 30 8	29 44 29 52	74436 74455	14 14	25564 25545	82435 82462	$\frac{20}{20}$	17565 17538	07998 08007	6	92002 91993	17 16
44	7 30 0	4 30 0	9.74474		10, 25526	9, 82489	$\frac{20}{21}$	10, 17511	10, 08015	$\frac{6}{6}$	9, 91985	$\frac{10}{15}$
46	29 52	30 8	74493	15	25507	9. 82489 82517	21	17483	08024	6	91976	14
47	29 44	30 16	74512	15	25488	82544	22	17456	08032	7	91968	13
48	29 36	30 24	74531	15	25469	82571	22	17429	08041	7	91959	12
49	29 28	30 32	74549	16	25451	82599	22	17401	08049	7	91951	11
50	7 29 20	4 30 40	9,74568		10. 25432	9. 82626	23	10.17374	10, 08058	7	9.91942	10
51	29 12	30 48	74587	16	25413	82653	23	17347	08066	7	91934	9
52	29 4	30 56	74606	17	25394	82681	24	17319	08075	7	91925	8
53	28 56	31 4	74625	17	25375	82708	24	17292	08083	7	91917	7
54	28 48	31 12	74644	17	25356	82735	25	17265	08092	_ 8	91908	6
55	7 28 40	4 31 20	9.74662	17	10, 25338	9, 82762	25	10. 17238	10.08100	8	9, 91900	5
56	28 32 28 24	31 28	74681	18	25319	82790	26	17210	08109	8	91891	4
57 58	28 24 28 16	31 36 . 31 44	74700 74719	18 18	25300 25281	82817 82844	26 27	17183   17156	08117 $08126$	8	91883 91874	3 2
58 59	28 16 28 8	31 44 31 52	74719	18	25263	82844 82871	27	17129	08126	8	91874	ī
99 98	28 0	32 0	74756	19	25244	82899	27	17101	08143	8	91857	ô
					20211	C-27700			5.415		- 1001	_
М.	Houri	Hour a. v.	Cosine.	Duff.	Secant.	Cotangent.	Duff.	Tangent.	Cusecant.	Diff.	Sine,	М.
128			A		Λ	В		В	('		('-	56°
L		-	A S							-		

Seconds of time	1.	2,	331	41	- i31	61	7.5
Prop. parts of cols, $\begin{cases} A \\ B \\ C \end{cases}$	3	5 7 2	7 10 3	10 11 4	12 17 5	14 21 6	17 21 7

Page 8	806]
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TABLE 44.

Log.	Sines,	Tangents,	and	Secants.
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84°			Α	Α.	В	В	c		С	145*
М.	Houra. M.	Hour r st	~ine.	Inff. Cosecant	Tame nt. Diff	f. Cotangent	Secant.	Diff.	Cosine,	М.
0	7 28 0	4/32 0	9, 74756	0 10, 25244	9,82899 0		10. 08143	0	9, 91857	60
1 2	27 52 27 44	32 8	74775	0 25225	82926 0 82953 1		08151	0	91849	59
3	27 36	32 16 32 24	74794 74812	1 25188	82980 1		08160 08168	0	91840 91832	58 57
4	27 28	32 32	74831	1 25169	S300S 2		08177	i	91823	56
-5	7 27 20	4 32 40	9, 74850	2 10, 25150	9, 83055 2		10.08185	1	9, 91815	55
6 7	27 12 27 4	32 48 32 56	74868 74887	2 25132 2 25113	83062 3 83089 3		08194	]	91806 91798	54
	26.56	32 4	74906	2 25094	83117 4		08202 08211	1	91789	53 52
- 91	26.48	33 12	74924	3 . 25076	83144   4		08219	i	91781	51
10	7 26 40	4 33 20	9, 74940	3 10, 25057	9,83171 5		10,08228	1	9, 91772	50
11 12	26 32 26 24	33 28 33 36	74961 74980	3 25039 4 25020	83198   5 83225   5		08237 08245	2 2	91763 91755	49
13	26 16	33 44	74999	4 25001	83252 6		08254	2	91746	47
11	26 8	33 52	75017	4 24983	83280 6		08262	2	91705	46
15	7 26 0	4 34 0	9, 75036	5 10, 24964	9, 83307 7	10, 16693	10,08271	2	9, 91729	45
16 17	25 52 25 44	34 S 34 16	75054 75073	5 24946 5 24927	83334 7 83561 8	16639	08280 08288	2 9	91720 91712	44 43
18	25 36	34 24	75094	6 24909	83388 8		08297	3	91703	42
19	25.28	34 32	75110	6 24890	83415 9	1100000	08305	3	91695	41
20 21	7 25 20 25 12	4 34 40	9, 75128	6 10, 24872 6 24853	9,83442   9		10, 08314	3	9, 91686	40
21	25 12 25 4	34 48 34 56	75147 75165	6 24858 7 24855	83470 9 83497 10		08323 08331	3	91677	39 38
23	24.56	35 4	75184	7 24816	83524   10		08340	3	91660	37
24	24 48	35 12	75202	7 24798	83551 11		08349	3	91651	36
25 26	7 24 40 24 32	4 35 20 35 28	9, 75221 75239	8 10, 24779 8 24761	$\begin{array}{r} 9,83578 + 11 \\ 83605 + 12 \end{array}$		10, 08357 08366	4	9, 91643 91634	35 34
27	24 24	35 36	75258	8 24742	83632 12		08375	1	91634	33
28	24 16	35 44	75276	9 24724	83659 13	16341	08383	4	91617	32
29	24 8	35_52	75294	9 24706	83686 13		08392_	4	91608	31
30 31	7 24 0 23 52	4 36 0 36 8	9, 75313 75331	9 10, 24687 9 24669	9, 83713   14 83740   14		10, 08401 08409	4	9, 91599 91591	30 29
32	23 44	36 16	75350	10 24650	83768 14		08418	5	91582	28
33	23.36	36 24	75368	10 24632	83795 15		08427	5	91573	27
34	23 28	36 32	75386	10 24614	83822   15		08435	_5_	91565	26
[35] 36	7 23 20 23 12	4 36 40 36 48	9, 75405 75423	11  10, 24595 11   24577	9, 83849 16 83876 16		10,08444 $08453$	5	9, 91556 91547	25 24
37	23 4	36 56	75441	11 24559	83903 17		08462	5	91538	23
38	22.56	37 4	75459	12 24541	83920   17		08470	- 5	91530	22
39 40	22 48 7 22 40	37 12 4 37 20	75478 9, 75496	12 24522 12 10, 24504	$83957 \pm 18$ $9,83984 \pm 18$		08479 10, 08488	6 6	91521 9, 91512	21 20
41	22 32	37 28 1	75514	13 24486	84011 18		08496	6	91504	19
42	22 24	37 36	75533	13 24467	84038 19		08505	- 6	91495	18
43	22 16 22 8	37 44 37 52	75551 75569	13   24449 13   24431	84065 ± 19 84092 ± 20		08514 08523	6	91486 91477	17
45	7 22 8	37 52 4 38 0	9, 75587	14 10, 24413	9, 84119   20		10, 08525	-67	9. 91469	16
46	21.52	35 8	75605	14 24395	84146   21	15854	08540		91460	14
47	21 44	38-16	75624	14 24376	84173 21 84200 22		08549	7	91451	13
48	21 36 21 28	38 24 38 32	75642 75660	15 24358 15 24340	84200 22 84227 22		08558 08567	7	91442 91433	12 11
50	7 21 20	4 38 40	9, 75678	15 10, 24322	9, 81254 23		10. 08575	$-\frac{1}{7}$	9, 91425	10
51	21 12	38.48	75696	16 24304	84280 23	15720	08584	7	91416	- 9
52	21 4 20 56	38 56 39 4	75714	. 16 24286 16 24267	84307 23 84334 24		08593 08602	- 8	91407 91398	8.7
53 54	20.56	39 4 39 12	75733 75751	16 24267 17 24249	84334 24 84361 24		08602	8	91398	6
55	7 20 40	4 39 20	9, 75769	17 10, 24231	9, 84388 25	10, 15612	10, 08619	. 8	9, 91381	5
56	20/32	39.28	75787	17   24213	84415 25		08628	*8	91372	4
57 58	20 24 20 18	39 36	75805 75823	17 24195 18 24177	84442 26 84469 26		08637 08646	8	91363 91354	3 2
59	20 18	39.52	75841	18 24159	84496 27	15504	08655	9	91345	1
60	20 0	40 0	75859	18 24141	84523 27	15477	08664	9	91306	0
M.	Hour r. M	Houra M	Cosine.	Diff Secant.	Cotangent Inf	Tangent	Cosecant.	Diff.	Sine	M
124			Λ	A	В	В	C		(	55
· —										

Seconds of time	1.	5.	3,	41	<i>[</i> 10	64	7*
Prop. parts of cols {	1 2 B 3	57.2	7 10 3	9 11 4	11 17 5	14 20 7	16 24 8

					TAI	3LE 44.					[Page 80	07
			]	Log.	Sines, Tar	igents, and	Sec	ants.				
350			A		A	В		В	С		C	1440
М.	Hour A. M.	Hour P.M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine,	М,
0	7 20 0	4 40 0	9, 75859	0	10. 24141	9.84523	0	10. 15477	10.08664	0	9, 91336	60
1 2	19 52 19 44	40 8 40 16	75877 75895	0	24123 24105	84550 84576	0	15450 15424	08672 08681	0	91328 91319	59 58
3	19.36	40 24	75913	1	24087	84603	1	15397	08690	0	91310	57
-1	19 28	40 32	75931	_1_	24069	84630	2	15370	08699	1	91301	56
5 6	7 19 20 19 12	4 40 40 40 48	9, 75949 75967	$\frac{1}{2}$	10. 24051 24033	9, 84657 84684	3	10, 15343 15316	10, 08708 08717	1	9, 91292 91283	55 54
7	19 4	40 56	75985	2	24015 23997	84711	3	15289	08726	1	91274	53
8 9	18 56 18 48	$\frac{41}{41} \frac{4}{12}$	76003 76021	3	23997	84738 84764	4	15262 15236	08734 08743	1	91266 91257	52 51
10	7 18 40	4 41 20	9.76039	3	10. 23961	9.84791	4	10. 15209	10,08752	2	9.91248	50
$\frac{11}{12}$	18 32 18 24	41 28 41 36	76057 76075	3	23943 23925	84818 84845	5	15182 15155	08761 08770	2 2	91239 91230	49 48
13	18 16	41 44	76093	4	23907	84872	- 6	15128	08779	2	91221	47
14	18 8	41 52	76111	4	23689	84899	6	15101	08788	$\frac{2}{2}$	91212	46
15 16	7 18 0 17 52	4 42 0 42 8	9. 76129 76146	4 5	$10.23871 \\ 23854$	9. 84925 84952	7	10, 15075 15048	10. 08797 08806	2	9. 91203 91194	45 44
17	17 44	42.16	76164	5	23836	84979	8	15021	08815	3	91185	43
18 19	17 36 17 28	42 24 42 32	76182 76200	5 6	23818 23800	* 85006 85033	8	14994 14967	08824 08833	3	91176 91167	42 41
20	7 17 20	4 42 40	9. 76218	6	10.23782	9, 85059	-9	10. 14941	10.08842	3	9.91158	40
21 22	17 12 17 4	42 48 42 56	76236 76253	6	23764 23747	85086 85113	10	14914 14887	08851 08859	3	91149 91141	39 38
23	16 56	43 4	76271	7	23729	85140	10	14860	08868	3	91132	37
$\frac{24}{25}$	16 48	43 12	76289	7	23711 10, 23693	85166	11	14834	08877	4	91123	36
25 26	7 16 40 16 32	4 43 20 43 28	9.76307 $76324$	7 8	23676	9, 85193 85220	12	10. 14807 14780	10, 08886 08895	1 4	9. 91114 91105	35 34
27	16 24	43 36	76342	8	23658	85247	12	14753	08904	4	91096	33
28 29	16 16 16 8	43 44 43 52	76360 76378	8 9	23640 23622	85273 85300	12 13	14727 14700	08913 08922	4	91087 91078	32 31
30	7 16 0	4 44 0	9, 76395	9	10. 23605	9, 85327	13	10. 14673	10, 08931	5	9, 91069	30
$\frac{31}{32}$	15 52 15 44	44 8 44 16	76413 76431	9	23587 23569	85354 85380	14	14646 14620	08940 08949	5	91060 91051	29 28
33	15 36	44 24	76448	10	23552	85407	15	14593	08958	5	91042	27
34	15 28	44 32	76466	10	23534	85434	15	14566	08967	5	$\frac{91033}{9,91023}$	$\frac{26}{25}$
35 36	7 15 20 15 12	4 44 40	9. 76484 76501	10	10. 23516 23499	9, 85460 85487	16 16	10, 14540 14513	08986	5	91014	24
37	15 4	44 56	76519	11	23481	85514	16	14486	08995	6	91005	23
38 39	14 56 14 48	45 4 45 12	76537 76554	11 12	23463 23446	85540 85567	17	14460 14433	09004 09013	6	90996	21
40	7 14 40	4 45 20	9.76572	12	10, 23428	9, 85594	18	10. 14406	10.09022	6	9, 90978	20
41 42	14 32 14 24	45 28 45 36	76590 76607	12 12	23410 23393	85620 85647	18 19	14380 14353	09031 09040	6	90969	19
43	14 16	45 44	76625	13	23375	85674	19	14326	09049	6	90951	17
44	14 8	45 52	76642	13	23358	85700	20	14300	09058	7	90942	$\frac{16}{15}$
45 46	7 14 0 13 52	4 46 0 46 8	9. 76660 76677	13	10. 23340 23323	9, 85727 85754	20 20	10, 14278 14246	10, 09067 09076	7	9, 90933 90924	14
47	13 44	46 16	76695	14	23305	85780	21	14220	09085	7	90915	13
48 49	13 36 13 28	46 24 46 32	76712 76730	14	23288 23270	85807 85834	21	14193 14166	09094 09104	7	90906	12 11
50	7 13 20	4 46 40	9.76747	15	10, 23253	9.85860	22	10.14140	10. 09113	8	9.90887	10
51 52	13 12 13 4	46 48 46 56	76765 76782	15 15	23235 23218	85887 85913	23	14113 14087	09122 09131	8	90878 90869	9 8
53	12 56	47 4	76800	16	23200	85940	24	14060	09140	8	90860	8 7
54	12 48	47 12	76817	16	23183	85967	24	14033	09149	8	$\frac{90851}{9,90842}$	$\frac{6}{5}$
55 56	7 12 40 12 32	4,47 20 47 28	9, 76835 76852	16 17	10. 23165 23148	9, 85993 86020	24 25	10, 14007 13980	10. 09158 09168	8	90832	4
57	12 24	47 36	76870	17	23130	86046	25	13954	09177	9	90823 90811	3
5.5 59	12 16 12 8	47 44 47 52	76887 76904	17	23113 23096	\$6073 86100	26 26	13927 13900	09186 09195	9	90805	1 2
60	12 0	48 0	76922	18	23078	86126	27	13874	09204	-9	90796	θ.
М.	Hour P.M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff	Sine	М.
125			A		A	В		В	C		С.	540
-				-								

Seconds of time	1.	2.	3	41	51	6,	73
Prop. parts of cols. $\begin{cases} \hat{\Lambda} \\ \hat{B} \\ \hat{C} \end{cases}$	2 3 1	: 120	7 10 3	13	11	13 20	16 23

Page 8	[80
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TABLE 44.

36°			A		A	В		В	c		C 1	143°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	7 12 0	4.48 - 0	9.76922	0	10. 23078	9, 86126		10, 13874	10.09204	0	9, 90796	60
1	11 52	48 8	76939	0	23061	86153	0	13847	09213	0	90787	59
2	11 44	48 16	76957	1	23043	86179	1	13821	09223	0	90777	58
. 3	11 36	48 24 48 32	76974	1	23026	86206	1 2	13794	09232	0	90768	57
$-\frac{4}{5}$	11_28 7_11_20	48 32	76991 9, 77009	$\frac{1}{1}$	23009	86232 9. 86259		13768	09241 10, 09250	1 1	90759	$\frac{56}{55}$
6	11 12	48 48	77026	2	22974	9, 86285 86285	3	13715	09259	1 1	9.90741	54
7	11 4	48 56	77043	2	22957	86312	3	13688	09269	l'î	90731	53
8	10.56	49 4	77061	2	22939	86338	4	13662	09278	i	90700	52
- 9	10 48	49 12	77078	3	22922	86365	-4	13635	09287	1	90713	51
10	7 10 40	4 49 20	9.77095	3	10.22905	9.86392	-4	10.13608	10, 09296	2	9, 90704	50
11	10 32	49 28	77112	3	22888	86418	5	13582	09306	2	509564	49
12	10 24	49 36	77130	3	22870 22853	86445	5	13555 13529	09315	2 2	90685	48
13 14	10 16 10 8	49 44 49 52	77147 77164	4	22853 22836	86471 86498	6	13502	09324	2 2	90676	47 46
15	7 10 0	4 50 0	9, 77181	4	10, 22819	9, 86524	7	10, 13476	10, 09343	2	9, 90657	45
16	9 52	50 S	77199	5	22801	86551	1 7	13449	09352	9	90645	44
17	9 41	50 16	77216	5	22784	86577	1 7	13423	09361	3	90639	43
18	9 36	50 24	77233	5	22767	86603	8	13397	09370	3	90630	42
19	9.28	50 32	77250	- 5	22750	86630	$_{\rm s}$	13370	09380	3	90620	41
20	7 9 20	4 50 40	9.77268	6	10, 22732	9,86656	9	10, 13344	10,09389	3	9, 90611	40
21	9 12	50 48	77285	6	22715	86683	9	13317	09398	3	90602	39
22 : 23	9 4 8 56	50 56 51 4	77302 77319	6 7	22698 22681	86709 86736	10	13291 13264	09408 09417	3	90592 90583	38 37
23	8 48	51 12	77336	7	22664	86762	111	13238	09426	1 4	90574	36
25	7 8 40	4 51 20	9, 77353	7	10, 22647	9, 86789	11	10, 13211	10, 09435	1-4-	9, 90565	35
26	8 32	51 28	77370	7	22630	86815	lii	13185	09445	1	90555	34
27	8 24	51 36	77387	8	22613	86842	12	13158	09454	4	90546	33
28	8 16	51 44	77405	- 8	22595	.5 8686S	12	13132	09463	4	90537	- 32
29	8 8	51 52	77422	8	22578	** 86894	13	13106	09473	_5	90527	.31
30	7 8 0	4.52 - 0	9, 77439	9	10,22561	9,86921	13	10, 13079	10.09482	5	9.90518	30
31	7 52	52 8	77456	9	22544	86947	14	13053 13026	09491	5	90509	29 28
32 33	7 44 7 36	52 16 52 24	77473 77490	9	22527 22510	86974 87000	14 15	13000	09501 09510	5	90490	28
34	7 28	52 32	77507	10	22493	87027	15	12973	09520	5	90450	26
35	7 7 20	4 52 40	9, 77524	10	10, 22476	9, 87053	1 15	10. 12947	10. 09529	5	9, 90471	25
36	7 12	52.48	77541	10	22459	87079	16	12921	09538	6	90462	24
37	7 4	52.56	77558	11	22442	87106	16	12894	09548	(i	90452	23
38	6.56	50 4	77575	11	22425	87132	17	12868	09557	6	90143	22
_39	6 48	53 12	77592	11	22408	87158	17	12542	09566	- 6	90434	21
40	7 6 40	4 53 20	9, 77609	111	10, 22391	9, 87185	18	10, 12815	10, 09576	6	9, 90424	20
41 42	6.32	53 28 53 36	77626 77643	12	22374 22357	87211 87238	18	12789 12762	09 <b>585</b> 09595	6	90415	19 18
45	6 16	53 44	77660	12	22340	87261	19	12736	09604	1	90396	17
44	6.8	53.52	77677	13	22323	87290	19	12710	09614	7	90386	16
45	7 6 0	4.54 0	9, 77694	13	10, 22306	9, 87317	120		10, 09623	7	4, 90,377	15
46	5.52	54 8	77711	13	22250	87343	20	12657	09632	1 7	90368	14
47	5 44	54 16	77728	13	00070	87369	21	12631	09612	I	90358	13
48	5 36 5 28	51 24 :	77744	14	22256 22239	87396 87422	21	12604 12578	09651 09661	13	90349	12
50	7 5 29	4 51 40	77761 9, 77778	114	10 00909	9, 87148	1 22	10. 12552	10. 09670	-8	9, 90330	10
51	5 12	51.48	77795	15	10. 22222	17,313	00	10, 12525	0.0650	1 3	90320	10
52	5 4	51 56	77812	15	22155	87501	23	12499	09689	8	90311	- 5
53	4.56	55 4	77829	15	22171	87527	23	12473	(19699)	8	90001	7
54	4.48	55 12	77×46	15	22154	87554	24	12446	09708	_8	( <u></u>	6
55	7 4 40	4 55 20	9, 77862	16	10, 22138	9,87580	24	10, 12420	10,09718	9	9, 50252	5
56	4 32	55 28	77879	16	22121	87606	25	12394	09727_	1 2	90273	1
57	4 24	55-36 55-41	77896	16	22104 22087	87633 87659	25 26	12367 12341	09737 09746	9	90263 90254	3 2
58 59	4 16 1 8	55 41   55 52	77913 77930	17	22087	87655	26	12341	09746	1 5	90244	1
60	1 6	56 O	779 16	17	22054	87711	96	12257	09765	9	90225	0
1						l			1			l l
''	He ci M	Hour v. M.		Dist	Schill.		} , r	Tana of	C cant	Duff		4
126			1		\	N.		1				

Γ					TAF	LE 44.					[Page 8	09
				Log.	Sines, Tar	igents, an	d Sec	ants.				
870			A		A	В		В	c		C	$142^{\circ}$
М.	Honra. M.	Hour P. M.	Sinc.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	7 4 0	4 56 0	9.77946	0	10, 22054	9. 87711	0	10. 12289	10. 09765	0	9, 90235	60
1 2	3 52 3 44	56 8 56 16	77963	0	22037 22020	87738	0	12262	09775	0	90225	59
3	3 36	56 24	77980 77997	1	22003	87764 87790	1 1	12236 12210	09784 09794	0	90216 90206	58
4	3 28	56 32	78013	î	21987	87817	2	12183	09803	1	90197	57 56
- 5	7 3 20	4 56 40	9.78030	1	10. 21970	9.87843	2	10. 12157	10.09813	1	9.90187	55
6	3 12	56 48	78047	2	21953	87869	3	12131	09822	1	90178	54
7 8	3 4 2 56	56 56 57 4	78063 78080	2	21937 21920	87895 87922	3	12105 12078	09832 09841	1 1	90168 90159	53 :
9	2 48	57 12	78097	2	21903	87948	4	12052	09851	1	90149	51
10	7 2 40	4 57 20	9. 78113	3	10. 21887	9.87974	4	10, 12026	10, 09861	-	9, 90139	50
11	2 32	57 28	78130	3	21870	88000	5	12000	09870	2	90130	49
12	2 24 2 16	57 36 57 44	78147	3	21853	88027	5	11973	09880	2	90120	48
14	2 10	57 44 57 52	78163 78180	4	21837 21820	88053 88079	6	11947 11921	09889 09899	2 2	90111 90101	47 46
15	7 2 0	4 58 0	9, 78197	1	10, 21803	9. 88105	7	10. 11895	10. 09909	2	9, 90091	45
16	1 52	58 8	78213	4	21787	88131	7	11869	09918	3	90082	44
17	1 44	58 16	78230	5	21770	88158	7	11842	09928	3	90072	43
18 19	1 36 1 28	58 24 58 32	78246 78263	5	21754 21737	88184 88210	8	11816 11790	09937 09947	3	90063	42
20	7 1 20	4 58 40	9, 78280	5	10, 21720	9, 88236	9	10, 11764	10, 09957	3	9, 90043	41 40
21	1 12	58 48	78296	6	21704	88262	9	11738	09966	3	90034	39
22	1 4	58 <b>56</b>	78313	6	21687	88289	10	11711	09976	4	90024	38
23 24	0 56	59 4	78329	6	21671	88315	10	11685	09986	4	90014	37
25	7 0 40	59 12 4 59 20	78346 9, 78362	$\frac{7}{7}$	$\frac{21654}{10,21638}$	9. 88341 9. 88367	10	11659 10, 11633	09995 10, 10005	4	90005	$\frac{36}{35}$
26	0 32	59 28	78379	7	21621	88393	11	11607	10015	4	89985	34
27	0 24	59 36	78395	7	21605	88420	12	11580	10024	4	89976	33
28	0 16	59 44	78412	8	21588	88446	12	11554	10034	5	89966	32
29	7 0 0	5 0 0	78428	8	21572 10, 21555	88472	13	$\frac{11528}{10,11502}$	10044	5	89956	31
30 31	6 59 52	0 8	9. 78445 78461	9	21539	9. 88498 88524	13	11476	10. 10053 10063	5	9, 89947 89937	30 29
32	59 44	0 16	78478	9	21522	88550	14	11450	10073	5	89927	28
33	59 36	0 24	78494	9	21506	88577	14	11423	10082	5	89918	27
34	59 28	0 32	78510	9	21490	88603	15	11397	10092	5	89908	26
35 36	6 59 20 59 12	5 0 40 0 48	9. 78527 78543	10 10	10, 21473 21457	9. 88629 88655	15 16	10. 11371 11345	10. 10102 10112	6	9, 89898 89888	25 24
37	59 4	0 56	78560	10	21440	88681	16	11319	10121	6	89879	23
38	58 56	1 4	78576	10	21424	88707	17	11293	10131	6	89869	22
39	58 48	1 12	78592	11	21408	88733	17	11267	10141	6	89859	21
40 41	6 58 40 58 32	5 1 20 1 28	9, 78609 78625	11 11	$10,21391 \\ 21375$	9, 88759 88786	17 18	10. 11241 11214	10. 10151	6	9. 89849 89840	20 19
42	58 24	1 36	78642	12	21378	88812	18	11188	10160 10170	7	89830	18
43	58 16	1 44	78658	12	21342	88838	19	11162	10180	7	89820	17
44	58 8	1 52	78674	12	21326	88864	19	11136	10190	7	89810	16
45	6 58 0 57 52	5 2 0 2 8	9. 78691	12 13	10. 21309	9, 88890	20 20	10, 11110	10. 10199	7	9, 89801 89791	15 14
46 47	57 44	$\begin{array}{ccc} 2 & 8 \\ 2 & 16 \end{array}$	78707 78723	13	21293 21277	88916 88942	20	11084 11058	10209 10219	s	89781 89781	13
48	57 36	2 24	78739	13	21261	88968	21	11033	10229	1 8	89771	12
49	57 28	2 32	78756	13	21244	88994	21	11006	10239	8	89761	11
50	6 57 20	5 2 40 2 48	9. 78772	14	10, 21228	9, 89020	22		10, 10248	- 8	9, 89752	10
51 52	57 12 57 4	2 48 2 56	78788 78805	14 14	21212 21195	\$9046 \$9073	23	10954 10927	10258 10268	5 8	89742 89702	9 8
53	56 56	3 4	78821	15	21179	89099	23	10901	10278	9	89720	1 7
54	56 48	3 12	78837	15	21163	89125	24	10875	.0288	9	80712	6
55	6 56 40	5 3 20	9.78853	15	10.21147	9, 89151	24		10.10298		a), 89702	5
56	56 32 56 24	3 28	.78869 78886	15 16	21131 21114	89177	24	10823	10307 10317	9	\$969.1 \$965.1	3
57 58	56 16	3 86 3 44	78886 78902	16	21114 21098	89203 89229	25 25	19797 19771	10317	9	8067.1	1 2
59	56 8	3.52	78918	16	21082	59255	26	10745	10337	10	89657	1
60	56 0	4 0	78934	16	21066	89281	26	10719	10347	10	89677	0
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	sinc.	М.
1270			A		A	В		I	C.		C.	50

Seconds of time	1.	21	13*	4.	51	6.	7+
Prop. parts of cols, $\begin{cases} A \\ B \\ C \end{cases}$	3	1 7 2	10 4	8 10 5	10 16 6	12 20 7	14 23

Page 2	810]
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TABLE 44.

85-			Λ		Λ	В		В	c		C	1110
М.	Hour A.M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent	Secant.	biff.	Cosme.	М.
0	6.56 0	5 4 0	9, 78934	0	10.21066	9, 89281	0	10. 10719	10, 10347	0	9, 89653	60
1	55, 52	4 8	78950	0	21050	89307	0	10693	10357	-0	89643	59
2 3	55 44 55 56	4 16 4 24	78967 78983	1	21033 21017	89333 89359	1	10667 10641	10367 10376	0	89623 89624	58
4	55 28	4 32	78999	1	21001	89385	2	10041	10376	l i	89614	57 56
-5	6 55 20	5 4 40	9, 79015	1	$\overline{10.20985}$	9, 89411	-2	10, 10589	10, 10396	1	9, 89604	55
- 6	55 12	4.45	79031	.2	20969	89437	3	10563	10406	1	89594	54
7	55 4	4.56	79047	2	20953	89463	1 3	10537	10416	1	59584	53
8	54 45	5 4 5 12	79063 79079	2 2	20937 20921	89489 89515	3	10511 10485	10426 10436	$\frac{1}{2}$	89574 89561	52 51
10	6 54 40	5 5 20	9, 79095	-3	10, 20905	9, 89541	-4		10, 10446	2	9. 89554	50
11	54 52	5 28	79111	3	20889	89567	5	10433	10456	2	89544	49
12	54 24	5-36	79128	- 3	20872	89593	â	10407	10466	2	89534	48
13	54 16 54 8	5 44 5 52	79144	3	20856	89619	6	10381	10476	2 2	89524	47
14	6 54 0	5 6 0	79160 9, 79176	4	20840 10, 20824	89645 9, 89671	6 6	10355	10486	3	89514 9, 89504	$-\frac{46}{45}$
16	55 52	5 6 8	79192	4	20808	89697		10.10323	10505	3	89495	44
17	53 44	6 16	79208	- 5	20792	89723	7	10277	10515	3	89485	43
15	55 36	6.24	79224	5	20776	89749	- 8	10251	10525	3	89475	42
19	58 28	6.32	79240	_5	20760	89775	8	10225	10535	3-	89465	41
20 21	6 53 20 53 12	5 6 40 6 48	9, 79256 79272	5 6	10, 20744 20728	9, 89801 89827	9	10. 10199	10, 10545 10555	3	9, 89455 89445	40 39
• > • •	55 4	6 5/6	79255	. 6	20712	89853	10	10147	10565	1	89435	38
233	52,56	7 4	79504	6	20696	89879	10	10121	10575	4	89425	37
24	52.45	7 12	79319	6	20651	89905	10	10095	10585	4	89415	36
25	6 52 40	5 - 7/20	9, 79335	7	10, 20665	9, 89931	11	10, 10069	10, 10595	1 4	9, 89405	35
26	52 32 52 24	7 28 7 36	79351 79367	7	20649 20633	89957 89983	11 12	10043	10605	5	89395 89385	34
27 28	52 16	7 41	79383	7	20617	90009	12	09991	10625	5	89375	
29	52 S	7 52	79399	1 8	20601	2005.5	13	09965	10636	5	89364	31
30	6.52 0	5 8 0	9, 79415	8	10, 20585	9,90061	13		10, 10646	5	9, 89354	30
31 32	51 52 51 44	8 8 8 16	79431	8	20569 20553	90086 90112	13 14	09914 09888	10656 10666	5	89344	29 28
35	51.06	8 16   8 21	79447 79463	0	20537	50138	14	09562	10676	6	89334 89324	25
34	51.28	8 52	79478	9	20522	90164	15	09836	19686	16	89314	26
35	6 01 10	5 8 40 :	9, 79494	9	10, 20506	51, 587 (587	15		10, 10696	G	9, 89304	25
36	51 12	8.48	29510	10	20490	90216	16	09784	10706	- 6	89294	24
37 38	51 4 50 56	8 56 9 4	79526	10	20474 20458	90242 90268	16	09758	10716 10726	ti	89284 89274	23 22
39	50.48	9 12	79542 79558	110	20135	90208	17	09706	10726	7	89264	21
40	6 .10 40	5 9 20	9, 79573	11	10. 20427	9, 90320	17		10, 10746	7	9, 89254	20
41	50.32	9.28	79589	11	20411	90346	18	09654	10756	7	89244	19
42	50.24	9.06	79605	11	20.395	90371	18	09629	10767	7	89233	
4.3	50.46	9 14 9 52	79621 79636	11	20379 20364	90397 90423	19	09603	10777	7	89223 89213	
45	0.50 0	5 10 0	9, 79652	1 12	10, 20348	9, 90449	1.19	40, 09551	10787	1 8	19, 89203	1 - 1
46	49.52	10 8	79668	12	20332	90475	20	09525	10807	8	89193	
47	49.44	10 16	79684	12	20016	90501	20	(49459)	10817	8	89183	13
15	4 / 116	10.24	79699	13	20301	90527	21	09473	10827	8	89173	
49 50	4 1 25	10.32	79715	13	20285	90558	1 22	09447	10838	8	89162 19, 89152	4
51	5 10 20	5 10 40	9, 79731 79746	13	10, 20269 1 20254	9,90578	33	09396	10, 10848 10858	8 9	89142	
52	io 1	10 56	79762	14	20238	90630	22	09370	10868	1 9	89132	1 8
5.5	48.76	11 +	79778	14	20222	90656	23	09344	10878	9	89122	
54	15.5	11 12	79793	1.14	20207	16652	23	09318	10888	19	89112	
1 55 56	100	5 H 20 H 28	9, 79809 79825	15 15	$\begin{bmatrix} 10,20191\\20175 \end{bmatrix}$	== 90708 90734	121	10, 09292 09266	10, 10899	17	9, 89101	5 4
37	1827	11 36	79840	15	20160	90759	25	09241	10909	10	89081	
5.8	15 11	11 11	79856	15	20144	90785	25	09215	10929	10	89071	22
(v)	1000	11.52	79872	16	20128	90811	26	09189	10940	10	89060	
60	1- ()	12 0	79887	16	20113	90807	26	09163	10950	10	89050	0
М		Hour A. W.	Losina	luit	Securit	Cotangent	, Duf	langent.	Cosecuti*	Datt	Sine.	M.
11:5			٠		\	1:		11			-	61
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[Page 811

Log. Sines, Tangents, and	Secants	4.
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39°			A		A	В		В	С		C	1400
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	6 48 0	5 12 0	9, 79887	0	10. 20113	9.90837	0	10.09163	10. 10950	0	9, 89050	60
$\frac{1}{2}$	47 52	12 8 12 16	79903	0	20097	90863	0	09137	10960	0	89040	59
3	47 44 47 36	12 16	79918 79904	1	20082 20066	90889 90914	1	09111 09086	10970 10980	1	89030 89020	58 57
4	47 28	12 32	79950	i	20050	90940	2	09060	10991	li	89009	56
5	6 47 20	5 12 40	9. 79965	1	10.20035	9.90966	2	10.09034	10, 11001	1	9, 88999	55
6	47 12	12 48	79981	2	20019	90992	3	09008	11011	1	88989	54
8	$\frac{47}{46} \frac{4}{56}$	$\frac{12}{13} \frac{56}{4}$	79996 80012	2 2	20004 19988	91018 91043	3	08982 08957	11022 11032	1	88978 88968	53 52
9	46 48	13 12	80027	2	19973	91069	4	08931	11042	2	88958	51
10	6 46 40	5 13 20	9, 80043	3	10, 19957	9,91095	4		10.11052	2	9.88948	50
11	46 32	13 28	80058	3	19942	91121	5	08879	11063	2 2	88937	49
12 13	46 24 46 16	13 36   13 44	80074 80089	3	19926 19911	91147 91172	5	08853 08828	11073 11083	2	88927 88917	48 47
14	46 8	13 52	80105	4	19895	91198	6	08802	11094	2	88906	46
15	6 46 0	5 14 0	9, 80120	4	10.19880	9,91224	6		10.11104	3	9.88896	45
16	45 52	14 8	80136	4	19864	91250 91276	7	08750	111114	3	88886	44
17 18	45 44 45 36	14 16 14 24	80151 80166	5	19849 19834	91276 91301	s's	08724 08699	11125 11135	3	88875 88865	43 42
19	45 28	14 32	80182	5	19818	91327	8	08673	11145	3	88855	41
20	6 45 20	5 14 40	9.80197	5	10, 19803	9, 91353	9	10. 08647	10.11156	3	9.88844	40
21 22	45 12	14 48	80213 80228	5	19787 19772	91379	9	08621 08596	11166	4 4	88834	39
23	$\frac{45}{44}$ $\frac{4}{56}$	14 56 : 15 4	80228 80244	6	19772 19756	91404 91430	10	08570	11176 11187	1	88824 88813	38 37
24	44 48	15 12	80259	6	19741	91456	10	08544	11197	4	88803	36
25	6 44 40	5 15 20	9.80274	6	10.19726	9.91482	11	10.08518	10.11207	4	9.88793	35
$\frac{26}{27}$	44 32 44 24	15 28   15 36	80290 80305	7	19710 19695	91507 91533	11 12	08493 08467	11218 11228	5	88782 88772	34 33
28	44 16	15 44	80320	7	19680	91559	12	08441	11228	5	88761	32
29	44 S	15 52	80336	7	19664	91585	12	08415	11249	5	88751	31
30	6 44 0	5 16 0	9, 80351	8	10. 19649	9, 91610	13	10.08390	10.11259	5	9.88741	30
31 32	43 52 43 44	16 8 16 16	80366 80382	8	19634 19618	91636 91662	13	08364 08338	11270 11280	5	88730 88720	29 28
33	43 36	16 24	80397	8	19603	91688	14	08312	11291	6	88709	27
34	43 28	16 32	80412	9	19588	91713	15	08287	11301	-6	88699	26
35	6 43 20	5 16 40	9.80428	9	10. 19572	9. 91739	15	10. 08261	10, 11312	6	9, 88688	25
36 37	43 12 43 4	16 48 16 56	80443 80458	9	19557 19542	91765 91791	15 16	08235 08209	11322 11332	6	SS678 88668	24 23
38	42 56	17 4	80473	10	19527	91816	16	08184	11343	7	88657	22
39	42 48	17_12	80489	10	19511	91842	_17	08158	11353	7	88647	21
40	6 42 40	5 17 20	9.80504	10	10. 19496	9, 91868	17	10.08132	10. 11364	7	9. 88636	20
41 42	42 32 42 24	17 28 17 36	80519 80534	10 11	19481 19466	91893 91919	18 18	08107 08081	11374 11385	7 7	88626 88615	19 18
43	42 16	17 44	80550	11	19450	91945	18	08055	11395	7	88605	17
44	42_8	17 52	80565	11	19435	91971	19	08029	11406	8	88594	16
45 46	6 42 0 41 52	5 18 0 18 8	9. 80580 80595	12 12	10, 19420 19405	9.91996 92022	19 20	10. 08004 07978	$10.11416\\11427$	8	9, 88584 88573	15 14
47	41 52	18 16	80610	12	19390	92048	20	07952	11437	8	88563	13
48	41 36	18 24	80625	12	19375	92073	21	07927	11448	S	88552	12
49	41 28	18 32	80641	13	19359	92099	21	07901	11458	9	88542	11
50 51	6 41 20 41 12	5 18 40 18 48	9, 80656 80671	13 13	10. 19344 19329	9. 92125 92150	21	10.07875 07850	10, 11469 11479	9	9, 88531 88521	10 9
52	41 12	18 56	80686	13	19314	92176	22	07824	11490	- 9	88510	
53	40 56	19 4	80701	14	19299	92202	23	07798	11501	9	88499	8 7
54	40 48	19 12	80716	14	19284	92227	23	07773 10, 07747	11511	9	88489	-6
55 56	6 40 40 40 32	5 19 20 1 19 28	9. 80731 80746	14 14	10, 19269 19254	9. 92253 92279	24	07721	10.11522 $11532$	10	9. 88478 88468	5
57	40 32	19 36	80762	15	19238	92304	24	07696	11543	10	88457	3
58	40 16	19 44	80777	15	19223	92330	25	07670	11553	10	88447	2
59	40 S	19 52 20 0	80792 80807	15 15	19208 19193	92356 92381	25 26	07644 07619	11564 11575	10	88436 88425	1 0
60	40 0	20 0	00001	10	10100	02001	~",			_		11
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Secunt.	Cotangent.	Dıtî.	Tangent.	Cosceant,	Diff.	sine.	М.
1290			А		Α.	В		В	C.	-	С	50°

Seconds of time	1 .	2 :	3 "	41	5+	6:	7 .
Prop. parts of cols.	2	4	6	8	10	12	13
	3	6	10	13	16	19	23
	1	3	4	5	7	8	9

Page	8121

TABLE 44.

40°			A		Α	B	a i c	В	C		С	1390
М.	Houra.m.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	₽ifī.	Cotangent	Secant.	Diff.	Cosine.	М.
0	6 40 0	5 20 0	9,80807	0	10. 19193	9, 92381	0	10. 07619	10. 11575	0	9. 58425	60
$\frac{1}{2}$	39 52 39 44	20 S 20 16	80822 80837	0	19178 19163	92407 92433	0	07593 07567	11585 11596	0	88415	59
3	39 36	20 24	80852	i	19148	92458	l i	07542	11606	0	58404 88394	58 57
4	39.28	20 32	80867	1	19133	92484	2	07516	11617	i	88383	56
5	6 39 20	5 20 40	9, 80882	1	10, 19118	9, 92510	2	10.07490	10.11628	1	9.88372	55
6 7	39 12 39 4	20 48 20 56	80897 80912	1 2	19103 19088	92535 92561	3	07465 07439	11638 11649	1	85362 85351	54 53
8	38 56	21 4	80927	2	19073	92587	3	07413	11660	l i	88340	52
_9_	38 48	21 12	80942	_2	19058	92612	4	07388	11670	2	88330	51
10 11	6 38 40 38 32	5 21 20 21 28	9, 80957 80972	2 3	10, 19043 19028	9, 92638 92663	4 5	10. 07362 07337	10.11681 $11692$	2 2	9, 88319	50
12	38 24	21 36	80987	3	19013	92689	5	07311	11702	5	88298	49 48
13	38 16	21 44	81002	3	18998	92715	6	07285	11713	2	88287	47
$\frac{14}{15}$	38_8	21 52	81017	_3_	18983	92740	6	07260	11724	3	88276	46
16	6 38 0 37 52	5 22 0 22 8	9, 81032 81047	4	10, 18968 18953	9, 92766 92792	6	10,07234 $07208$	10, 11734 11745	3	9, 88266 88255	45 44
17	37 44	22 16	81061	4	18939	92817	7	07183	11756	3	88244	43
18	37 36	22 24	81076	4	18924	92843	8	07157	11766	3	88234	42
19 20	37_28_ 6_37_20_	5 22 40	81091 9, 81106	$-\frac{5}{5}$	18909 10, 18894	92868 9. 92894	8	10, 07106	11777 10. 11788	$-\frac{3}{4}$	88223 9, 88212	41 40
21	37 12	22 48	81121	5	18879	92920	9	07080	11799	4	88201	39
22	37 4	22.56	81136	-5	18864	92945	9	07055	11809	4	88191	38
23 24	36 56   36 48	$\frac{23}{23}$ $\frac{4}{12}$	81151 81166	6 6	18849 18834	92971 92996	10	07029 07004	11820 11831	4 4	88180 88169	37 36
$\frac{-1}{25}$	6 36 40	5 23 20	9, 81180		10, 18820	9, 93022	11	10, 06978	10, 11842	4	9, 88158	35
26	36.32	23 28	81195	6.	18805	93048	11	06952	11852	5	88148	34
27	36 24	23 36	81210	7	18790	93073	12	06927	11863	5	88137	33
28	36 16 36 8	23 44 23 52	81225 81240	7	18775 18760	93099 93124	12 12	06901 06876	11874 11885	5	88126 88115	32 31
30	6 36 0	5 24 0	9. 81254		10. 18746	9, 93150	13	10, 06850	10, 11895	5	9, 88105	30
31	35 52	24 8	81269	8	18731	93175	13	06825	11906	- 6	88094	29
32	35 44 35 36	24 16 24 24	81284 81299	8	18716 18701	93201 93227	14	06799 06773	11917 11928	6	88083 88072	28 27
34	35 28	24 32	81314	8	18686	93252	14	06748	11939	6	88061	26
35	6 35 20	5 24 40	9,81328	9	10.18672	9.93278	15	10.06722	10, 11949	6	9,88051	25
36	35 12 35 4	24 48 24 56	81343 81358	9	18657	93303 93329	15 16	06697	11960 11971	6 7	88040	24 23
38	35 4 34 56	25 4	81372	9	18642 18628	93354	16	06646	11971	1 4	88029 88018	23
39	34 48	25/12	81387	10	18613	93380	17	06620	11993	7	88007	21
40	6 34 40	5 25 20	9, 81402		10.18598	9, 93406	17	10, 06594	10. 12004	1	9,87996	20
$\frac{41}{42}$	34 32 34 24	25 28 25 36	81417 81431	10	18583 18569	93431 93457	17	06569 06543	12015 12025	8	87985 87975	19 18
43	34 16	25 44	81446	11	18554	93482	18	06518	12036	8	87964	17
44	34 8	25_52	81461	11	18539	93508	19	06492	12047	8	87953	16
45 46	6 34 0 33 52	5 26 0 26 8	9, 81475 81490	11	10, 18525 18510	9, 93533 93559	20	10, 06467 06441	10, 12058 12069	8	9, 87942 87931	15 14
47	33 44	26 16	81505	12	18495	93584	20	06416	12080	8	57920	13
48	33 36	26 24	81519	12	18481	93610	20	06390	12091	9	87909	12
49 50	6 33 20	26 32 5 26 40	81534 9, 81549	$\frac{12}{12}$	18466 10, 18451	93636	21 21	06364_ 10. 06339	1210 <b>2</b> 10. 12113	- 9	87898 9, 87857	11
51	33 12	26 45	81563	13	18437	93687	99	06313	12123	9	57877	9
52	33 4	26.56	81578	13	18422	93712	22	06288	12134	- 9	57866	- 8
53 54	32 56 32 48	27 4 27 12	81592 81607	13	18408 18393	93738 93763	23	06262 06237	12145 12156	10	87855 87844	7 6
55	6 32 40	5 27 20	9, 81622		10, 18378	9, 93789	23	10, 06211	10, 12167	10	9, 87833	$-\frac{6}{5}$
56	32 32	27 - 28	81636	14	18364	90814	21	06186	12178	10	87822	4
57 58	32 24 32 16	27 36	81651 81665	14 -	18349 18335	93840 93865	24 25	06160 06135	12189 12200	10	87811	3 9
59	32 16 32 8	27 41 27 52	81665 81680	15	18320	93891	25	06109	12200	11	87500 87789	2 1
h()	32 0	28 0	81694	15	18306	93916	26	06084	12222	11	87778	0
М	Hour P M.	Hour a. M	Cosine.	Diff.	Swant,	Cotangent	Diff	Tangent.	Covecant.	Diff.	Sine.	М.
130			Α		A	В		В	· · ·		· ·	49:

410			A		A	В		В	С		e	1350
M.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Tangent.	Diff.	Cotangent.	Secant.	Diff.	Cosine.	М.
0	6 32 0	5 28 0	9.81694	0	10.18306	9, 93916	0	10.06084	10. 12222	0	9.87778	60
$\frac{1}{2}$	31 52 31 44	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	81709 81723	0	18291 18277	93942 93967	0	06058 06033	12233 12244	0	87767	59
3	31 36	28 24	81738	i	18262	93993	1	06007	12255	li	87756 87745	58 57
4	31 28	28 32	81752	1	18248	94018	2	05982	12266	1	87734	56
5 6	6 31 20 31 12	5 28 40 28 48	9. 81767 81781	1	10. 18233	9, 94044	3	10.05956	10. 12277	1	9.87723	55
7	31 4	28 56	81796	$\frac{1}{2}$	18219 18204	94069 94095	3	05931 05905	12288 12299	1 1	87712 87701	54 53
8	30 56	29 4	81810	2	18190	94120	3	05880	12310	1	87690	52
9	30 48	29 12	81825	2	18175	94146	4	05854	12321	2	87679	51
10 11	6 30 40 30 32	5 29 20 29 28	9. 81839 81854	3	10.18161 $18146$	9, 94171 94197	5	10. 05829 05803	10.12332 $12343$	2 2	9.87668 87657	50
12	30 24	29 36	81868	3	18132	94222	5	05778	12354	1 2	87646	49 48
13	30 16	29 44	81882	3	18118	94248	6	05752	12365	2	87635	47
14	$\frac{30}{6} \frac{8}{30} \frac{3}{0}$	29 52 5 30 0	81897 9, 81911	3	18103	94273	$\frac{-6}{6}$	05727	12376 10. 12387	3	87624	46
16	29 52	30 8	81926	4	18074	94324	7	05676	12399	3	9. 87613 87601	45 44
17	29 44	30 16	81940	4	18060	94350	7	05650	12410	3	87590	43
18 19	29 36 29 28	30 24 30 32	81955 81969	5	18045 18031	94375 94401	8	05625 05599	12421	3	87579	42
20	6 29 20	5 30 40	9, 81983	5	10. 18017	9, 94426	8	10, 05574	12432 10, 12443	4	87568 9.87557	$\frac{41}{40}$
21	29 12	30 48	81998	5	18002	94452	9	05548	12454	4	87546	39
22 23	29 4	30 56	82012 82026	5	17988	94477	10	05523	12465	4	87535	38
23	28 56 28 48	31 4 31 12	82026 82041	6	17974 17959	94503 94528	10	05497 05472	12476 $12487$	4	87524 87513	37 36
25	6 28 40	5 31 20	9.82055	6	10, 17945	9. 94554	11	10.05446	10, 12499	5	9, 87501	35
26	28 32	31 28	82069	6	17931	94579	11	05421	12510	5	87490	34
$\frac{27}{28}$	$\begin{array}{r} 28 \ 24 \\ \cdot \ 28 \ 16 \end{array}$	31 36 31 44	82084 82098	6 7	17916 17902	· 94604 94630	11 12	05396 05370	12521 $12532$	5	87479 87468	33 32
29	28 8	31 52	82112	7	17888	94655	12	05345	12543	5	87457	31
30	6 28 0	5 32 0	9.82126	7	10, 17874	9.94681	13	10.05319	10.12554	6	9.87446	30
31 32	27 52 27 44	32 8 32 16	82141 82155	8	17859 17845	$94706 \\ 94732$	13 14	05294 05268	$12566 \\ 12577$	6	87434 87423	29 28
33	27 36	32 24	82169	8	17831	94757	14	05243	12588	6	87412	27
34	27 28	32 32	82184	-8	17816	94783	14	05217	12599	6	87401	26
35 36	6 27 20 27 12	5 32 40 32 48	9. 82198 82212	8 9	10. 17802	9. 94808 94834	15 15	10.05192	10. 12610	7 7	9. 87390	25
37	27 12 27 4	32 56	82226	9	17788 17774	94859	16	05166 05141	12622 12633	7	87378 87367	24 23
38	26 56	33 4	82240	9	17760	94884	16	05116	12644	7	87356	22
39	26 48	33 12	82255	9	17745	94910	$\frac{17}{17}$	05090	12655	7	87345	21
40 41	6 26 40 26 32	5 33 20 33 28	9. 82269 82283	10 10	10. 17731 17717	9. 94935 94961	17	10. 05065 05039	$10.12666 \\ 12678$	7 8	9. 87334 87322	20 19
42	26 24	33 36	82297	10	17703	94986	18	05014	12689	8	87311	18
43 44	26 16 26 8	33 44 33 52	82311 82326	10 10	17689 17674	95012 95037	18 19	04988 04963	$12700 \\ 12712$	8	87300 87288	17 16
45	6 26 0	5 34 0	9, 82340	11	10, 17660	9,95062	$\frac{19}{19}$	10. 04938	10, 12723	$\frac{8}{8}$	9,87277	15
46	25 52	34 8	82354	11	17646	95088	20	04912	12734	9	87266	14
47	25 44	34 16 34 24	82368 82382	11 11	17632	95113	20 20	04887	$\frac{12745}{12757}$	9	87255	13 12
48 49	25 36   25 28	34 24 34 32	82382 82396	12	17618 17604	95139 95164	20	$04861 \\ 04836$	12768	9	87243 87232	11
50	6 25 20	5 34 40	9.82410	12	10. 17590	9.95190	21	10.04810	10. 12779	9	9.87221	10
51	25 12	34 48	82424	12 12	17576	95215	22 22	04785	12791 12802	10	87209	9
52 53	25 4 24 56	34 56 35 4	82439 82453	13	17561 17547	95240 95266	22	04760 04734	12802	10 10	87198 87187	8 7
54	24 48	35 12	82467	13	17533	95291	23	04709	12825	10	87175	6
55	6 24 40	5 35 20	9. 82481	13	10. 17519	9. 95317	23	10.04683	10. 12836	10	9.87164	5
56 57	24 32 24 24	35 28 35 36	82495 82509	13 14	$\frac{17505}{17491}$	95342 95368	24 24	04658 04632	12847 12859	10 11	87153 87141	3
58	24 16	35 44	82523	14	17477	95393	25	04607	12870	11	87130	2
59	24 8	35 52	82537	14	17463	95418	25 25	$04582 \\ 04556$	12881	11	87119 87107	1 0
60	24 0	36 0	82551	14	17449	95444	20	04000	12893	11	0/10/	
М.	Hour P. M.	Hour A. M.	Cosine.	Diff.	Secant.	Cotangent.	Diff.	Tangent.	Cosecant.	Diff.	Sinc.	М.
131°			A		A	В		В	С		С.	450
_							-					

Seconds of time	1"	2. *	3*	44	$\tilde{\delta}^{q}$	6,	71
Prop. parts of cols, \bigg\{ \bigg\{ \bigg\{ B \\ C \end{array}} \end{array}}	2 3 2	6 3	5 10 4	7 13 6	16 7	11 19 8	12 22 10

42°												
-				Log.	Sines, Tar	gents, and	l Sec	ants.	С		С	1070
	Hour A. M.	Hour P M	sine.	Diff.	Cosecant.	Tangent.	Diff	Cotangent		Diff.		137°
				-								1-
0	6 24 0 20 52	5 36 0 06 8	9, 82551 82565	0	10. 17449 17435	9, 95444 95469	0	10, 04556	10, 12893 12904	0	9, \$7107 87096	60 59
2	20 44	36 16	82579	0	17421	95495	1	04505	12915	0	87085	58
3 4	20.06 20.28	36 24 36 32	82593 82607	1	17407 17393	95520 95545	1 2	04480 04455	12927 12938	1	87073 87062	57
-5	F. 20, 20	5 36 40	9, 82621	-i	10. 17379	9, 95571		10.04429	10, 12950	i	9, 87050	55
5	21 12	36 48 36 56	82635 82649	1 2	17365	95596 95622	3	04404 04378	12961 12972	1	87039 87028	54
\$	22 56	37 4	82663 82663	2	17351 17337	95647	3	04353	12984	1 2	87028 87016	53 52
. 9	22,48	37_12	82677	_2	17023	95672	4	04328	12995	2	\$7005	51
10 11	6 22 40 22 32	5 37 20 37 28	9, 82691 82705	3	10, 17309 17295	9, 95698 95723	5	10, 04302 04277	10, 13007 13018	2 2	9, 86993	50 49
12	22 24	37.36	82719	3	17281	95748	5	04252	13030	2	56970	48
13 14	22 16 22 8	37 44	82733	3	17267	95774	5	04226	13041		86959	47
15	6 22 0	37 52 5 38 0	82747 9, 82761	$-\frac{3}{3}$	$\frac{17253}{10,17239}$	95799 9, 95825	15	04201 10, 04175	13053 10, 13064	$-\frac{3}{3}$	86947 9, 86936	45
16	21.52	38 8	82775	4	17225	95850	7	04150	13076	3	86924	44
17 18	21 44 21 36	38 16 38 24	82785 82802	4	17212 17198	95875 95901	7.8	04125	13087 13098	3	86913 86902	43 42
19	21 28	38 32	82816	4	17184	95926	8	04074	13110	4	86890	41
20	6 21 20	5 38 40	9,82830	-5	10, 17170	9, 95952	- 8	10.04048	10, 13121	4	9, 86879	40
21	21 12 21 4	38 48   38 56	82844 82858	5	17156 17142	95977 96002	9	04023 03998	13133 13145	4	86867 86855	39 38
23	20.56	39 4	82872	- 5	17128	96028	10	03972	13156	4	86844	37
24	20 48	39 12	82885	6	17115	96053	10	03947	13168	5	86832	36
26 26	6 20 40 20 32	5 39 20 39 28	9, 82899 82913	6	10. 17101 17087	9, 96078 96104	11	10, 03922 03896	10, 13179 13191	5	9, 86821 86809	35 34
27	20 24	39.36	82927	- 6	17073	96129	11	03871	13202	5	86798	33
28 29	20 16 20 8	39 44 39 52	82941 82955	6 7	17059 17045	96155 96180	12	03845 03820	13214 13225	5	86786 86775	32 31
	6 20 0	5 40 0	9, 82968	7	10, 17032	9, 96205	13	10, 03795	10, 13237	6	9, 86763	30
31	19.52	40 8	82982	7	17018	96231	13	03769	13248	6	86752	29
32 33	19 44 ( 19 36 )	40-16 40-24	82996 83010	7 8	17004 16990	96256 96281	14	03744 03719	13260 13272	6	86740 86728	28 27
34	19/28	40 32	83023	8	16977	96307	14	03693	13253	7	86717	26
35 36	6 19 20	5 40 40 40 48	9, 83037 83051	8	10. 16963 16949	9, 96332 96357	15 15	10. 03668 03643	10, 13295 13306	7	9, 86705 86694	25 24
37	19 4	40 56	83065	8	16935	96383	16	03617	13318	7	86682	23
38	18 48	41 4	83078	9	16922	96408	16	03592	13330	7	86670	22
39 40	6 15 40	41_12 5_41_20	9, 83106	$-\frac{9}{9}$	16908 10, 16894	96433	16	03567	13341 10, 13353	$-\frac{8}{8}$	86659 9, 86647	$\frac{21}{20}$
41	18 32	41 28	83120	9	16880	96484	17	03516	13365	- 8	86635	19
42 43	18 24	41 36 : 41 44	83133 83147	10 10	16867 16853	96510 96535	18	03490 03465	13376 13388	8	86624 86612	18 17
ii l	15 5	41.52	83161	10	16839	96560	19	03440	13400	8	56600	16
	6 18 0	5 42 0	9,83174	10	10. 16826	9, 96586	19	10, 03414	10, 13411	9	9, 86589	15
46 17	17 52 1 17 41	42 8 42 16	83188 83202	1 I 1 I	16812 16798 1	96611	19 20	03389 03364	13423 13435	9	86577 86565	14
45	17,36	42 24	83215	11	16785	96662	20	03338	13446	9	86554	12
49 50	17 28 c 6 17 20 c	42 32	83229		16771	96687	. 21 . 21	03313 10, 03288	13458	9 10	86542	11
51	6 17 20 .	5 42 40 42 48	9, 83242 83256	12	10, 16758 : 16744	96738	90	03262	10, 13470 13482	10	9, 86530 86518	10 9
52	17 4	12.56	83270	12	16730	16763	90	0.3237	13493	10	86507	-8
53 54	16.48 16.48	13 4 13 12	80283 83297	12	16717 16703 i	96788 96814	23	03212 03186	13505 13517	10 10	86495 86483	7 6
55	6 16 10	5 43 20	9, 83310		10, 16690	9 96839	23	10, 03161	10, 13528	11	9,86472	5
56	16.02	13.28	83324	13	16676 16662	(1654)	21	0.1[36	13540 13552	11	86460	4
57 56	16 21	13 34	\$3338 83351	13	16662	96915	25	03110   03085	13552	11	86148 86436	3 2
59	6.5	4 1 52	83365	11	16635	96940	25	00080	13575	11	86425	ī
60	16 ()	44 0	80378	11	16622	96,966	25 :	00034	10587	12	86413	0
4	- 4	HartM	C estro	Diff	Securit	1 261, 5 117	laist.	Tatacat	Communit	Duï.	Sine.	М.
14.			\		\	B		В	C		C	470

seconds of time.	1.	. 5.	31	P	51	6-	7.
1.1				7	9	19	1.
Propagarts of cole of B			10	1;	10	19	-
LC.			- 1	ь	7	9 1	10

TABLE 44.

				Log.	Sines, Tai		d Sec					
43°			A		A	В	790	В	c		C	136°
M.	Hour A. M.	Hour P. M.	Sine,	Diff	Cosecant.	Tangent.	biff.	Cotangent.	Secant.	Diff.	Cosine,	М.
0	6 16 0	5 44 0	9.83378	0	10, 16622	9, 96966	0	10. 03034	10, 13587	0	9, 86413	60
1	15 52	44 8	83392	0	16608	96991	0	03009	13599	ő	86401	59
2	15 44	44 16	83405	0	16595	97016	1	02984	13611	0	86389	58
3	15 36	44 24	83419	1	16581	97042	1	02958	13623	1	86377	57
4	15 28	44 32	83432	1	16568	97067	2	02933	13634	1	86366	56
5 6	6 15 20 15 12	5 44 40 44 48	9, 83446 83459	1	10. 16554 16541	9,97092	2	10, 02908	10, 13646	1	9, 86354	55
7	15 4	44 56	83473	1 2	16527	97118 97143	3	02882 02857	13658 13670	1	86342 86330	54
8	14 56	45 4	83486	2	16514	97168	3	02832	13682	2	86318	52
9	14 48	45 12	83500	2	16500	97193	1	02807	13694	2	86306	51
10	6 14 40	5 45 20	9, 83513	2	10. 16487	9, 97219	4	10.02781	10.13705	2	9,86295	50
11	14 32	45.28	83527	2	16473	97244	5	02756	13717	2	86253	49
12	14 24	45 36	83540	3	16460	97269	5	02731	13729	2	86271	48
13	14 16	45 44	83554	3	16446	97295	5	02705	13741	3	86259	47
14	14 8	45 52	83567	3	16433	97320	6	02680	_13753	3	86247	46
15 16	6 14 0 13 52	5 46 0 46 8	9. 83581 83594	3	10. 16419 16406	9, 97345 97371	6	10. 02655 02629	10. 13765	3	9, 86235	45
17	13 44	46 16	83608	4	16392	97371	7	02629	13777 13789	3	86223 86211	44 43
18	13 36	46 24	83621	4	16379	97421	8	02579	13800	4	86200	42
19	13 28	46 32	83634	1	16366	97447	8	02553	13812	4	86188	41
20	6 13 20	5 46 40	9,83648	4	$10, \overline{16352}$	9,97472	8	10, 02528	10, 13824	4	9, 86176	40
21	13 12	46 48	83661	5	16339	97497	9	02503	13836	4	86164	39
22	13 4	46 56	83674	- 5	16326	97523	9	02477	13848	4	86152	38
23	12 56	47 4	83688	5	16312	97548	10	02452	13860	5	86140	37
24	12 48	47 12	83701	_5	16299	97573	10	02427	-13872	5	86128	36
25	6 12 40	5 47 20 47 28	9.83715	6	10. 16285	9, 97598	11		10. 13884	5.	9,86116	35
26 27	12 32 12 24	47 28 47 36	83728 83741	6	16272 16259	97624 97649	11	02376 $02351$	13896 13908	5	86104 86092	34
28	12 16	47 44	83755	6	16245	97674	12	02326	13920	6	86080	33 32
29	12 8	47 52	83768	6	16232	97700	12	02300	13932	6	86068	31
30	6 12 0	5 48 0	9, 83781	7	10, 16219	9, 97725	13	10. 02275	10, 13944	6	9, 86056	30
31	11 52	48 8	83795	7	16205	97750	13	02250	13956	6	86044	29
32	11 44	48 16	83808	7	16192	97776	13	02224	13968	- 6	86032	28
33	11 36	48 24	83821	7	16179	97801	14	02199	13980	7	86020	27
34	11 28	48 32	83834	_8	16166	97826	14	02174	13992	_7_	86008	26
35	6 11 20	5 48 40	9.83848	8	10. 16152	9, 97851	15	10. 02149	10. 14004	7	9, 85996	25
36 37	11 12 11 4	48 48 48 56	83861 83874	8	16139 16126	97877 97902	15 16	02123 02098	14016 14028	7	85984 85972	24 23
38	10 56	49 4	83887	8	16113	97927	16	02073	14040	8	85960	90
39	10 48	49 12	83901	9	16099	97953	16	02047	14052	8	85948	1 21
40	6 10 40	5 49 20	9, 83914	9	10, 16086	9, 97978	17	10.02022	10, 14064	-8	9, 85936	20
41	10 32	49 28	83927	9	16073	98003	17	01997	14076	8	85924	19
42	10 24	49-36	83940	9	16060	98029	18	01971	14088	8	85912	18
43	10 16	49 44	83954	10	16046	98054	18	01946	14100	9	85900	17
44	10 8	49 52	83967	10	16033	98079	19	01921	14112	9	85888	16
45 46	6 10 0 9 52	5 50 0 50 8	9, 83980 83993	$\frac{10}{10}$	10, 16020 16007	9, 98104 98130	19	10, 01896 01870	10, 14124	9 9	9, 85876 85864	15 14
47	9 52	50 16	84006	10	15994	98150 98155	20	01845	14136 14149	9	85851 85851	13
48	9 36	50 24	84020	11	15980	98180	20	01820	14161	10	S5839	12
49	9 28	50 32	84033	11	15967	98206	21	01794	14173	10	85827	11
50	6 9 20	5 50 40	9, 84046	11	10. 15954	9, 98231	21	10, 01769	10, 14185	10	9, 85815	10
51	9 12	50.48	84059	11	15941	98256	1313	01744	14197	10	85803	9
52	9 4	50.56	84072	12	15928	98281	90	01719	14209	10	85791	8
53	8 56	51 4	\$4085 e tooe	12	15915 15903	98307	23	01693 01668	14221 14234	11 11	S5779	<del>1</del> 6
54	8 48	51 12	\$4098		15902	98332					85766	5
55 56	6 8 40 8 32	5 51 20 51 24	9, 84112 84125	12	10, 1 <b>5</b> 888 15875	9, 98357 98383	23 24	10, 01643 01617	10. 14246 14258	11 11	9, 85754 85742	4
56 57	8 32 8 24	51 36	84125   84138	13	15862	98383 98408	24	01517	14258	11	85730	1 3
58	8 16	51 44	84151	13	15849	98433	24	01567	14282	12	857.18	2
59	8 5	51 52	84164	13	15836	98458	25	01542	14294	12	55706	1
60	8 0	52 0	84177	13	15823	98484	25	01516	14307	10	85/693	0
<del>.  </del>			-	1.1.7			Total	(T		Dia		-
M F	Hour P. M.	Hour ."	Ceine	Diff.	Secunt.	Cotungent.	Diff.	Trugent.	Cosceaut.	Din.	Sine.	М,
133~			.1.		.A.	B		13	C		C .	460

Page	816]	
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TABLE 44.

44°			Α		A	В		В	C		C	135°
М.	Hour A. M.	Hour P. M.	Sine.	Diff.	Cosecant.	Taugent.	Diff.	Cotangent.	Secant,	Diff.	Cosine.	М.
0	6 8 0	5.52 0	9, 84177	0	10. 15823	9, 98484	0	10. 01516	10, 14307	0	9, 85693	60
1	7.52	52 8	84190	0	15810	98509	0	01491	14319	0	85681	59
2 3	7 44 7 36	52 16 52 24	84203 84216	0	15797 15784	98534 98560	1	01466 01440	14331 14343	0	85669 85657	58 57
4	7 28	52 32	84229	i	15771	98585	2	01415	14355	1	85645	56
-5	6 7 20	5 52 40	9, 84242	1	10. 15758	9,98610	2	10. 01390	10.14368	1	9, 85632	55
- 6	7 12	52 48	84255	1	15745	98635	3	01365	14380	1	85620	54
7 8	7 4 6 56	52 56 1 53 -4	84269 84282	2	15731 15718	98661 98686	3	01339 01314	14392 14404	1 2	85608 85596	53 52
9	6.48	53 12	84295	2	15705	98711	1 4	01289	14417	2	85583	51
10	6 6 40	5 53 20	9, 84308	-2	10, 15692	9, 95737	4	10.01263	10. 14429	2	9, 85571	50
11 12	6 32 i 6 24	53 28 53 36	84321 84334	3	15679 15666	98762	5	01238	14441 14453	2	85559	49
13	6 16	53 44	84347	3	45653	98787 98812	1 5	01213 01188	14466	3	85547 85534	48 47
14	6 8	53 52	84360	3	15640	98838	6	01162	14478	3	85522	46
15	6 6 0	5 54 0	9, 84373	-3	10.45627	9, 98863	6	10. 01137	10. 14490	3	9, 85510	45
16 17	5 52 5 44	54 S 54 16	84385 84398	3	15615 15602	98888 98913	1 7	01112	14503 14515	3	85497 85485	44 43
15	5 36	54 24	84411 84411	4	15589	98939		01087	14527	4	85473	42
19	5 28 1	54 32	84424	4	15576	98964	5	01036	14540	4	85460	41
20	6 5 20	5 54 40	9, 84437	4	10.15563	9, 98989	8	10. 01011	10.14552	4	9.85448	40
21	5 12 5 4	54 48 54 56	84450 84463	5	15550 15537	99015 99040	9-9-	00985	1456# 14577	5	85436 85423	39 38
23	4.56	55 4	54476	5	15524	99065	10	00935	14589	5	85411	37
24	4 48	55-12	84489	- 5	15511	99090	, 10	00910	14601	.5	85399	36
25 26	6 4 40	5 55 20 55 28	9, 84502	- 5	10, 15498	9, 99116	11	10,00884	10. 14614	5	9,85386	35
26	4 32 4	55-28 55-36	84515 84528	6	15485 15472	99141 99166	11	00559 00834	14626 14639	5 i	85374 85361	34
28	4 16	55 41	84540	- 6	15460	99191	12	00509	14651	- 6	85349	32
29	4 8	55 52	84553	_6	15447	99217	12	00783	14663	6	85007	31
30	6 4 0	5 56 0 56 8	9, 84566 84579	- 6	10, 15434 15421	0.99242	13	10,00758	10. 14676	6	9, 85324	30
31 32	3 52 ) 3 44	56 16	84592 84592		15421	99267 99293	13	00707	14655	6	85312 85299	29 28
1311	3.36	56 24	84605	7	15395	99318	14	0.0682	14713	7	85287	27
23.4	3.28	56 32	84618	7	15382	99343	14	00657	14726	- ī	85274	26
35 36	6 3 20 3 12	5 56 40 56 48	9, 81630 = 84643	8	10, 15370 15357	9, 99365 99394	15 15	10,00632	10, 14738 14750	$-\frac{7}{7}$ .	9, 85262 85250	25 24
37	3 1	56 56	84656	4	15341	99419	16	00551	14763	Ś	85237	23
.38	2.56	57 4	84669	8	15331	99444	16	00556	14775	8	85225	22
39	2.48	57 12	84682	-	15318	99469	16	00531	14755	_8	85212	21
40 41	6 2 40 2 32	5 57 20 57 28	9, 84694 84707	9	10, 15396 15293	9, 99495 99520	17	10, 00505	10, 14800 14815	8	9, 85200 85187	20 19
42	2 24	57 36	84720	9	15280	99545	15	00455	11825	9	85175	18
4.3	2 16	57 41	81733	9	15267	99570	18	00430	14838	9	85162	17
44	2 S	57 52 5 58 -0	84745	- 9	15255	99596	19	00401	14850	9	85150	16
45 46	6 2 0 1 52	5 58 - 0 58 - 8	9, 84758 84771	10 - 10	10, 15242	9,99621 99646	. 19 . 19	10, 00379	10, 14863 14875	10	9, 85137 85125	15 14
47	1.41	58-16	84784	10	15216	99672	20	00325	14888	10	85112	13
45	1.36	58, 24	84796	10	15204	99697	20	00303	14900	10	85100	12
49 50	$\frac{1}{6}$ $\frac{1}{1}$ $\frac{28}{20}$	58 32 5 58 40	9, 84822	11	15191 10. 15178	90722 9, 99747	21	10. 00278	14913 10. 14926	10	_85087 9, 85074	11 10
51	1 12	58 48	84835	11	15165	99773	21	10, 00255	14938	11	85062	9
52	1 1	58.56	84847	11	15153	99798	1717	00202	14951	11	85049	- 8
53	0.56	59 4	S4860	11	15140	99823	22	00177	14963	11	85037	7
54 55	$\frac{0.48}{6} = \frac{0.48}{0.40}$	59 12 5 59 20	84873 9. 84885	12	15127 10, 15115	99848	23	00152 10, 00126	14976	11	9, 85021 9, 85012	- 6 - 5
56	0 32	59 28	81898	12	15102	99899	21	00101	15001	12	84999	4
. 57	0.21	59.36	84911	12	15089	99924	24	00076	15014	12	51956	3
58 59	0 lb 0 S	59 41 59 52	84923 54936	12	45077 15064	99449 99475	24 25	00051	15026 15039	12	84974 84961	2
60	0 0	6 0 0	84949	13	15051	10, 00000	25	00000	15051	12	84949	0
M	11	Вошт а м	Cosme	Diff.		Cotangent	lant.	Tangent	Cosecant.	Diff.	Sinc.	М
1	Hourr w	DOUR V. W.		Dill.		P Otangent B	4/115	Tangent B	Cosceant.	17111.	Sinc.	150
134			A		Α	t ₁		11	- 1		1	10

see and of time	11	5.	.1.	1.	5.	6.	P
them parts of a del	1	ė	•	i	ŀ	1.1	11

TABLE 45.

ı	Oh Om	0.0,	0h 2m	0° 30′	0h ; ² m	1° 0′	0h 6m	1° 39′	Oh Sm	2° 0'	
8 ′	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav,	Nat. Hav.	s
0 0	-00	0.90000	5.27963	0.00002	5.88168	0.00008	6.23385	0.00017	6.48371	0.00030	60
2 4+ 1	1.72333 2.82539	.00000	.29399 .30811	.00002	.88889 .89604	.00008	.23866 .24345	.00017	.48732 .49092	.00031	58 56
6	2.67757	.00000	.32201	.00003	.90313	.00008	,24821	.00018	.49450	.00031	54
8+ 2	2.92745	0.00000	5.33569	0.00002	5.91016	0.00008	6.25294	0.00018	6.49507	0.00031	53
10	3.12127	.00000	.34916	.00003	.91714	.00008	.25765	.00018	.50162	.00033	50
12+ 3	3.27963 3.41353	.00000	.36242 .37548	.00002	.92406 .93093	.00008	.26233	.00018	.50516	.00933	48
14 16+ 4	3.52951	0.00000	5.38835	0.00002	5.93774	0.00009	6.27162	.00018 0.00019	0.50868 0.51219	\$2000.0 \$2000.0	46 44
18	3.63182	.09000	.40103	.00903	.94450	.60000	.27623	.00019	.51568	.00033	42
20+ 5	3.72333	.00000	.41352	.00003	.95121	.000009	.28081	.00019	.51916	.60033	40
22	3.80612	.00000	.42585	.00003	.95786	.00009	.28537	.00019	.52263	.00033	38
24+ 6 26	$3.88169 \\ 3.95122$	0.00000	5.43799 .44997	0.00003 .00003	5.96447 .97102	.00009	6.28991 $29442$	0.00019 .00020	6.52608 .52952	0.00031	36 34
28+ 7	4.01559	.00000	.46179	.00003	.97753	.00010	.29891	.00030	.53295	.00034	32
30	4.67551	.00000	.47345	.00003	.98399	.00910	.30337	.00020	.53636	.00034	30
32+ 8	4.13157	0.06060		0.00003	5.99040	0.00010	6.30781	0.00020	6.53976	0.00035	28
37 36+ 9	.18423	.00000	.49631 .50752	.00003	5,99676 6,00008	.00010	.31223	.00021	.54315 .54652	.00035 .00035	26 24
38	.28084	.00000	.51858	.00003	.00935	.00010	.32101	.00031	.54988	.00035	22
40+10	4.32539	0.00000	5.52951	0.00003	6.01557	0.00010	6.32536	0.90031	6.55323	0.00036	20
42	.36777	.00000	.54030	.00003	.02176	.00011	.32969	.00031	.55656	.00036	18
44+11 46	.40818 .44679	.00000 00000	.55095 .56148	.00004	.02789	.00011	.33400	.00022	.55988 .56319	.00036	16 14
48+12	4.48375	0.06000	5.57189	0.00004	6.04004	0.00011	6.34256	0.00033	6.56649	0.00037	12
50	.51921	.00000	.58216	.00004	.04605	.00011	.34681	.00033	.56977	.00037	10
52+13	.55328	.00000	.59232	.00004	.05202	.00011	.35103	.00023	.57304	.00037	8
54	$\frac{.58606}{4.61765}$	0.0000	.60236	0.00004	$\frac{.05795}{6.06384}$	0.00011	.35524	0.00023	.57630	.00038	6
56+14 58	4.64813	0.00000	5.61229 5.62211	0.00004	6.06969	0.00013	6.35943 6.36359	0.00023	6.57955 6.58278	0.00038	4 2
00					l		I				
	23h	59m	23h	57m	23 h	55m	2.70	5.;m	23h	$51^m$	i
				-			1	-			_
s /	0h 1m	0° 0′	Oh .3m	0° 30′	0h 5m		0h ;m	1° 30′	0h 9m	2° 0′	s
0+15	4.67757	0.00000	5.63181	0.00004	6.07550	0.00013	6.36774	0.00023	6.58600	0.00039	60
0+15 2	4.67757 .70605	0.00000	5.63181 .64141	0.00004 .00004	6.07550 .08127	0.00013	6.36774 .37186	0.00023 .00924	6.58600 .58921	0.00039	60 58
0+15	4.67757	0.00000	5.63181	0.00004	6.07550	0.00013	6.36774	0.00023	6.58600	0.00039	60
0+15 2 4+16 6 8+17	4.67757 .70605 .73363 .76036 4.78629	0.00000 .36300 .00801 .09801	5.63181 .64141 .65090 .66029 5.66958	0.00004 .00004 .00004 .00005	6.07550 .08127 .08700 .09270 6.09836	0.00012 .00012 .00012 .00012 0.00013	6.36774 .37186 .37597 .38006 6.38412	0.00023 .00924 .00021 .00924	6.58600 .58921 .59241 .59560 6.59878	0.00039 .00039 .00039 .00039	60 58 56 54 52
0+15 2 4+16 6 8+17 10	4.67757 .70605 .73363 .76036 4.78629 .81147	0.00000 .30300 .00801 .00801 0.00001	5.63181 .64141 .65090 .66029 5.66958 .67877	0.00004 .00004 .00004 .00005 0.00005	6.07550 .08127 .08700 .09270 6.09836 .10398	0.00012 .00012 .00012 .00012 0.00013	6.36774 .37186 .37597 .38006 6.38412 .38817	0.00023 .00924 .00021 .00924 0.00024 .00024	6.58600 .58921 .59241 .59560 6.59878 .60194	0.00039 .00039 .00039 .00039 0.00040	58 56 54 52 50
8+15 2 4+16 6 8+17 10 12+18	4.67757 .70605 .73363 .76036 4.78629 .81147 .83594	0.00000 .30300 .00001 .09901 0.00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787	0.00004 .00004 .00004 .00005 0.00005 .00005	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956	0.00012 .00012 .00012 .00012 0.00013 .00013	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220	0.00023 .00024 .00024 .00024 0.00024 .00025	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509	0.00039 .00039 .00039 .00039 0.0040 .03040	58 56 54 52 50 48
0+15 2 4+16 6 8+17 10 12+18 14	4.67757 .70605 .73363 .76036 4.78629 .81147	0.00000 .30300 .00801 .00801 0.00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787	0.00004 .00004 .00004 .00005 0.00005	6.07550 .08127 .08700 .09270 6.09836 .10398	0.00012 .00012 .00012 .00012 0.00013	6.36774 .37186 .37597 .38006 6.38412 .38817	0.00023 .00924 .00021 .00924 0.00024 .00024	6.58600 .58921 .59241 .59560 6.59878 .60194	0.00039 .00039 .00039 .00039 0.00040	58 56 54 52 50 48 46
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18	4.67757 .70605 .73363 .76036 4.78629 .81147 .82594 .85943 4.88290 .90546	0.00000 .36300 .00301 .00301 .00301 .00001 .00001 .00001	5.63181 .34141 .65090 .66029 5.66958 .67877 .68787 5.70578 .71460	0.00004 .00004 .00005 0.00005 .00005 .00005 .00005 0.00005	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418	0.00023 .00924 .00021 .00024 .00024 .00025 .00025 .00025	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61448	0.00039 .00039 .00039 .00039 0.00040 .00040 .00041 0.00041	60 58 56 54 52 50 48 46 44 42
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20	4.67757 .70605 .73363 .76036 4.78629 .81147 .82594 .85973 4.88290 .90546 .92745	0.00000 .36300 .00801 .00801 0.00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 5.70578 .71460 .72332	0.00004 .00004 .00005 0.00005 .00005 .00005 .00005 .00005 .00005	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611 .13155	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .40814	0.00023 .00924 .00021 .00024 0.00024 .00025 .93025 0.00925 .06025 .00026	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61448 .61759	0.00039 .00039 .00039 .00039 0.00040 .00000 110000 110000 11000	58 56 54 52 50 48 46 44 42 40
0+15 2 4+16 6 8+17 10 13+18 14 16+19 18 20+20 22	4.67757 .70605 .73263 .76036 4.78629 .81147 .82594 .83973 4.88290 .90546 .92745	0.00000 .36300 .00301 .00901 0.00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 5.70578 .71460 .72332 .73197	0.00004 .00004 .00005 .00005 .00005 .00005 .00005 .00005 .00005	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611 .13155 .13696	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014	6.36774 .37186 .37597 .38006 6.38412 .38817 .39522 6.40021 .40418 .40814 .41268	0.00023 .00924 .00021 .00024 .00024 .00025 .00025 .00025 .00025 .00026	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61448 .61759 .62068	0.0030 02000. 02000. 02000. 04000. 04000. 11000. 11000. 11000. 11000.	58 56 54 52 50 48 46 44 42 40 38
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20	4.67757 .70605 .73363 .76036 4.78629 .81147 .83594 .85973 4.88290 .90546 .92745 .94890 4.96983 4.99027	0.00000 .36300 .00801 .00801 .00801 .00001 .00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 5.70578 .71460 .72332	0.0000± .00004 .00005 .00005 .00005 .00005 .00005 .00005 .00005 .00005	6.07550 .08127 .08700 .09270 6.09836 .10338 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .40814 .41268 6.41600 .41990	0.00023 .00924 .00024 .00024 .00025 .00025 .00025 .06025 .00026 .00026	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61448 .61759 .62068 6.62377 .62684	0.00039 .00039 .00039 .00040 .00040 .00041 .00041 .00041 .00011 .00012 .000042	60 58 56 54 52 50 48 46 44 42 40 38 36 34
0+15 2 4+16 6 8+17 10 13+18 14 16+19 18 20+20 22 24+21 26 28+22	4.67757 .70805 .73363 .76036 4.78629 .81147 .83594 .85973 4.88290 .90546 .92745 .94890 4.96983 4.99027 5.01024	0.00000 .36300 .00001 .09901 0.00001 .30001 .90001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 5.70578 5.70578 71460 .72332 .73197 5.74052 .74900 .75739	0.0000± .0000± .00005 .00005 .00005 .00005 .00005 .00005 .00005 .00005 .00005	6.07550 .08127 .08700 .09270 6.09836 .10338 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .40814 .41268 6.41600 .41990 .42379	0.00023 .00924 .00021 .00024 0.00024 .00025 .90025 .00026 .00026 .00026	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61759 .62068 6.62377 .62684 .62991	0.00039 .00039 .00039 .00040 .00040 .00040 .00041 .00041 .00042 .00042 .00042	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32
0+15 2 4+16 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30	4.67757 .70805 .73063 .76036 4.76029 .81147 .85973 4.88290 .90546 .92745 .94890 4.96983 4.99027 5.01024 0.02976	0.0000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0	5.63181 .64141 .65090 .66029 5.66958 .67877 .69687 5.70578 .71460 7.2332 .73197 5.74052 7.4900 7.5739 7.6570	0.00004 .00004 .00005 0.00005 .00005 .00005 .00005 .00005 .00005 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769 .15300 .15828	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .41208 6.41600 .41990 .42379 .42769	0.00023 .00924 .00024 .00024 .00025 .00025 .00025 .00026 .00026 .00026 .00026	6.58600 5.5921 5.59241 5.59241 5.59260 6.58878 6.60194 6.00509 6.60823 6.61136 6.1759 6.2068 6.62377 6.2684 6.2991 6.3296	0.00039 .00039 .00039 .00039 .00039 .00040 .00041 .00041 .00042 .00042 .00043 .00043	60 58 56 54 52 50 48 46 44 42 40 38 36 32 30
8 0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 22 24+21 26 28+22 30 32+23	4.67757 .70605 .7363 .76036 4.78629 .81147 .82594 .85973 4.88290 .90546 .92745 .94890 4.99027 5.01024 .02976 5.04885	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 .69887 5.70578 .71460 .72332 .73197 .74900 .75739 .76570 5.77394	0.00004 .00004 .00005 0.00005 .00005 .00005 .00005 .00005 .00005 .00005 0.00006 0.00006 0.00006	6.07550 .08127 .08700 .09270 6.09836 .10358 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769 .15300 .15828 6.16353	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014	6.36774 37186 .37597 .383006 6.38412 .38817 .39220 .39622 6.40021 .40418 .40814 .41268 6.41600 .42379 .42766 6.43151	0.00023 .00924 .00021 .00924 .00025 .00025 .00025 .00026 .00026 .00026 .00027 .00027	6.58600 .58921 .59241 .592560 6.59878 .60194 .60509 .60823 6.61136 .61136 .61438 .61759 .62068 6.62377 .62684 .62991 .63296 6.63360	0.00039 .00039 .00039 .00039 0.00040 .00040 .00041 .00041 .00041 .00042 .00043 .00043 .00043 .00043 .00043	60 58 56 54 52 50 48 46 44 42 40 38 36 31 32 30 28
0+15 2 4+16 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30	4.67757 .70605 .73363 .76036 4.78629 .81147 .85973 4.88290 .90546 .92745 .94890 4.96983 4.99027 5.01024 .02976 5.04885 .06753	0.00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .69687 5.70578 .71460 .72332 .73197 5.74052 .74900 .75739 .75739 .75739 .75709 .77894 .78209 .79017	0.00004 .00004 .00005 .00005 .00005 .00005 .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611 .13155 6.14234 .14769 .15828 6.16353 .16874 .17393	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00014 .00015 .00015 .00015	6.36774 .37186 .37597 .38006 6.38412 .38817 .39622 6.40021 .4018 .40814 .41208 6.41600 .41990 .42379 .42766 6.43151 .43534	0.00023 .00924 .00924 .00024 .00024 .00025 .00026 .00026 .00026 .00026 .00026 .00027 .00027	6.58600 .58921 .59560 6.59878 .60194 .60503 6.61136 .61448 .61759 .62684 .62684 .63296 6.63600 .63030 .64203	0.00039 .00039 .00039 .00039 .00030 .00040 .00041 .00041 .00042 .00042 .00043 .00043 .00043 .00043 .00043 .00043	60 58 56 54 52 50 48 46 44 42 40 38 36 32 30 28 26 24
8 0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38	4.67757 .70605 .73263 .76036 4.75629 .81147 .82594 .85973 4.88290 .90546 .92745 .94890 4.99087 4.99087 5.04885 .06753 .08581	0.0000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001	5.63181 .94141 .65090 .66029 5.66029 5.76978 .6757 .69687 5.70578 .71460 7.7232 .73197 5.74052 .74900 5.7739 .76570 5.7739 .78209 .79017	0.0000± .00004 .00004 .00005 0.00305 .00005 .00005 .00005 .00005 .00005 0.00006 0.00006 0.00006 0.00006 0.00006	6.07550 .08127 .08700 .09270 6.09836 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769 .15300 .15828 6.16353 .16874 .17393 .17998	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00014 .00015 .00015 .00015	6.36774 .37186 .37597 .38006 6.38412 .38922 .39622 6.40021 .40418 .40218 .40418 .41208 6.41600 .42379 .42766 6.43151 .43534 .43916 .43534 .43916 .441996	0.00023 .00924 .00924 .00924 .00925 .00925 .00925 .00926 .00926 .00926 .00927 .00927 .00927 .00927	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61248 .61759 .62684 .62377 .62684 .62396 .63390 .63903 .64205 .64205	0.00039 .00039 .00059 .00059 .00040 .00040 .00041 .00041 .00042 .00042 .00043 .00043 .00043 .00044 .00044	58 56 54 52 50 46 44 42 40 38 36 31 32 30 28 24 22
8 0+15 2+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36 38 40+25	4.67757 .70605 .73063 .76036 4.78629 .81147 .82594 .85973 4.88290 .90516 .92745 .94890 4.99027 5.01024 .02976 5.04855 .06753 .08581 .10372 5.12127	0.00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66029 5.66058 .67877 .68787 .71460 72332 .74900 .75739 .76570 5.77394 .78209 .79017 .78209 .79017 .78208	0.0000± .00004 .00004 .00005 0.00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769 .15300 .15828 6.16853 .16874 .17393 .17393 .17393	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00015 .00015 .00015	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .41208 6.41600 .41990 .42766 6.43151 .43534 .43316 .44266 6.44675	0.00023 .00924 .00021 .00024 .00024 .00025 .00025 .00026 .00026 .00026 .00026 .00027 .00027 .00027 .00027	6.58600 .58921 .59241 .59240 .59560 6.59878 .60194 .60509 .60823 6.61148 .61759 .62068 6.62377 .62684 .62966 6.63600 .63903 .64905 .63903 .64205 .64906	0.00039 .00039 .00059 .00059 .00040 .00040 .00041 .00041 .00042 .00042 .00043 .00043 .00044 .00044 .00044 .00044 .00044	58 56 54 52 50 48 44 42 40 38 36 32 30 28 29 20
8 0+15 2+16 6 8+17 10 13+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 32+23 34 40+25 42	4.67757 7.0605 7.7363 7.6036 4.78629 81147 8.5973 4.88290 90546 92745 94890 4.99027 5.01024 0.2976 5.04885 0.6753 0.6581 1.0372 5.12127	0.00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001	5.63181 .64141 .65090 .66029 5.66029 5.66958 .67877 .69687 5.70578 .71460 .72932 .73197 5.74052 5.74052 5.76570 5.77394 .78209 .79017 .79818 5.80611 .81397	0.0000± .0000± .0000± .00005 0.00305 .00005 .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 6.09836 .10398 .10956 .11511 .13155 .13696 6.14234 .14769 .15300 .15300 .15828 6.16353 .16674 .17393 .17908	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00015 .00015 .00015	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .40814 .41208 6.41600 .41990 .42379 .42766 6.43151 .43534 .43916 .44296 6.44675	0.00023 .00924 .00924 .00924 .00925 .00925 .00925 .00926 .00926 .00926 .00927 .00927 .00927 .00927	6.58600 .58921 .59241 .59560 6.59878 .60194 .60509 .60823 6.61136 .61248 .61759 .62668 6.62377 .62684 6.2396 6.63600 .63903 .64205 .64205	0.00039 .00039 .00059 .00059 .00040 .00040 .00041 .00041 .00042 .00042 .00043 .00043 .00043 .00044 .00044	58 56 54 52 50 46 44 42 40 38 36 31 32 30 28 24 22
8 + 17	4.67757 .70805 .73263 .76036 4.78629 .81147 .82594 .85973 4.88290 .90546 .92745 .94890 .4.99027 5.01024 .02976 5.04885 .06753 .0581 .10372 5.12127 .13847 .15534 .17188	0.00000 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001	5.63181 .94141 .65090 .66029 .66029 .660958 .67877 .68787 .69687 .71460 .72932 .73197 .74900 .75739 .74900 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739	0.0000± .0000± .0000± .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08707 .09270 .09270 .09270 .09270 .09270 .10356 .10356 .12663 .12611 .13155 .13696 .14769 .15300 .15828 .6.16353 .17908 .17908 .17908	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00015 .00015 .00015 .00015 .00015	6.36774 .37186 .37597 .38006 6.38412 .38817 .39220 .39622 6.40021 .40418 .41268 6.41600 .42379 .42766 6.43151 .43534 .43916 .44296 6.44675 .45052 .45052 .45052	0.00023 .00924 .00024 .00024 .00024 .00025 .00025 .00025 .00026 .00026 .00026 .00027 .00027 .00027 .00027 .00028 .00028 .00028	6.58600 5.5921 5.5921 5.5924 6.59878 60194 60509 60823 6.61136 6.61136 6.61237 6.2668 6.2337 6.2668 6.23991 6.3300 6.4205 6.4101 6.4506 6.5105 6.5403 6.5500	0.00039 .00039 .00039 .00039 .00040 .00040 .00041 .00041 .00042 .00043 .00043 .00044 .00044 .00044 .00045 .00044 .00044 .00045 .00045 .00045 .00045 .00045 .00045 .00045	58 56 54 52 50 48 46 44 42 38 36 34 32 38 36 34 32 32 38 36 31 32 31 32 31 32 31 31 31 31 31 31 31 31 31 31
8 0+15 2+16 6 8+17 10 112+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 32+23 34 46+24 48+27	4.67757 .70805 .73063 .76036 4.76029 .81147 .85943 4.88290 .90546 .92745 .94800 4.99027 .94800 4.99027 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 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.90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .90753 .907	0.00000 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001	5.63181 .64141 .65090 .66029 5.66958 .67877 .68787 .68787 .7988 .71460 .72332 .73197 .74900 .75739 .76570 .77394 .78209 .79017 .79818 .5.80611 .81397 .82176 .82186	0.0000± .00004 .00004 .00005 .00005 .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 6.09836 .10936 .10936 .11511 6.12063 .12611 .13156 6.14234 .14769 .15309 .15828 6.16353 .16874 .17393 .16874 .17393 .16874 .17393 .16874 .17393 .16874 .17393 .16874 .17393 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.37186 .37597 .38006 6.38412 .38220 .39622 6.40021 .40418 .4021 .41208 6.41600 .42379 .42766 6.43151 .43534 .43916 6.44155 .45534 .45534 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554 .4554	0.00023 .00924 .00024 .00024 .00025 .00025 .00025 .00026 .00026 .00026 .00027 .00027 .00027 .00028 .00028 .00028 .00028 .00028 .00028	6.58600 .58921 .59241 .59240 .695878 .60194 .60509 .60823 .6.61136 .6.61136 .6268 .626877 .626877 .626877 .626877 .62687 .62991 .63296 .63300 .64201 .64501 .65105 .65105 .65596	0.00039 .00039 .00039 .00039 .00039 0.00040 .00040 .00011 .00041 .00042 .00042 .00043 .00043 .00043 .00044 .00044 .00044 .00044 .00045 .00045 .00045 .00045 .00045 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046 .00046	60 58 56 54 52 50 48 46 44 42 40 38 36 32 32 32 32 28 24 22 22 20 18 11 12
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25 44+26 48+27 50	4.67757 .70605 .72363 .76036 4.78629 .81147 .82594 .88590 .90546 .92745 .94890 .4.99027 .5.01024 .02976 .02976 .04885 .06753 .08581 .10372 .13847 .15534 .17188 .5.1812 .20406	0.00000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	5.63181 .64141 .65090 5.66029 5.66958 67577 .69687 5.70578 .71460 .72932 .73197 5.74950 .74900 5.77394 .78209 5.77394 .78209 5.7811 .81397 .82176 .82948 5.83713 .84472	0.0000± .0000± .0000± .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 .09270 6.09836 .10358 .10956 .11511 6.12063 .12611 .13155 .13696 6.14234 .14769 .15828 6.16353 .17908 6.18421 .17908 6.18421 .18930 .19437 .1940 6.20441	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00015 .00015 .00015 .00015 .00015 .00016 .00016	6.36774 37186 37597 38006 6.38412 38917 39220 39622 6.40021 40418 41208 6.41600 42379 42766 6.43151 43534 43916 6.44675 45427 45806 6.46172 46543	0.00023 .00924 .00924 .00924 .00925 .00925 .00925 .00926 .00926 .00926 .00927 .00927 .00927 .00927 .00928 .00928 .00928 .00928 .00928 .00928	6.58600 5.5921 5.5921 5.5921 5.5921 6.59878 6.0194 6.0509 6.0823 6.61136 6.1448 6.1759 6.2968 6.2991 6.3296 6.3300 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 6.4106 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  56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56 + 29   56	4.67757 .70805 .73063 .76036 4.78629 .81147 .82594 .85973 4.88290 .90546 .92745 .94890 .4.99027 .501024 .02976 .504885 .06753 .06851 .10372 .512127 .13847 .15534 .17188 .518812 .29406 .21971 .23508 .23508 .23508	0.00000 0.00000 0.0000 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001	5.63181 .94141 .65090 5.66029 5.69958 67877 .99687 .71460 .72932 .73197 5.74952 .74900 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739	0.0000± .0000± .0000± .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00007 .00007 .00007 .00007	6.07550 .08127 .08702 .09270 .09270 .09270 .09270 .09270 .09270 .10356 .12611 .13155 .13696 .14769 .15300 .15828 .6.16353 .17908 .17908 .17908 .17908 .18920 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .199400 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .1994	0.00012 .00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00015 .00015 .00015 .00016 .00016 .00016 .00016 .00016 .00016	6.36774 .37186 .37186 .37186 .38112 .38006 6.38412 .38220 .39622 .40013 .40018 .41208 6.41600 .41209 .42379 .42766 6.43151 .43534 .43916 .44296 6.44672 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402 .45402	0.00023 .00924 .00924 .00924 .00024 .00025 .00025 .00026 .00026 .00026 .00027 .00027 .00027 .00027 .00028 .00028 .00028 .00028 .00028 .00029 .00029 .00029 .00029 .00029 .00029 .00029	6.58600 5.5921 5.5921 5.5924 6.59878 60194 60509 60823 6.61136 6.61136 6.61237 6.2668 6.2377 6.2684 6.2991 6.3900 6.3903 6.41205 6.41206 6.5105 6.5105 6.55096 6.6585 6.66878	0.00039 .00039 .00039 .00039 .00040 .00041 .00041 .00042 .00043 .00043 .00043 .00044 .00045 .00045 .00046 .00046 .00046 .00046	60 58 56 54 52 50 48 46 44 42 42 43 38 36 34 32 38 28 28 29 20 18 16 16 17 18 19 19 19 19 19 19 19 19 19 19
0+15 2+16 6-8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 32+23 32+23 32+23 34 40+25 42 46+24 56-29 56 56 56 58	4.67757 .70805 .73063 .76036 4.76029 .81147 .85594 4.88290 .90546 .92745 .94890 4.99037 4.99027 5.01024 .02976 5.04855 .06753 .0581 .10372 5.12127 .13534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 .15534 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.00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006	6.07550 .08127 .08700 .09270 .09270 .09270 .10956 .11511 .6.12063 .12611 .13155 .13696 .6.14234 .14769 .15300 .15828 .6.16353 .16874 .17393 .16874 .17393 .16874 .17393 .16874 .17393 .16974 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .1940 .19437 .19437 .1940 .19437 .19437 .1944 .19437 .1944 .19437 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .1944 .19	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00015 .00015 .00015 .00016 .00016 .00016 .00016 .00016 .00017	6.36774 .37186 .37186 .37186 .35290 .38026 6.38412 .38220 .39622 6.40021 .4021 .41208 6.41600 .42379 .42766 6.43151 .42534 .43916 6.44675 .45407 .45800 6.4617 .45800 6.4618 .45147 .45800 6.4618 .45147 .45800 6.4618 .45147 .45800 6.4618 .45147 .45800 6.4618 .45147 .45800 6.4618 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148 .45148	0.00023 .00924 .00024 .00024 .00025 .00025 .00025 .00025 .00026 .00026 .00027 .00027 .00027 .00028 .00028 .00028 .00028 .00028 .00028 .00029 .00029 .00029 .00029 .00029 .00029 .00029 .00029	6.58600 58921 59241 59560 6.58878 60194 60509 60823 6.61136 61448 61759 62268 6.62377 62684 62991 63296 6.63903 64205 65403 65403 65405 66596 66596 66596 66596 66587 66587 66587	0.00039 .00039 .00039 .00039 .00039 .00040 .00040 .00041 .00041 .00042 .00043 .00043 .00044 .00044 .00044 .00044 .00044 .00044 .00044 .00047 .00047	60 58 56 54 52 50 48 46 44 42 42 38 36 32 32 30 28 26 27 20 18 10 10 10 10 10 10 10 10 10 10
0+15 2 4+16 6+17 10 113+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 40+25 44 48+27 50 52+28 54 56 56+29	4.67757 .70805 .73063 .76036 4.78629 .81147 .82594 .85973 4.88290 .90546 .92745 .94890 .4.99027 .501024 .02976 .504885 .06753 .06851 .10372 .512127 .13847 .15534 .17188 .518812 .29406 .21971 .23508 .23508 .23508	0.00000 .30300 .30300 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 .30301 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.75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739 .75739	0.0000± .0000± .00005 .00005 .00005 .00005 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007	6.07550 .08127 .08702 .09270 .09270 .09270 .09270 .09270 .09270 .10356 .12611 .13155 .13696 .14769 .15300 .15828 .6.16353 .17908 .17908 .17908 .17908 .18920 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .199400 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .19940 .1994	0.00012 .00012 .00012 .00013 .00013 .00013 .00013 .00013 .00013 .00013 .00014 .00014 .00014 .00014 .00015 .00015 .00015 .00016 .00016 .00016 .00016 .00016 .00017	6.36774 .37186 .37186 .37186 .35266 6.38412 .38926 6.48021 .40918 .40918 .41208 6.41600 .41296 .42379 .42766 .44575 .45534 .4296 6.44675 .45652 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 .45643 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.00043 .00043 .00043 .00043 .00044 .00045 .00046 .00046 .00047 .00047	60 58 56 54 52 50 48 46 44 42 42 43 38 36 34 32 38 28 28 29 20 18 16 16 17 18 19 19 19 19 19 19 19 19 19 19

# TABLE 45.

	0h 10m 2° 30	0 h 12	m 3° 0′	0 h 14m	3° 30′	0h 16n	1 4° 0'	0 h 18m	4° 30′	
s ,	Log, Hav Nat. II	Log. Hav	Nat, Hav	Log. Hav	Nat. Hav.	Log. Hav	Nat. Hav	Leg. Hav.	Nat. Hav	s
0 0	6.67751 0.000	6.83584	0.00069	6.96970	0,00093	7.08564	0.00122	7.18790	0,00154	60
2	,68040 .000		.00069	,97176	.00094	.08745	.00122	18950	.00155	58
4+ 1	.68328 .000		.60069	.97382	.00094	.08925	.00123	.19111	.00155	56
6	.68615 .000		.00070	.97588	.00095	.09105	.00123	.19271	.00156 0.00156	54
8+ 2 10	6.68901 <b>0.000</b> .69186 <b>.000</b>		.00070	6.97793	0.00095	7.09284 .09464	.00124	7.19430 .19590	.00156	52 50
12+ 3	69470 .000	.85019	.00071	.98201	.00096	.09642	.00125	.19749	.06158	48
14	.69754 .000		.00071	.98405	.00096	.09821	.00125	.19908	.00155	46
16+ <b>4</b> 18	6.70036 <b>0.000</b> .70318 <b>.000</b>		0.00072	6.98608 .98811	.00097	7.09999 10177	.00126	7.20066 .20225	0.00159	44
20+ 5	.70598 .000		.00072	.99013	.00095	10354	.00127	.20383	.00160	40
22	.70878 .000		.00073	.99214	.00095	.10531	.00127	.20540	.00160	38
24+ 6	6.71157 <b>0.000</b> .71435 <b>.000</b>		0.00073	6.99416	0.09099	7.10708	$0.00128 \\00128$	7.20698	.00161	36 34
26 28+ 7	.71435 .000 .71712 .000		.00074	6,99817	.00100	11060	.00129	.21012	.00162	32
30	.71988 .000	.87129	.00074	7.00017	.00100	.11236	.00139	.21168	.00163	30
32+8	6.72263 0.000		0.00075	7.00216	.00101	7.11411	.00131	7.21325	0.00163	28 26
34 56+ 9	.72537 .000 .72811 .000		.00076	.00613	.00101	.11586 .11760	.00131	.21481 .21636	.00161	20
38	.73084 .000		.00076	.00811	.00102	.11934		.21792	.00165	22
40+10	6.73355 0.000			7.01009	0.00102	7.12108	0.00132	7.21947	0.00166	20
42	.73626 .000 .73896 .000		.00077	.01206	.00103	.12282 .12455	.00133	.22102	.00166	18 16
44+11 46	.74166 .000		.00073	.01403	.00103	.12455	.00133	.22256	.00167	14
48+12	6,74434 0.000	6.89188	0.00075	7.01795	0.00104	7.12800	0.00131	7.22565	0.00168	12
50	.71702 .000		.00078	.01990	.00105	.12972	.00135	.22718 .22872	.00169	10
52+13 54	.74969 .000 .75235 .000		.00079	.02185	.00105	.13141	.00135	.23025	.00169	- 8 - 6
56+11	6,75500 0.000		0.00050	7.02573	0.00106	7.13486	0.00136		0.00171	4
5.8	6,75764 0.000	57   6.90812	0.00050	7,02767	0.00107	7.13657	0.00137	7.23331	0.00171	2
	 23h ₁ 9m	234	4; m		450	2.34	.1.5 m	234	$4I^m$	1
e /	0 h 11m 2 30	05 10	n 3 0'	08 150	3 30	0 \ 17'	n 4 0'	0 × 19n	4° 30	s
0+15	6.76028   0.000	6,90535	0.00050	~	0,00107					
				1 1 (12960)		7.13827	0.00137	7.23483	0.00172	60
2	.76290 .000	.90757	.00081	.03153	.00108	.13997	.00138	.23635	.00172	
3+16°	.76290 . <b>000</b> .76552 <b>.000</b>	58 .90757 58 .90979	.000%1	.03153 .03345	.00108	.13997 .14167	.00138	.23635 .23787	.00172	56
t ₁	.76290   <b>.800</b> .76552   <b>.00</b> 0 .76814   <b>.00</b> 0	18 .90757 18 .90979 19 .91200	.00081 .00081 .00082	.03153 .03345 .03587	.00108 .00105 .00108	.13997 .14167 .14337	.00138 .00139 .00139	.23635 .23787 .23939	.00172 .00173 .00174	56 54
	.76290 . <b>000</b> .76552 <b>.000</b>	58 .90757 58 .90979 59 .91200 59 6.91424	.000%1	.03153 .03345 .03587 7.03729 .03920	.00108 .00105 .00108 0.00100	.13997 .14167	.00138 .00139 .00139	.23635 .23787 .23939 7.24090 .24241	$.00172$ $.00173$ $.00174$ $\overline{0.00174}$ $.00175$	36 54 52
$-\frac{6}{8+17}$ $\frac{10}{12+18}$	.76290 .000 .76552 .000 .76814 .000 6.77074 0.000 .77334 .000 .77592 .000	58 .90757 58 .90979 59 .91200 59 6.91424 59 .91644 60 .91860	.000×1 .000×2 .000×2 .000×2 .000×2 .000×3	,03153 ,03345 ,03587 7,03729 ,03920 ,04110	00108 00108 00109 0,00109 00110	.13997 .14167 .14337 7.14506 .14674 .14843	.00138 .00139 .00139 0.00140 .00140 .00141	.23635 .23787 .23939 7.24090 .24241 .24392	.00172 .00173 .00174 0.00174 .00175 .00175	56 54 52 50 48
$ \begin{array}{c} -6 \\ 8+17 \\ 10 \\ 12+18 \\ 13 \end{array} $	.76290 .800 .76552 .000 .76814 .000 6.77074 0.080 .77334 .000 .77592 .000 .77851 .000	58 .90757 58 .90979 59 .91200 59 6.91424 59 .91644 60 .92079	.000×1 .000×1 .000×2 0.000×2 .000×2 .000×3	,03153 ,03345 ,03557 7,03729 ,03920 ,04110 ,04500	00108 00105 00108 00100 00100 00110	.13997 .14167 .14337 7.14506 .14674 .14843 .15011	.00138 .00139 .00139 0.00140 .00140 .00141	.23635 .23787 .23939 7 .24090 .24241 .24392 .24513	.00172 .00173 .00174 0.00174 .00175 .00175	56 54 52 50 46
$-\frac{6}{8+17}$ $\frac{10}{12+18}$	.76290 .000 .76552 .000 .76814 .000 6.77074 0.000 .77334 .000 .77592 .000	58 .90757 58 .90979 59 .91200 50 6.91424 50 .91641 60 .91860 60 .9298 61 .92516	.000×1 .000×2 0.000×2 .000×2 .000×3 .000×3	,03153 ,03345 ,03587 7,03729 ,03920 ,04110 ,04300 7,04490	00108 00108 00109 0,00109 00110	.13997 .14167 .14337 7.14506 .14674 .14843	.00138 .00139 .00139 0.00140 .00140 .00141	.23635 .23787 .23939 [7.24090 .24241 .24392 .24543 7.24693 .24843	.00172 .00173 .00174 0.00174 .00175 .00175	56 54 52 50 48 46 47
-6 8+17 10 12+18 13 16+19 18 20+20	.76290 .000 .76552 .000 .76552 .000 6.77074 .000 .77334 .000 .77551 .000 .77851 .000 .7866 .000 .7866 .000	58 .90757 .90979 .91200 59 6.91424 .91644 .91860 60 .9276 61 .92516 61 .92733	.000×1 .000×1 .000×2 0.000×2 .000×3 .000×3 0.000×1 .000×1 .000×1	.03153 .03345 .03587 7.03729 .03920 .04110 .04300 7.04490 .04869	0.00108 0.00108 0.00109 0.00109 0.00110 0.00111 0.00111	.13997 .14167 .14337 7.14506 .14674 .14843 .15011 7.15179 .15346 .15513	.00138 .00139 .00139 .00140 .00140 .00141 .00151 .00142 .00112 .00113	.23635 .23787 .23939 7.24090 .24241 .24392 .24543 7.24693 .24843 .24993	.00172 .00173 .00174 .00174 .00175 .00175 .00176 .00177 .00177	56 54 52 50 48 46 47 40
-6 8+17 10 12+18 13 16+19 18 20+20	76290 .000 76552 .000 76552 .000 6,77074 .0000 77334 .000 777851 .000 6,78108 .0000 78864 .000 78864 .000 78865 .0000 78875 .0000	5890757 5890979 5991200 69 6.91124 5991641 6092079 60 6.92298 6192733 6192733 6192733	.00081 .00081 .00082 0.00082 .00083 .00083 0.00081 .00081 .00081	.03153 .03345 .03587 7.03729 .03920 .04110 .04500 7.04490 .04869 .04869	.00108 .00108 .00109 .00109 .00109 .00110 .00111 .00411 .00411 .00412	.13997 .14167 .1-1337 7.1-1506 .14674 .15011 7.15179 .15346 .15513 .15680	.00138 .00139 .00139 .00140 .00141 .00141 .00141 .00112 .00112 .00143	.23635 .23787 .23939 7.24090 .24241 .24392 .24513 7.24693 .24843 .24993 .25143	.00172 .00173 .00174 .00174 .00175 .00175 .00176 .00177 .00177 .00178	56 54 52 50 48 44 42 40 38
$ \begin{array}{c} 6 \\ 8+17 \\ 10 \\ 12+18 \\ 13 \\ 16+19 \\ 18 \\ 20+20 \\ -2q+21 \end{array} $	76290 000 76552 000 76551 0000 6.77074 0.000 77574 0.000 77574 0.000 77570 0.000 77585 0.000 77860 0.000 7867 0.000 78875 0.000	5890757 5890759 5991200 5991611 6091641 6092079 6092079 6192733 6192733 6192733 6292516 6292516	.00081 .00081 .00082 0.00082 .00083 .00083 0.00081 .00081 .00081	.03153 .03345 .03587 7.03729 .03920 .04110 .04.500 .04.500 .04.80 .04.80 .050.7	.00108   .00108   .00109   .00109   .00109   .00110   .00111   .00111   .00112   .00112   .00112	.13997 .14167 .14337 7.14506 .14674 .14843 .15011 7.15179 .15346 .15630 .15680 7.15 46	.00138 .00139 .00139 .00140 .00141 .00141 .00142 .00112 .00113 .00143	.23635 .23787 .23939 7.24090 .24241 .24392 .24543 7.24693 .24843 .24843 .25143 7.25292	.00172 .00173 .00174 .00174 .00175 .00175 .00176 .00177 .00177	56 54 52 50 48 44 40 38 86
-6 8+17 10 12+18 13 16+19 18 20+20	76290 000 76552 000 76551 000 677074 0000 677074 0000 77534 000 77552 0000 77551 0000 78361 0000 78361 0000 78375 0000 679129 0,000 79083 0000	58	.00051 .00052 .00052 .00052 .00053 .00053 .00051 .00051 .00050 .00051 .00050 .00050	,03153 ,03345 ,03557 7,03729 ,03920 ,04110 ,04500 7,04490 ,04650 ,04650 ,0505 ,0505 ,0505 ,0505 ,0505 ,0505 ,0505 ,0505 ,0505 ,0505	.00108 .00108 .00109 .00109 .00110 .00111 .00111 .00112 .00112 .00113 .00113	.13997 .14167 .14337 7.14506 .14674 .11843 .15011 7.15179 .15346 .15513 .15680 7.15 46 .1 013 .16178	.00138 .00139 .00139 .00140 .00140 .00141 .00142 .00112 .00143 .00143 .001441 .00145	.23635 .23787 .23639 7.24690 .24241 .24392 .24543 7.24693 .24843 .24963 .25143 7.25292 .25141 .25590	.00172 .00173 .00174 .00175 .00175 .00175 .00177 .00177 .00177 .00178 .00179 .00180 .00180	56 54 52 50 48 44 40 38 56 54
$ \begin{array}{r}     -6 \\     -8+17 \\     10 \\     12+18 \\     13 \\     16+19 \\     18 \\     20+20 \\     -22 \\     24+21 \\     26 \\     30 \end{array} $	76290 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76552 0000 76553 0000 76553 0000 76553 0000 76553 0000 76553 0000 76553 0000 76553 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 00000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 00000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 00000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 0000 76555 000000 76555 0000 76555 0000 76555 00000 76555 0000 76555 0000 76555	58 90757 58 90757 59 91200 59 691124 59 91611 60 91860 60 92258 61 92516 62 93382 62 93382 63 93512 63 93512	.00051 .00052 .00052 .00053 .00053 .00053 .00051 .00057 .00055 .00056 .00056 .00056	,03153 ,03345 ,03537 7,03729 ,03920 ,04110 ,04400 7,04400 04800 ,0480 ,050,7 7,04215 ,433 ,65620 ,0507	.00108 .00108 .00109 .00109 .00110 .00111 .00111 .00112 .00113 .00113 .00114 .00114	.13997 .14167 .14337 7.14506 .14674 .15011 7.15179 .15346 .15680 7.15 46 .16013 .16178 .16317	.00138 .00139 .00139 .00140 .00141 .00141 .00142 .00112 .00143 .00143 .00144 .00145 .00145	.23635 .23787 7.24090 .24241 .21392 .24543 7.24693 .24843 .24843 .25143 7.25292 .25444 7.25292 .25444 .25590 .27738	.00172 .00173 .00174 .00174 .00175 .00176 .00176 .00177 .00174 .00178 .00179 .00180 .00180	56 54 52 50 48 44 40 86 54 50 50 50 50 50 50 50 50 50 50 50 50 50
$ \begin{array}{r}                                     $	7.76250 0 0.000 7.76352 0.000 7.76351 0.000 6.77074 0.000 7.77334 0.000 7.77351 0.000 7.75351 0.000 7.75361 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000 7.8620 0.000	58 90757 59 91200 59 6,91121 59 9,1200 60 9180 60 9180 60 9258 61 9275 61 9275 61 9275 62 9385 62 9385 63 9385 64 9316 65 9316 65 9316 66 9316 66 9316 66 9316 67 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 938 68 9	.000×1 .000×1 .000×2 .000×2 .000×3 .000×3 .000×1 .000×1 .000×1 .000×5 .000×6 .000×6 .000×6	.03153 .03345 .03587 7.03729 .03920 .04110 .04.500 7.04.90 .04.80 .0480 .050.7 1.0.247 .0384 .05807 7.04994	.00108 .00108 .00109 .00109 .00110 .00111 .00111 .00112 .00113 .00113 .00114 .00114	.13997 .141637 .141337 7.14506 .14674 .14843 .15011 7.15179 .15346 .15513 .15680 7.15 46 .16178 .16178 .16178	.00138 .00139 .00139 .00140 .00141 .00141 .00112 .00113 .00143 .00144 .00145 .00145	.23635 .23787 .23939 7.24090 .24241 .24543 7.24693 .24843 .24993 .25143 7.25292 .25141 .25590 .2738 7.2788	.00172 .00173 .00174 .00175 .00175 .00175 .00177 .00177 .00177 .00178 .00180 .00180 .00181	56 54 50 58 44 42 48 50 54 50 54 50 54 50 54 50 54 50 54 50 50 50 50 50 50 50 50 50 50 50 50 50
$ \begin{array}{r}     -6 \\     -8+17 \\     10 \\     12+18 \\     13 \\     16+19 \\     18 \\     20+20 \\     -22 \\     24+21 \\     26 \\     30 \end{array} $	7.76290   .000   .76290   .000   .76552   .000   .76510   .000   .76510   .000   .76510   .000   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .76500   .7650	58 907.57 59 907.57 59 91200 59 6.91121 59 9.1611 60 9180 60 92568 61 92568 61 92733 61 92733 62 6.93106 62 93382 63 93812 64 91029 64 91029 64 91029 66 9156	.00081 .00081 .00082 .00082 .00083 .00083 .00083 .00083 .00085 .00085 .00086 .00086 .00086 .00086 .00088	03153 03345 03537 7,03529 03920 04110 04309 04809 050-1 1 0424 483 050-7 7,03490 050-7 1 0524 050-7 1 050-7 1 050-7 05807 7,0394 0 6180 0 6180	.00108 .00108 .00109 .00109 .00110 .00111 .00111 .00112 .00113 .00113 .00114 .00114	13997 14467 14337 7,14506 14674 18843 15011 7,15179 15346 1,013 15683 7,15-16 1,013 16178 1,034 7,15-39 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 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1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,034 1,03	.00138 .00139 .00139 .00140 .00141 .00141 .00142 .00112 .00143 .00143 .00144 .00145 .00145	.23635 .23787 .23039 7.24030 .24241 .24392 .24513 7.24693 .25143 7.25292 .25141 .25590 .2738 7.21886 .2034 .21886 .21886 .21886 .21886 .21886 .21886 .21886 .21886 .21886 .21886 .21886 .21886	.00172 .00173 .00174 .00174 .00175 .00175 .00177 .00177 .00178 .00178 .00179 .00180 .00181 .00181 .00181	54 54 54 58 58 58 58 58 58 58 58 58 58 58 58 58
$\begin{array}{c} 6 \\ 8+17 \\ 10 \\ 12+18 \\ 13 \\ 16+19 \\ 18 \\ 20+20 \\ 23 \\ 24+21 \\ 36 \\ 28+22 \\ 36 \\ 36+24 \\ 38 \\ 36+24 \\ 38 \end{array}$	7,76529 0 0,000 7,76525 0,000 6,77074 0,000 7,7592 0,000 7,7592 0,000 7,7592 0,000 7,8564 0,000 7,8575 0,000 6,78108 0,000 7,8575 0,000 6,78108 0,000 7,9588 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 8,000 0,000 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$\begin{array}{c} 6 \\ 8+17 \\ 10 \\ 10 \\ 12+18 \\ 13 \\ 16+19 \\ 18 \\ 20+20 \\ 20 \\ 20+20 \\ 23 \\ 26+21 \\ 30 \\ 38+22 \\ 30 \\ 36+23 \\ 36+25 \\ 42 \end{array}$	7.76250 , 0.000 7.76351 , 0.000 7.76351 , 0.000 6.77074 , 0.000 7.77334 , 0.000 7.77351 , 0.000 7.77351 , 0.000 7.7852 , 0.000 7.7852 , 0.000 7.7852 , 0.000 7.7852 , 0.000 7.7852 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 7.7853 , 0.000 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18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 18-39 1	00138 00139 0.00139 0.00139 0.00140 .00141 .00141 .00143 .00143 .00143 .00145 .00147 .00147 .00147 .00147 .00147 .00147 .00147 .00148 .00152 .00152 .00152	28/855 28787 22039 7-24090 24291 24391 24518 7-24693 25118 7-2599 25111 25390 25111 25111 25390 27038 26117 26021 26130 27038 2718 2718 2719 2719 2719 2719 2719 2719 2719 2719	.00172 .00173 .00173 .00174 .00175 .00175 .00176 .00177 .00177 .00178 .00180 .00180 .00181 .00181 .00181 .00181 .00181 .00181 .00181 .00181 .00181 .00181 .00181 .00181	56 54 52 50 58 46 42 48 86 34 22 30 28 16 17 10 8

	0 h 20	5° 0′	04 22 m	5° 30′	04 241	™ 6° 0′	01 26m	6° 30′	04.28	7 0	1
s ′	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav	Nat. 4.	S
0 0	7.27936	0.00190	7.36209	0.00230	7.43760	0.60274	7.50706	0.00321	7.57135	0.00373	60
2	.28080	.09191	.36340	.00231	.43880	.60275	.50817	.00323	.57238	.00374	58
4+ <b>1</b>	.28225	.00192	.36471	.00535	.44001	.00275	,50928	.00323	.57341	.00374	56
6	.28369	00192	.36602	.00232	44121	.00276	.51039	.00324	.57444	.00375	54
8+ 2	7.28513	0.00193	7.36733	0.00233	7.44241	0.00277	7.51149	0.00325	7.57547	0.00376	53
10	.28656	.00193	.36864	.00234	.44561	.00278	.51260	•60336	.57650	.00377	50
12+ 3	.28800 .28943	.00194 .00195	.36994 .37124	.00234	.44480	.00278	.51370	.00326	.57752	.00378	48
14 16+ <b>4</b>	7.29086	0.00195	7.37254	0.00236	.44600 7.44719	.00279 0.00280	51481 7.51591	.00327 0.00328	.57855 7.57957	.00379	46
18	.29228	.00196	.37384	.00237	.44838	.00281	.51701	.00329	.580:0	0.90380	44
20+ 5	.29371	.00197	.37514	.00237	.44957	.00282	.51811	.00333	.58162	.00352	40
22	.29513	.00197	.37643	.00238	.45076	.00282	.51921	.00331	58261	.00383	38
24+ 6	7.29655	0.00198	7.37773	0.00239	7.45194	0.00283	7.52030	0.00331	7.58,66	0.00383	36
26	.29797	.00199	.37902	.09239	.45313	.00284	.52140	.00333	.58467	.00354	34
28+ 7	.29938	.00199	.38030	.00240	.45431	.00285	.52249	.00333	.58500	.00385	33
30	.30079	.00200	.38159	.00241	.45549	.00285	.52358	.60334	.58670	.003×6	30
32+ 8	7.30220	0.00201	7.38288	0.00241	7.45667	0.00286	7.52467	0.00335	7.58772	0.00357	28
34 36+ 9	.30361	.00201	.38416	.00242	.45785 .45903	.00287	.52576 .52685	.00336	.58873 .58974	.00388	26
38	.30642	.00203	.38672	.00343	.46020	.00289	.52794	.00336	,59075	.00359	24 23
40+10	7.30782	0.00203	7.38800	0.00244	7.46138	0.00389	7.52902	0.00338	7.59176	0.00391	20
42	.30922	.00204	.38927	.00245	.46255	.00290	.53011	.00339	.59277	.09392	18
44+11	.31062	.00204	.39054	.00246	.46372	.00291	.53119	.00340	.59378	.00393	16
46	.31201	.00205	.39182	.00247	.46489	.00292	.53227	.00341	.59478	.00393	14
48+12	7.31340	0.00206	7.39309	0.00247	7.46605	0.00393	7.53335	0.00341	7.59579	0.00394	13
50	.31479	.00206	.39435	.00248	.46722	.00293	.53443	.00342	.59679	.00395	10
52+13 54	.31618 .31757	.00207	.39562 .39688	.00219	.46838 .46955	.00294	.53550 .53658	.00313	.59779 .59879	.00396	8
56+14	7.31895	0.00208	7.39815	0.90259	7.47071	0.00296	7.53766	0.00345	7.59979	0.66398	1 4
58 + 14 58	7.32033	6.00209	7.39813 $7.39941$	0.00251	7.47157	0.00396	7.53873	0.00316	7,60079	0.00398	7 2
30		J.1.0 V 0.0	1.00.041	1.00 40.1		0.00400		0100010		0.009388	1
	234	39 m	23 h	.57 m	23h		2.1h	33 m	. JA	01-	1
e /							-				-
8	0 h 21 n	5° 0′	01 23m	5° 30′	0 h 25 s	∞ 6° 0.	0 h 27 m	6°30′	11h 19:	7 0	
				5° 30′ 0.00252	_		_				8 60
0+15 2	7.32171 .32309	0.00210	7.40067 .40192	0.00252	7.47362 .47418	0.00257	7.53980 .54087	0.00317 .00347	7.60179 .60279	0.00400	60
0+15 2 4+16	7.32171 .32309 .32446	0.00210 .00210 .00211	7.40067 ,40192 ,40318	0.00252 .00252 .00253	7.47362 .47418 .47533	0.00257 .60258	7,53980 ,54087 ,54194	0.00317 .00347 .00315	7,60179 .60279 .60378	0.90400 .00401 .00102	60 58 56
0+15 2 4+16 6	7.32171 .32309 .32446 ,32583	0.00210 .00210 .00211 .00212	7.40067 .40192 .40318 .40443	0.00252 .00252 .00253 .00254	7.47302 .47418 .47533 .47649	0.00357 .60358 .60399 .00306	7,53980 ,54087 ,54194 ,54301	0.00317 .00347 .00315 .00349	7.60179 .60279 .60378 .60478	0.90400 .00401 .00102 .00403	60 58 56 54
0+15 2 4+16 6 8+17	7.32171 .32309 .32446 .32583 7.32720	0.00210 .00210 .00211 .00212 0.00213	7.40067 .40192 .40318 .40443 7.40568	0.00252 .00252 .00253 .00254 0.00255	7.47362 .47418 .47533 .47649 7.47764	0.00397 .60358 .60399 .00306	7,53980 ,54087 ,54194 ,54301 7,54407	0.00317 .00347 .00315 .00349	7,60179 .60279 .60378 .60478 7,60577	0.90400 .00401 .00102 .00403 0.00403	60 58 56 54 52
0+15 2 4+16 6 8+17 10	7.32171 .32309 .32446 .32583 7.32720 .32857	0.00210 .00210 .00211 .00212 0.00213	7.40067 .40192 .40318 .40443 7.40568 .40693	0.00252 .00252 .00253 .00254 0.00255 .00255	7.47362 .47418 .47533 .47649 7.47764 .47879	0.00357 .60258 .60299 .00306 0.60300 .68301	7.53980 .54087 .54194 .54301 7.54407 .54514	0.00317 .00315 .00319 .00350 .00350	7.60179 .60279 .60378 .60478 7.60577 .60676	0.90400 .00401 .00102 .00403 0.03403 .00404	60 58 56 54 52 50
0+15 2 4+16 6 8+17 10 12+18	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994	0.00210 .00210 .00211 .00212 0.00212 .00213 .00214	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818	0.00252 .00252 .00253 .00254 0.00255 .00256	7.47362 .47418 .47536 .47649 7.47764 .47879 .47994	0.00357 .60258 .60299 .00306 0.00300 .68301 .00302	7.53980 .54087 .54194 .54301 7.54407 .54514 .54620	0.00317 .00345 .00315 .00349 0.00350 .00351 .00352	7.60179 .60279 .60378 .60478 7.60577 .60676 .60775	0.90400 .00401 .00102 .00403 0.03403 .00404 .00405	58 56 54 52 50 48
0+15 2 4+16 6 8+17 10 12+18 14	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130	0.00210 .00210 .00211 .00212 0.00212 .00213 .00214 .00214	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943	0.00252 .00252 .00253 .00254 0.00255 .00255 .00256	7.47362 .47418 .47535 .47649 7.47764 .47879 .47994 .48109	0.00397 .60358 .60299 .00306 0.00300 .60301 .00302 .00303	7,53980 ,54087 ,54194 ,54301 7,54407 ,54514 ,54620 ,54727	0.00317 .00347 .00315 .00349 0.00350 .00351 .00352 .00353	7.60179 .60279 .60378 .60478 7.60577 .60676 .60775	0.90400 .00401 .00102 .00403 0.00404 .00404 .00405	58 56 54 52 50 48 46
0+15 2 4+16 6 8+17 10 12+18	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266	0.00210 .00210 .00211 .00212 0.00212 .00213 .00214	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818	0.00252 .00252 .00253 .00254 0.00255 .00256	7.47362 .47418 .47535 .47649 7.47764 .47879 .47994 .48109	0.00357 .60258 .60299 .00306 0.00300 .68301 .00302	7.53980 .54087 .54194 .54301 7.54407 .54514 .54620	0.00317 .00345 .00315 .00349 0.00350 .00351 .00352	7.60179 .60279 .60378 .60478 7.60577 .60676 .60775	0.90400 .00401 .00102 .00403 0.03403 .00404 .00405	50 58 56 54 52 50 48 46 44
0+15 2 4+16 6 8+17 10 12+18 14 16+19	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266 .33402 .33538	0.00210 .00210 .00211 .00212 0.00212 .00213 .00214 .00214	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315	0.00252 .00252 .00253 .00254 0.00255 .00256 .00257 0.00257	7.47362 .47418 .47536 .47649 7.47764 .47879 .47994	0.00297 .60258 .60299 .90306 0.60300 .60301 .00302 .00303 0.00361	7.53980 .54087 .54194 .54301 7.54407 .54514 .54620 .54727 7.5483	0.00347 .00347 .00348 .00349 0.00350 .00351 .00352 .00353	7,60179 .60279 .60378 .60478 7,60577 .60676 .60775 .60874 7,60973	0.90400 .00401 .00102 .00403 0.00403 .00404 .00405 .00406 0.00407	58 56 54 52 50 48 46
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266 .33402 .33538 .33673	0.00210 .00210 .00212 .00212 0.00213 .00214 .00214 .00214 0.00215 .00216 .00216	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41191 .41315 .41439	0.00252 .00252 .00253 .00254 0.00255 .00255 .00257 0.00257	7.47362 .47418 .47533 .17649 7.47764 .47879 .47994 .48109 7.48223 .48337 .48452 .48566	0.00357 .60258 .60299 .90396 0.00300 .60301 .00362 .00363 .00365 .00366	7,58980 ,54087 ,54194 ,54301 7,54407 ,54514 ,54620 ,54727 7,54833 ,54939 ,55045 ,55150	0.00317 .00347 .00348 .00359 0.00350 .00353 0.00353 0.00354 .00354	7.60179 .60279 .60378 .60478 7.60577 .60676 .60775 .60874 7.60973 .61072 .61170	0.90400 .00401 .00102 .00403 0.00403 .00404 .00405 .00406 0.00407 .00408 .00409 .00410	50 58 56 54 52 50 48 46 44 42
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266 .33402 .33538 .32673	0.00210 .00210 .00212 .00212 0.00213 .00214 .00214 .00215 .66216 .00216 .60217	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315 .41439	0.00352 .00252 .00253 .00254 0.00255 .00256 .00257 0.00257 0.00258 .00259 .00260	7.47362 .47418 .47533 .17649 7.47764 .47879 .47994 .48109 7.48223 .48337 .48452 .48566 7.48600	0.00297 .60238 .60298 .90306 0.60300 .60301 .00302 .00303 0.00361 .00305 .00306	7,58980 ,54087 ,54087 ,54301 7,54407 ,54514 ,54620 ,54727 7,54833 ,54939 ,55045 ,55150 7,55256	0.00317 .00347 .00348 .00359 0.00350 .00353 0.00353 0.00353 .00354 .00356	7.60179 .60279 .60378 .60478 7.60477 .60676 .60775 .60874 7.60973 .61072 .61170 .61269 7.61367	0.90400 .00401 .00102 .00403 0.00404 .00404 .00405 .00406 0.00407 .00408 .00409 .00410	60 58 56 54 52 50 48 46 44 40 58
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266 .33402 .33538 .32673 7.33809 .32944	0.00210 .00210 .00211 .00212 0.00213 .00214 .00214 0.06215 .06216 .06216 .06217 0.60218	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315 .41439 7.41563 .41686	0.00252 .00252 .00253 .00254 0.00255 .00256 .00257 0.00257 .00258 .00259 0.00260 0.00260	7.47362 .47418 .47533 .47649 7.47764 .47879 .47899 .48109 7.48223 .48337 .484526 .48566 7.48680 .48791	0.00297 .60238 .60298 .90306 0.60300 .60301 .00302 .00361 .00361 .00365 .00366 .0036317 .00308	7,58980 ,54087 ,54194 ,54301 7,54407 ,54614 ,54620 ,54727 7,54833 ,51939 ,55045 ,55150 7,55256	0.00347 .00347 .00318 .00349 9.00350 .00352 .00353 0.00353 .00354 .00356 .00356	7.60179 .60279 .60279 .60378 .60478 7.60577 .60574 7.60973 .61170 .61269 7.61269 7.61367	0.00400 .00401 .00403 .00403 .00404 .00405 .00406 0.00407 .00406 .00406 .00406 .00406	60 58 56 54 52 50 48 44 44 40 38 36 44
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+23	7.32171 .32309 .32446 .32583 7.32720 .32857 .32994 .33130 7.33266 .33402 .33538 .32673 7.33809 .33944 .34079	0.00210 .00210 .00212 .00212 .00212 .00214 .00214 .00214 .00216 .00216 .00216 .00218 .00218 .00218	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315 .41439 7.41563 .41686 .41810	0.00252 .00252 .00253 .00254 0.00255 .00256 .00257 0.00257 0.00257 .00258 .00259 .00260 0.00260	7.47.362 .47418 .47533 .17649 7.47764 .47879 .47994 .48109 7.48223 .48337 .48432 .4-566 7.4-65-0 .48794 .48507	0.00297 .60258 .60299 .90396 0.00300 .60301 .00302 .00361 .00365 .00306 0.00308 .00308	7.58980 .54087 .54194 .54301 7.54407 .54514 .54620 .54727 7.54483 .51939 .55045 .55150 7.55256 .55361 .55361	0.00317 .00345 .00349 0.00350 0.00351 .00352 .00353 0.00353 .00354 .00356 0.00357 .00356	7.60179 .60279 .60378 .60478 7.60577 .60676 .60775 .60874 7.60973 .61170 .61269 7.61367 .61466 .61564	0.00400 .00401 .00102 .00403 0.00403 .00404 .00405 .00406 0.00407 .00406 .00411 .60412 .00413	60 58 56 54 52 50 48 46 44 40 58 56 47
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30	7.32171 32309 32446 32583 7.32720 32857 33130 7.33266 33402 33402 33538 33673 7.33809 53944 34073 34073	0.00210 .00210 .00211 .00212 .00212 .00214 .00214 .00215 .00216 .00216 .00216 .00218 .00218 .00218	7,40067 ,40192 ,40318 ,40443 7,40568 ,40693 ,40693 ,40818 ,40943 7,41067 ,41191 ,41315 ,41439 7,41563 ,41686 ,41810 ,41933	0.00252 .00252 .00253 .00254 0.00255 .00255 .00256 .00257 .00258 .00259 .00260 0.00260 .00261 .00262	7.47.862 .47418 .47533 .17649 7.47764 .47879 .48109 7.48223 .48337 .48352 .4-566 7.48640 .48794 .48007	0.00297 .60255 .60299 .00300 0.00300 .00301 .00301 .00305 .00365 .00306 0.06307 .00305 .00305	7,53980 ,54087 ,54194 ,54301 7,54407 ,54514 ,54620 ,54727 7,54833 ,54936 ,55045 ,55061 ,55361 ,55467 ,5547	0.00347 .00348 .00348 .00349 .00350 .00353 .00353 .00354 .00355 .00356 .00356 .00356	7.60179 .60279 .60378 .60478 7.60577 .60676 .60574 7.60973 .61072 .61170 .61269 7.61367 .61564 61564 61566	0.00400 .00401 .00102 .00403 0.00403 .00404 .00405 .00406 .00406 .00406 .00411 .60412 .00413	60 58 54 52 50 48 46 44 40 58 56 47 70
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23	7.32171 32309 32446 322583 7.32720 32857 32994 33130 7.33266 33402 33538 33673 7.33809 34213 7.3444 34079 34213 7.34548	0.00210 .00210 .00211 .00212 0.00212 .00214 .00214 .00214 .00216 .00216 .00216 .00218 .00218 .00218 .00218	7,40067 ,40192 ,40318 ,40443 7,40568 ,40693 ,40818 ,40943 7,41067 ,41191 ,41315 ,41439 7,41563 ,41810 ,41933 7,42056	0.00252 .00252 .00253 .00254 0.00255 .00255 .00257 .00257 .00257 .00258 .00259 .00260 0.00261 .00262 .00263 0.00263	7,47,362 ,47418 ,47533 ,47649 7,47764 ,47879 ,47994 ,48109 ,48337 ,48452 ,48566 7,48629 ,48794 ,48307 ,48794 ,48307 ,48017 ,49014	0.00297 .60258 .60299 .00300 0.00300 .00301 .00302 .00301 .00301 .00305 .00305 .00308 .00309 0.00309	7.53980 54087 54194 54301 7.54407 54514 54620 54727 7.54833 55045 55150 7.55256 55361 554.7 55572	0.00347 .00348 .00349 9.00351 .00352 .00353 .00354 .00355 .00356 .00356 .00356 .00356	7.60179 .60279 .60378 .60478 7.60577 .60576 .60773 .60574 7.60973 .61170 .61269 7.61367 .61466 .61564 .61662 7.61760	0.00400 .00102 .00103 .00403 0.00403 .00404 .00405 .00406 .00406 .00406 .00406 .00410 .00411 .00412 .00413 .00414 .00414 .00414	60 58 56 54 50 46 44 42 68 54 70 8
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22+21 24+21 26 28+22 30 32+23 34	7.32171 32309 32446 32583 7.32720 32857 32994 33130 7.33266 33402 33538 33673 7.33809 32944 3407 34213 7.34348	0.00210 .00210 .00211 .00212 .00213 .00214 .00214 0.00215 .00216 .00216 .00216 .00217 0.00218 .00218 .00218 .00218	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40818 .40943 7.41067 .41191 .41315 .41439 7.41563 .41686 .41810 .41933 7.42056 .42179	0.00252 .00252 .00253 .00254 .00255 .00255 .00255 .00256 .00257 .00256 .00260 .00260 .00260 .00261 .00262 .00263	7.47362 .47418 .47533 .47649 .7.47764 .47879 .47994 .48109 .7.48223 .48337 .48452 .4-566 .7.4650 .48794 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48407 .48	0.00297 .60255 .60299 .00306 0.60300 .00301 .00305 .00305 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306 .00306	7,53980 ,54087 ,54194 ,54301 7,54462 ,54727 7,5483 ,51727 7,55483 ,55045 ,55150 7,55256 ,55361 ,55467 ,5547 ,5572	0.00317 .00347 .00318 .00349 0.00350 .00353 .00353 0.00353 .00354 .00356 0.0356 0.0356 0.0356 0.0356 0.0356	7.60179 .60279 .60378 .60478 7.60577 .60676 .60574 7.60973 .61170 .61269 7.61367 .61564 61564 61564 61564 61564 61564 61564	0.90400 .00401 .00403 .00403 .00404 .00405 .00406 0.00407 .00406 .00416 .00416 .00411 .00411 .00413 .00414 .00414 .00414 .00414	60 58 56 54 50 48 44 40 8 54 57 70 8
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23	7.32171 32309 32446 322583 7.32720 32857 32994 33130 7.33266 33402 33538 33673 7.33809 34213 7.3444 34079 34213 7.34548	0.00210 .00210 .00211 .00212 0.00212 .00214 .00214 .00214 .00216 .00216 .00216 .00218 .00218 .00218 .00218	7,40067 ,40192 ,40318 ,40443 7,40568 ,40693 ,40818 ,40943 7,41067 ,41191 ,41315 ,41439 7,41563 ,41810 ,41933 7,42056	0.00252 .00252 .00253 .00254 0.00255 .00255 .00257 .00257 .00257 .00258 .00259 .00260 0.00261 .00262 .00263 0.00263	7,47,362 ,47418 ,47533 ,47649 7,47764 ,47879 ,47994 ,48109 ,48337 ,48452 ,48566 7,48629 ,48794 ,48307 ,48794 ,48307 ,48017 ,49014	0.00297 .60258 .60299 .00300 0.00300 .00301 .00302 .00301 .00301 .00305 .00305 .00308 .00309 0.00309	7.53980 54087 54194 54301 7.54407 54514 54620 54727 7.54833 55045 55150 7.55256 55361 554.7 55572	0.00347 .00348 .00349 9.00351 .00352 .00353 .00354 .00355 .00356 .00356 .00356 .00356	7.60179 .60279 .60378 .60478 7.60577 .60676 .60574 7.60973 .61170 .61269 7.61367 .61564 .61564 .61564 .61564 .61564 .61564 .61564 .61564	0.00400 .00102 .00103 .00403 0.00403 .00404 .00405 .00406 .00406 .00406 .00406 .00410 .00411 .00412 .00413 .00414 .00414 .00414	60 58 54 52 54 46 44 44 40 8 54 7 7 7 7 7 7
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+21 38	7.32171 32309 32446 ,32583 7.32720 32857 32994 33130 7.33266 33402 33538 7.33809 53944 34073 34213 7.34548 34482 34618	0.00210 .00210 .00211 .00212 .00213 .00214 .00214 .00215 .00216 .00216 .00216 .00218 .00218 .00210 .00220 .00220 .00220 .00221	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315 .414686 .41810 .41933 7.42056 .42179 .42301	0.00252 .00253 .00253 .00254 0.00255 .00255 .00257 .00257 .00257 .00258 .00259 .00260 .00260 .00261 .00263 .00263 .00263 .00263	7,47,362 ,47418 ,47,533 ,47,649 7,477,64 ,47879 ,57994 ,48109 7,48223 ,48337 ,48452 ,4856,0 ,487,94 ,48021 7,49034 ,4807 ,49021 7,49034 ,49247 ,69390	0.00297 .60258 .60299 .00300 0.60300 .60301 .00301 .00301 .00305 .00308 .00308 .00308 .00309 .00310 .00310 .00311	7,78980 ,54087 ,54194 ,54301 ,7,54407 ,54514 ,54620 ,54727 ,54727 ,55150 ,55150 ,55150 ,55367 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372 ,55372	0.00347 .00348 .00349 0.00350 .00351 .00352 .00353 .00354 .00356 0.00356 0.00356 0.00360 0.00360 0.00360	7.60179 .60279 .60378 .60478 .7.60577 .60576 .60854 .7.60973 .61072 .61170 .61269 .7.61367 .61466 .61564 .61564 .61565 .61575 .61975 .6298 .61975 .6298 .7.62154	0.00400 .00401 .00102 .00403 0.00403 .00404 .00405 .00406 0.00407 .00406 .00411 .60412 .00413 .00124 (.90415 .00418	60 58 56 54 50 48 44 40 8 54 57 70 8
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+21 38 40+23 42	7.32171 32309 32446 32583 7.32720 32857 3393266 33402 33538 33673 7.33809 34213 7.34543 34452 34750	0.00210 .00210 .00212 .00212 .00212 .00214 .00214 .00214 .00216 .00216 .00216 .00216 .00220 .00222 .00222 .00222 .00222	7.40067 .40192 .40318 .40443 7.40568 .40693 .40818 .40943 7.41067 .41191 .41315 .41439 7.41563 .41810 .41933 7.42056 .42179 .42301 .4234 .42546 .42648	0.00352 .00252 .00253 .00254 .00255 .00255 .00255 .00257 .00258 .00259 .00260 .00261 .00263 .00263 .00264 .00263 .00264 .00266 .00266 .00266 .00266	7.47.802 .47418 .47533 .47649 7.47764 .48109 7.48223 .48307 .48452 .48566 7.48656 .48794 .4807 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154 .49154	0.00397 .00258 .00258 .00308 .00309 .00309 .00303 .00303 .00305 .00306 .00308 .00308 .00310 .00310 .00310 .00312 .00312	7.7.8980 54087 541087 54301 7.54407 54514 55620 54727 7.54833 55045 55150 7.55266 55361 55367 55782 37887 5799 7.56696	0.08317 .00347 .00348 .00349 0.00350 .00351 .00353 .00353 .00354 .00356 .00356 .00356 .00360 0.0360 0.0360 .0361 .66352 .66363 .66364	7.60179 .60279 .60378 .60478 .7.60577 .60676 .60775 .60874 .7.60973 .61170 .61269 .7.61367 .61466 .61564 .61662 .7.61760 .6158 .61075 .620-1	0.00400 .00401 .00102 .00403 .00403 .00403 .00406 .00406 .00406 .00406 .00410 .00411 .00412 .00412 .00413 .00414 .00415 .00416 .00417	58 56 54 52 50 48 46 44 42 40 88 56 64 77 78 78
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26+21 30 32+23 30 32+23 34 36+21 38 40+25 42 44+26	7.32171 32309 32446 32583 7.32720 32857 32974 33130 7.33266 33402 33538 33673 7.33809 341213 7.34548 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 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34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 34182 3	0.00210 .00210 .00212 .00212 .00213 .00214 .00214 .00216 .00216 .00216 .00216 .00216 .00216 .00217 .00220 .00220 .00220 .00221 .00221 .00221 .00221 .00221 .00221 .00221	7,40067 40192 40318 40443 7,40568 40693 40943 7,41067 41191 41315 41439 7,41563 41686 41810 41933 7,42056 42179 42301 42;234 7,42546 4268 42790	0.00252 .00252 .00253 .00254 0.00255 .00256 .00257 .00257 .00257 .00260 .00260 .00260 .00263 .00264 .00264 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .002666 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .002666 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .0026	7,47,862 47418 47533 17649 7,47764 47879 4,8109 7,48223 48337 48452 4,5566 7,48650 4,794 4,8307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 4,4307 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.61170 .61269 .7.61367 .61367 .61564 .61564 .61564 .7.6176 .62174 .62174 .6224 .62248 .62248	0.00400 .00401 .00102 .00403 .00403 .00403 .00405 .00406 .00407 .00406 .00411 .00412 .00416 .00411 .00416 .00417 .00416 .00417 .00418 .00416 .00417	60 58 56 54 52 50 48 46 44 42 40 58 56 54 42 40 58 56 54 42 40 58 56 56 57 40 40 40 40 40 40 40 40 40 40 40 40 40
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.00366 .00366 .00366 .00366	7.60179 .60279 .60378 .60478 .7.60577 .60577 .60573 .61072 .611670 .61269 .7.61367 .61466 .61564 .61564 .61564 .7.61760 .61564 .7.61760 .61564 .7.61760 .61564 .61564 .61564 .61564 .6256 .6256 .6256 .6256	0.00400 .00401 .00102 .00403 .00403 .00403 .00405 .00406 .00407 .00406 .00407 .00416 .00417 .00412 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418 .00418	58 56 54 52 50 48 46 44 42 40 58 56 54 52 50 48 56 57 48 58 56 57 48 58 58 58 58 58 58 58 58 58 5
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,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204 ,4204	0.00252 .00252 .00253 .00253 .00255 .00255 .00255 .00257 .00257 .00258 .00250 .00260 .00260 .00263 .00263 .00263 .00264 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266	7,47362 47418 47533 47649 7,47764 4,7764 4,8109 7,48229 7,48229 4,8337 4,8452 4,8566 7,4650 4,8794 4,8067 4,021 7,4034 4,906 6,9475 7,4954 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969 4,969	0.00297 60258 60299 .00306 0.00300 0.00301 .00301 .00305 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308	7,58980 5,4087 5,4194 5,4301 7,54407 5,4514 5,4620 5,4727 7,54833 5,5939 5,5045 5,5167 7,5256 5,55467 5,5547 7,5782 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876 7,56876	0.08347 .00347 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7,48223 48337 48452 4-5566 7,48630 4879 48307 7,4931 4931 7,4931 4931 7,4931 4931 7,5036 50148 5025 5025 5025 5031	0.00297 .60258 .60299 .00306 0.00302 .00303 0.00303 .00305 .00306 0.00317 .00305 .00306 0.00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319 .00319	7,58980 54087 54194 54301 7,54407 554514 554620 54727 7,54833 55935 55045 55045 55045 55045 7,55256 7,55256 7,55782 7,56677 7,7779 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 7,78670 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0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 36 32+23 34 36+21 38 40+25 44 44+26 48+27 50 52+28 564 56+29	7.32171 32309 32446 32583 7.32720 32857 32994 33130 7.33266 33402 33538 32673 7.33809 34212 34182 34182 34182 34182 34183 35518 35583 7.35883 35583 35583 35583 35583 35583	0.00210 .00210 .00211 .00212 .00213 .00214 .00214 0.00215 .00216 .60217 0.00218 .00216 .00218 .00210 .00221 .00222 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223 .00223	7,40067 ,40192 ,40318 ,40443 7,40568 ,40643 ,40643 ,40643 ,41191 ,41315 ,41439 ,41563 ,41810 ,41810 ,41810 ,41933 ,42179 ,42301 ,42144 7,42546 ,42668 ,42790 ,42912 7,43031 ,43155 ,43277 ,43327	0.00252 .00253 .00254 .00255 .00255 .00255 .00256 .00257 .00258 .00258 .00260 .00261 .00261 .00263 .00263 .00263 .00264 .00268 .00268 .00268 .00268 .00268 .00268 .00268 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269 .00269	7,47362 47418 47538 7,47764 47879 47994 48109 7,48223 48337 48452 4-566 7,466-0 48794 48007 490134 48007 490134 4802 4909 490134 4802 50148 5025 50148 5025	0.00297 .60238 .60299 .90306 0.60300 .60301 .00361 .00362 .00306 0.00310 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363 .00363	7,58980 54087 54194 55430 7,54407 7,54407 7,54407 7,5483 55045 55045 55045 55045 55045 7,55266 55367 7,55266 7,55782 7,5677 7,5677 7,5677 7,5677 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,5670 7,56	0.08317 .00347 .00348 .00350 .00350 .00351 .00352 .00353 .00354 .00356 .00356 .00356 .00366 .00367 .00367 .00367 .00367 .00368 .00367 .00368 .00368 .00368 .00368 .00368 .00369 .00369 .00369 .00369	7.60179 60279 60378 60478 7.60577 60577 60573 61072 61170 61269 7.61367 61466 61564 61662 7.61760 61258 61170 61268 7.61367 6253 6253 6253 6253 6253 6253 6253 6253	0.00400 .00401 .00102 .00403 .00403 .00403 .00405 .00406 .00407 .00406 .00407 .00406 .00407 .00407 .00408 .00411 .00412 .00413 .00413 .00413 .00414 .00413 .00413 .00413 .00413 .00413 .00413 .00413 .00413 .00413	60 58 56 54 52 50 48 46 44 40 88 56 41 12 12 12 11 14 12 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 34 40+25 42 44+26 48+27 50 52+28 54 56+29	7.32171 32309 32446 32583 7.32720 32857 32994 33130 7.33266 33402 33538 32673 7.33269 3213 7.34348 34452 34616 34750 7.3484 35681 35681 35813 7.35949 35681 35813 7.35949 35687 7.26279	0.00210 .00210 .00211 .00212 .00214 .00214 .00214 .00214 .00216 .60217 .00218 .00216 .60217 .00218 .00210 .00220 .00220 .00221 .00220 .00220 .00227 .00228 .00227 .00228 .00227 .00228	7,40067 40192 40318 40443 7,40568 40693 40693 40693 7,41563 41191 41315 411319 7,41563 41810 41933 7,42056 41810 42179 42301 42124 7,42546 42790 4262 7,43034 4315 7,43519 7,43519 7,43519 7,43519 7,43519 7,43519 7,43519 7,43639 7,43760	0.00252 .00253 .00253 .00255 .00255 .00256 .00256 .00257 .00256 .00260 .00261 .00261 .00262 .00263 .00263 .00263 .00264 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 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0.00301 .00305 .00306 0.00301 .00305 .00306 .00307 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00310 .00310 .00310 .00310 .00310 .00310 .00310 .00310 .00310 .00310 .00311 .00312	7,58980 54087 54194 54301 7,54407 54514 54620 54727 7,54833 54939 5,55150 7,55256 35361 55467 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782 7,55782	0.08347 .00348 .00349 .00350 .00353 .00353 .00355 .00356 .00356 .00356 .00356 .00356 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00367 .00368	7.60179 .60279 .60378 .60478 .7.60577 .60577 .60573 .61072 .61170 .61269 .7.61367 .61466 .61564 .61564 .61564 .6248 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .62015 .6201	0.00400 .00401 .00102 .00403 .00403 .00403 .00404 .00407 .00409 .00407 .00409 .00407 .00409 .00407 .00408 .00401 .00401 .00401 .00411 .00411 .00418 .00419 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403	60 58 56 52 50 48 46 42 40 88 66 61 11 10 86 64 42 42 40 40 41 41 41 41 41 41 41 41 41 41
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+3 36+21 38 40+25 44 44+26 48+27 50 52+28 56+29 58	7.32171 32309 32446 32583 7.32720 32994 33130 7.33266 33402 33538 32673 7.33269 34213 7.34348 34452 34616 34750 7.34541 35017 33150 35283 7.35416 35581 7.35417 7.32299	0.00210 .00210 .00211 .00212 .00213 .00214 .00214 .00215 .00216 .00216 .00216 .00216 .00220 .00220 .00220 .00220 .00220 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222 .00222	7,40067 ,40192 ,40318 ,40443 7,40568 ,40643 ,40643 ,40643 ,41067 ,41191 ,41439 ,41563 ,41686 ,4180 ,41933 ,42056 ,42179 ,42301 ,42179 ,42301 ,4268 ,42790 ,42912 ,4268 ,42790 ,42912 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368 ,4368	0.00252 .00253 .00253 .00255 .00255 .00256 .00256 .00257 .00256 .00260 .00261 .00261 .00262 .00263 .00263 .00263 .00264 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00266 .00276 .00276 .00276 .00276 .00276 .00277 .00277 .00272 .00273	7,47362 47418 47433 17649 7,47764 47879 47879 4,8213 4,8337 4,8452 4,8566 7,46630 4,8794 4,8907 4,9021 7,49536 4,9473 7,49536 4,9693 4,9693 4,9693 4,9693 4,9693 4,9693 4,9693 4,9693 4,9693 5,0671 7,50036 5,0671 7,50036 5,0671 7,50036	0.00397 .60258 .60299 .00306 0.60300 .69301 .00305 .00306 .00305 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .00308 .003	7,53980 54087 54194 54301 7,54497 54614 54620 54727 7,54833 54939 55045 55045 55045 55046 7,55256 7,55256 7,55256 7,55256 7,55256 7,56256 7,56256 7,56256 7,56256 7,56276 7,56276 7,56276 7,56276 7,56276 7,56276 7,56276 7,56276 7,5628 7,5628 7,5628 7,5628	0.08347 .00348 .00349 .00350 .00353 .00353 .00355 .00356 .00356 .00356 .00356 .00356 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00366 .00367 .00368	7.60179 .60279 .60378 .60478 .7.60577 .60577 .60573 .61072 .61170 .61269 .7.61367 .61466 .61564 .61662 .7.61760 .61584 .61662 .7.6244 .62545 .62753 .62753 .62753 .62753 .62753	0.00400 .00401 .00102 .00403 .00403 .00403 .00404 .00407 .00409 .00407 .00409 .00407 .00409 .00407 .00408 .00401 .00401 .00401 .00411 .00411 .00418 .00419 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403 .00403	60 58 56 52 50 48 46 42 40 88 66 61 11 10 86 64 42 42 40 40 41 41 41 41 41 41 41 41 41 41

## TABLE 45.

0 h 30 m 7 2 30' (0 h 3 2 m h 2 0' (0 h 3 4 m h 2 30' 0 h 36 m 9 0' 0 h 38 m 9	30/
s Lee, Hey Nat, Hay Log, Hay, Nat, Uay, Log, Hay, Nat, Hay Log, Hay, Nat, Hay, Log, Hay, N	at. Hav. 3
	0.00686 60
	.00687 58
	.00658 56
	.00659 54
	.00 <b>691</b> 5≾
	.00692 50
	.00693 48
	.00691 46
	0.00695   44 .00697   42
	.00697 42 .00698 40
	.00699 38
	0.00700 36
	.00701 34
z>+ 7   .64458   .00441   .69972   .00501   .75155   .00564   .80045   .00632   .84672	.00703 32
	.00701 80
	0.00705 28
	.00706 26
7 + 9   .64837   .00445   .70328   .00505   .75490   .00509   .80361   .00636   .81972   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .70476   .704	.00707 24
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7.65870   0.00456   7.74298   0.00516   7.76401   0.00581   7.81225   0.00649   7.85791   0	0.00721 2
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70.00					
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	0 h 40 m	10° 0′	0 h 42 m	10° 30′	0h 44n	11° 0′	0h 46m	11° 30′	0 h 48 m	12° 0′	
1 . '	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	s
0 0	7.88059 .88131	0.00760	7.92286	0.00837	7.96315	0.00919	8.00163	0.01004	8.03847	0.01093	60
4-1	.88203	.00762	.92354 .92423	.00840	.96380 .96446	.00920	.00226	.01005	03907 03967	.01094 .01096	58 56
- F	.88276	.00763	.92492	.00841	.96511	.00923	.00351	.01008	_,04027	.01097	54
8+ 2	7.88348 .SS419	.00765	7.92560 .92629	0.00843	7.96577 $.96642$	0.00924	8.00414	.01010	8.04087 .04147	.01109	52 50
12+ 3	.88491	.00767	.92697	.00845	.96707	.00927	.00539	.01012	.04207	.01102	48
14 16± 1	.88563 7.88635	0.00768	.92766 7,92834	.00847 0.00848	0.96773 $0.96838$	0.00938	.00601 8,00664	.01014 0.01015	.01267 8.04326	.01103 0.01105	46
18	.88707	.00771	.92902	.00849	.96903	.00931	.00726	.01017	.04326	.01106	44 42
20+ 5	88778	.00772	.92970	.00851	.96968	.00933	.00788	.01018	.04446	.01108	40
- 6	.88850 7.88921	.00774	93039 7.93107	0.00853	$\frac{.97033}{7.97098}$	0.00934	.00851 8.00913	0.01020	$\frac{.04506}{8.04565}$	.01109 0.01111	38 56
26	.88993	.00776	.93175	.00855	.97163	.00937	.00975	.01023	.04625	.01112	34
28+ 1 30	.89064 .89135	.00777	.93243	.00856	.97228 .97293	.00938	.01037	.01024	.04684	.01114	32 30
32+8	7.89207	0.00780	7.93379	0.90859	7.97358	0.00911	8.01161	0.01037	8.04803	0.01117	28
34	.89278	.00781	.93447	.00860	.97423	.00912	.01223	.01029	.04863	.01118	26
36+ 9 38	.89349 .89420	.00783	.93514 .93582	.00861	.97478 .97552	.00944	.01285	.01930 .01932	.04922 .04981	.01120	24
40+10	7.89491	0.00785	7.93650	0.00864	7.97617	0.90917	8.01409	0.01033	8.05041	0.01123	20
42 44+11	.89562 .89633	.00786	.93717 .93785	.00865	.97681 .97746	.00948	.01471 .01532	.01034 .01036	.05100 .05159	.01125	18 16
46	.89704	.00789	.93852	.00868	.97810	.00951	.01594	.01036	.05159	.01126	14
48÷12	7.39775	0.00790	7.93920	0.00869	7.97875	9.00952	8.01656	0.01039	8,05277	0.01129	12
50 52+13	.89846	.00792	.93987 .94055	.00871	.97939	.00954	.01717 .01779	.01040	.05336	.01131	10 8
54	.89987	.00791	.94122	.00873	.98068	.00956	.01840	.01043	.05454	.01134	- 6
56+14 58	7.90057 7.90128	0.00795	7.94189 $7.94257$	0.00875 0.00876	7.98132 7.98196	0.00958	8.01902 8.01963	0.01045 0.01046	8.05513 8.05572	0.01135 0.01137	4 2
	234	1911	23 h	17 m	23h	15m		13 m	234	11 m	
0 /	0h 41 m	10° 0′	04 43m	10° 30′	0h 45m	11° 0′	()h 47 m	11° 39′	04 49 m	12° 0′	
						11° 0′	I			12° 0′ 9.01138	s 60
0+15	7.90198 .90269	0.00798 .00799	7.94324 .94391	0.09877 .00879	7.98260 .98325	0.00961 0.00962	8.02025 .02086	0.61048 .01049	8.05631 .05690	0.01138 .01140	60 58
0+15 2 4+16	7.90198 .90269 .90339	0.00798 .00799 .00801	7.94324 .94391 .94458	0.09877 .00879 .00880	7.98260 .98325 .98389	0.00961 .00962 .00964	8.02025 .02086 .02148	0.01048 .01049 .01051	8.05631 .05690 .05749	0.01138 .01140 .01142	60 58 56
0+15	7.90198 .90269	0.00798 .00799	7.94324 .94391	0.09877 .00879	7.98260 .98325	0.00961 0.00962	8.02025 .02086	0.61048 .01049	8.05631 .05690	0.01138 .01140	60 58
$ \begin{array}{c c}  & & & & \\ 0+15 & & & \\ 2 & & & \\ 4+16 & & \\ \hline 6 & & & \\ \hline 8+17 & & \\ 10 & & & \\ \end{array} $	7.90198 .90269 .90339 .90409 7.90480 .90550	0.00798 .00799 .00801 .00802 0.00803 .00801	7.94324 .94391 .94458 .94525 7.94592 .94659	0.09877 .00879 .00880 .00882 0.00883 .00884	7.98260 .98325 .98389 .98453 7.98517 .98581	0.00961 -00962 -00964 -00965 -00966 -00968	8.02025 .02086 .02148 .02209 8.02270 .02331	0.01048 .01049 .01051 .01052 0.01051 .01055	8.05631 .05690 .05749 .05808 8.05866 .05925	0.01138 .01140 .01142 .01143 0.01145 .01146	60 58 56 54 53 50
$ \begin{array}{c c}  & & & & & \\ 0 + 15 & & & \\ 2 & & & \\ 4 + 16 & & \\ \hline  & & & \\ 8 + 17 & & \\ 10 & & \\ 12 + 18 & & \\ \end{array} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726	0.09877 .00879 .00880 .00882 0.00883 .00884 .00886	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644	0.00961 -00962 -00964 -00965 -00966 -00968 -00969	8.02025 .02086 .02148 .02209 8.02270 .02334 .02392	0.01048 .01049 .01051 .01052 0.01051 .01055 .01957	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984	0.01138 .01140 .01142 .01143 0.01145 .01146 .01148	60 58 56 54 53 50 48
$ \begin{vmatrix} & & & & & & \\ & 2 & & & & \\ & 2 & & & \\ & 4 & + 16 & & \\ & & & & \\ \hline & & 8 & + 17 & \\ & 10 & & & \\ & & & 12 & + 18 \\ & & & 14 & \\ & & & 16 & + 19 \end{vmatrix} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806 .00807 0.00808	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726 .94792 7.94859	0.09877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 0.00888	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772	0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972	8.02025 .02086 .02148 .02209 8.02270 .02334 .02392 .02453 8.02515	0.01048 .01049 .01051 .01052 0.01054 .01055 .01957 .01058 0.01060	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101	9.01138 .01140 .01142 .01143 .01145 .01146 .01148 .01119	60 58 56 54 50 48 46 44
0+15 2 2+16 6 8+17 10 12+18 14 16+19 18	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90830	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806 .00807 0.00808 .00810	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726 .94792 7.94859 .94926	0.09877 .00879 .00880 .00882 0.00883 .00884 .00887 0.00888 .00889	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772 .98836	0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972	8.02025 .02086 .02148 .02209 8.02270 .02334 .02302 .02453 8.02515	0.61048 .01049 .01051 .01052 0.01051 .01055 .01957 .01058 0.01060 .91061	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159	9.01138 .01149 .01142 .01143 0.01145 .01146 .01148 .01119 0.01151	60 58 56 54 50 48 44 44 42
$ \begin{vmatrix} & & & & & & \\ & 2 & & & & \\ & 2 & & & \\ & 4 & + 16 & & \\ & & & & \\ \hline & & 8 & + 17 & \\ & 10 & & & \\ & & & 12 & + 18 \\ & & & 14 & \\ & & & 16 & + 19 \end{vmatrix} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806 .00807 0.00808	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726 .94792 7.94859	0.09877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 0.00888	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772	0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972	8.02025 .02086 .02148 .02209 8.02270 .02334 .02392 .02453 8.02515	0.01048 .01049 .01051 .01052 0.01054 .01055 .01957 .01058 0.01060	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101	9.01138 .01140 .01142 .01143 .01145 .01146 .01148 .01119	60 58 56 54 50 48 46 44
$ \begin{vmatrix} 0+15 \\ 2 \\ 4+16 \\ 6 \\ \hline 8+17 \\ 10 \\ 12+18 \\ 14 \\ 16+19 \\ 18 \\ 20+20 \\ 22 \\ \hline 24+21 \\ \end{vmatrix} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90830 .90900 .90970	0.00798 .00799 .00801 .00802 0.00803 .00806 .00807 0.00808 .00810 .00811 .00812	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726 .94792 7.94859 .94992 .95059 7.95126	0.99877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 0.00888 .00890 .00891 .00892	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98702 .98836 .98899 .98963 7.99027	0.00961 -00962 -00964 -00965 -00966 -00968 -00969 -00971 -000972 -00974 -00976 -00976	8.02025 .02086 .02148 .02209 8.02270 .02334 .02302 .02453 8.02515 .02576 .02637 .02697	0.61048 .01049 .01051 .01052 0.01054 .01055 .01957 .01058 0.01060 .01061 .01063	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06218 .06276	9.01138 .01140 .01143 .01143 .01145 .01146 .01148 .01119 0.01151 .01154 .01155	60 58 56 54 52 50 48 46 44 42 40 88
$ \begin{vmatrix} 0 + 15 \\ 2 \\ 4 + 16 \\ 6 \end{vmatrix} $ $ \begin{vmatrix} 8 + 17 \\ 10 \\ 12 + 18 \\ 14 \\ 16 + 19 \\ 18 \\ 20 + 20 \\ 22 \end{vmatrix} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90830 .90900 .90970 7.91039 .91109	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806 .00807 0.00808 .00811 .00812	7.94324 .94391 .94458 .94525 7.94592 .94659 .94726 .94792 7.94859 .94926 .94992 .95059	0.99877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 0.00888 .00890 .00891	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772 .98836 .98899 .98963	0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972 .00974 .00976	8.02025 .02086 .02148 .02209 8.02270 .02334 .02302 .02453 8.02515 .02576 .02637 .02697	0.61048 .01049 .01051 .01052 0.01054 .01055 .01957 .01058 0.01060 .01061	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06218	9.01138 .01140 .01143 .01143 .01145 .01146 .01148 .01119 0.01151 .01152 .01154	60 58 56 54 50 48 46 44 42 40 88
0+15 2 3+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90900 .90970 7.91039 .91109 .91179 .911248	0.00798 .00799 .00801 .00802 0.00803 .00806 .00806 .00806 .00811 .00812 0.00814 .00815 .00816	7.94324 94391 94458 94525 7.94659 94792 7.94659 94792 7.94859 94992 95059 7.95126 95192 95259 95325	0.99877 .00879 .00880 .00882 0.00883 .00886 .00886 .00887 0.00891 .00892 0.00894 .00895 .00898	7.98260 .98325 .98389 .98453 7.98517 .98544 .98708 7.98772 .98836 .98899 .98963 7.99027 .99090 .99154	11° 0′ 0.00961 .00962 .00964 .00965 0.00966 .00969 .00971 0.00972 .00974 .00978 .00978	8.02025 .02086 .02148 .02209 8.02270 .02334 .02302 .02453 8.02515 .02576 .02637 .02697 8.02758 .02819 .02880 .02941	0.01048 .01019 .01051 .01052 0.01053 .01055 .01957 .01058 0.01060 .01061 0.01066 .01067	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06276 8.06335 .06393 .06451	0.01138 .01140 .01142 .01143 .01145 .01146 .01148 .01151 .01152 .01154 .01155 .01157 .01159 .01160	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30
0+15 2 3+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90830 .90970 7.91039 .91109 .91179 .91248 7.91318	0.00798 .00799 .00801 .00803 0.00803 .00806 .00806 .00806 .00808 .00810 .00812 0.00814 .00812 0.00815	7.94324 .94391 .94458 .94525 7.94592 .94659 .94792 7.94859 .94992 .95059 7.95126 .95259 .95259 .95325 7.95391	0.09877 .00879 .00880 .00882 0.00883 .00886 .00887 0.00891 .00892 0.00892 0.00898 0.00898 0.00898 0.00898 0.00898 0.00898 0.00898	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.9872 .98836 .98896 7.99027 7.99027 7.990217	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00969 .00971 0.00972 .00974 .00975 .00979 0.00988 .00989	8.02025 .02086 .02148 .02209 8.02270 .02331 .02392 .02453 8.02515 .02576 .02697 8.02758 .02819 .02880 .02941 8.03001	0.01048 .01019 .01051 .01052 0.01051 .01055 .01957 .01058 .01066 .01060 .01060 .01066 .01066 .01067	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06218 .06218 .0626 8.06335 .06393 .06451 8.06568	0.01138 .01140 .01142 .01143 0.01145 .01146 .01148 .01119 .01157 .01155 0.01157 .01159 .01160 .01163	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28
$ \begin{array}{c} 0+15\\ 2\\ 3+16\\ 6\\ \hline \\ 8+17\\ 10\\ 12+18\\ 14+16+19\\ 18\\ 20+20\\ 22\\ 24+21\\ 26\\ 28+22\\ 30\\ 32+23\\ 34\\ 36+24\\ \end{array} $	7.90198 .90269 .90339 .90409 7.90409 7.90409 7.90550 .90620 .90620 .90830 .90900 7.90760 .90970 7.91039 .91179 .911248 7.91318 .91387 .91457	0.00798 .00799 .00801 .00802 0.00803 0.00803 0.00805 0.00805 0.00814 0.00814 0.00815 0.00817 0.00819 0.00819 0.00819	7.94324 .94391 .94458 .94525 7.94659 .94726 .94726 .94922 7.94859 .94992 7.95192 .95059 7.95192 .95259 .95325 7.95391 .95458 .95524	0.99877 .00879 .00880 .00882 0.00883 .00884 .00887 0.00888 .00899 .00891 .00892 0.00894 .00898 .00898 .00898 .00898 .00898 .00898 .00898 .00898 .00898	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772 .98896 7.98992 .99090 .99154 .99217 7.99281 .99344 .99344	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00968 .00971 0.00972 .00974 .00974 .00979 .00979 .00981 .00984 .00984	8.02025 .02086 .02148 .02209 8.02270 8.02334 .02332 .02453 8.02576 .02697 8.02758 .02819 .0280 .02941 8.03001 .03062 .03123	0.01048 .01049 .01051 .01052 0.01051 .01055 .01957 .01068 .01061 .01061 .01066 .01066 .01067 .01072 .01072	8.05631 .05690 .05749 .05808 8.05806 0.05925 .05984 .06015 .06159 .06218 .0626 8.06335 .06335 .06451 8.06568 .06668	9.01138 .01140 .01142 .01143 0.01145 .01146 .01149 0.01151 .01152 .01155 .01155 .01156 .01163 .01163 .01163	60 58 56 54 52 50 48 46 44 42 40 88 84 84 82 80 28 26 24
0+15 2+16 6 8+17 10+18 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24	7.90198 .90269 .90339 .90409 7.90480 .90550 .90690 7.90760 .90990 .90990 .90990 .91109 .91119 .91138 .91387 .91387 .91457 .91526	0.00798 .00799 .00801 .00802 0.00803 .09801 .00806 .00807 0.00814 .00812 0.00814 .00817 0.00814 .00817 0.00814 .00817 .00819	7.94324 .94391 .94458 .94525 7.94592 .94659 .94792 7.94859 .94992 .95059 7.95192 .95192 .95259 .95325 7.95391 .95458 .955259	0.00877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 0.00891 .00892 0.00897 .00895 .00897 .00899 .00899 .00901 .00909	7.98260 .98325 .98389 .98453 7.98517 .98581 .98708 7.98772 .98896 .98899 .98963 7.99027 7.99027 7.99281 .99344 .99347	0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972 .00976 0.00978 .00979 .00978 .009984 .00985 .00988	8.02025 .02086 .02148 .02209 8.02270 .02334 .02392 .02453 8.02515 .02637 .02697 8.02580 .02819 .02819 .02819 .02918 .03011 .03062 .03123 .03123 .03123 .03123 .03123	0.01048 .01049 .01051 .01052 0.01054 .01055 .01957 .01058 0.01060 .01061 0.01066 .01061 0.01066 .01067 .01073 .01073	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06276 8.06335 .06393 .06451 .06516 8.06368 .066626 .06626 .06684	9.01138 .01140 .01142 .01143 .011145 .01146 .01146 .01151 .01152 .01154 .01155 .01159 .01160 .01163 .01163 .01163 .01163	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22
$ \begin{array}{c} 0+15\\ 2\\ 3+16\\ 6\\ \hline \\ 8+17\\ 10\\ 12+18\\ 14+16+19\\ 18\\ 20+20\\ 22\\ 24+21\\ 26\\ 28+22\\ 30\\ 32+23\\ 34\\ 36+24\\ \end{array} $	7.90198 .90269 .90339 .90409 7.90409 7.90409 7.90550 .90620 .90620 .90830 .90900 7.90760 .90970 7.91039 .91179 .911248 7.91318 .91387 .91457	0.00798 .00799 .00801 .00802 0.00803 0.00803 0.00805 0.00805 0.00814 0.00814 0.00815 0.00817 0.00819 0.00819 0.00819	7.94324 .94391 .94458 .94525 7.94659 .94726 .94726 .94922 7.94859 .94992 7.95192 .95059 7.95192 .95259 .95325 7.95391 .95458 .95524	0.99877 .00879 .00880 .00882 0.00883 .00884 .00887 0.00888 .00899 .00891 .00892 0.00894 .00898 .00898 .00898 .00898 .00898 .00898 .00898 .00898 .00898	7.98260 .98325 .98389 .98453 7.98517 .98581 .98644 .98708 7.98772 .98896 7.98992 .99090 .99154 .99217 7.99281 .99344 .99344	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00968 .00971 0.00972 .00974 .00974 .00979 .00979 .00981 .00984 .00984	8.02025 .02086 .02148 .02209 8.02270 8.02334 .02332 .02453 8.02576 .02697 8.02758 .02819 .0280 .02941 8.03001 .03062 .03123	0.01048 .01049 .01051 .01052 0.01051 .01055 .01957 .01058 0.01060 .01061 .01067 .01069 .01072 .01072 .01073 .01076 .01076	8.05631 .05690 .05749 .05808 8.05806 0.05925 .05984 .06015 .06159 .06218 .0626 8.06335 .06335 .06451 8.06568 .06668	0.01138 .01140 .01142 .01143 .01143 .01146 .01146 .01151 .01152 .01154 .01155 .01169 .01169 .01163 .01166 .01168 .01168	60 58 56 54 52 50 48 46 44 42 40 88 84 84 82 80 28 26 24
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 24+21 30 32+23 34 36+24 38 40+25 44 42+26	7.90198 90269 90339 90409 7.90480 90550 90650 90650 90890 7.90760 7.90760 7.90760 7.91039 91179 91148 7.91318 91387 91457 91526 7.91596 7.91596 7.91596 7.91596 7.91596 7.91596	0.00798 .00799 .00801 .00802 0.00803 .00806 .00806 .00806 .00810 .00811 .00812 .00816 .00816 .00818 .00816 .00818 .00816 .00819 .00818 .00816 .00819 .00824 .00824 .00824	7.94324 .94391 .94459 .94525 7.94599 .94726 .94792 7.94859 .94992 .95059 .95059 .95259 .95259 .95259 .95254 .9524 .95594 .95594 .95594 .95788	0.09877 .00879 .00880 .00882 0.00883 .00884 .00891 .00891 .00891 .00892 0.00898 0.00898 0.00899 0.00898 0.00899 0.00898 0.00899 0.00898 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.00899 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0.0089 0	7.98260 .98325 .98385 .98453 7.98517 .98541 .98644 .98708 7.98708 7.98702 .98896 .98963 7.99027 .99090 .99154 .99217 7.99281 .99344 .99407 .99470 .99534 .99597 .99597	0.00961 0.00962 0.00968 0.00968 0.00968 0.00969 0.00974 0.00972 0.00978 0.00978 0.00978 0.00989 0.00989 0.00989 0.00989 0.00989	8.02025 .02086 .02148 .02209 8.02270 .02331 .02392 .02453 8.02515 .02576 .02637 .02697 8.02758 .02880 .02941 8.03062 .03123 .03183 .03183 .03364 .03365	0.61048 .01619 .01051 .01052 0.01054 .01057 .01957 .01958 0.01061 .01063 .01061 0.01066 .01067 .01073 .01073 .01073 .01075	8.05c31 .05c90 .05749 .05808 8.05808 8.05866 .05925 .06042 8.06101 .06218 .06276 8.06335 .06335 .06451 .06510 8.06568 .06684 .06742 8.06890 .06859	9,01138 .01140 .01143 .01143 .01143 .01145 .01148 .01149 .01157 .01157 .01157 .01159 .01160 .01162 .01163 .01166 .01166 .01166 .01166 .01167 .01170	60 58 56 54 52 50 48 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16
$ \begin{array}{c} 0+15\\ 2\\ 4+16\\ 6\\ 8+17\\ 10\\ 12+18\\ 14\\ 16+19\\ 18\\ 20+20\\ 22+21\\ 26\\ 28+22\\ 30\\ 32+23\\ 32\\ 32+3\\ 36+24\\ 38\\ 40+25\\ 42\\ \end{array} $	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90620 .90990 .90900 .90900 .91109 .91179 .91248 7.9138 7.9138 7.91457 .91526 7.91566	0.00798 .00799 .00801 .00802 0.00803 .00806 .00806 .00807 .00816 .00814 .00812 .00816 .00816 .00817 .00819 .00819 .00823	7.94324 .94391 .94458 .94525 7.94599 .94726 .94792 7.94859 .94992 .94992 .95192 .9529 7.95126 .95391 .95391 .95390 7.95656 .95790 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9590 .9500 .9500 .9500 .9500 .9500 .9500 .9	0.00877 .00879 .00880 .00882 0.00883 .00886 .00886 .00887 0.00889 .00891 .00894 .00898 .00898 .00899 .00898 .00898 .00898 .00908 .00908	7.98260 .98325 .98383 .98453 7.98517 .98581 .98708 7.98772 .98836 .98896 .99963 7.99027 .99154 .99217 7.99281 .99447 .99470	11° 0′ 0.00961 .00962 .00964 .00965 0.00966 .00968 .00969 .00971 0.00972 .00975 .00976 0.00981 .00982 0.00988 .00988	8.02025 .02086 .02148 .02209 8.02270 .02331 .02392 .02453 8.02515 .02576 .02677 8.02758 .02819 .02819 .03942 .03123 .03123 .03183	0.01048 .01049 .01051 .01052 0.01051 .01055 .01957 .01058 0.01060 .01061 .01067 .01069 .01072 .01072 .01073 .01076 .01076	8.05631 .05690 .05749 .05808 8.05866 .05925 .05984 .06042 8.06101 .06159 .06218 .06335 .06393 .06451 .06510 .06668 .06664 .06684 .066742	0.01138 .01140 .01142 .01143 .01143 .01146 .01146 .01151 .01152 .01154 .01155 .01169 .01169 .01163 .01166 .01168 .01168	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 27 20 18
0+15 2+16 6 8+17 10 12+18 14+19 18 19+20 29 24+21 26 28+22 30 32+23 34 36+24 38 42 44+26 48+27 50	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 7.90760 .90990 7.91039 .91109 .91179 .91248 7.91318 .91387 .91457 .91526 .91665 .91665 .91734 .91803 .7.91872 .91872	0.00798 .00799 .00801 .00802 0.00803 .00806 .00807 .00806 .00807 .00811 .00812 0.00814 .00815 .00819 .00823 .00823 .00823 .00828 .00828 .00828 .00828	7.94324 .94391 .94458 .94525 7.94559 .94726 .94752 7.94859 .94992 .95059 7.95126 .95192 .95259 .95325 .95391 .95524 .95590 .95722 .95722 .95788 .95854 .95920 .95920	0.09877 .00879 .00880 .00882 0.00883 .00884 .00886 .00887 .00890 .00892 0.00895 .00897 .00896 .00909 .00909 .00909 .00909	7.98260 98325 .98389 98453 7.98517 .98581 .98644 .98708 7.98772 .98896 .99907 .99154 .99217 7.99281 .99407 .99470 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597 .99597	11° 0′ 0.00961 .00962 .00963 0.00966 0.00969 .00969 .00971 0.00972 .00976 .00976 0.00978 0.00984 .00984 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988 .00988	8.02025 02086 02148 02209 8.02270 02331 02332 02453 8.02515 .02576 .02697 8.02580 02819 0.02819 0.03123 .03183 8.03244 0.3365 0.3486 0.3486 0.3486 0.3546	0.61048 .01049 .01051 .01051 .01052 .01051 .01055 .01957 .01058 .01061 .01063 .01064 .01063 .01067 .01079 .01079 .01079 .01079 .01079 .01082 .01081 .01083	8.05631 .05690 .05749 .05808 8.05866 .05925 .05925 .05984 .06612 8.06101 .06159 .06216 8.06335 .06451 .06510 .06668 .06684 .06684 .066742 8.06859 .06917 .06975 8.07032	0.01138 .01149 .01142 .01143 .001145 .01146 .01149 .01159 .01157 .01157 .01159 .01160 .01162 .01163 .01164 .01167 .01171 .01171 .01171 .01171 .01171	60 58 56 5-1 50 48 46 44 42 40 88 86 84 82 80 28 26 24 22 20 18 16 17 19 19 19 19 19 19 19 19 19 19
$ \begin{array}{c} 0+15\\ 2\\ 4+16\\ 6\\ 8+17\\ 10\\ 12+18\\ 14\\ 16+19\\ 18\\ 20+20\\ 22\\ 24+21\\ 26\\ 28+22\\ 30\\ 32+23\\ 32\\ 32+3\\ 36+24\\ 38\\ 40+25\\ 44+26\\ 46\\ 48+27\\ 50\\ 52+28\\ \end{array} $	7.90198 .90269 .90309 7.90480 .90550 .90620 .90620 .90690 .909900 .909900 .91109 .91179 .91138 .91387 .91526 .91734 .91526 .91734 .91872 .91941 .91941 .92010	0.00798 .00799 .00801 .00802 0.00803 .00806 .00806 .00807 .00811 .00812 0.00814 .00815 .00816 .00817 .00819 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820	7.94324 .94391 .94458 .94525 7.91592 .94659 .94726 .94792 .94992 .95059 .95192 .95259 .95192 .95259 .95325 7.95391 .95458 .95594 .95722 .95722 .95788 .95788 .95584 .959866 .95986	0.09877 .00879 .00880 .00883 0.00884 .00886 .00887 .00889 .00899 .00899 .00899 .00899 .00899 .00899 .00899 .00990 .00990 .00906 .00906 .00908 .00909 .00901 .00901 .00901	7.98260 .98325 .98389 .98453 7.98517 .98544 .98708 7.98708 7.989027 .999027 .99027 .99027 .99154 .99217 7.99281 .99407 .99407 .99408 .99597 .99660 .99723 7.99786 .99819 .99819	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00968 .00971 0.00972 .00974 .00976 0.00978 0.00979 .00981 .00988 0.00989 0.00989 0.00989 0.00998 0.00999 0.00999	8.02025 .02086 .02148 .02209 8.02270 .02332 .02453 8.02515 .02576 .02697 8.02758 .02819 .02819 .02819 .03819 .033244 .03304 .03305 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425 .03425	0.61048 .01051 .01052 0.01054 .01055 .01055 .01957 .01958 .01961 .01061 .01063 .01061 .01063 .01067 .01072 .01073 .01075 .01076 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .010	8.05c31 .05c90 .05749 .05808 8.05806 .05925 .05984 .06012 8.0615 .06276 8.06335 .06393 .06451 .06510 8.06568 .06626 .06684 .06742 8.06500 .06859 .06917 .06975 8.07032 .07148	9.01138 .01149 .01142 .01143 .01145 .01146 .01148 .0119 .01157 .01159 .01157 .01159 .01166 .01163 .01166 .01168 .01170 .01171 .01173 .01173 .01173	60 58 56 5-7 50 48 46 44 42 42 43 88 86 84 82 82 83 84 84 85 86 87 87 88 88 86 87 87 87 87 87 87 87 87 87 87
0+15 2+16 6 8+17 10 12+18 14+19 18 120+20 22 23+21 26 28+22 30 32+23 34 40+25 44+26 48+27 50 52+28 56+29	7.90198 .90269 .90339 .90499 7.90480 .90550 .90690 .90690 .90690 .90990 .90990 .91109 .911179 .91179 .91187 .91457 .91596 .91734 .91872 .91872 .91872 .91941 .92010 .92079 .92148	0.00798 .00799 .00801 .00802 .00806 .00806 .00806 .00810 .00811 .00812 .00816 .00817 .00813 .00813 .00813 .00813 .00813 .00813 .00823 .00823 .00823 .00823 .00823 .00823 .00823 .00823 .00823	7.94324 .94391 .94458 .94525 7.94559 .94726 .94726 .94922 .95059 .95126 .95126 .95126 .95259 .95259 .95325 7.95391 .95452 .95524 .95590 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722 .95722	0.09877 .00879 .00879 .00880 .00882 0.00883 .00886 .00886 .00887 .00891 .00892 .00891 .00892 .00996 .00996 .00996 .00996 .00906 .00996 .00996 .00991 .00991	7.98260 98325 .98389 .98453 7.98517 .98581 .98644 .98702 .98899 .98963 7.99027 .99090 .99154 .99217 7.99281 .99407 .99407 .99407 .99537 .99537 .99786 .99786 .99899 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819	11° 0′ 0.00961 .00962 .00964 .00965 9.00966 .00968 .00969 .00971 0.00972 .00974 .00975 .00976 0.00981 .00988 0.00988 0.00988 0.00989 0.00991 .00992 0.00998 0.00999	8.02025 02086 02148 02209 8.02270 9.02371 02332 02576 02697 8.02576 0.02819 0.02819 0.02819 0.02819 0.03123 0.03123 0.03123 0.03123 0.03446 0.03666 0.03666 0.03666 0.03666 0.03666	0.61048 .01049 .01051 .01052 0.01051 .01053 .01053 .01053 .01063 .01061 .01063 .01064 .01066 .01066 .01067 .01079 .01079 .01079 .01079 .01079 .01081 .01085 .01085 .01085 .01085 .01085 .01076 .01079 .01079 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .01085 .010	8.05631 .05690 .05749 .05808 8.05866 .05925 .05925 .05925 .06159 .06216 8.06335 .06335 .06451 .06510 8.06568 .06626 .06684 .06742 8.06809 .06859 .06977 .06975 8.07032 .07090 .07148 .07206	9.01138 .01140 .01142 .01143 .01145 .01146 .01148 .01199 .01157 .01159 .01159 .01160 .01161 .01168 .01168 .01169 .01171 .01173 .01176 .01177 .01179 .01178	60 58 56 54 50 48 46 44 40 58 36 36 32 30 28 20 18 16 17 19 10 10 10 10 10 10 10 10 10 10
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 24+21 24+21 30 32+23 34 36+24 38 40+25 44 40+25 54 48+27 50 52+28 554 56+29	7.90198 .90269 .90339 .90409 7.90480 .90550 .90620 .90690 .90990 7.90760 .90990 .90990 .91109 .91179 .91138 .91248 .91387 .91457 .91526 7.91596 .91665 .91734 .91803 .91941 .92079 .92079 .92079	0.00798 .00799 .00801 .00802 .00803 .00801 .00806 .00807 .00810 .00811 .00812 .00814 .00817 .00818 .00819 .00824 .00824 .00829 .00824 .00828 .00828 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838 .00838	7.94324 .94391 .94458 .94525 7.94529 .94659 .94726 .94992 .95059 .95192 .95059 .95259 .95259 .95259 .95259 .95259 .95259 .95264 .95722 .95854 .95722 .95854 .95866 .95866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .968666 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .968666 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .968666 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .96866 .968	0.09877 .00879 .00880 0.00882 0.00883 0.00884 .00886 .00897 0.00887 0.00897 .00898 0.00899 0.00899 0.00908 0.00901 0.00901 0.00901 0.00901 0.00901 0.00901	7.98260 98325 98389 98453 7.98517 98581 98644 98708 7.98772 98896 99899 99154 99217 7.99281 99407 7.99534 99407 7.99534 99407 99470 7.99534 9959 99154 99475 7.9958 99723 7.99869 99723 7.99869 99723 7.99869 99723 7.99869 99912 7.99869	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00969 .00971 0.00972 .00974 .00978 .00978 .00978 0.00989 .00989 .00989 .00989 .00999 .00999 .00999 .00999 .00999	8.02025 .02086 .02148 .02209 8.02270 .02331 .02331 .02337 .02697 8.02576 .02697 8.02758 .02819 .02830 .03662 .03123 .03663 .03483 8.03244 .03365 .03485 .03486 .03466 .03666	0.61048 .010451 .01052 .01053 .01055 .01957 .01957 .01958 .01960 .01061 .01063 .01064 .01067 .01072 .01073 .01075 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01078 .01088 .01088 .01088 .01088	8.05631 .05690 .05749 .05808 8.05825 .05925 .05925 .05925 .05925 .06101 .06159 .06216 .06693 .06451 .06510 8.06568 .06684 .06742 8.06890 .06859 .06975 8.07032 .07148 .07148 .07266 .07148 .07266	9.01138 .01140 .01142 .01143 0.01145 .01146 .01149 0.01151 .01159 .01159 .01159 .01163 .01166 .01168 0.01170 .01171 .01171 .01171 .01171	60 58 56 52 50 48 46 44 42 42 43 88 86 83 84 83 86 82 82 83 84 84 84 85 86 86 87 87 87 87 87 87 87 87 87 87
0+15 2+16 6 8+17 10 12+18 14+19 18 120+20 22 23+21 26 28+22 30 32+23 34 40+25 44+26 48+27 50 52+28 56+29	7.90198 .90269 .90339 .90490 7.90480 .90550 .90690 .90690 .90690 .90990 .90990 .91109 .911179 .91179 .91187 .91457 .91596 .91734 .91872 .91872 .91872 .91941 .92010 .92079 .92148	0.00798 .00799 .00801 .00802 0.00803 .00801 .00806 .00807 .00814 .00812 0.00814 .00815 .00816 .00817 0.00819 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820 .00820	7.94324 .94391 .94458 .94525 7.94559 .94726 .94726 .94952 .95059 .95126 .95126 .95126 .95259 .95259 .95325 .95325 .95324 .95524 .95524 .95524 .95524 .95526 .95722 .95722 .95728 .95856 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920 .95920	0.09877 .00879 .00880 .00883 0.00884 .00886 .00887 .00888 .00891 .00892 .00892 .00893 .00894 .00896 .00996 .00996 .00996 .00906 .00998 .00906 .00998 .00901 .00911 .00912	7.98260 98325 .98389 .98453 7.98517 .98581 .98644 .98702 .98899 .98963 7.99027 .99090 .99154 .99217 7.99281 .99407 .99407 .99407 .99537 .99537 .99786 .99786 .99899 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819 .99819	11° 0′ 0.00961 .00962 .00964 .00965 0.00968 .00968 .00971 0.00972 .00974 .00976 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0098 0.0099 0.0099	8.02025 02086 02148 02209 8.02270 9.02371 02332 02576 02697 8.02576 0.02819 0.02819 0.02819 0.02819 0.03123 0.03123 0.03123 0.03123 0.03446 0.03666 0.03666 0.03666 0.03666 0.03666	0.61048 .01051 .01052 0.01051 .01053 .01053 .01053 .01053 .01053 .01061 .01063 .01061 .01066 .01067 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01079 .01081 .01082	8.05631 .05690 .05749 .05808 8.05866 .05925 .05925 .05925 .06159 .06216 8.06335 .06451 .06510 8.06568 .06626 .06684 .06742 8.06809 .06859 .06977 .06975 8.07032 .07090 .07148 .07206	9.01138 .01149 .01143 .01143 .01145 .01146 .01148 .0119 .01157 .01159 .01157 .01159 .01166 .01163 .01166 .01170 .01173 .01173 .01179 .01179 .01179 .01179 .01179 .01179	60 58 56 52 50 48 44 42 42 42 43 84 84 84 82 84 82 84 82 84 84 84 84 84 84 84 84 84 84

Page 822]

### TABLE 45.

	0 h 50 m 1	12° 30′	Oh 52 m	13° 0′	0h 54m	13° 30′	04 56 m	14° 0′	03.58m	14° 30′	
s ,	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav	Nat. Hav.	8
	05050	0.011.*	8.10772	0.010.0						0.01700	⊢
0 0	8.07379	.01187	.10827	0.01283	8.14035 .14089	0.01353	8.17179	.01487	8,20211 ,20261	0.01593 .01594	60 58
4+ 1	.07491	.01188	.10883	.01285	.14142	.01385	17282	.01489	.20310	.91596	56
6	.07552	.01190	.10938	.01286	.14195	.01357	.17333	.01191	,20360	.01598	54
84 5		0.01192	8.10993		8.14248	0.01388	8.17384	0.01193	5.10410		52
10	.07667	.01193	.11049	.01290	.14302	.01390	.17436	.01494	.20459	.01602	50
12+ 3 14	.07725 07782	.01195	.11104	.01291	.14355	.01392	.17487	.01496	.20509 .20558	.01604 .01605	48 46
16+ <b>4</b>		0.01198	8.11214	0.01295	8.14461	0.01395	.17538 8.17590	0.01499	8.20608	0.01607	44
18	.07897	.01199	.11269	.01296	.14514	.01397	.17641	.01501	.20657	.01609	42
20+ 5	.07954 +	.01201	.11324	.61298	.14567	.01399	.17692	.01503	.20706	.01611	40
24+ 6	.08011 8.08069	.01203	.11379 8.11435	.01300 0.01301	.14620 8.14673	.01100	.17743	.01505	.20756 8.20805	.01613	38
24+ 6 26	.08126	.01206	.11450	.01303	.14726	.01404	8.17794 .17815	.01508	.20805	0.01615 .01616	36 34
28+ 7	.08183	.01207	.11544	.01305	14779	.01105	.17896	.01510	.20904	.01618	32
50	.08240 !	.01209	.11599	.01306	14832	.01407	.17947	.01512	.20953	.01620	30
32+ 8		0.01211	8.11654	0.91308	8.14885	0.01409	8.17998	0.01513		0.01622	38
84 86+ 9	.08354	.01212	.11709 .11764	.01309	.14938	.01411	.18049 .18100	.01515	.21051 .21100	.01624	26 24
38	.08468	.01215	.11819	.01313	.15043	.01114	.18151		.21149	.01627	22
40 + 10	8.08525	0.01217	8.11873	0.01314	8.15096	0.01416	8.18202	0.01521	8,21199	0.01629	30
42	.08582	.01218	.11928	.01316	.15149	.01417	.18253	.01522	.21248	.01631	18
44+11 46	.08639 .08696	.01220	.11983 -	.01317	.15201 .15254	.01419 15410.	.18303	.01524	.21297	.01633 .01635	16 14
48+12		0.01223	8.12092		8,15307	0.01423	8.18405		8.21395	0.01637	12
50	.08809	.01225	.12147	.01323	.15359	.01124	.18455	.01536	.21441	.01638	10
52 + 13	.08866	.01226	.12201	.01324	.15112	.01426	.18506	.01531	.21493	.01640	-8
54	.08922	.01228	.12256	.01326	15464	.01428	.18557	.01533	.21541	.01642	- 6
$\frac{56+14}{58}$		6.01230 0.01231	8.12310 8.12365	0.01328 0.01329	8,15517 8,15569	0.01429 0.01431	8,18607 8,18658	0.01535	8,21590 8,21639	0.01611	4 3
Or.	- (1), (1), (1)	-		0.01043	(5, 1.00)().1			0.01331	10.2100.1		*
	201	9 -	2.5%	) 16 	233	5 .	234	3.71			1
9 /	04.51%	12 2 307	0 h 53 m	13 ' 0'	0 h 55 m	13 30	Gran.	11 0	05.59	14 - 30'	
s /		12 ° 30′ 0.01233 !		13 ' 0' 0.01331	- θħ 55 π 8.15622	13 30 0.01433	1		!	14 - 30' 0.01618	s 60
0+15	8,09092 ,09149	0.01233	8.12419 .12473	0.01331 .01333	8.15622 .15674	0.01433 .01435	8.18709 .18759	0.01538 .01540	8,21658 ,21737	0.01618 .01650	s 60 58
0+15 2 4+16	8,09092 ,09149 ,09205	0.01233 .01234 .01236	8.12419 .12473 .12528	0.01331 .01333 .01331	8,15622 ,15674 ,15726	0.01133 .01135 .01136	8,18709 ,18759 ,18810	0.01538 .01540 .01542	8,21658 ,21737 ,21785	0.01618 .01650 .01651	60 58 56
0+15 2 4+16 6	8,09092 ,09149 ,09205 ,09262	0.01233 .01234 .01236 .01238	8.12419 .12473 .12528 .12582	0.01331 .01333 .01331 .01336	8.15622 .15674 .15726 .15779	0.01433 .01435 .01436 .01438	8.18709 .18759 .18810 .18860	0.01538 .01540 .01542 .01544	8,21658 ,21737 ,21785 ,21831	0.01618 .01650 .01651 .01653	60 58 56 54
0+15 2 3+16 6 8+17	8,09092 ,09149 ,09205 ,09262 8,09318	0.01233 .01234 .01236 .01238	8.12419 .12473 .12528 .12582 8.12636	0.01331 .01333 .01331 .01336 0.01338	8,15622 .15674 .15726 .15779 8-15831	0.01433 .01435 .01136 .01138	8,18709 ,18759 ,18810 ,18860 8,18910	0.01538 .01540 .01542 .01544 0.01546	8.21658 .21737 .21785 .21831 8.21883	0.01618 .01650 .01651 .01653 0.01655	60 58 56 54 52
0+15 2 4+16 6	8,09092 ,09149 ,09205 ,09262	0.01233 .01234 .01236 .01238	8,12419 ,12473 ,12528 ,12582 8,12636 ,12691	0.01331 .01333 .01331 .01336	8.15622 .15674 .15726 .15779 8.15831 .15883	0.01433 .01435 .01436 .01438	8,18709 ,18759 ,18810 ,18860 8,18910 ,18961	0.01538 .01540 .01542 .01544 0.01516	8,21658 ,21737 ,21785 ,21834  8,21883 ,21932	0.01618 .01650 .01651 .01653 0.01655	60 58 56 54 52 50
0+15 2 4+16 6 8+17 10 12+18	8,09092 ,09149 ,09205 ,09262 8,09318 ,09374 ,09431 ,09487	0.01233 .01234 .01236 .01238 0.01239 .01241 .01243 .01244	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799	0.01331 .01333 .01331 .01336 0.01335 .01339 .01311 .31343	8.15622 .15674 .15726 .15779 8.15831 .15883 .15935 .15987	0.01133 .01435 .01136 .01138 0.01440 .01112 .01143	8,18709 ,18759 ,18810 ,18860 8,18910 ,18961 ,19011 ,19062	0.01538 .01540 .01542 .01544 0.01546 .01517 .01549 .01551	8.21688 .21737 .21785 .21831 8.21883 .21932 .21980 .22029	0.01618 .01650 .01651 .01653 0.01655 .01657 .01659	58 56 54 52 50 48 46
0+15 2 3+16 6 8+17 10 12+18 13 16+19	8,09092 ,09149 ,09205 ,09262 8,09318 ,09374 ,09431 ,09487 8,09543	0.01233 .01234 .01236 .01238 0.01239 .01244 .01243 .01244 0.01246	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799 8.12853	0.01331 .01333 .01334 .01336 0.01338 .01339 .01311 .31343 0.01314	8.15622 .15674 .15726 .15779 8.15831 .15883 .15985 .15987 8.16040	0.01133 .01135 .01136 .01138 0.01440 .01112 .01143 .01415 0.01147	8,18709 ,18759 ,18810 ,18860 8,18910 ,18961 ,19011 ,19062 8,19112	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01551 0.01553	8.21688 .21737 .21785 .21831 8.21883 .21932 .21980 .22029 8.22077	0.01618 .01650 .01651 .01653 0.01655 .01657 .01659 .01661 0.01663	60 58 56 54 52 50 48 46 44
0+15 2 3+16 6 8+17 10 12+18 13 16+19 18	8,09092 .09119 .09205 .09262 8,09318 .09374 .09487 8,09543 .09600	0.01233 .01234 .01236 .01238 0.01239 .01244 .01243 .01244 0.01246 .01247	8,12119 ,12473 ,12528 ,12582 ,12636 ,12691 ,12745 ,12749 8,12853 ,12907	0.01331 .01333 .01331 .01336 0.01338 .01339 .01344 .01344 .01316	8.15622 .15674 .15726 .15779 8.15833 .15935 .15987 8.16010 .16092	0.01133 .01135 .01136 .01138 0.01440 .01142 .01143 .01145 0.01147	8.18709 .18759 .18810 .18860 8.18910 .18961 .19011 .19062 8.19112 .19162	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01551 0.01553	8.21658 21757 21785 .21831 8.21885 .21982 .21980 .22029 8.22077 22126	0,01618 ,01630 ,01651 ,01653 ,01657 ,01657 ,01669 ,01661 0,01663 ,01661	50 58 56 54 52 50 48 46 44 42
0+15 2 3+16 6 8+17 10 12+18 13 16+19	8,09092 ,09149 ,09205 ,09262 8,09318 ,09374 ,09431 ,09487 8,09543	0.01233 .01234 .01236 .01238 0.01239 .01244 .01243 .01244 0.01246	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799 8.12853	0.01331 .01333 .01334 .01336 0.01338 .01339 .01311 .31343 0.01314	8.15622 .15674 .15726 .15779 8.15831 .15883 .15985 .15987 8.16040	0.01133 .01135 .01136 .01138 0.01440 .01112 .01143 .01415 0.01147	8,18709 ,18759 ,18810 ,18860 8,18910 ,18961 ,19011 ,19062 8,19112	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01551 0.01553	8.21688 .21737 .21785 .21831 8.21883 .21932 .21980 .22029 8.22077	0,01618 ,01630 ,01651 ,01653 ,01657 ,01657 ,01669 ,01661 0,01663 ,01661	60 58 56 54 52 50 48 46 44
0+15 2+16 6 8+17 10 12+18 13 16+19 18 20+20	8,09092 .09119 .09205 .09262 8,09318 .09374 .09487 8,09543 .09600 .09656 .09712 8,09708	0.01233 .01234 .01236 .01238 0.01239 .01241 .01243 .01244 0.01246 .01247 .01249 .01251	8.12419 12473 12528 12582 8.12636 12691 12745 12799 8.12853 12907 12961 13015	0.01331 .01333 .01336 .01336 0.01338 .01339 .01344 .01343 .01346 .01348 .01319 0.01351	8.15622 .15674 .15726 .15779 8.15831 .15883 .15935 .15987 8.16040 .16092 .16141 .16196 8.16248	0.01433 .01435 .01436 .01438 0.01440 .01412 .01443 .01415 0.01447 .01450 .01152	8.18709 .18759 .18810 .18860 8.18910 .18961 .19011 .19062 8.19112 .19162 .19212 .19213 8.19313	0.01538 .01540 .01542 .01544 0.01546 .01517 .01551 0.01553 .01556 .01558 0.01560	\$.21658 .21737 .21785 .21831 \$.21883 .21982 .21980 .22629 \$.22077 .22126 .22175 .22273 \$.22272	0,01618 ,01650 ,01651 ,01653 0,01655 ,01659 ,01661 0,01663 ,01661 ,01666	50 58 56 54 52 50 48 46 44 42 40
0+15 2 3+16 6 8+17 10 12+18 13 16+19 18 20+20 21+21 26	8,09092 .09119 .09205 .09262 8,09318 .09374 .09431 .09487 8,09543 .09600 .09656 .09712 8,09708 .097708	0.01233 .91234 .01236 .01238 0.01239 .01244 .01244 0.01246 .01247 .01249 .01251	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799 8.12853 .12907 .12961 .13045 .13069 .13123	0.01331 .01333 .01334 .01336 0.01338 .01339 .01344 .01346 .01348 .01319 0.01351 .01353	8.15622 .15674 .15726 .15779 8.15831 .15883 .15985 .15987 8.16040 .16092 .16141 .16196 8.16248 .16300	0.01433 .01435 .01436 .01438 0.01440 .01142 .01143 .01145 .01145 .01152 .01152	8.18709 .18759 .18860 .18860 8.18910 .18961 .19062 8.19112 .19162 .19212 .19263 8.19313 8.19313 8.19313	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01553 .01555 .01556 .01560 0.01560	8.21688 .21737 .21785 .21831 8.21883 .21932 .21980 .22929 8.22077 .22126 .22175 .22223 8.22272 .22520	0.01618 .01650 .01651 .01653 0.01655 .01657 .01661 0.01663 .01661 .01668 0.01668	50 58 56 54 52 50 48 46 44 42 40 58
0+15 2 3+16 6 8+17 10 12+18 13 16+19 18 20+20 21 421 422	8,09092 .09119 .09205 .09262 8,09318 .09374 .09487 8,09543 .09600 .09656 .09712 8,09708 .09824 .09824	0.01233 .01236 .01236 .01238 0.01239 .01241 .01243 .01246 .01247 .01249 .01251 .01253 .01253	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799 8.12853 .12907 .12961 .13069 .13069 .13163 .13177	0.01331 .01333 .01334 .01336 0.01338 .01339 .01311 .01343 .01348 .01348 .01348 .01353 .01353	8.15622 .15674 .15726 .15779 8.15831 .1583 .15985 .15987 8.16040 .16092 .16141 .16196 8.16238 .16300 .16352	0.01433 .01435 .01136 .01438 0.01440 .01143 .01145 0.01147 .01150 .01152 0.0151 .01155 .01155	8,18709 ,18759 ,18810 ,18860 8,18910 ,18961 ,19011 ,19062 8,19112 ,19212 ,19212 ,19213 ,19313 ,19313 ,19313 ,19313	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01551 0.01555 .01556 .01556 .01562	8.21658 .21785 .21831 8.21883 .21982 .21980 .22029 8.22077 .22126 .22175 .2223 8.22272 .22328	0.01618 .01650 .01651 .01653 0.01655 .01659 .01661 0.01663 .01664 .01668 0.01670 .01672	58 56 54 52 50 48 46 44 40 88 51
0+15 2 3+16 6 8+17 10 12+18 13 16+19 18 20+20 17 18+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+21 20+2	8,09092 ,09149 ,09205 ,09262 8,09318 ,09374 ,09487 8,09543 ,09600 ,09656 ,09712 8,09768 ,09824 ,09880 ,09880	0.01233 .91234 .01236 .01238 0.01239 .01244 .01244 0.01246 .01247 .01249 .01251	8.12419 .12473 .12528 .12582 8.12636 .12691 .12745 .12799 8.12853 .12907 .12961 .13045 .13069 .13123	0.01331 .01333 .01334 .01336 0.01338 .01339 .01344 .01346 .01348 .01319 0.01351 .01353	8.15622 .15674 .15726 .15779 8.15831 .15883 .15985 .15987 8.16040 .16092 .16141 .16196 8.16248 .16300	0.01433 .01435 .01436 .01438 0.01440 .01142 .01143 .01145 .01145 .01152 .01152	8.18709 .18759 .18860 .18860 8.18910 .18961 .19062 8.19112 .19162 .19212 .19263 8.19313 8.19313 8.19313	0.01538 .01540 .01542 .01544 0.01516 .01517 .01549 .01553 .01555 .01556 .01560 0.01560	8,21658 21737 21785 21831 8,21832 21980 22029 8,22077 22126 22175 22223 8,22272 22520 22508 22117 8,20272 22520 2258 22117 8,20272	0.01618 .01650 .01651 .01653 0.01655 .01657 .01661 0.01663 .01661 .01668 0.01668	50 58 56 54 52 50 46 44 42 58 58 58
0+15 2 3+16 6 8+17 10 12+18 17 16+19 18 20+20 27 +21 30 57+23	8,09092 .09119 .09205 .09205 .09268 .09314 .09371 .09487 8,09513 .09606 .09712 8,09768 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .0980 .09	0.01233 .01234 .01238 .01238 0.01239 .01243 .01244 .01244 .01244 .01244 .01244 .01251 .01251 .01255 .01255 .01255 .01255	8,12419 12473 12528 12582 8,12681 12691 12745 12799 8,12853 12907 12961 13015 43060 43123 13177 13231 8,13285 13332	0.01331 .01333 .01336 .01336 .01339 .01331 .01331 0.01314 .01316 .01318 .01319 0.01351 .01356 6.01356	8.15622 15674 15726 15779 8.1583 15935 15935 15935 16941 16196 8.16238 16300 16452 16404 8.16156 9.508	0.01433 .01435 .01436 .01438 0.01447 .01443 .01445 0.01447 .01459 0.01451 .01459 0.01451 .01459 0.01451 .01459	8,18709 18759 18810 18860 8,18910 18961 19041 19062 8,19412 19262 8,19343 19063 8,19343 19063 8,19543 19063 8,19543 19063	0.01538 .01540 .01542 .01544 0.01546 .01547 .01557 .01553 .01555 .01558 .01560 .01564 .01563	8,21658 21737 21785 21831 8,21832 21980 22029 8,22077 22126 22175 22223 8,22272 22520 22508 22117 8,20272 22520 2258 22117 8,20272	0.01618 .01650 .01651 .01653 .01655 .01657 .01661 0.01663 .01668 0.01670 .01671 .01672	58 56 54 52 50 48 46 44 42 30 58 56 54 56 54 56 56 56 56 56 56 56 56 56 56 56 56 56
0+15 2 3+16 6 8+17 10 12+18 11 16+19 18 20+20 17 1+21 30 20+23 30 20+23	8,09092 ,09119 ,09205 ,09265 ,09361 ,09374 ,09374 ,09487 8,09543 ,09600 ,09712 ,09600 ,09725 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768 ,09768	0.01233 .01234 .01236 .01238 .01241 .01243 .01244 .01243 .01244 0.01216 .01237 .01257 .01253 .01253 .01257 .01257	8,12419 ,12473 ,12528 ,12582 8,12636 ,12691 ,12745 ,12799 8,12853 ,12907 ,12961 ,13015 ,13060 ,14123 ,13177 ,13231 8,13285 ,13392	0.01331 .01333 .01334 .01336 .01339 .01334 .01316 .01316 .01316 .01353 .01353 .01353 .01356 .01360	\$.15622 .15674 .15726 .15779 \$.15831 .15835 .15935 .15935 .16940 .16092 .16141 .16196 \$.16248 .16300 .16352 .16404 .16466 .16568 .6575	0.01133 .01435 .01136 .01148 0.01441 .01145 .01145 .01448 .0155 .0155 .0155 .0155 .0155 .0165 .0165 .0166	8,18709 18759 18810 18860 8,18910 18961 19061 19162 19263 8,19313 19363 19463 8,19513 19363 19363 19363 19363	0.01538 .01540 .01542 .01544 0.01517 .01551 0.01553 .01555 0.01562 .01562 .01565 0.01567	8,21658 21737 21785 21831 8,2183 21932 21980 22029 8,22077 22125 22223 8,22272 22520 22520 225417 8,22672 225417 8,22672 225417 8,22672 225417 8,22672 225417 8,22672 225417 8,22672 225417 8,22672 225417 8,22674 22564 22564	0.01648 .01650 .01651 .01653 0.01655 .01659 .01661 .01663 .01664 .01672 .01670 .01670 .01670 .01670 .01670 .01670	60 588 56 54 52 50 486 444 42 42 68 64 64 64 64 64 64 64 64 64 64 64 64 64
0+15 2+16 6 8+17 10 12+18 13 14+19 18 20+20 27 +21 30 37+21 37 37+21	8,09092 ,09119 ,09205 ,09205 ,09318 ,09314 ,09487 8,09513 8,09513 8,09516 ,09712 8,09768 ,09716 8,09516 ,09716 8,09516 ,09716 8,09516 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,	0.01233 .01234 .01236 .01238 0.01238 0.01241 .01244 .01244 .01247 .01219 .01252 .01253 .01253 .01253 .01253 .01253 .01260 .01260	8,12419 12473 12528 12582 8,12636 12691 12745 12799 8,12853 12907 12961 13015 13069 13123 13177 13231 8,13285 1339 1339 1339 1339 1339 1339 1339 133	0.01331 .01333 .01336 0.01336 0.01338 .01339 .01314 .01316 .01316 .01316 .01353 .01353 .01354 .01356 .01360 .01360	8.15622 15674 15726 15779 8.1583 15883 15985 5.16040 16041 16044 1606 16052 16061 16052 16061 16052 16061 16058 6576 9774	0.01433 .01435 .01436 .01438 0.01440 .01412 .01447 .01445 .01450 .01450 .01450 .01450 .01450 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 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,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 ,09716 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,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 ,09712 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,	0.01618 .01650 .01653 .01653 .01655 .01659 .01661 .01666 .01668 .01668 .01672 .01672 .01671 .01686 .01687 .01683 .01683 .01687	588 566 534 552 550 488 464 442 450 588 56 54 57 57 57 57 57 57 57 57 57 57 57 57 57
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.2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .2232, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322, .22322,	0.01618 .01650 .01651 .01653 0.01655 .01657 .01659 .01661 .01668 0.01669 .01670 .01671 .01676 .01688 0.01679 .01679 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01689 .01699 .01691 .01691 .01691	600 588 566 548 560 588 566 548 466 549 566 566 566 566 566 566 566 566 566 56

8         Log. Hev         Nat. Hav         Log. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Nat. Hav         Na		1:0:	15° 0'	1h 1m	15° 15′	Ih :'m	15° 30′	1h 3m	15° 45′	12.40	16° 0′	
f         23164         0.1705         24591         .0.1762         2.20914         .0.1890         2.2735         .0.1875         2.3744         .0.1939         6.8           J         2.3212         .0.1707         .24688         .0.1764         .20404         .0.1821         .27390         .0.1879         .25779         .0.1939         6.8           5         .23250         .0.1708         .24685         .0.1764         .20004         .0.1823         .27466         .0.1882         .25823         .0.1914         .0.6           6         .23250         .0.1708         .24766         .0.101         .0.1824         .27489         .0.1833         .28584         .0.1914         .0.1834           7         .23307         .0.1712         .24775         .0.1078         .0.1835         .0.1828         .2.5754         .0.1883         .2.8988         .0.1944         .0.1834           9         .23355         .0.1712         .2.2470         .0.1688         .2.1556         .0.1829         .0.1945         .2.2554         .0.1945         .2.2936         .0.1945         .2.2           10         .23370         .0.1713         .2.3480         .0.1712         .2.22490         .0.1828         .2.2925	s	Log, Hav.	Nat. Hav.			Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.			s
I         23164         0.0765         24591         .01762         2.0994         .01819         2.2735         .01878         .23744         .01939         .98           ±         1         2.3212         .01707         .24638         .01764         .20400         .01821         .27420         .01890         .22759         .01939         .98           5         .23250         .01708         .24685         .01764         .20007         .01832         .27466         .01883         .28830         .01941         .66           5         .23257         .01709         .24768         .01666         .2010         .01824         .27489         .01833         .28848         .01943         .46           7         .23307         .01710         .24732         .01767         .20333         .01825         .25754         .01883         .28848         .01943         .47           9         .23355         .01712         .24717         .01769         .20179         .01827         .27554         .01885         .28958         .01947         .00           17         .23340         .01714         .22482         .01772         .222330         .01828         .29803         .01945 <th< th=""><th>0</th><th>8.23140</th><th>.01704</th><th>8.24567</th><th>.01761</th><th>8,25971</th><th>.01818</th><th>8.27352</th><th>.01877</th><th>8.28711</th><th>.01937</th><th>60</th></th<>	0	8.23140	.01704	8.24567	.01761	8,25971	.01818	8.27352	.01877	8.28711	.01937	60
5         23212         0.1707         24688         0.1764         2.0940         0.1912         27.420         0.1889         2.2579         0.1941         0.55           5         23259         0.1708         2.2465         0.1765         2.2607         0.1823         2.7466         0.1882         2.2883         0.1914         3.6           6         23253         0.1709         2.4768         0.1016         2.2101         0.1824         2.7489         0.1883         2.2883         0.1914         3.6           7         2.3307         0.1712         2.4779         0.1768         2.0160         0.1826         2.7514         0.1883         2.9888         0.1945         9.9           2.3555         0.1712         2.2479         0.1768         2.0160         0.1828         2.2554         0.1858         2.2554         0.1945         2.4           19         2.2379         0.1713         2.3480         0.1717         2.0226         0.1829         2.2750         0.1858         2.2958         0.1947         2.9           15         2.2457         0.1715         2.3480         0.1721         2.2959         0.1830         2.2750         0.1858         2.2950         0.1947	1			.24591	.01762	.25994	.01819	.27375	.01878			
+ 1 €         5         202250         0.1796         8.24661         .01764         8.2061         .01765         20877         .01765         .20877         .01766         .01765         .20877         .01766         .01833         .22851         .01799         .24768         .01767         .20180         .01834         .22883         .01891         .2476           7         .22837         .01711         8.24755         .01767         .20183         .01883         .22886         .01941         .0187           9         .23555         .01712         .22479         .01769         .22179         .01875         .27574         .01886         .228913         .01914         .01           10         .23379         .01713         .22866         .01771         .02626         .01879         .27574         .01886         .28913         .01946         .21           17         .23403         .01714         .22856         .01771         .02626         .01839         .27560         .01883         .28980         .01948         .20           18         .23457         .01715         .22853         .01717         .22856         .01832         .27587         .01886         .29880         .01934								.27398				
5         20209         0.01709         24485         0.01766         2010         0.01821         27489         0.01882         28828         0.01943         35           7         22307         0.01700         24708         0.01825         2.27392         0.01831         35           9         23305         0.01711         8.24759         0.0168         2.0166         0.0180         0.01835         2.27537         0.0183         0.9131         35           9         23305         0.01731         2.2490         0.0170         2.0230         0.0182         2.27557         .01886         2.9913         0.01914         7           19         2.2403         0.01714         2.2486         0.0171         2.0230         0.0183         2.7603         0.01885         2.29896         0.01919         37           1,4         2.2447         0.0171         2.24873         0.0172         2.9225         0.0183         2.7603         0.01888         2.29868         0.01919         37           1,5         2.24475         0.01712         2.4873         0.0172         2.9225         0.0183         2.7601         0.01883         2.9200         0.01919         32           1,6												57
6   2233   0.1709   24732   0.166   20110   0.1824   27489   0.1883   28846   0.1944   54   7   23367   0.1714   5.4755   0.1768   5.2156   0.1826   5.27512   0.1884   28886   0.1944   54   7   2335   0.1714   5.4755   0.1769   2.017   0.1827   2.7557   0.1885   2.2881   0.1945   54   10   23379   0.1713   2.4876   0.1769   2.017   0.1827   2.7557   0.1886   2.29513   0.1946   57   11   23403   0.1714   2.4826   0.1771   2.0203   0.1828   2.7589   0.1887   2.2896   0.1949   47   13   2.4445   0.1715   5.24850   0.1771   2.0262   0.1829   2.7603   0.1888   2.2958   0.1948   47   14   2.4875   0.1717   2.4876   0.1773   2.2252   0.1831   2.7648   0.1890   2.2003   0.1536   47   15   2.3495   0.1718   2.4873   0.1773   2.2252   0.1831   2.7648   0.1890   2.2003   0.1536   47   15   2.3495   0.1719   5.24844   0.1775   2.6318   0.1833   2.7769   0.1891   2.9024   0.1534   47   17   2.2546   0.1729   2.2497   0.1775   2.6318   0.1833   2.77717   0.1891   2.9022   0.1834   47   17   2.2546   0.1729   2.4991   0.1777   2.5364   0.1835   2.27739   0.1893   2.9022   0.1834   47   18   2.25570   0.1721   2.4991   0.1778   2.6838   0.1836   2.27789   0.1894   2.9002   0.1834   2.7648   0.1836   2.2789   0.1838   2.2916   0.1834   2.2084   0.1835   2.2789   0.1835   2.2185   0.1836   2.2834   0.1838   2.2836   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1836   2.2838   0.1946   0.1836   2.2838   0.1946   0.1836   2.2838   0.1946   0.1836   2.2838   0.1946   0.1946   0.1836   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846   0.1846												
7         23/307         0.01710         24732         0.0168         20185         0.0184         2.8818         0.0114         8.34755         0.0168         2.0155         0.0185         5.27531         0.0185         2.2851         0.0113         2.4479         0.0169         2.0139         0.0183         2.27557         0.1886         2.8913         0.01917         2.02           17         2.3403         0.0113         2.4806         0.0171         2.6260         0.0829         2.27603         0.0887         2.8945         0.01917         2.02           18         2.3411         0.01716         2.24856         0.01721         2.6226         0.0839         2.27603         0.0888         2.8958         0.01941         4           19         2.3415         0.0171         2.24877         0.0171         2.6285         0.0183         2.27681         0.01883         2.8958         0.01941         4           15         2.3416         0.0171         2.4897         0.0172         2.62831         0.0183         2.27613         0.0183         2.27613         0.0183         2.27613         0.0183         2.27614         0.0183         0.0172         2.24967         0.0177         2.6318         0.0183										.28823	.01943	
+ 2 / 9         2.3355         .01711         S.24755         .01769         2.01769         .0170         .01825         .01733         .01769         .0170         .01825         .01733         .01836         .29351         .01713         .24803         .01770         .01829         .27559         .01887         .28866         .01941         .01714         .24803         .01771         .26226         .01829         .27508         .01887         .28856         .01941         .49           + 37         8.23427         .01715         .24850         .01772         .26229         .01831         .27626         .01889         .25808         .01841         .49           1/4         .23475         .01717         .24879         .01772         .26229         .01831         .27626         .01889         .29003         .01933         .47         .44         .23475         .01719         .24941         .01776         .262341         .01833         .27620         .01832         .29001         .01933         .47         .42         .25253         .01791         .24941         .01776         .262341         .01833         .27730         .01894         .29002         .01933         .47         .25         .25231         .01796												
9												
17												
17												
+3*         8.23+27         0.01715         8.24850         0.0172         8.26249         0.01830         8.27026         0.01890         8.25080         0.01918         48           1.4*         2.23451         0.0171         2.4887         0.0174         2.2625         0.1832         2.7671         0.01890         2.2005         0.01931         7.4           1.5*         2.23499         0.01718         2.4967         0.01776         2.6318         0.01831         2.7671         0.01892         2.29048         0.01731         0.01777         2.6361         0.01833         2.27671         0.01892         2.29048         0.01830         3.27671         0.01892         2.29048         0.01833         4.2771         0.01833         2.27717         0.01833         2.27717         0.01833         2.27717         0.01831         2.2612         0.01841         2.20842         0.01843         2.27723         0.01831         2.2612         0.01841         0.01833         2.27727         0.01833         2.27723         0.01831         2.2612         0.01843         0.01833         2.27727         0.01852         0.01843         0.01833         2.27723         0.01833         2.27833         0.01833         2.27823         0.01833         2.27833												
13	+ 3'	8.23427	.01715		.01772				.01889			
15		.23451	.01716							.29003		
+ 4'         8.23523         .01719         8.24944         .0176         8.29314         .01834         8.27717         .01893         8.29970         .01933         4.7           18         .23570         .01721         .24967         .01777         .26364         .01835         .27762         .01895         .29115         .91855         42           19         .23394         .01722         .25014         .01779         .26411         .01837         .27755         .01896         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01956         .29137         .01966         .01724         .25064         .01818         .29138         .01956         .2926         .01960         .2926         .01960         .2926         .01960         .2926         .01960         .2926         .01960         .2927         .2356         .01848         .282588         .01910         .29297         .01960         .3936												
17									.01893		.01952	
18         23504         .01721         .24991         .01778         .26388         .91836         .27762         .01896         .29115         .91955         4.7           +         5'         8.23618         .01723         8.25037         .01808         8.2644         .01838         8.27807         .01897         8.29159         .01956         4.7           ± 1         .23642         .01724         .25061         .01781         .26457         .01839         .27830         .01898         .29162         .01935         .98           ± 23         .23660         .01724         .25084         .01782         .26480         .01841         .27853         .01899         .29169         .01903         .29264         .01935         .38           ± 23         .23660         .01725         .25108         .01783         .26508         .01841         .27876         .01900         .29260         .01900         .29260         .01900         .29271         .01960         .7           ± 6'         8.23713         .01726         8.25178         .01780         .26572         .01844         .27944         .01903         .29239         .0164         .6         .27872         .27375         .01780 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
19												
+ 5'         S. 23612         .0123         S. 25037         .01780         S. 26434         .01839         S. 2787         .01897         S. 29182         .01937         29           21         23666         .01724         .25061         .01781         .26457         .01839         .27850         .01898         .29182         .01939         .28366         .01725         .25108         .01782         .26480         .01840         .27853         .01899         .29204         .01939         .38           23         23690         .01725         .25108         .01783         .26503         .01841         .27876         .01900         .29264         .01900         .2926         .01900         .2926         .01900         .2926         .01900         .2926         .01900         .29261         .01901         .66         .23761         .01728         .25178         .01786         .26572         .01841         .27944         .01902         .29271         .01662         .34         .279         .23850         .01730         8.52255         .01785         .26595         .01846         8.27989         .01903         .29293         .01663         .34         .23802         .01731         .25248         .01789         .266915												
21         23642         01724         25061         01781         26457         01839         27830         .01888         2.9182         .01889         23         .01800         .27366         .01724         23084         01783         .26503         .01841         .27876         .01900         .29246         .01959         .88           23         .23690         .01725         .25108         .01784         .26526         .01841         .27866         .01900         .29249         .01961         .36           25         .23737         .01727         .25155         .01785         .26526         .01841         .27941         .01903         .29249         .01961         .36           26         .23761         .01729         .25178         .01786         .26572         .01845         .27966         .01904         .29316         .01963         .34           27         8.23809         .01731         .25225         .01788         .26618         .01846         8.27989         .01905         .82930         .01933         .25225         .01789         .26641         .01847         .28012         .01906         .29360         .01966         .32         .01966         .29360         .01668         .												
22         23696         01724         25084         01782         26480         01840         27856         .01589         29204         .01959         88           23         23690         .01725         25108         .01783         .26503         .01841         .27876         .01900         .29266         .01960         .67           25         .23713         .01727         .25135         .01785         .26519         .01843         .27914         .01903         .292971         .01961         .36           26         .23761         .01728         .25178         .01786         .26519         .01843         .27914         .01903         .29291         .01962         .35           27         .23785         .01739         .25202         .01781         .26505         .01846         8.27989         .01903         .29231         .01964         .33           29         .23889         .01731         .25248         .01789         .26661         .01846         8.27989         .01906         .29330         .01966         .34           30         .23850         .01731         .25248         .01789         .26618         .01849         .28012         .01960         .29383												
23         23690         01725         25108         91783         26503         .01841         .27876         .01906         .2926         .01960         .37           + 6*         8.23713         .01726         8.25131         .01784         8.26526         .01842         8.27898         .01901         8.29249         .01961         36           26         .23761         .01729         .252505         .01786         .26572         .01841         .27941         .01903         .29933         .01963         34           27         .23785         .01779         .25202         .01787         .26661         .01847         .27966         .01904         .29316         .01966         .33           29         .23889         .01731         .25248         .01789         .26661         .01847         .28034         .01907         .29380         .01665         .34           30         .23880         .01733         .25257         .01789         .266710         .01850         8.28040         .01734         8.25319         .01791         .26687         .01849         .28057         .01908         .29427         .01969         .28           33         .23928         .01734         .825319<		23666										
+ 67         8.23713         01726         8.25131         01784         8.25266         01842         2.27888         .01901         8.29249         .01962         35           26         2.3761         .01728         .25178         .01786         .26549         .01843         .27921         .01902         .29271         .01962         .55           27         .23785         .01730         .25202         .01787         .26595         .01845         .27944         .01903         .292316         .01964         .33           29         .23889         .01730         .252525         .01788         .26618         .01846         .287899         .01955         .29388         .01964         .33           30         .23856         .01731         .252525         .01789         .26641         .01847         .28012         .01906         .29360         .01966         .31           31         .23880         .01731         .252525         .01789         .26641         .01847         .28054         .01908         .29460         .01966         .31           33         .23928         .01733         .252525         .01780         .268710         .01850         .828094         .01908												
25         23781         01723         25155         01785         26549         .01843         .27941         .01902         .29271         .01962         .85           26         .23761         .01728         .25178         .01786         .26572         .01841         .27944         .01903         .29293         .01963         .34           27         .23785         .01739         .25202         .01877         .26595         .01845         .27966         .01904         .29316         .01963         .34           29         .23829         .01731         .25225         .01789         .26618         .01846         8.27999         .01906         .29300         .01666         .37           31         .23880         .01731         .25230         .01731         .252610         .01906         .29060         .01906         .29405         .01968         .29           31         .23880         .01731         .25230         .01731         .252300         .01731         .252300         .01731         .252300         .01731         .252300         .01731         .25342         .01792         .26733         .01831         .28080         .01908         .29449         .01902         .01902 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
27         23755         .01729         .25202         .01787         .26505         .01845         .27966         .01904         .29316         .01964         .33           + 77         8.23809         .01730         8.25225         .01788         8.26618         .01846         8.27989         .01905         8.29338         .01965         32           30         .23850         .01731         .25248         .01789         .26664         .01841         .28012         .01906         .29383         .01967         30           31         .23880         .01733         .25255         .01780         .26664         .01848         .28041         .01907         .29383         .01967         30           4         8         8.23904         .01734         8.25319         .01791         .26773         .01850         .28002         .01908         .29427         .01960         .28           33         .23928         .01735         .25342         .01793         .26773         .01853         .28102         .01910         .29477         .01960         .28           35         .23975         .01733         .25365         .01793         .26779         .01853         .28102         .01911								.27921				
+ 77         8.23809         .01730         8.25225         .01788         8.26618         .01846         8.27989         .01905         8.29338         .01966         3.2           29         23885         .01731         .25248         .01789         .26641         .01847         .28012         .01906         .29360         .01966         .37           30         .23856         .01732         .25257         .01789         .26641         .01848         .28034         .01907         .29383         .01965         .37           31         .23880         .01733         .25255         .01790         .26687         .01849         .28050         .01908         .29405         .01868         .29           34         .23931         .01731         .253319         .01731         8.26710         .01850         8.28000         .01908         8.29477         .01869         28           35         .23928         .01731         .25335         .01732         .26756         .01832         .28147         .01912         .29472         .01971         .26           37         .24022         .01733         .25435         .01736         .26825         .01853         .28147         .01912         .2						.26572						34
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			.01729		.01787	.26595	.01845	.27966	.01904	.29316	.01964	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
31         23880         01731         25295         01790         26687         .01849         28057         .01908         2.9405         .01968         29           + 8'         8.23904         .01734         8.25319         .01791         8.26710         .01850         8.28080         .01909         8.29427         .01969         28           33         .23928         .01735         .25342         .01792         .26736         .01852         .28120         .01910         .29472         .01970         26           34         .23951         .01737         .25385         .01794         .26779         .01853         .28147         .01912         .29494         .01971         .26           + 9'         8.23999         .01738         8.25112         .01795         8.26802         .01854         8.28170         .01913         8.29516         .01973         .24           37         .24022         .01740         .25459         .01797         .26815         .01857         .28213         .01915         .29539         .01974         .24           39         .24070         .01742         8.255050         .01799         8.26849         .01857         .28283         .01916         .29												
Heat												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 9'	8.23999						8.28170	.01913	8.29516	.01973	24
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37	.24022	.01739	.25435	.01796	.26825	.01855	.28193	.01914			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.24236										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	47		.01748	.25669		.27055	.01864	.28418	.01924	.29761	.01984	1.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 12'		.01749	8.25692	.01807	8.27078	.01865	8.28441	.01925	8.29783	.01985	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		.24307										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				.25738				.28486				
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											.01994	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			.01759					.28666	.01935	.30005	.01993	2
			.01760				.01876					
22h 59m 22h 58m 22h 58m 22h 50m 2 h 50m	+ 15'	8,24567	.01761	8.25971	.01818	8.27352	.01577	8 28711	.01937	8.30049	.01995	11
210 50m 210 58m 215 77m 2 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		-	**					1		1		1
		22%	59 m	21h	58 m	1 1/1	17.74	1	ery t	1		

# TABLE 45.

	1h 5m 16 15'	In 6 m 16° 30'	IA 7m 16	6 45'	1580	17° 0′	15.9m	17 15	
s	Log. Hay.' Nat. Hay	Log. Hav. Nat. Hav	Log. Hav. 5	Sat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	S
U	8.3001901998	8.31366   <b>.02059</b>	8.32663	.02121	8.33940	.02155	8.35199	.02249	60
1	30071 .01999	.31388 .02060	.32684	.02155	.33962	.02156	.35220	.02250	59
2 3	.30093 .02000 .30115 .02001	.31410   .02061 .31431   .02062	.32706	.02124 .02125	.33983	.02157	.35241 .35261	.02251 .02252	38 57
+ 1′	8.30137 .02002	8.31453 .02063	8.32749	.02126	8.34025	02159	8.35252	.02253	56
5	,30159 .02003	.31475 .02064	.32770	.02127	,34046	.02190	,35303	.02254	55
6	.30182 .02004	.31497 .02065	.32792	.02128	.34067	.02191	.35324	.02255	54
7	.30204 .02005	.31518 .02066	.32813	.02129	.31088	.02192	.35345	.02257	<i>33</i>
+ 2'	8.30226 .02006	8.31540 .02067	8.32834	.02130	8.3410)	.02193	8.35365	.02255	52
9	.30245 .02007	.31562 .02065	.32856	.02131	.04130	.02194	.35386	.02259	51
10 11	.30270 .02008 .30292 .02009	.31584 .02069 .31605 .02070	.32877	.02132	.34152	.02195	.35407 .35428	.02260	50 49
+ '' 3'	8.30314 .02010	8.31627 .02071	8.32920	.02134	5.34194	02195	8.35449	05565	48
1.3	.3033602011	31649   .02072	.32941	.02134	.34215	.02199	.35469	.02263	47
14	.30358 .02012	.31670 .02074	.32963	.02136	.34236	.02200	.35490	.02261	46
15	,30380 .02013	.31692 .02075	.32984	.02137	.34257	.02201	,35511	.02265	45
+ 4	S.30402   .02014	8.3171402076	8.33006 +	.02138	8,34278	.02303	8.35532	.02266	44
17	.30424 .02015	.31735 .02077	.33027	.02139	.34299	.02203	.35552	.02267	43
18	.30146 .02016	.31757   .02078	.33048	.02140	.34320	.02204	.35573	.02265	42
- 19	.30468 .02017	.3177902079	.33070	.02141	.34341	.02205	.35594	.02270	-31
+ 5	8,30190 .02018 .30512 .02019	8.31800 .02080 .31822 .02081	8.33091	.02142	8.34362	.02206	8.35614	.02271	40
21 23	30534 .02020	.31844 .02082	.33112	.02143	.34383	.02208	.35635	.02273	39 38
2.8	.30556 .02021	.31865 .02083	.33155	.02146	.34425	.02209	.35677	.02274	37
+ 6'	8.30578 .02022	8.31887 .02084	8.33176 [	.02117	8.34416	.02210	8.35697	02275	36
25	.30600 .02023	.31909 .02055	.33198	.02118	.34467	.02211	.35718	.02276	35
26	.30622 .02024	.31930 .02086	.33219	.02119	.34488	.02212	.35739	.02277	34
27	.30644 .02025	.3195202087	.33240	.02150	34509	.02214	.35759	-05552	3.3
+ 7	8.30666 .02026	8.31974 .02088	8.33262	.02151	8.34530	.02215	8.35780	.02279	32
29	.30688 .02027	.31995 .02089	.33283	.02152	.34551	.02216	.35801	.02250	81
30 31	.30710 .02028 .30732 .02029	.32017 .02090 .32039 .02091	.33304	.02153	.34572 .34593	.02217	35821 35842	.02281	30 29
+ 8'	8.30754 : .02030	8.32060 .03093	8.33347	.02155	8.34614	.02219	8.35863	05521	28
3.3	.30776 .02031	.32082 .02093	.33368	.02156	.31635	.02220	.35883	.033.5	27
34	.30798 .02032	.32103 .02091	.33389	.02157	.34656	.02221	.35904	.02286	26
35	.30820 .02033	.32125 .02095	.33411	.02158	.34677	.02223	.35925	.02287	25
+ 9'	8.30842 .02034	8.32147 .02096	8.33432	.02159	8.34698	.02223	8.35945	.05528	24
57	.30863 .02035	.32168 .02097	.33453	.02160	.34719	.02224	.35966	.02289	23
38 39	.30885 .02036 .30907 .02037	.32190 .02098 .32211 .02099	.33474	.02161	.34740 .34761	.02225	.35987	.02290	22
+ 107	8.30929 <b>.02038</b>	8.32233 .02101	8.33517	.02164	8.34782	.02227	8.36028	.02292	20
41	30951 .02039	.32254 .02102	,33538	.02165	.34803	.02223	36015	.02293	19
42	.30973 .02040	.32276 .02103	.33559	.02166	.34823	.02230	,36069	.02295	18
4.5	.30995 .02012	.32297 .02104	,33580	.02167	.31844	.02231	36090	.02296	17
+ 11'	8.31017 .02013	8.32319 .02165	8,33602	.02168	8.34865	.02232	8.36110	.02297	16
4.5	.31039 .02011	.32341 .02106	.33623	.02169	.34886	.02233	.36131	.02298	15
46 47	.31060 .02045 .31082 .02016	.32362 .02107 .32381 .02108	.33641	.02170 .02171	.34907 .34928	.02234	.36151 .36172	.02300	13
+ 12'	8.31101 .02017	8,32405 .02109	8,33686	.02171	8.34949	02236	8.36193	.02301	13
49	.31126 .02018	32127 .02110	.33705	.02173	.34970	.02237	.36213	.02302	11
50	31118 .02019	.32418 .02111	.33729	.02174	.34991	.02238	.36231	.02303	10
51	.3137002050	.32470 .02112	.33750	.02175	.35011	.02239	36251	.02304	9
+ 13'	8.31192   .02051	8.32491 .02113	8.33771	.02176	8 35032	.02216	8 36275	.02305	8
53	.31213 .02052	.32513 .021H	.33792	.02177	.35053	.02211	.36295	.02307	7
54	.31235 .02053	.32531 .02115	.33814	.02178	.35074	.02213	.36316	.02308	6 5
55	.31257 .02051	.32556   .02116	.33835	.02179	,35095	.02311	36337 8 36357	.02309	
+ 14'	8.31279 .02055 .31301 .02056	8.32577   .02117 .32599   .02118	8,33856	.02181	8 35116 .35137	.02215	36378	.02311	3
58	.31322 .02057	.32620 .02119	33898	.02183	.35157	.02217	36398	.02312	2
59	.31311 .02058	32612 .02120	33919	.02184	35178	.02218	.36119	.02313	1
+ 15'	8.31366 .02059	8.32663 .02121	8,33910	.02185	8 35199	.02219	S 36439	.02314	0
	224 547	224 58m	224.5	1.4		51n	323	5/-m	

TABLE 45.

	1h 10m	17 30'	1h 11m	17° 45′	7h 12m	18° 0'	1h 1.2m	IS° 15′	7 h 7 l m	15: 30'	1
s	Log. Hav.		Log. Hav.	Nat, Hav.			Log. Hav.		1		
									Log. Hav.	_	S
0 1	8.36439	.02314	8.37662 .37682	.02380	8.38867 .38886	.02447	8.40055 .40074	.02515	8.41226	.02584	60
	.36480	.02316	.37702	.02382	.38906	.02449	.40074	.02515	.41246 $.41265$	.02585	59 58
S	.36501	.02317	.37722	.02384	.38926	.02451	.40114	.02518	.41284	.02557	57
+ 1'	8.36521	.02319	8.37742	.02385	8.38916	.02452	8.40133	.02230	8.41304	.02588	56
5 6	.36542 .36562	.02320	.37763 .37783	.02386	.38966	.02453	,40153 ,40172	.02521	.41323 .41343	.02590 .02591	55
7	.36583	.02322	.37803	.02358	.39006	.02455	.40192	.02523	.41362	.02592	54 53
+ 2'	8.36603	.02323	8.37823	.02389	8.39026	.02456	8.40212	.02524	8.41381	.02593	53
9	.36624 .36644	.02324	.37843	.02390	.39046	.02457	.40231	.02525	.41401	.02594	51
10 11	.36665	.02325	.37864	.02391	,39066 ,39086	.02455	.40251 .40271	.02528	.41420	.02595	50 49
+ 3'	8.36685	.02327	8.37904	.02394	8.39105	.02161	8.40290	.02529	8.41459	.02598	48
13	.36706	.02328	.37924	.02395	.39125	.02162	.40310	.02530	.41478	.02599	47
14	:36726	.02329	.37944	.02396	.39145	.02463	,40329	.02531	.41497	.02600	46
$\frac{-15}{+4'}$	.36746 8.36767	.02331	.37964 S.37985	.02397	.39165 8.39185	.02464	.40349 8.40369	02532 02533	.41517	-02601	45
17	.36787	.02333	.38005	.02399	.39205	.62465	.40388	.02534	8.41536 $.41555$	.02603	44 43
18	.36808	.02334	.38025	.02400	.39225	.02467	.40408	.02536	.41575	.02605	43
19	.36828	.02335	.38045	02401	.39245	.02469	.40427	02537	41594	.02606	41
+ 5'	8.36849 .36869	.02336 .02337	8.38065 .38085	.02402	8.39264 ,39284	.02470	8.40447 .40467	.02538	8.41613 .41632	.02607	40 39
22	.36889	.02338	.38105	.02405	.39304	.02472	.40486	.02540	,41652	.02609	38
23	.36910	.02339	38126	.02406	.39324	.02473	.40506	02541	.41671	.02610	37
+ 6'	8.36930	.02340	8.38146	.02407	8.39344	.02474	8.40525	.02542	8,41690	.02612	36
25 26	.36951	.02342	.38166 .38186	.02408	.39364	.02475	.40545 .40564	.02541	,41710 ,41729	.02613 .02614	35 34
27	.36991	.02344	.38206	.02410	.39403	.02478	.40584	.02546	.41748	.02615	33
+ 7'	8.37012	.02345	8.38226	.02411	8.39423	02479	8.40603	.02547	8.41767	.02616	32
29	.37032	.02346	.38246	.02412	.39443	.02480	.40623	.02548	.41787	.02617	31
30 31	.37053 .37073	.02347 .02348	.38266 .38286	.02414	.39463	.02481	.40642 .40662	.02549 .02550	.41806 .41825	.02619	30 29
+ 8'	8.37093	.02349	S.38306	.03416	8.39502	.02483	8.40681	.02552	8.41845	-03631	28
33	.37114	.02350	.38326	.02417	.39522	.02484	.40701	.02553	.41864	.02622	27
34	.37134	.02351	.38346	.02418	.39542	.02486	.40721	.02554	.41883	.02623	26
35 + 9'	.37154 8.37175	.02353	38367	.02419	.39562 8.39581	.02487	.40740 8,40760	.02555	.41902 8.41921	.02624	25
37	.37195	.02355	.38407	.03421	.39601	.02489	.40779	.02557	.41941	.02627	23
38	.37215	.02356	.38427	.02423	.39621	.02490	.40799	.02559	.41960	.02628	22
39	.37236	.02357	38447	.02424	.39641	.02491	.40818	.02560	.41979	*03659	21
+ 10'	8.37256 .37276	.02358	8.38467 ,38487	.02425	8.39660 .39680	.02492	8.40837 ,40857	.02561	8.41998 .42018	.02630	20 19
42	.37297	.02360	.38507	.02427	.39700	.02495	.40876	.02563	.42037	.02633	18
43	.37317	.02361	.38527	.02428	.39720	.02496	.40896	.02564	,42056	.02634	17
+ 11'	8.37337	.02363	8.38547	.02429	8.39739	.02497	8.40915	.02565	8.42075	.02635	16
45 46	.37358 .37378	.02365	.38567 .38587	.02430 .02431	.39759	.02498	.40935 .40954	.02568	.42095 .42114	.02636	15 14
47	.37398	.02366	.38607	.02433	.39799	.02500	.40974	.02569	.42133	.02638	13
+ 13'	8.37419	.02367	8.38627	.02434	8.39818	.02501	8.40993	.02570	8,42152	.02639	12
49 50	.37439	.02368	.38647	.02435 .02436	.39838	.02503	.41013 .41032	.02571	.42171 .42190	.02641	11 10
50 51	.37479	.02370	.38687	.02437	.39877	.02505	,41052	.02573	.42210	.02643	9
+ 13'	8.37500	.02371	8.38707	.02438	8.39897	.02506	8,41071	.02575	8,42229	.02644	-8
53	.37520	.02372	.38727	.02439	.39917	.02507	.41090	.02576	.42248	.02645	7
54 55	.37540 .37560	.02374	.38747 .38767	.02440	.39937 .39956	.02508	.41110 .41129	.02577	.42267 .42286	.02646	6 5
+ 14'	8.37581	.02376	8.38787	.03413	8.39976	.02510	8.41149	02579	8.42305	.02649	4
57	.37601	.02377	.38807	.02444	.39996	.02512	.41168	.02580	.42324	.03650	3
58 59	.37621	.02378	.38827	.02445	.40015	.02513	,41187 ,41207	.02582	.42344	.02651	2
$\frac{-39}{+15'}$	.37641 8.37662	02380	$\frac{.38847}{8.38867}$	.02446	8,40055	.02514	8.41226	.02584	8,42382	-02653	0
"											
L	22 h	$49^{m}$	224	48m	224	47 m	22h	46 m	22 h	45m	ĺ

Page 826]

### TABLE 45.

	1h 15m	18 45"	1h 16m	19° 0′	1h 17m	19 15'	1h 18m	19° 30′	1h 19m	19° 45′	_
S	Log. H.	Nat Hav	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	\$
0	8.12352	.02653	5,43522	.02724	5.44647	.02796	8.15757	.02568	8.46852	.02941	60
1	.42420	.02655	.43541 .43560	.02725	.41665	.02797	.45775 .45791	.02569	.46871 .46889	.02942	59
2 3	.12420	.02657	.43578	.02728	.44654	.02799	.45812	.02871	.46907	.02945	58 57
+ 1'	8.42155	.02658	8,43597	.02729	8,14721	.02500		.02873	8.46925	.02946	36
5	.4_177	.02659	.43616	.02730	.44740	.02802	.45849	.02874	.46943	.02947	5.5
- 6	.42497 .42516	.02662	,43635 ,43654	.02731	.44758 .44777	.02503	.45867 .45885	.02875	,46961 ,46979	.02919	54
+ 3	8.42535	.02663	5. 13673	.02734	8.44796	.02505	8,45901	.02878	5,46998	.02951	33
T 9	. 12554	.02664	.43692	.02735	,44814	02.06	.45922	.02579	.47016	.02952	51
10	.42573	02665	. 13710	.02736	.44833	.02805	.45940	.02880	.47034	.02954	50
11	.42592	.03666	.43729	.02737	.44851	.02509	45959	.02551	.47052	.02955	49
+ 3	5.42611 .42630	.02669	8,43748 .43767	.02738	S.44870 .44889	.02510	8.45977 .45995	.02883	8.47070 .47088	.02956	48
1.4	.42649	.02670	43786	.02741	44907	.02512	.46014	.02585	.17106	.02958	46
15	.42668	.02671	,43805	.02742	.44926	.02514	.46032	.02886	.47124	.03960	45
+ 4	8.42687	.02672	8.43823	.02743	8.44944	.02515	8.46050		8.47142	.02961	44
17 18	.42706 .42725	.02673	.43842 .43861	.02744	.44963 .44981	.02516	.46069 .46087	.02889	.47160 .47178	.02962	43
19	.42745	.02676	43880	.02747	45000	.02818	.46105	.02591	.47197	.02965	41
+ 5	8.42764	.02677	8.43899	.02715	8.45018	.02820	8.46124	.02592	8.47215	.03966	40
21	.42783	.02678	.43917	.02749	.45037	.02821	.46142	.02893	.47233	.02967	39
23	.42802 .42821	.02679	.43936 .43955	.02750 .02751	,45055 ,45074	.02822	.46160	.02895	.47251 .47269	.02965	38
+ 6	8.42840	.02682	8.13974	.02753	8,45093	.02824	8.46197	.02597	8.47287	.02971	36
2.5	42859	.02683	,43992	.02754	.45111	.02826	.46215	.02898	.47305	.02972	35
26	.42878	.02684	.44011	.02755	.45130	.02827	.46233	.02900	.47323	.02973	34
27	.42897	.026%5	,44030	.02756	.45148	.02825	.46252 8.46270	.02901	.47341 8.47359	.02974	33
+ 20	8.42916	.02686	8.44049 44067	.02757	8.45167 .45185	.02829	.46255	.03903	.8.47377	.02977	31
30	.42954	.02689	.44086	.02760	.45204	.02832	46306	.02904	.47395	.02978	31)
31	.42973	.02690	.44105	.02761	_,45222	.02833	.46325	.02906	.47413	02979	29
+ s'	8.42992 .43011	.02691	8.44124	.02762	8.45241	.02834	8.46343 .46361	.02907	8 47431	.02981	28
33	.43011	.02693	.44142	.02763	.45259 .45278	.02836	.46379	.02909	.47449 .47467	.02983	27 26
35	.43049	.02695	44180	.02766	.45296	.02838	.46398	.02911	.47485	.02984	25
+ 9	8.43068		8.44199	.02767	8.45315	.02839	8.46416	.02912	8.47503	.02986	24
37 38	.43087 .43106	.02697	.44217	.02765	.45333 .45352	.02840	.46434 .46452	.02913	.47521 .47539	.02987	23
39	.43125	.02699	.44236	.02771	,45370	.02542	.46471	.02915	.47557	.02989	21
+ 10'	8.43144	.02700	8.44273	.02772	8,45388	.02811	8.16489	.02917	8.47575	.02991	20
41	.43163	.02702	.44292	.02773	. 45407	.02845	,46507	.02918	.47593	.02992	19
42 43	,43184 ,43200	.02703	.44314	.02771	.45425 .45444	.02816	.46525 .46544	.02919	.47611	.02993	18 17
+ 11	8,43219	.02703	S.44348	.03776	8,45462	.02549	8,46562	.02922	8.47647	.02996	16
7.5	42238	.02706	.44367	.02778	.45481	.02850	46580	.02923	.47665	.02997	15
36	. 43257	.02708	. 44386	.02779	.45499	.02851	.46598	.02924	.47683	.02998	14
5_	43276 8 43295	.02709	44404	.02780	.45518		.46616 8.46634	.02925	.47701	.03000	13
+ 12	1/314	.02710	8.44423	.02781	8,45536 ,45554	.02553	. 16653	.02926	8.47719 .47737	.03000	12 11
.50	12333	.02712	. 14460	.02784	45573	.02 556	.16671	.02929	.17755	.03003	10
.57	0.352	.02713	.44479	.02785	. , 45591	.02557	.46689	02930	47773	.03001	9.
-1- 13	S 13371	.92745	8.11198	.02786	8.15610		8 46707	.02931	8.47791 .47809	.03005	8 7
5 t 5 t	1.,190	.02716	.44516 .44535	.02787	.45628 .45646	.02559	16725 16744	.02933	.47809	.03007	6
55	11127	.02718	.14551	.02790	45665	.02862	.46762	.02935	17811	.03009	5
1 11	- 1 116	.02749	8 14572	.02791	8/15/683	.02863	8,46780	.02936	8.47862	.03010	-4
5.	1.05	.02721	14594 14610	.02792	.45702 .45720	.02564	. 46798 16816	.02935	.47880	.03012	3
1 1	1	.02723	11610	.02793	145720 F4708	.02567	16816	.02939	.47898	.03013	1
15		.02724	8 11617	.02796		02565	8,46852	.02941	8, 17931	.03015	0
	!			714		7 -	225	41"		40m	

	1h 20m	20° 0′	Ih 21m	20° 15′	1h 22m	20 30'	1h 35m	20° 45′	1 1h 24m	21:07	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
0	8.47934	.03015	8.49002	.03090	8.50056	.03166	8.51098	.03243	8,52127	.03321	60
1	.47952	.03017	.49020	.03092	.50074	.03168	.51115	.03215	.52144	.03355	59
2	.47970	.03018	.49037	.03093	.50091	.03169	.51132	.03246	.52161	.03324	58
3	.47988	.03019	.49055	.03094	.50109	.03170	.51150	.03247	.52178	.03325	57
+ 1'	8.48006	.03629	8.49073	.03995	8,50126	.03171	8.51167	.03245	8.52195	.03326	56
5	.48024	.03022	.49090	.03097	.50144	.03173	.51184	.03250	.52212	.03328	55
6	.48041	.03023	.49108	.03098	.50161	.03174	.51201	.03251	.52229	.03329	54
7	.48059	.03024	.49126	.03099	.50179	.03175	.51219	.03252	.52246	.03330	53
+ 2'	8.48077	.03025	8.49143	.03101	8.50196	.93177	8.51236	.03254	8.52263	.03331	52
9	.48095	.03027	.49161	.03102	.50214	.03178	.51253	.03255	.52280	.03333	51
10	.48113	.03028	.49179	.03103	.50231	.03179	.51270	.03256	.52297	.03334	50
11	.48131	.03929	.49196	.03104	.50248	.03180	.51287	.03257	.52314	.03335	49
	8.48149	.03030	8.49214	.03106	8.50266	.03182		.03259			
							8.51305		8.52331	.03337	48
13	.48167	.03032	.49232	.03107	.50283	.03183	.51322	.03269	.52348	.03338	47
1-4	.48184	.03933	.49249	.03108	.50301	.03184	.51339	.03261	.52365	.03339	46
15	.48202	.03034	.49267	03109	50318	.03186	.51356	.03263	.52382	.03341	45
+ 4'	8.48220	.03035	8.49284	.03111	8.50335	.03187	8.51374	.03264	8.52399	.03342	44
17	.48238	.03037	.49302	.03112	.50353	.03188	.51391	.03265	.52416	.03343	43
18	.48256	.03038	.49320	.03113	.50370	.03189	.51408	.03266	.52433	.02344	42
19	.48274	.03039	.49337	.03114	.50388	.03191	.51425	.93269	,52450	.03346	41
+ 5'	8.48292	.03940	8.49355	.03116	8.50405	.03193	8.51442	.03269	8,52467	.03347	40
21	.48309	.03042	,49373	.03117	.50422	.03193	.51459	.03279	.52484	.03348	39
22	.48327	.03043	.49390	.03118	.50440	.03194	.51477	.03272	.52501	.03350	38
23	.48345	.03044	.49408	.03119	.50457	.03196	.51494	.03273	.52518	.03351	37
+ 6'	8.48363	.03045	8.49425	.03121	8.50475	.03197	8.51511	.03274	8.52535	.03352	36
25	.48381	.03047	.49443	.03122	.50492	.03198	.51528	.03275	.52552	.03354	35
26	.48399	.03048	.49461	.03123	.50509	.03200	.51545	.03277		.03355	34
27		.03049		.03125		.03261	.51543	.03278	.52569		33
	.48416		.49478		.50527				.52585	.03356	
+ 7	8.48434	.03050	8.49496	.03126	8.50544	.03202	8.51580	.03279	8.52602	.03358	3.4
29	.48452	.03052	.49513	.631??	.50561	.03204	.51597	.03251	.52619	.03359	31
30	.48470	.03053	.49531	.03128	.50579	.03205	.51614	.03282	.52636	.03360	30
31	.48488	.03054	.49548	.03130	.50596	.03206	.51631	.03283	.52653	.03361	29
+ 8'	8.48505	.03055	8,49566	.03131	8.50614	.03207	8.51648	.03785	8.52670	.03363	28
33	.48523	.03957	.49584	.03132	.50631	.03209	.51655	.03286	.52687	.03361	27
34	.48541	.03958	.49601	.03133	.50648	.03210	.51682	.03287	.52704	.03365	26
35	.48559	.03959	.49619	.93135	.50666	.03211	.51700	.03288	.52721	.03367	25
+ 9'	8.48576	.03060	8.49636	.03136	8.50683	.03212	8.51717	.03239	8.52738	.03368	24
37	.48594	.03062	,49654	.03137	,50700	.03214	.51734	.03291	.52755	.03369	23
38	.48612	.03063	.49671	.03138	.50718	.03715	.51751	.03393	.52772	.03371	22
39	.48630	.03064	49689	.03140	.50735	.03216	51768	.03291	.52789	.03372	21
+ 10'	5.48648	.03065	8.49706	.03141	8.50752	.03218	8.51785	.03295	8.52806	.03373	20
		.03067		.03142		.03219	.51802	.03296		.03375	19
41	.48665		.49724		.50770				.52822		18
42	.48683	.03068	.49742	.03144	.50787	.03720	.51819	.03298	.52839	.03376	17
43	.48701	.03069	.49759	.03145	.50804	.03221	.51836	.03299	.52856	.03377	
+ 11'	8.48719	.03070	8.49777	.03146	8.50821	.03223	8.51854	.03309	8.52873	.03379	16
45	.48736	.03072	.49794	.03147	.50839	.03224	.51871	.03301	.52890	.03380	15
46	.48754	.03073	.49812	.03149	.50856	.03225	.51888	.03303	.52907	.03381	14
47	.48772	.03074	.49829	.03150	.50873	.03227	.51905	.03304	.52924	.03383	13
+ 12'	8.48789	.03075	8.49847	.93151	8.50891	.03228	8.51922	.03305	8.52941	.03384	12
49	.48807	.03077	.49864	.03152	.50908	.03229	.51939	.03307	.52958	.03385	11
50	.48825	.03078	.49882	.03154	.50925	.03230	.51956	.03308	.52974	.03386	10
51	.48843	.03079	.49899	.03155	.50943	.03232	.51973	.03309	.52991	.03388	9
+ 13'	8.48860	.03080	8.49917	.03156	8.50960	.03233	8.51990	.03311	8,53008	.03389	-8
53	.48878	.93082	.49934	.03157	.50977	.03234	.52007	.03312	.53025	.03390	7
54	.48896	.03083	.49952	.03159	.50994	.03236	.52024	.03313	.53042	.03392	6
55	.48914	.03084	.49969	.03160	.51012	.03237	.52041	.03314	.53059	.03393	5
		.03085	8.49987	.03161	8.51029	.03238	8.52058	.03316	8,53076	.03394	4
+ 14	8.48931				.51046	.03239		.03316	.53076	.03394	
57	.48949	.03087	.50004	.03163			.52076	.03318		.03397	3
58	.48967	.03088	.50022	.03161	.51063	.03241	.52093		.53109		3
59	.48984	.03089	.50039	03165	.51081	.03242	.52110	.03320	.53126	.03398	1
+ 15′	8.49002	.03090	8.50056	.03166	8.51098	.03243	8.52127	.03321	8.53143	.03400	0
	l		<del></del>		0.01			0.000		0.500	
	22h.	39m	22h	38m	22h	37m	22h	56m	22h	35m	

### TABLE 45.

	1h 25m	21° 15′	1h 26m	21° 30′	1h 27m	21° 45′	1h 28m	22° 0′	1h 29m	22° 15′	"
S	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
0	8.53143	.03100	8.54147	.03179	8.55139	.03560	8.56120	.03641	8.57089	.03723	60
1	.53160	.03401	.54164	.03450	.55156	.03561	.56136	.03642	.57105	.03724	55
2	.53177	.03402	.54180	.03482	55172	.03562	.56152	.03644	.57121	.03726	53
.3	.53193	.03101	.54197	.03483	.55189	.03564	56169	.03645	.57137	.03727	57
+ 1'	8,53210	.03405	8.54214	.03454	8,55205	.03565	8.56185	.03646	8.57153	.03728	56
5	.53227	.03106	.54230	.03486	.55221	.03566	.56201	.03648	.57169	.03730	53
6	.53244	.03108	.54247	.03487	55238	.03568	.56217	.03649	.57185	.03731	5.
7	.53261	.03409	.54263	.03488	.55254	.03569	.56233	03650	.57201	03733	5.
+ 2'	8.53277	.03110	8.54280	.03490	8.55271	.03570	8.56250	.03652	8.57217	.03734	5
9	.53294	.03411	.54297	.03491	.55287	.03572	.56266	.03653	.57233	.03735	5
10	.53311	.03413	.54313	.03492	.55303	.03573	.56282	.03654	.57230	.03737	5
11	.53328	.03414	54330	.03494	.55320	.03574	56298	.03656	.57266	.03738	4
+ 3'	8.53345	.03415	8.54346	.03195	8,55336	.03576	8.56315	.03657	8.57282	.03740	4
13 14	.53361	.03417	.54363 .54380	.03496	.55353 .55369	.03577	.56331	.03659	.57298	.03741	-5
15	.53378 .53395	.03418	,54396	.03498	.55385	.03578	.56347 56363	.03660	.57314	.03742	-5
+ 4'	8.53412		8.54413	.03500	8.55402	-03581	8.56379				-4
17	,53429	.03421	.54429	.03500	.55418	.03582	.56396	.03663	8.57346	.03745	1 4
18	.53445	.03423	54446	.03503	.55435	.03544	.56412	.03665	.57362 .57378	.03746	4.
19	.53462	.03425	.54462	.03504	.55451	.03585	.56428	.03667	.57394	.03749	3
- 5'	8.53479	.03126	8.54479	.03504	8.55467	.03587	8.56444	03668	8.57410	.03751	4
21	.53496	.03427	.54496	.03507	.55484	.03588	.56460	.03669	.57426	.03752	3
22	.53512	.03129	.54512	.03509	,55500	.03589	.56477	.03671	.57442	.03753	3
23	.53529	.03430	.54529	.03510	,55516	.03591	.56493	.03672	57458	.03755	3
- 6'	8.53546	.03431	8,54545	.03511	8.55533	.03592	8.56509	03674	8.57474	.03756	3
25	.53563	.03433	.54562	.03513	.55549	.03593	.56525	.03675	.57490	.03757	3
26	.53580	.03434	.54578	.03514	55566	.03595	.56541	.03676	.57506	.03759	3
27	.53596	.03435	.54595	.03515	.55582	.03596	,56557	.03678	.57522	.03760	3.
- 7'	8.53613	.03137	8.54612	.03517	8,55598	.03597	8,56571	.03679	8,57538	.03762	.8.
29	.53630	.03438	.54628	.03518	.55615	.03599	.56590	.03650	57554	.03763	3
30	.53646	.03439	.54645	.03519	.55631	.03600	,56606	.03652	57570	.03761	3
31	.53663	.03441	.54661	.03521	.55617	.03601	.56622	.03653	.57585	.03766	2.
- 8'	8,52680	.03142	8.54678	.03522	8 55664	.03603	N 56638	.03655	8 57601	.03767	2.
33	,53697	.03143	.54694	.03523	.55680	.03604	.56654	.03686	.57617	.03769	1.0
34	.53713	.03145	.54711	.03525	.55696	.03605	.56670	.03687	.57633	.03770	13
3.5	.53730	.03416	.51727	.03526	.55713	.03607	56687	03659	.57649	.03771	13
⊢ _ 9′	8,53747	.03417	8.54744	.03527	S 55729	.03608	8,56703	.03630	8 57665	.03773	1
37	.53764	.03449	.54760 .54777	.03529	.55715	.03610	.56719	.03691	.57681	.03774	13
38 39	.53780 53797	.03451	54793	.03530	.55762 .55778	.03611	.56735 .56751	.03693	.57697 .57714	.03775	
			8.54810								=
⊢ 10' 41	8,53814 , .53830	.03454	.54826	.03533	8 55794 .55814	.03614	8.56767 .56783	.03695	8.57729 .57745	.03775	1
42	.53847	.03455	.51843	.03535	77827	.03616	.56799	.03697	.57761	.03750	
4.7	53861	.03457	54859	.03537	15813	.03618	.56816	.03700	.57777	.03752	1
- 11'	8,53880	.03418	8,54876	.03535	× 75859	.03619	8,56832	.03704	8 57793	.03754	1
45	53897	.03159	.54892	.03539	55876	.03620	56848	.03703	57809	.03755	1.
34	53911	.03460	54909	.03544	55802	.03622	,56863	.03704	57825	037.57	Li
37	.50900	.03462	.54925	.03512	55908	.03623	56880	.03705	.57841	.03758	1
- 121	8 53947	.03163	8.54942	.03513	8 55925	.03621	8 56856	.03706	8,57856	03789	-
39	53964	.03161	,54958	.03545	55944	.03626	56912	.03705	57572	.03791	1
-50	53980	.03466	.54975	.03546	.55957	.03627	56928	.03709	17444	.03792	10
-57	53997	.03467	54994	.03547	55973	.03629	56944	.03711	.57904	.03794	1
- 131	8,54014	.03168	8.55008	.03549	8.55990	.04630	8,56960	.03712	8 57920	.03795	-
57	53030	.03170	.55021	.03550	56006	.03631	56977	.03743	57936	.03796	
-11	54047	.03471	.550 H	.03551	.56022	.03633	.56993	.03715	57952	.03798	
55	15061	03172	55057	.03553	,56039	*03631	57009	.03716	,579(8)	.03799	
- 11'	· 111-0	.03474	8 55073	.03551	8,56055	.03635	8.57025	.03747	8 57984	.03500	1
57	54007	.03475	.55090	.03555	.56071	.03637	2004	.03719	.58000	.03502	
58	51011	.03476	.55106	.03557	.56087	.03638	750.5	.03720	.58015	.03803	
59	501.00	.03478 [	201.20	.03558	.56104	.03639	57073	.03722	58031	03505	_1
+ 15'	871117	.03479	2 4 8	.0.1560	8,56120	.0363	8,57089	.03723	× 3017	.03506	-/-
- 1	,			i	. 1.	i		,	L		
							7	1	-		1

	th com	22° 30′	1h 31m	999 45/	1h 32m	229.0/	1h SSm	000 42/	7 h 0 /m	992 997	
							11. 55 11.	23. 19.	1h 34m	23 30	
8	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	8
0	8.58047	.03806	8.58994	.03890	8.59931	.03975	8.60857	.01060	8.61773	.04147	60
1	.58063	.03807	.59010	.03891	.59947	.03976	.60873	.04062	61789	.04148	59
2 3	.58079	.03809	.59026	.03893 .03894	.59962 .59978	.03978	.60888 .60903	.04063 .04065	.61804	.04150	58 57
	8.58111	.03812	8.59057	.03896	8.59993	.03980	8,60919	04066	.61819	.04151	
+ 1'	.58127	.03813	.59073	.03897	.60009	.03982	.60934	.04068	8.61834 .61849	.04153	56 55
6	.58142	.03814	.59089	.03898	.60024	.03983	.60949	.04069	.61864	.04156	54
7	.58158	.03816	.59104	.03900	.60040	.03985	.60965	.04070	.61880	.04157	53
+ 2'	8.58174	.03817	8.59120	.03901	8,60055	.03986	8.60980	.04072	8.61895	.04159	52
9	.58190	.03819	.59136	.03903	.60071	.03988	.60995	.04073	.61910	.04160	51
10	.58206	.03820	.59151	.03904	,60086	.03989	.61011	.04075	.61925	.04162	50
11	.58222	.03821	.59167	.03905	.60102	.03990	.61026	.04076	.61910	.04163	49
+ 3'	8.58238 .58253	.03823 .03824	8.59183 ,59198	.03907 .03908	8.60117 .60133	.03993	8.61041 .61057	.04078 .04079	8.61955	.04164	48
13 14	.58269	.03826	,59214	.03910	.60148	.03995	.61057	.04081	.61971	.04167	47 46
15	.58285	.03827	.59230	.03911	.60164	.03996	.61087	.04082	.62001	.04169	45
+ 4'	8.58301	.03828	8,59245	.03912	8,60179	.03998	8,61103	.04083	8.62016	.04170	44
17	.58317	.03830	.59261	.03914	.60195	.03999	.61118	.04085	.62031	.04172	43
18	.58333	.03831	.59277	.03915	.60210	.04000	.61133	.04086	.62046	04173	42
19	.58348	.03833	.59292	.03917	.60226	.04002	.61149	.04088	.62061	.01175	41
+ 5	8.58364	.03834	8.59308	.03918	8.60241	.04003	8.61164	.04089	8.62077	.04176	40
21 22	.58380	.03835	.59323 .59339	.03920	.60256 .60272	.04005 .04006	.61179 .61194	.04091	.62092 .62107	.04177	39 38
23 23	.58412	.03838	.59355	.03922	.60287	.04007	.61210	.04094	.62122	.04159	37
+ 6'	8.58427	.03839	8.59370	.03924	8.60303	.04009	8.61225	.04095	8.62137	.04182	36
25	.58443	.03841	.59386	.03925	.60318	.04010	.61240	.04096	.62152	.04183	85
26	.58459	.03842	.59402	.03927	.60334	.04013	.61256	.04098	.62167	.04185	34
27	.58475	.03844	.59417	.03928	.60349	.04013	.61271	.04099	.62182	.04186	33
+ 7'	8.58491	.03845	8.59433	.03929	8.60365	.04015	8.61286	.04101	8.62197	.04188	32
29 30	.58506 .58522	.03846	.59448	.03931	.60380 .60396	.04016	.61301 .61317	.04102	.62213 .62228	.04189	31 30
30 31	.58538	.03849	.59480	.03934	.60411	.04019	,61332	.04105	.62243	.04192	29
+ 8'	8,58554	.03851	8.59495	.03935	8.60426	.04030	8.61347	.04106	8.62258	.04194	28
33	,58570	.03852	.59511	.03936	.60442	.04022	.61362	.04108	.62273	.04195	17
34	.58585	.03853	.59527	.03938	.60457	.04023	.61378	.04109	.62288	.04196	.16
35	.58601	.03855	.59542	.03939	.60473	.04025	.61393	.04111	.62303	.04198	.'5
+ 9'	8.58617	.03856 .03858	8.59558	.03941	8.60488 .60504	.04026	8.61408 .61423	.04112	8.62318 .62333	.04199 .04281	14
38	.58633	.03859	.59573	.03944	.60504	.04029	.61423	.04111	.62348	.04301	12
39	.58664	.03560	.59604	.03915	,60534	.04030	.61454	.04117	.62363	.01204	1 7
+ 10'	8.55680	.03862	8.59620	.03945	8.60550	.04032	8,61469	.04118	8,62379	.04205	1.
41	.58696	.03863	.59636	.03948	.60565	.04033	.61484	.04119	.62394	.04297	1.7
42	.58711	.03865	.59651	.03949	.60581	.04035	.61500	.04121	.62409	.04208	18
43	.58727	.03866	.59667	.03951	.60596	.04036	.61515	.04122	.62424	.04210	11
+ 11'	8.58743	.03867	8.59652 .59698	.03952	8.60611 .60627	.04038 .04039	8.61530 .61545	.04124	8.62439 .62454	.04211	16 15
45 46	.58759 .58774	.03869	.59714	.03955	.606.12	.04040	.61561	.04127	.62469	.04214	14
47	.58790	.03872	59729	.03956	.60658	.04043	.61576	.04128	.62481	.04215	13
+ 12'	8.58806	.03873	8,59745	.93958	8.60673	.04043	8,61591	.04130	8.62499	.04217	11:
49	.58822	.03875	,59760	.03959	.60688	.04045	.61606	.04131	,62514	.01218	12
50	.58837	.03576	.59776	.03961	,60704	.04046	,61621	.04133	.62529	.04220	10
.51	.58853	.03577	.59791	.03962	.60719	.04048	.61637	.04134	_62544		
+ 13	8,58869	.03879 .03880	8,59807 ,59822	.03933	8.60734 .00750	.04049	8.61652 .61667	.04135	8,62559 ,62574	.04223	1
53 54	.58885 .58900	.03550	.59838	.63966	.60765	.04050	.61682	.04138	62589	.04226	1
55	.58916	.03853	,59853	.03968	.60781	.04053	.61697	.01140	.62604	.04227	5
+ 11'	8.58932	.63584	5,59869	.03969	8.60796		8.61713	.04141	8.62619	.04229	-
57	,58947	.03886	.59885	.03971	.60811	.04056	.61728	.04143	.62634	.04230	
58	.58963	.03557	.59900	.03972	,60827	.04059	.61743	.04144	.00.49	.01232	1
59	.58979	.03589	.59916	.03973	,60842	.04059	.61758	.04146	.62664		1 5
+ 15'	8,55994	.03890	8,59931	.03975	8.60857	.01060	8.61773	.04147	8,62680	.01234	[ "
1	221	29m	2.2h	2Sm	2.21	27m	224	?6)m	22h		ĺ
L			. ~~				1		1		

	1h 35m	23° 45′	1 h 36m	24° 0′	1h 37m	24 15"	1h 38m	24 30'	1h 3.m	21° 45′	Ī
9	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, Hav.	Log, Hav	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	8.62650	.01234	8.63576	.04323	8.61463	.01412	8.65340	.04502	8.66208	.04593	60
1	.62695	.01236	.63591	.04324	.64477	.01113	. 65355	.04503	,66223	.01591	59
2 3	.62710 .62725	.04237	,63606 ,63620	.04326	.64192 .64507	.01415	.65369 .65384	.04505 .04506	.66237 .66251	.04596	58 57
+ 1	5.62740	.04240	8.63635	04329	8.64521	04115	8.65398	.04508	8.66266	.01599	56
5	.62755	.01212	,63650	.04330	,61536	.04419	.65113	.04509	.66250	.04600	55
6	.62770	.04243	.63665	.04332	.64551	.04424	.65427	.04511	.66295	.01602	54
7	.62785	.04245	63680	.04333	,64565	.01422	65442	.04543	66309	.04604	53
+ 2	8,62800 .62815	.04246	8.63695 .63709	.04335 .04336	8,64580 -,64595	.04424	8 65456 .65471	.04514	8.66323 .66338	.04607	52 51
10	.62830	.04249	.63724	.04338	,64609	.01127	65485	.04517	.66352	.04608	50
_ 11_	.62845		63739	.04339	.64624	01425	.65590	04519	_,66366	04610	49
+ 3	8.62860	.04252	8.63754	.01310	8.64639	.04430	8.65514	.04520	8.66351	.04611	48
18 14	.62875 .62890	.04253	,63769 ,63784	.04342	.64653 .64668	.01433	.65529 .65543	.04522	.66395 .66409	.04613	47 46
15	.62904	.01256	.63798	.04345	.64683	.04434	.65558	.04525	.66424	.01616	45
+ 4	8.62919	.01258	8 63813	.04346	8.61697	.01136	8,65572	.04526	5.66435	.01617	44
17	.62934	.04259	.63828	.44348	.64712	.01437	.65587	.04528	.66453	.04619	43
18 19	.62949 .62961	.04261	,63813 ,63858	.01319 $.04351$	.64727 .64741	.01439	.65601 .65616	.04529	.66467 .66481	.04620	42
+ 5	8.62979		8,63872	.04352	8.61756	04412	8,65630	.04532	8,66496	.04623	41
21	.62994	.01265	,63557	.04351	.64771	.01113	.65645	.04534	.66510	.04625	39
22	.63009	.01267	.63902	.04355	.64785	.04445	,65659	.04535	.66524	.04626	38
	.63024	.04268	.63917	.04357	.64800	.01446	.65674	.04537	66539	.01638	37
$\pm \frac{6}{25}$	8.63039 .63054	.04270	8 63932 .63946	.04358	8.61815 .61829	21110. 21110.	8,65688	.04534	8.66553	.01629 .04631	35 35
26	,63069	.04273	.63961	.01354	.61841	.04451	65717	.04511	.66582	.04633	34
27	.63084	.04274	,63976	.04363	.6.2850	.01152	.65732	.04543	.66596	.04634	33
+ 7	8,63009	.04276	8.63991	.04361	8.64873	.01151	8 65746	.01514	8.66610	.01636	82
29 30	.63114	.04277	,64006 ,64020	.04366	.64555 .64902	.01455	.65761 .65775	.01516	.66625 .66639	.04637	51 50
1	.63144	.04280	64035	.01369	,64917	.01158	,65790	.04519	.66653	.01610	29
+ 8	8 63159	.04254	8 64050	.01370	8.64932	.04460	8,65804	.04550	8.66668	.01642	28
- 23	.63174	.04283	.64065	.01372	,64946	.01461	.65819	.01552	66682	.01643	27
J/ 5	.63189 .63204	.04284	,64079 ,61094	.04373	.64961 .64976	.04463	.65833 .65848	.04553 .04555	.66696 .66710	.04645	26 25
+ 9	8.63218	.01287	8 6 1109	01376	8,64990	.04466	8.65862	.04556	8.66725	.01618	25
87	.63233	.04289	.64124	.04378	.65005	.04167	,65876	.04555	.66739	.01649	23
0.8	.63248	.04290	.64139	.04379	.65019	.04469	.65891	.04559	.66753	.01651	22
2 10	.63263 8.63278	.04292 .04293	.64153 8 64168	.04354	.65031 8.65049	.01170	65905	.04561	.66768	04652	21
91	63293	.01293	64183	.01352	.65063	.01173	8 65920 .65934	.04562	8.66782 .66796	.04654	20 19
42	.63308	.04296	.64198	.04385	.65078	.01175	.65949	.04565	.66811	.01657	18
47	.63323	.04295	.64212	.04387	65092	.04176	65963	.04567	.66825	.04659	1,7
+ 11	8 63338	.04299	8 64227 64212	.01355	8 65107 65122	.04479	8,65978 ,65992	.04569	8 66839 .66853	.04660	16
36	_63368	.04302	.64257	.04394	.65136	.01151	,66006	.04572	.66868	.01663	15 14
47	.63382	.01301	.64271	.04393	.65154	S8110.	.66021	.04573	66882	.01665	13
+ 137	8 63397	.04305	8.64286	.04394	8 65165	.04484	8,66035	.04575	8 66896	.01666	13
49 50	63412 63427	.04306	.64301	.04395	.65180 .65194	.01455	.66050	.04576	.66911	.04669	11
51	63442	.01309	.61330	.04398	.65209	.01157	.66064 .66079	.04578	.66925 .66939	.04669	10
+ 43	8 63457	01311	8 61345	.01100	8 65221	.01190	8.66093	.04581	8.66953	.01672	8
5.7	.63472	.04342	.64360	.04401	65238	.04491	.66107	.04582	.66968	.04674	7
54 55	63387	.04314	.64374	.01103	.65253	.01193	.66122	.04584	.66982	.04675	6
+ 11'	8 63516	$=\frac{.04345}{.04347}$	.61389 8-64401	04104 04105	.65267 8-65282	.04494	,66136 8,66151	.04585	8 67010	04677 04678	5 4
57	63531	.01318	.61118	.04407	.65296	.01197	.66165	.04588	.67025	.01680	3
58	.63546	.04320	.61433	.01109	.65311	.01499	.66179	.04590	.67039	.04682	2
59	.63561	04324	.61448	.01110	65325	.04500	66194	.04591	.67053	.01683	_1
± 45′	8 63576	.01323	8 61463	.04412	8 65340	.04502	8,66208	.04593	8 67067	.04685	-0
	22h	23m	224	23m	204	22111	27h	0 1m	a.h	2()m	1
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5         6,7139         .04692         .67888         .04785         .68829         .04879         .69662         .04973         .70486         .05068         .57           6         6,7153         .04894         .68002         .04785         .68843         .04890         .04892         .69666         .04973         .70500         .05070         .53           7         .67167         .04695         .68030         .04798         .68857         .04882         .69690         .04976         .70513         .05071         .53           9         .67196         .04698         .68045         .04791         .68885         .04883         8,69731         .04971         .0919         .70541         .05075         .01           10         .67224         .04702         .68073         .04794         .68913         .04888         .69731         .04981         .70554         .05078         .04796         .68101         .04797         .68841         .04891         .69755         .04981         .70563         .05078         .05078         .04794         .68969         .04891         .09756         .04986         .70595         .05078         .05078         .04981         .70562         .05078         .04981		1h 40m	25° 0′	1h 41m	25° 15′	1h 4/m	25° 30′	1h 43m	25° 45′	1h 44m	26° 0	
1	в	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Har	s
I		8 67067	.04685	8 67918	.04777	8 68760	.04871	8 69593	.04965	8.70418	.05060	40
2         G. 7096         J. 6888         G. 7046         G. 70470         G. 8787         G. 8781         G. 9020         J. 4962         G. 7045         G. 5056         J. 77           4         1         8. 87124         J. 4989         8. 67874         J. 4783         S. 8881         J. 64874         J. 879472         G. 50665         J. 7           5         6. 7153         J. 64894         G. 8002         G. 7885         G. 8785         G. 8881         J. 8890         G. 9076         J. 4917         G. 70680         G. 6776           7         7. 6776         J. 6493         G. 8016         G. 8787         G. 8881         J. 64883         G. 6907         J. 64972         G. 8036         G. 7077         G. 7016         J. 6498         G. 8069         J. 6498         G. 6907         J. 6498         G. 6907         J. 6491         J. 6882         J. 6488         G. 6973         J. 6498         J. 6497         J. 6491         J. 6882         J. 6488         G. 6973         J. 6483							.04872		.04967	.70431	.05062	59
T	2			.67946		.68787						
5         67139         04692         0.9788         .04785         68829         .04879         .06602         .04933         .70480         .05066         .057           7         .07167         .04695         .68816         .04880         .08857         .04882         .09600         .04976         .70513         .05071         .5           9         .07167         .04695         .88016         .04789         .68857         .04882         .69600         .04976         .70513         .05073         .071           9         .07196         .04698         .88045         .04791         .68885         .04885         .03717         .04939         .70541         .05076         .04701           10         .05224         .04702         .68013         .04898         .04885         .06741         .04991         .70541         .05076         .04791           13         .05228         .04703         .68104         .04799         .08845         .04881         .05772         .04706         .08104         .04799         .08845         .04881         .05782         .05043         .04           14         .06724         .04706         .08104         .08992         .04892         .08865												- 1
6												
7         0.7167         0.4695         0.8016         0.9788         0.8857         0.4882         0.990         0.4976         7.0513         0.5073         3           9         0.7196         0.1698         0.8851         0.1791         0.8885         0.0185         0.6971         0.0199         7.0561         0.971         0.0191         0.0191         0.8885         0.0185         0.0711         0.0199         7.0541         0.5050         0.171           10         0.7210         0.0190         0.8805         0.0193         0.8890         0.0186         0.0713         0.0189         0.0171         0.0190         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0181         0.0182         0.0183         0.0184         0.0180         0.0183         0.0184         0.0189         0.0183         0.0184         0.0188         0.0183         0.0184         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188         0.0188												
1												
9         67196         0.1698         0.9515         .04791         68885         .04885         .09717         .04999         .05065         .0473         .05065         .04712         .05065         .0473         .05089         .04886         .06741         .04981         .05065         .0494         .05075         .04981         .05735         .04982         .05068         .05073         .0494           4         3         8.67232         .04165         .68813         .04198         .048877         .04898         .06772         .04984         .05073         .05073         .0479           4         6.67232         .04160         .68813         .04493         .08843         .04891         .05772         .04908         .70035         .05083         .04901         .05085         .04831         .06772         .04908         .70035         .05083         .05083         .04891         .05085         .04891         .05085         .04891         .05085         .04891         .05085         .04891         .05085         .04893         .05083         .05085         .04892         .70033         .05083         .05083         .05083         .05085         .04993         .70033         .05083         .05083         .04993												
17												
11         67224         .04702         .08703         .04794         .08913         .04885         .06745         .04984         × 70568         .05073         .9           4         3'         86728         .04703         .68087         .04897         .04801         .05672         .0496         .04705         .68101         .04793         .68841         .04891         .68786         .04987         .70505         .05081         .47           14         .67267         .04708         .68129         .04801         .68865         .04836         .68786         .04987         .70603         .05081         .47           17         .6309         .04111         .68147         .04896         .04887         .68821         .04999         .87636         .05881         .47           19         .6338         .04114         .68181         .04895         .69912         .04961         .68952         .04992         .87666         .0583         .42           21         .6338         .04114         .68181         .04890         .04941         .08982         .0997         .70691         .05992         .06912         .04941         .08982         .09992         .06941         .05993         .06941												
13		.67224			.04794	.68913	.04888	,69745	.04982	70568	.05078	49
14	+ 3'	8.67238	.04703	5.68087	.01796	8.68927						
15												
4   4   8.67.295		.67267										
17												
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19												
5												
27         6.7366         0.4717         6.8213         0.4810         6.9962         0.4905         6.9896         0.5000         70718         0.5095         3.8           22         6.7384         0.4720         6.8241         0.4813         6.9966         0.4905         6.9910         0.5000         70718         0.5095         3.7           4         67         8.67499         0.4722         8.8256         0.4816         6.9084         0.4808         8.69924         0.5003         8.70745         0.5099         3.6           25         6.7437         0.4723         6.8250         0.4816         6.9108         0.9491         6.9957         0.5006         7.0773         0.5100         3.5         2.6         6.7437         0.4728         8.8312         0.4821         8.69129         0.4913         6.9951         0.5006         7.0778         0.5104         3.3           27         6.7450         0.4728         8.8312         0.4821         8.69149         0.4913         6.9992         0.5001         7.0786         0.5104         3.3           39         6.7494         4.121         8.8340         0.4822         6.9113         0.4918         7.0006         0.5011         7.0813 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th>												1
292         67394         .04718         .68227         .04811         .69066         .04907         .69910         .05000         .70718         .05099         .38           4         6'         8.67409         .04722         .88256         .04815         .69094         .04908         .869924         .05003         8.70745         .05099         .36           25         .67437         .04725         .68284         .04818         .69122         .04913         .69951         .05005         .70759         .05100         .35           27         .67451         .04725         .68284         .04818         .69122         .04913         .69951         .05005         .70756         .05100         .32           29         .67480         .04729         .68326         .04821         .69149         .04915         .60909         .05009         .870800         .05105         .32           30         .67494         .04731         .68340         .04825         .69149         .04915         .70006         .05013         .70827         .05105         .32           31         .67508         .04732         .68341         .04825         .69149         .04918         .70020         .05014				.68213				.69882	.04998	.70704	.05094	
+ 6' 8.67409	22	.67380	.04718	.68227	.04811	.69066						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23	.67394										
26         0.7437         0.4725         68284         0.4818         6.9122         0.4912         6.9951         0.5006         70773         0.5104         33           + 7'         8.67465         0.4728         8.8312         0.4821         8.69149         0.4913         6.89979         0.5009         8.7080         0.51104         33           29         67480         0.4729         68326         0.4822         0.9163         0.04916         6.9992         0.5011         70813         0.5105         37           30         67494         0.4721         68330         0.4824         6.9179         0.04918         6.06992         0.5011         70813         0.5105         37           30         67598         0.4731         68330         0.4825         6.9191         0.4919         7.0000         0.5014         7.0813         0.5116         2.5           33         67536         0.4735         68382         0.4829         6.9219         0.4921         8.0017         7.0868         .05111         2.8           34         6.7550         0.4749         68410         0.4832         6.9247         0.4921         7.0007         0.5021         7.0868         .05113												
27         67451         .0126         .68298         .04819         .69136         .04913         .69965         .05008         .70786         .05104         .33           29         .67480         .04729         .68326         .04821         .869149         .04915         8.69979         .05009         .870800         .05105         .32           30         .67494         .04731         .68340         .04824         .69177         .04918         .70006         .05011         .70827         .63108         .30           31         .67508         .04732         .68340         .04825         .69191         .04918         .70006         .05014         .70821         .63108         .30           33         .67536         .04732         .68382         .04829         .69219         .04923         .70047         .05516         8.70854         .95111         .28           34         .67550         .04739         .68410         .04832         .69240         .04927         .70065         .05091         .70855         .05113         .26           35         .67505         .04742         .68438         .04833         .69260         .04927         .70065         .05091         .70856 <th></th> <th></th> <th></th> <th>.68270</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>				.68270								
+ 77         8.67465         .04728         8.08312         .04821         8.69149         .04915         8.69979         .05009         8.70800         .05105         32           29         .67480         .04729         .68326         .04821         .69163         .04916         .69992         .05011         .70813         .05107         31           30         .67494         .04731         .68340         .04824         .69177         .04919         .70000         .65014         .70813         .5108         30           31         .67508         .04732         .68368         .04827         .69205         .04949         .70020         .05014         .70841         .63140         29           34         .67550         .04737         .68366         .04832         .69219         .04923         .70047         .05017         .70868         .65113         27           35         .67550         .04739         .68410         .04832         .69247         .04929         .70075         .05021         .70881         .63115         26           37         .67593         .04740         .84832         .69274         .04929         .701075         .05021         .70899         .65113 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>												
29         .67480         .94729         .68326         .04822         .69163         .04916         .69992         .05011         .70818         .05103         .37           30         .67494         .04731         .68340         .04825         .69191         .04918         .70006         .05043         .70827         .05108         .39           4         8         86.7522         .04732         .68354         .04825         .69191         .04918         .70020         .05014         .70841         .63140         .39           33         .67536         .04735         .68388         .04829         .69219         .04921         8.70047         .05016         8.70854         .95111         .28           34         .67550         .04733         .68396         .04830         .69233         .04924         .70061         .05019         .70881         .05113         .24           35         .67550         .04740         .088424         .04833         .69200         .04927         .87089         .05022         .870803         .05116         .25           37         .67533         .04740         .088424         .04833         .69260         .04929         .70102         .05024												
30         6.7494         .04731         .68340         .04824         .69177         .04918         .70006         .05043         .70827         .65108         .30           31         .67508         .04732         .68354         .04825         .69191         .04919         .70020         .05014         .70841         .05110         .99           33         .67550         .04735         .68382         .04829         .69219         .04923         .70047         .05017         .70868         .05111         .29           34         .67550         .04737         .68380         .04830         .69233         .04923         .70047         .05017         .70868         .05113         .27           35         .67550         .04739         .68410         .04832         .69247         .04926         .70075         .05021         .70865         .05116         .5           47         .67559         .04742         .68438         .04835         .69247         .04929         .70102         .05021         .70895         .05116         .5           38         .67607         .04745         .68466         .04838         .69302         .04930         .70102         .05022         .709909												
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38         6.7536         .04735         68382         .04829         .69219         .04923         .70047         .05017         .70868         .05113         27           34         .07550         .04737         .68396         .04830         .69233         .04924         .70061         .05019         .70881         .05113         26           35         .67555         .04739         .68410         .04832         .69247         .04926         .70075         .05021         .70895         .85116         .5           37         .67593         .04742         .68488         .04833         .69260         .04929         .70102         .05024         .70922         .05119         .3           38         .67607         .04743         .68452         .04836         .69288         .04930         .70102         .05027         .70949         .05123         .2           41         .67621         .04746         .68480         .04838         .69316         .04932         .70130         .05027         .70949         .05123         .2           41         .67649         .04749         .68580         .04843         .69345         .04940         .7017         .0503         .70977							.04919	.70020	.05014			
34         67550         .04737         .68396         .04830         .69233         .04924         .70061         .05019         .70881         .05116         .26           35         .07505         .04739         .08410         .04832         .69240         .04926         .70075         .05021         .70895         .05116         .25           37         .67593         .04740         .08824         .04833         .69260         .04927         .870089         .05022         .870909         .05118         .24           38         .67607         .04743         .08452         .04836         .69288         .04930         .70116         .05024         .70922         .05118         .24           49         .67621         .04743         .04838         .69302         .04932         .70116         .05027         .70949         .05123         .21           49         .67621         .04745         .08466         .04838         .69302         .04932         .70116         .05027         .70949         .05121         .20           41         .67649         .04748         .08494         .04841         .69336         .04937         .70157         .05033         .70977         .05126 <th>+ 8'</th> <th>8.67522</th> <th>.04734</th> <th>8.68368</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>28</th>	+ 8'	8.67522	.04734	8.68368								28
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33											
+         9'         8.675.79         .04740         S.08424         .04833         8.69260         .04927         8.70089         .05022         8.70099         .05112         24           37         .07593         .04742         .08438         .069274         .04929         .70102         .05024         .70992         .05119         .3           38         .07607         .04743         .08452         .04836         .69288         .04930         .70116         .05027         .70949         .05121         .24           39         .07621         .04746         .08480         .04838         .69300         .04932         .70130         .05027         .70949         .05123         .21           41         .07649         .04748         .08480         .04831         .69336         .04935         .70157         .05300         .70977         .05122         .12           42         .07664         .04749         .08508         .04841         .69338         .04937         .70171         .05032         .70990         .05122         .18           43         .07678         .04751         .08522         .04841         .69358         .04938         .04938         .05033         .71017												
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55         .67847         .04769         .68890         .04863         .69524         .04957         .70349         .05052         .71167         .05448         5           + 147         8.67861         .04773         8.68704         .04864         8.99537         .04959         8.70363         .05054         8.71180         .05150         4           57         .67875         .04773         .68718         .04866         .69551         .04960         .70377         .05057         .71194         .05152         3           58         .67890         .04774         .68732         .04868         .69565         .04962         .70390         .05057         .71207         .05152         2           59         .67904         .04176         .68746         .04869         .99579         .04964         .70404         .05039         .71221         .05155         7           + 15'         8.67918         .04777         8.68760         .04871         8.69593         .04965         .70418         .05060         8.71234         .05156         0												
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								.70390	.05057	.71207	.05153	1.2
+ 15' 8.67918 .04777 8.68760 .04871 8.69593 .04965 8.70418 .05960 8.71234 .05156 0								.70404				
				_		8.69593	.04965	8.70418	.05960	8.71234	.05156	0
92n 19m   22n 18m   22n 17m   2n 16m   22n 15m	1				h dom		Larm	7.5	h tem	0.1	h 15m	1
	I	22	h 19m	22	n 18m	1 44	t 17m	1 727	10"	1 22	. 1000	1

	11	26 - 45	10.30	26:30'	Ih 47m	26 45	1h 4sm	270 0	1h gam	27° 15′	
	Log His	Nat. 11	Lo Hay	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	8
- 0	S 3.20 E	.05156	5.72013	.05253	8.72841	.05351	8.73637	.05150	8.71123	.05549	60
	121s 1261	.05458	.72057 .72070	.05255	.72857 .72871	.05353	.73650 .73663	.05454	.74436 .74449	.05551	59 58
	155	.05161	.72083	.05258	.72884	.05356	.73677	.05455	.74462	.05551	57
+ 1	289	.05163	8,72097	.05260	8.72897	.05358	8.73690	.05456	8.74475	.05556	56
	1 302 .71316	.05161	.72110 .72124	.05261 $.05263$	.72910 .72924	.05359	.73703 .73716	.05458	.71188	.05557	55
	71329	.05168	72137	.05265	72937	.05363	.73729	.05161	.74501 .74514	.05561	54 53
+ 3	8.71343	.05169	8.72150	.05266	8.72950	.05361	8.73742	.05463	8.74527	.05562	32
	.71356	.05171	.72164	.05265	.72963	.05366	.73755	.05461	.74540	.05564	51
10 11	.71370 .71383	.05172	.72177 .72191	05270 $05271$	.72977 .72990	.05367	.73769 .73782	.05166	.74553 .74566	.05566	50 49
+ 3	8.71397	.05176	8.72204	.05273	8.73003	.05371	8.73795	.05470	8.74579	.05569	48
IJ	.71410	.05177	.72217	.05274	.73016	.05372	.73808	.05471	.74592	.05571	47
14 15	.71424 .71437	.05179 $.05181$	.72231 .72244	.05276	.73030 .73045	.05374	.73821 .73834	.05473	.74605 .74618	.05572	46 45
+ 4	8.71451	.05182	8.72257	.05279	8,73056	.05377	8.73817	.05176	8.74631	.05576	44
17	.71464	.05154	.72274	.05281	.73069	.05379	.73860	.05178	.74644	.05577	43
18	.71478	.05185	.72284	.05233	.73083	.053×1	.73874	.05179	.74657	.05579	42
. 19	.71491	.05187	.72298 8.72311	.05254	.73096 8.73109	.05382	.73887	05484	.74670	.05581	41
+ 3	8.71505 .71518	.05190	.72324	.05257	.73102	.05385	8.73900 .73913	.05183	8.74683 .74696	.05584	40 39
22	.71532	.05192	.72338	.05289	.73136	.05387	.73926	.05486	.74709	.05586	38
20	.71545	.05193	.72351	.05291	.73149	.05349	.73939	.05188	.74722	05587	.87
+ 6	8.71559 .71572	.05195	8.72364 .72378	.05292	8.73162 .73175	.05390	8.73952 .73965	.05489	8.74735 .74748	.05589	35
75	.71586	.05198	.72391	.05296	.73189	.05394	.73978	.05193	.74761	.05593	34
- 27	.71599	.05200	.72404	.05297	.73202	.05395	.73992	.05494	.74774	.05591	.5.3
+ 7	8.71613	.05201	8.72418	.05299	8.73215	.05397	8.74005	.05196	8.74787	.05596	33
.9 30	.71626 .71640	.05203	.72431 .72445	.05300	.73228 .73241	.05399	.74018 .74031	.05499	.74800 .74813	.05597	31
31	.71653	.05206	.72458	.05304	.73255	.05402	.74044	.05501	.74826	.05601	29
+ 8'	8.71667	.05208	8.72471	.05305	8.73268	.05104	8.74057	.05503	8.74839	.05603	28
33	.71680 .71694	.05210	.72485 .72498	.05307	.73281 .73294	.05405	.74070 .74083	.05504	.74852	.05604	27
34 35	.71707	.05213	.72511	.05319	.73308	.05107	.74053	.05506	.74864 .74877	.05606	26 25
· 9′	8.71721	.05214	8.72525	.05312	8.73321	.05410	8.74109	05509	8.74890	.05609	24
57	.71734	.05216	.72538	.05314	.73334	.05112	.74122	.05511	.74903	.05611	2.3
38 39	.71748 .71761	.05219	.72554 .72565	.05315	.73347 .73360	.05113	.74135 .74149	.05513	.74916 .74929	.05613	23
+ 10	8.71771	.05221	8.72578	.05318	8.73.174	.05117	8.74162	.05516	8.74942	.05616	20
41	.71788	.05222	.72591	.05320	.73387	.05448	.74175	.05518	.74955	.05618	19
13	.71801	.05221	.72605	.05322	73400 73413	.05420	.74188	.05519	.74968	.05619	18
- 33 +- 11 ⁷	.71815 8.71828	.05226	.72618 8.72631	.05323	S 53426	.05422	.74201 S.74214	$=\frac{.05521}{.05523}$	8.74994	.05623	17 16
7.5	.71812	.05229	.72614	.05376	. 1140	.05125	.74227	.05521	.75007	.05621	15
76	.71855	.05231	.72658	.05328	Add to	.05127	.74240	.05526	.75020	.05626	14
17	.71869 8-71882	.05242	.72671 8.72681	.05330	7 1166 S 7 1179	.05128	.74253	05528	.75033	.05628	1.9
39 (19)	.71895	.05234	.72698	.05334	74792	.05430	8.74266 .74279	.05529	8.75046 .75059	.05629	12
50	.71909	.05237	.72711	.05335	73505	.05133	.74292	.05533	.75072	.05633	10
77	.71922	.05239	72724	.05336	23519	.05435	.74305	.05531	.75084	.05634	- 9
131	\$ 71936 .71949	.05240 $.05242$	8,72738 72754	.05338	S 1.1542 3.1545	.05436	8.74318 .74331	.05536	8.75097   .75110	.05636	8 7
55	.71963	.05244	72761	.05344	737587	.05110	7 (341	.05539	.75123	.05639	6
, ;	.71976	.05245	72778	.05343	7,1571	.05111	.74357	.05541	.75136	.05614	- 5
11	\$ 71989	.05217	8 72791 72804	.05345	8 77/81	.05443	8 7 137 [	.05542	8 75449	.05643	3
3	.72003 .72016	.05248	72801	.05346	.73 98 3511 j	.05115	.74384 .74397	.05511 $.05516$	.75162 .75175	.05644	3
19	720.0	.05252	.72831	.05349	.73624	.05148	.71110	.05547	.75188	.05645	- 1
+ 45	8 (2013)	.05253	5 (2811	.05354	8 73637	.05150	8 74 123	.05549	8.75201	.05649	1)
	,	/	Δ	,		, .	h	11 -	$\cdots h$	100	

	1h 50m	270 20'	1h 51m	270 131	1h 52m	28° 9′	1h 53m	989 157	1 h 5 ( m)	28° 30′	i
s	Log. Hav.		Log. Hav.	Nat. Hav.		Nat. Hav.	Log. Hav.		Log. Hav.	Nat. Hav.	8
							-				<u> </u>
0 · 1	8.75201 .75214	.05619 .05651	8.75972 .75984	.05751 .05752	8.76735 .76748	.05853 .05854	8.77492 .77504	.05955	8.78241 .78254	.06059 .06061	60 59
2	.75227	.05653	.75997	.05754	.76760	.05856	.77517	.05959	.78266	.06063	58
S	.75239	.05655	.76010	.05756	.76773	.05858	.77529	.05961	.78278	.06064	57
+ 1'	8.75252	.05656	8.76023	.05757	8.76786	.05559	8.77542	.05962	8.78291	.06066	56
5 6	.75265 .75278	.05658 .05660	.76035 .76048	.05759	.76798 76811	.05861	.77554 .77567	.05964	.78303 .78316	.06068	55 54
7	.75291	.05661	.76061	.05762	.76824	.05865	.77579	.05968	.78328	.06071	53
+ 2'	8.75304	.05663	8.76074	.05764	8.76836	.05866	8.77592	.05969	8.78341	.06073	52
. 9	.75317	.05665	.76086	.05766	.76849	.05868	.77604	.05971	.78353	.06075	51
10	.75330	.05666	.76099	.05768	.76862	.05870	.77617	.05973	.78365	.06077	50
$\frac{-11}{+3'}$	.75343	05668	.76112	05769	$\frac{.76874}{8.76887}$	05571	.77630	.05974	.78378	.06078	49
+ 3'	5.75355 .75368	.05670	8.76125 .76138	.05771	.76900	.05873	8.77642 .77655	.05976	S.78390 .78403	.06080	48 47
14	.75381	.05673	.76150	.05774	.76912	.05877	.77667	.05980	.78415	.06083	46
15	.75394	.05675	.76163	.05776	.76925	.05878	.77680	.05981	.78428	.06085	45
+ 4	8.75407	.05676	8.76176	.05778	8.76938	.05880	8.77692	.05983	8.78440	.06087	44
17	.75420	.05678	.76189	.05779	.76950	.05882	.77705	.05985	.78452	.06089	43
18 19	.75433	.05680 .05681	.76201 .76214	.05781 .05783	.76963 .76975	.05883	.77717 .77730	.05986	.78465 .78477	.06090	42 41
$\frac{15}{+5'}$	8.75458	.05683	8.76227	.05785	8.76988	.05887	8.77742	.05990	8.78490	.06094	$\frac{41}{40}$
21	.75471	.05685	.76240	.05786	.77001	.05888	.77755	.05992	.78502	.06096	39
22	.75484	.05686	.76252	.05788	.77013	.05890	.77767	.05993	.78514	.06097	38
23	.75497	05688	.76265	.05790	.77026	.05892	.77780	.05995	.78527	.06099	37
+ 6' 25	8.75510 .75523	.05690	8.76278 $.76291$	.05791 .05793	8.77039 .77051	.05894	8.77792 .77805	.05997	8.78539 .78551	.06101	36 35
26	.75536	.05693	.76303	.05795	.77064	.05897	.77817	.05333	.78564	.06104	34
27	.75548	.05695	.76316	.05796	.77076	.05899	.77830	.06003	.78576	.06106	33
+ 7	8.75501	.05697	8.76329	.05798	8.77089	.05901	8.77842	.06004	8,78589	.06108	32
29	.75574	.05698	.76341	.05800	.77102	.05902	.77855	.06005	.78601	.06110	31
30 31	.75587 .75600	.05700	.76354 .76367	.05802 .05803	.77114 .77127	.05904 .05906	.77867 .77880	.06007	.78613 .78626	.06111	30 29
+ 8'	8.75613	.05703	8.76380	.05805	8.77139	.05907	8.77892	.06011	8.78638	.06115	28
33	.75626	.05705	.76392	.05807	.77152	.05909	.77905	.06013	.78651	.06117	27
34	.75638	.05707	.76405	.05808	.77165	.05911	.77917	.06014	.78663	.06118	26
35	.75651	.05708	.76418	.05810	.77177	.05913	.77930	.06016	.78675	.06120	25
+ 9'	8.75664	.05710	8.76431 .76443	.05812 .05813	8.77190 .77202	.05914 .05916	8.77942 .77955	.06018 .06019	8.78688 .78700	.06122 .06124	24 23
38	.75677	.05713	.76456	.05815	.77215	.05918	.77967	.06021	.78712	.06135	22
39	.75703	.05715	.76469	.05817	.77228	.05919	.77980	.06023	.78725	.06127	21
+ 10'	8.75715	.05717	8.76481	.05819	8.77240	.05921	8.77992	.06024	8.78737	.06129	20
41	.75728	.05718	.76494	.05820	.77253	.05933	.78005	.06026	.78749	.06130	19
42 43	.75741 .75754	.05720	.76507 .76519	.05822	.77265 .77278	.05925	.78017 .78029	.06028 .06030	.78762 .78774	.06132 .06134	18 17
+ 11'	8.75767	.05724	8.76532	.05825	8.77291	.05928	8.78042	.06031	8.78787	.06136	16
45	.75779	.05725	.76545	.05827	.77303	.05930	.78054	.06033	.78799	.06137	15
46	.75792	.05727	.76558	.05829	.77316	.05931	.78067	.06035	.78811	.06139	14
47	.75305	.05729	.76570	.05830	.77328	.05933	.78079	.06037	.78824	.06141	13
+ 12	8.75818 .75831	.05730	8.76583 .76596	.05832 $.05834$	8.77341 .77353	.05935	8.78092 .78104	.06038	8.78836 .78848	.06143 .06144	12 11
50	.75844	.05734	.76608	.05836	.77366	.05938	.78117	.06013	.78861	.06146	10
51	.75856	.05735	.76621	.05837	.77379	.05940	.78129	.06044	.78873	.06148	_ 9
+ 13	5.75369	.05737	8.76634	.05839	8.77391	.05942	8.78142	.06045	8.78885	.06150	- 8
53 54	.75842 .75895	.05739	.76646 .76659	.05341	.77404 .77416	.05943	.78154 .78167	.06047	.78898 .78910	.06151	7 6
55	.75908	.05712	.76672	.05844	.77429	.05947	.78179	.06050	.78922	.66155	5
+ 14	8.75920	.05744	8.76684	.05546	\$.77441	.05949	8.78191	.06052	8.78935	.06157	
57	.75933	.05745	.76697	.05847	.77454	.05950	.78204	.06054	.78947	.06158	3
58	.75946	.05747	.76710	.05849	.77466	.05952	.78216	.06056	.78959	.06160	2
59	.75959	-05749	.76722	05851	.77479	.05954	.78229	-96957	.78972 8.78984	.06162	$-\frac{1}{0}$
+ 15′	8.75972	.05751	S.76735	.05833	8.77492	.05955	8.78241	.06059	0.15081	.00104	1 "
	23h	9m	22h	sm	22h	$\hat{i}m$	22h	6m	224	5m	
L	-		1		-		1				1

		_									
	1h 55m 28	4.5	12 50.70	29 0	1h 57 m	29 15	1h 5,8m	29 30	1h Foir	29 (5	
		. 17		No. 11		27.0		22			
S	Log. Hav. Na	t. H v-	1.52. P. 5	Nat. Hav	Log. Hav	Ne	Log. Hav.	Nat. Hav	h. c. lav.	Nat. II a.,	S
0	5.78981 .	06164	8 79720	.06269	8.50449	.06375	8 81172	.66452	8.81-80	.06590	101
1		06165	.79732	.06271	.80462	.06377	.81181	.06484	81901	.06592	59
2		96167	.79744	.06273	.80174	.06375	~1196	.05156	.81913	.06594	58
3		96169	.79757	.06271	.80486	.06351	.81208	.06188	.81925	.06595	177
± 1	S 79003 4	06171	8 79769	.06276	8.80498	.06382	8.81220	.06159	NS 1937	.06597	15
5		06172	.79781	.06278	.80510	.06354	.81232	.06491	\$1948	.06599	111
fi.	.79058 .0	06174	.79793	.06280	.80522	.06356	\$1244	.06493	.\$1960	.06601	57
7	.79070 .0	06176	.79505	.06251	.80534	.06388	.81256	.06495		.06603	53
4 2'	8,79082 .4	06178	8,79818	.06253	8,80546	.06389	8.81268	.06497	8 81984	.06605	53
9		86179	.79830	.06255	.80558	.06391	.81280	.06498	.81996	.06606	51
10		06151	.79842	.06287	80570	.06393	.81292	.96500	.52008	.06605	50
11	.79119   .0	06183	.79854	.06255	.80582	.06395	.51304	.06502	.82020	.46610	39
a- 3°		06155	× 79×66	.06290	8,80595	.86397	S 81316	.06504	8 82032	.06612	48
1.3		06186	.79879	.06393	.80607	.06398	\$1328	.06505	.82043	.06614	37
1.4		06188	79591	.06294	80619	.06400	.81340	.06507	.82055	.06615	41
1.5		96190	79903	.06295	.80631	.06402	.81352	.06509	.82067	.06617	45
4 4		06193	S 79915	.06297	8,80643	.06104	8,81364	.06511	8,82079	.06619	-5-5
17		66193	.79927	.06299	.80655	.06405	.81376	.06513	\$2091	.06621	-1.3
18		06195	.79940	.06301	.50667	.06107	.81388	.06514	.82103	.06623	42
1.9		06197	.79952	.06303	80679	.06409	,51400	.06516	.82115	.06624	41
+ 5		06199	8 79964	.06304	8,50691	.06111	8.81412	.06518	8.82126	.06626	30
- 21		96303 96300	.79976	.06306	.80703 .80715	.06414	.\$1424 \$1436	.86520	.82138 .82150	.06625	39 38
22		06204	.50000	.06310	.80727	.06116	81448	.06523	.82162	.06632	37
+ 6′		06206	8.80013	06311	8.50739	.06118	8.81460	.06525	8.82174	.06633	36
25		06207	.80025	.06313	.80751	.06120	.81472	.86527	.82186	.06635	35
26		06209	80037	.06315	.80764	.06121	.81484	.06529	\$2198	.06637	34
27		06211	.50019	.06317	50776	.06423	81496	.06531	.82209	.06639	3.3
干 7		06213	8 80061	.06318	8,80788	.06125	8.81508	.06532	8.82221	.06641	32
29		06214	80073	.06320	50800	.06127	\$1520	.06534	. 82233	.06642	31
30		06216	.50086	.06322	.80812	.06129	.81531	.06536	.82245	.06611	30
31		06218	80098	.06324	.80824	.06130	.81543	.06538	.82257	.06616	29
<b>王</b> " 8'	8,79377	66330	8,80110	.06326	8,80836	.06432	8,81555	.06540	8.82269	.06615	28
.3.3	.79390 .0	06351	80122	.06327	80848	.06434	.81567	.06511	.82280	.06650	27
3.4	.79402 4	06553	50134	.06329	,80360	.06435	.81579	.06543	.82292	.06652	26
5.5		06552	.80146	.06331	.80872	.06138	81591	.06545	82304	.06653	2.5
4 9'		06227	8 80158	.06333	8,80884	.06439	8.81603	.06517	8 82316	.06655	24
37		06559	80171	.06334	.80896	.06141	.81615	.06549	\$2328	.06657	2.8
38		06230	.80183	.06336	.80908	.06113	.81627	.06550	. \$2340	.06659	22
.29		66533	.80195	.06338	>0920	06115	.81639	.06552	.82351	.06661	21
10"		06234	8,80207 80219	.06310	8,80932	.06446	8.81651	.06554	8.82363	.06662	20
-11		06236 06237	.80231	.06344	.509.U1 80956	.06118	.81663 .81675	.06556	_82375 82387	.06664	19
42		06239	80243	.06315	80968	.06452	.81675	.06559	S2399	.06668	18 17
		06241	5,80256	.06317	5 80980	.06454	\$ 81699	.06561	8 82410		16
~ 11'		06243	80268	.06319	.80992	.06455	\$1710	.06563	\$ \$2410	.06670	15
\$1;		06211	80280	.06350	51004	.06157	.81722	.06565	82431	.06673	13
17		06216	80292	.06352	\$1016	.06459	81734	.06567	82116	.06675	13
. 121		06248	8 80304	.06354	8 81028	.06161	8 81746		8 82458	.06677	12
19		06250	.80316	.06356	81040	.06463	.81758	.06570	82470	.06679	11
50		06251	80028	.06357	81052	.06164	81770	.06572	.82481	.06681	10
51	79610 (	06253	50.340	.06359	5/061	.06166	81782	.06571	.82493	.06652	. 94
+ 13		06255	5 80353	.06361	8.81076	.06165	8 81791	.06576	8,82505	.06654	N
58	79634	06257	.80365	.06363	81088	.06170	.81806	.06577	.82517	.06686	7
54	79647	06258	80377	.06365	.81100	.06171	.81818	.66579	.82529	.06658	- 6
55		06560	80389	.06366	81112	.06473	818.30	.06581	.82540	.06690	5
4 141		06565	5.50101	.06365	8 81124	.06475	8 81841	.06553	8,82552	.06691	
.57		06264	50413	.06370	.81136	.06177	.,\$1853	.065%5	.82564	.06693	-2,
58		06265	80425	.06372	.81148	.06179	.81865	.06556	82576	.06695	
59		06267	.80437	.06373	81160_	.06150	\$1877	.06554	32533	.06697	1
15	8 79720 - 3	06269	8-80449	.06375	8.81172	.06482	× ×1××0	.06590	8 82599	.06699	0
				0.00		1000		6 ***			1
	h.;m		534	2 111	227	2m	224	$I^{in}$	197	11-4	

	2h 0m	30° 0′	2h 1m	30° 15′	2h 2m	30° 30′	⊋h gm;	30° 45′	2h 4m	31° 0′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	S
0	8.82599	.06699	8.83303	.06808	8.84002	.06919	8.84694	.07030		.07142	60
$\frac{1}{2}$	.82611 .82623	.06701	.83315 .83327	.06810	.84013 .84025	.06920	.84705 .84717	.07033	,85391 ,85403	.07144	59
3	.82635	.06704	.83338	.06814	.84036	.06924	.84728	.07035	.85405	.07117	58 57
+ 1'	8.82646	.06706	8.83350	.06816	8.84048	.06926	8.84740		8.85425	.07149	56
5	.82658	.06708	.83362	.06817	.84059	.06928	.84751	.07039	.85437	.07151	55
6 7	.82670 .82682	.06710	.83374 .83385	.06819	.84071 .84083	.06930	.84762 .84774	.07011	.85148 .85459	.07153	54
+ 2'	8.82694	.06713	8.83397	.06823	8.84094	.06933	8.84785	.07045	8.85471	.07157	53
9	.82705	.06715	.83409	.06825	.84106	.06935	.84797	.07046	.85482	.07155	51
10 11	.82717 .82729	.06717	.83420 .83432	.06826 .06828	.84117 .84129	.06937	.84808 .84820	.07048	.85194 .85505	.07160	50 49
+ 3'	8.82741	.06721	8.83444	.06830	8.84140	.06911	8.84831	.07052	8.85516	.07164	48
13	.82752	.02792	.83455	.06832	.84152	.06943	.84843	.07054	.85528	.07166	47
14 15	.82764 .82776	.06724	.83467 .83479	.06834	.84164 .84175	.06944	.84854	.07056	,85539 ,85550	.07168	46
+ 1	8.82788	.96728	8.83490	.06838	8.84187	.06948	8.84877	.07059	8.85562	.07170	45 44
17	.82799	.06730	.83502	.06839	.84198	.06959	.84889	.07061	.85573	.07173	43
18	.82811	.06731	.83513	.06811	.84210	.06953	.84900	.07063	.85585	.07175	42
$\frac{19}{+5}$	.82823 8.82835	.06733	.83525 8.83537	-06843 $-06843$	.84221 8.84233	-06954	84912 8.84923	07065 07067	$\frac{.85596}{8.85607}$	.07177	41
21	.82846	.06737	.83548	.06847	.84244	.06957	.84934	.07069	,85619	.07151	39
22	.82858	.06739	.83560	.06849	.84 <b>2</b> 56	.06959	.84946	.07071	.85630	.07183	38
23	.82870	.06741	.83572	.06850	.84268	.06961	.84957	.07073	.85641	.07185	37
+ 6'	8.82882 .82893	.06742	8.83583 .83595	.06852	8.84279 .84291	.06963	8.84969 .84980	.07074	8.85653 .85664	.07157	36 35
26	.82905	.06746	.83607	.06856	.84302	.06967	.84992	.07078	.85675	.07190	34
27	82917	.06748	.83618	.06858	.84314	.06968	.85003	.07080	.85687	.07193	33
+ 7'	8.82929 .82940	.06750 .06752	8.83630 .83642	.06860 .06861	8.84325 .84337	.06970 .06972	8.85015 .85026	.07082	8.85698 .85709	.07194	32 31
30	.82952	.06753	.83653	.06563	.84348	.06974	.85037	.07086	.85721	.07198	30
31	.82964	.06755	.83665	.06865	.84360	.06976	.85049	.07087	.85732	.07200	29
+ 8'	8.82976	.06757	8.83676	.06867	8.84371	.06978	8.85060	.07059	8.85743	.07202	28
33 24	.82987 .82999	.06759	.83688 .83700	.06869	.84383 .84394	.06980	.85072 .85083	.07091	.85755 .85766	.07204	27 26
35	.83011	.06763	.83711	.06872	.84406	.06983	.85095	.07095	.85777	.07207	25
+ 9'	8.83023	.06764	8.83723	.06874	8.84417	.06985	8.85106	.07097	8.85789	.07209	24
37 38	.83034	.06766	.83735 .83746	.06876	.84429 .84441	.06987	.85117 .85129	.07099	.85800 .85811	.07211	23
39	.83058	.06770	.83758	.06880	.84452	.06991	.85140	.07102	.85823	.07215	21
+ 10'	8.83069	.06772	8.83769	.06882	8.84464	.06993	8.85152	.07104	8.85834	.07217	20
41 42	.83081	.06773	.83781	.06881 .06885	.84475 .84487	.06994	.85163 .85175	.07106	,85845 ,85857	.07219	19 18
43	.83105	.06777	.83804	.06887	.84498	.06998	.85186	.07110	.85868	.07223	17
+ 11'	8.83116	.06779	8.83816	.06859	8.84510	.07000	8.85197	.07112	8.85879	.07224	16
45	.83128 .83140	.06781	.83828 .83839	.06891	.84521 .84533	.07002	.85209 .85220	.07114	.85891 .85902	.07226	15 14
46 47	.83151	.06784	.83851	.06895	.84544	.07006	.85232	.07117	.85913	.07230	13
+ 12'	8.83163	.06786	8.83862	.06896	8.84556	.07007	8.85243	.07119	8.85925	.07232	12
49	.83175	.06788	.83874	.06898	.84567	.07009	.85254	.07121	.85936	.07234	11
50 51	.83187 .83198	.06790 .06792	.83886 .83897	.06900	.84579 .84590	.07011 .07013	.85266 .85277	.07123 .07125	.85947 .85959	.07236	10
+ 13'	8.83210	.06794	8.83909	.06904	8.84602	.07015	8.85289	.07127	8.85970	.07239	8
53	.83222	.06795	.83920	.06906	.84613	.07017	.85300	.07129	.85981	.07211	7
54 55	.83233 .83245	.06797	.83932 .83944	.06907	.84625 .84636	.07019	.85311 .85323	.07130	.85992 .86001	.07243 .07245	6 5
+ 14'	8.83257	.06501	8.83955	.06911	8.84648	07033	8.85334	.07134	8.86015	97347	4
57	.83268	.06803	.83967	.06913	.84659	.07024	.85346	.07136	.86026	.07249	3
58	.83280 .83292	.06805	,83978 .83990	.06915 .06917	.84671 .84682	.07026	.85357 .85368	.07138 .07140	,86038 ,86049	.07251	2
$\frac{-59}{+15'}$	8,83303	$\frac{.06806}{.06808}$	8.84002	.06917	8.84694	.07030	8.85380	.07142	8.86060		0
1 ~ ~											
	21h	59m	21h	58m	21h	57m	211	56m	21n	5.5 m	1

Page 836]

# TABLE 45.

					Haversh						
	2h 5m	31° 15′	2h 6m	31° 30′	2h 7m	31° 45′	2h Sm	3?° 0′	2h 9m	32° 15′	
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
10	S GONG	.07254	\$ 86735	.07368	8.87404	.07142	5 55068	.07598	8.85726	.07714	60
1	. 56072	.07256	.86746	.07370	.87415	.07151	.55079	.07600	.88737	.07716	59
- 2	86085	.07255	.86757	.07372	.87426	.07156	.88090	.07601	.88748	.07717	58
	SD094	.07260	56769	07371	.57437	-07185	. 55101	.07603	.88759	.07719	57
+ 1 5	561.47	.07363	8 86786 .86791	.07376	>744> >7460	.07490	8 88112 88123	.07603	8,85769	.07721	56 55
6	1125	.07366	86802	.07373	87471	.07491	58134	.07609	.88791	.07725	54
7	86139	.07265	.86813	.07381	.87 (82	.07496	.55145	.07611	88802	.07727	53
+ 3	5 56151	.07270	8 86825	.07353	8 87493	07194	8.88156	.07613	8.88813	.07729	32
. 9	.86162	.07271	.86836	.07385	.87501	.97500	.55167	.07615	.88824	.07731	51
10	86173 86184	.07273	.86847 .86858	.07357	.87517 .87526	.07502	.55174 .55159	.07617	. 88835	.07733	50
= 11 = 3	S 86196	.07275	5 56869	.07359	8.87537	.07503	8 88200	.07619	5.54557	.07735	49
1.	.86207	.07279	.56540	.07393	.87548	.07507	.85211	.07623	23313	.07739	48
1.1	\$6215	.07251	.86892	.07395	87559	.07509	58222	.07625	88879	.07741	46
1.5	86229	.07283	.86903	.07397	.87570	.07511	.88233	.07627	.88890	.07743	4.5
m 4	8 86241	.07255	8 86914	.07395	8.87582	.07513	8,88244	.07628	5.58900	.07715	44
17	.86252	.07257	.86925	.07400	87593	.07515	88255	.07630	.88911	.07747	43
18 19	.86263 · 86275	.07255	.86936 .86947	.07402 $.07401$	.87601 87615	.07517	.88266 .88277	.07632	.88922	.07749 .07751	42
- 13°	2 205km	.07292	8 86959	.07401	8 87626	.07521	8.85253	07636	8.88914	.07752	41)
7.21	.86297	.07291	.86970	.07108	.87637	.07523	.88299	.07635	,88955	.07754	39
22	86008	.07296	.86981	.07410	.87648	.07525	.88310	.07640	.88966	.07756	38
2.5	.86320	.07298	.86992	.07412	.87659	.07527	.88321	.07643	.88977	.07758	37
+ 6	8 86331	.07300	8.87003	.07411	8 87670	.07524	8.88332	.07641	8.88988	.07760	36
25 26	_86342 _86353	.07302	.87014	.07416	.87681 .87692	.07530	.88343 .88354	.07616	83998	.07762	35 34
27	56365	.07305	.87037	.07119	.87703	.07534	.88364	.07650	.89020	.07766	33
+ 1	8,86376	.07307	8.87048	.07121	8.87711	.07536	8.88375	07652	8.89031	.07768	32
29	86387	.07309	87059	.07423	.87725	.07538	.88386	.07651	.89042	.07770	31
30	.86398	.07311	.87070	.07425	.87737	.07540	.88397	.07656	.89053	.07772	30
51	.86410	.07323	87081	.07427	.57748	.07542	.88408	.07657	.89064	.07774	29
$+\frac{8}{3d}$	8,86421 .86432	.07315	8.87093 .87104	.07429	8.87759 .87770	.07544	8,88419 .88430	.07659	8,89075	.07776	28 27
5.7	.86443	.07319	.87115	.07133	.87781	.07548	.88411	.07663	.89096	.07780	26
85	.86455	.07321	.87126	.07135	.87792	.07549	.88 (52	.07665	.89107	.07782	25
+ 9'	8,86466	.07322	8.87137	.07437	8 87803	.07551	8.88463	.07667	8.89118	.07784	24
37	.86477	.07324	.87148	.07138	.87811	.07553	.88174	.07669	.89129	.07786	23
58 39	.86488	.07326	.87159 .87171	.07440	87825 87836	.07555	.88485	.07671	.89140 .89151	.07788	22
+ 10	8 86511	.073330	8.87182	.07444	8.87847	.07559	8 88507	.07673	8 89162	.07791	20
+ 10 +1	.86522	.07333	.87193	.07146	.87858	.07561	.88518	.07677	.89172	.07793	19
42	86533	.07331	.87204	.07448	.87869	.07563	.88529	.07679	.89183	.07795	18
.5. Y	.86544	.07336	87215	.07450	.87880	.07565	.88540	.07681	\$9194	.07797	17
+ ,11	8,86556	.07333	8.87226	.07152	5.57891	.07567	8,88551	.07653	8,89205	.07799	16
46	56567 56578	.07340	.87237 .87248	.07151	87902 87913	.07569	.88562 .88573	.076%5	.89216 .89227	.07501	15 14
47	×6554	.07313	87260	.07455	87921	.07573	.88581	.07655	89235	.07505	13
+ 12	S 86600 .	.07345	8 87271	.07159	8 87935	.07571	5.55595	.07690	8,89248	.07507	12
49	86611	.07317	.87282	.07461	87946	.07576	.88606	.07692	89259	.07809	11
50	.86623	.07349	.87293	.07463	87957	.07574	.55616	.07694	89270	.07811	10
+ 13	Stod4 Societie	.07351	.87301	.07465	8 87980	-07580	.88627	.07696	89281	07813	9
1 13	S6657	.07353	8 87315 87326 ii	.07169	87091	.07582	8,85635 ,55619	.07695	8,89292	.07515	8 7
35	56668	.07357	87.337	.07171	88002	.07586	88660	.07702	.89314	.07519	6
7.1	86679	.07359	87349	.07173	.880E1	.07555	.88671	.07701	.89321	.07821	ü
+ 16	· · 400	.07360	8 87360	.07475	8/85024	.07590	8,88682	.07706	8 895511	.07523	- 1
	291 701	.07362	\$7371	.07177	88035	.07592	88693	.07704	.89346	.07825	
		.07366	\$7,382 \$7,394	.07479	550.7	.07591	55701 55.15	.07710	59357	.07527	1
+ 15		.07300	\$ 57404	.07480	N N - 11/5	.07595	S = 1.26	.07711	A 2 1 (2.1)	.07540	', l
1 ' ' '	1	*1111110	. 1/ 1//4	.0714.		*01004		*174711	1 1 1 1 1 1	197 7:01	

	$z^h 10^m$	32° 30′	2h 11m	32° 45′	2h 12m	33° 0′	2h 13m	33′ 15′	2h 1.4m	33° 30′	
s	Log. Hav.	Nat. Hav.	Leg. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat, Hav.	Log. Hav.	Nat. Hav	S
0	8.89379 .89389	.07830	8.90026 .90037	.07918	8,90668 ,90679	.08066	8.91306	.98186	8.91938	.08306	60
1 2	.89389	.07832	.90037	.07950 .07952	.90679	.08068	.91316 .91327	.08188	.91948	.08308	59 58
3	.89411	.07836	.90058	.07954	.90700	.08072	.91337	.08192	.91969	.08312	57
+ 1'	8.89422	.07838	8.90069	.07956	8.90711	.08074	8.91348	.08194	8.91980	.08314	56
5 6	.89433	.07542	.90080	.07958	.90722 .90732	.08076	.91358	.08196	.91990 .92001	.08316	55 54
7	.89454	.07544	.90101	.07962	.90743	.08080	.91380	.08200	.92011	.08320	53
+ 2'	8.59465	.07846	8.90112	.07964	8.90754	.08082	8.91390	.08202	8.92022	.08322	52
9 10	.89476 .89487	.07848	.90123 .90134	.07966 .97968	.90764 .90775	.05084	.91401 .91411	.08204	.92032 .92043	.08324	51 5()
11	.89498	.07852	.90144	.07970	.90786	.08988	.91422	.08208	.92053	.08328	49
+ 3′	8.89509	.07854	8.90155	.07972	8.90796	.05090	8.91432	.08210	8.92064	.08330	48
13 14	.89519	.07856	.90166	.07974	.90807	.08092	.91443 .91454	.08212	.92074 .92084	.98332	47
1.4 1.5	.89541	.07860	.90187	.97978	.90828	.08094	.91464	.08214	.92084	.08334	46 45
+ 4'	8.89552	.07862	8.90198	.07980	8.90839	.08098	8.91475	.08218	8.92105	.08338	44
17	.89563	.07864	.90209	.07982	.90849	.08100	.91485	.08220	.92116	.08340	43
18 19	.89573 .89584	.07866	.90219 .90230	.07983 .07985	.90860 .90871	.08102	.91496 .91506	.08222	.92126 .92137	.08342	42 41
+ 5'	8.89595	.07870	8.90241	.07987	8.90881	.08106	8.91517	.08226	8.92147	.08346	40
21	.89606	.07872	.90252	.97989	.90892	.08108	.91527	.08228	.92158	.08348	39
22 23	.89617 .89627	.07873	.90262 .90273	.07991 .07993	.90903 .90913	.08110	.91538	.08230	.92168	.08350	38
+ 6'	8.89638	.07877	8.90284	.07995	8.90924	.08114	$\frac{.91549}{8.91559}$	.08234	.92179 $8.92189$	$\frac{.08352}{.08354}$	37
25	.89649	.07879	.90294	.07997	.90935	.08116	.91570	.08236	.92200	.08356	35
26	.89660	.07881	.90305	.07999	.90945	.08118	.91580	.08238	.92210	.08358	34
27 + 7'	.89671 8.89681	.07883	.90316 8.90326	.08001	.90956 8.90966	.08120	.91591	.08240	$\frac{.92221}{8.92231}$	.08360	33
+ 7'	.89692	.07887	.90326	.08003	.90966	.08122	8.91601 .91612	.08244	.92241	.08364	32
30	.89703	.07889	.90348	.08007	.90988	.08126	.91622	.08246	.92252	.08366	30
31	.89714	.07891	.90359	.08009	.90998	.08128	.91633	.08248	.92262	08368	29
+ 8'	8.89725 .89735	.07893 .07895	8.90369 .90380	.08011 .08013	$8.91009 \\ .91019$	.08130 .08132	8.91643 .91654	.08250 .08252	8.92273 .92283	.08370 .08372	28 27
34	.89746	.07897	.90391	.08015	.91030	.08134	.91664	.08254	.92294	.08374	26
35	.89757	.07899	.90401	.08017	.91041	.08136	.91675	.08256	.92304	.08376	25
+ 9'	8.89768	.07901	8.90412	.08019	8.91051 .91062	.08138	8.91685	.08258	8.92315	.08378	24
38	.89779 .89789	.07903	.90423 .90433	.08021	.91062	.08140	.91696 .91707	.08260	.92325 .92335	.08380	23
39	.89800	.07907	.90444	.08025	.91083	.08144	.91717	.08264	.92346	.08384	21
+ 10'	8.89811	.07909	8.90455	.08027	8.91094	.08146	8.91728	.08266	8.92356	.08386	20
41 42	.89822 .89832	.07911	.90466 .90476	.08029	.91104 .91115	.08148 .08150	.91738 .91749	.08268	.92367 .92377	.08388	19 18
43	.89343	.07915	.90487	.08033	.91126	.08152	.91759	.08272	.92388	.08392	17
+ 11'	8.89854	.07917	8.90498	.08035	8.91136	.08154	8.91770	.08274	8.92398	.08394	16
45 46	.89865 .89875	.07919 .07921	.90508 .90519	.08037 .08039	.91147 .91157	.08156	.91780 .91791	.08276 .08278	.92409 .92419	.08396	15 14
47	.89886	.07923	.90530	.08041	.91168	.08160	.91801	.08280	.92429	.08400	13
+ 12'	8.89897	.07924	8.90540	.08043	8.91179	.08162	8.91812	.08282	8.92440	.08402	12
49	.89908	.07926	.90551	.08045	.91189	.08164	.91822	.08284	.92450	.08404	11
50 51	.89919	.07928	.90562 .90572	.08047	.91200 .91210	.08166	.91833	.08286	.92461	.08406	10
+ 13'	8.89940	.07932	8.90583	.08051	8.91221	.08179	8.91854	.08290	8.92482	.08410	1
53	.89951	.07934	.90594	.08953	.91232	.0817?	.91864	.08292	.92492	.08112	8 7
54 55	.89962 .89972	.07936 .07938	.90604 .90615	.08055 .08057	.91242 .91253	.08174	.91875 .91885	.08294	.92502 .92513	.08414	6 5
+ 14'	8.89983	.97940	8.90626	.08057	8.91263	.08178	8.91896	-05298	8.92523	.08418	1-4
57	.89994	.07942	.90636	.08061	.91274	.08180	.91906	.98300	.92534	*.08420	3
58 50	,90005	.07944	.90647	.08063	.91284	.08182	.91917	.08302	.92541 .92554	.08422	2
+ 15'	.90015 8.90026	.07916	.90658 8.90668	.08065	.91295	.08184	.91927 8.91938	.08394	8.92565	.08427	$\frac{1}{0}$
Τ		1		1							1
1	21h	49m	21h	4810	211	A. C	21h	4615	1 21h	457n	ļ

	2h 15m	33° 45′	2h 16m	34° 0′	2h 17m	34° 15′	2h 18m	34° 30′	2h 19m	34° 45′	
4	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	s
U	8.92565	.05127	8,93487	.08548	8.93805	.05671	8.94417	.08794	8.95025	.05915	60
1	.92575	.08429	.93197	.05550	.93815	.05673	.94427	.08796	.95035	.08920	59
3	.92586 .92596	.08431	.93208 .93218	.08552	.93825 .93835	.08675	,94438 ,94448	.05798	.95045	.08923	58 57
+ 1'	8.92607	.05435	8.93228	.08556	8,93546	.05679	8,94458	.08802	8,95065	.08926	56
T 5	.92617	.08137	.93239	.05558	.93856	.08681	.91468	.08801	.95076	.08928	55
- 6	.92627	.08439	.93249	.05560	.93866	.08683	.94478	.08806	.95086	.05930	54
- 7	.92638	.08441	.93259	.08562	.93876	.08685	.94188	.05505	95096	.08932	5.3
+ ,2	8,92648	.08143	8.93270	.05564	8,93886	.05657	8.94198	.08510	8.95106	.05934	52
10	.92659 .92669	.08445	.93280 .93290	.05566	.93897	.05659	.94509 .94519	.08812	.95116 .95126	.05936	51
11	.92679	.05149	.93301	.05571	.93917	.08693	.94529	.05516	.95136	.05910	19
+ 3	8.92690	.08451	8.93311	.0573	8.93927	.05695	8,94539	.08518	8.95146	.05943	48
13	.92700	.08453	.93321	.08575	.93938		.94549	.08820	.95156	.05915	1.77
14	.92710	.08455	.93332	.05577	.93948	.05699	.94559		.95166	.05947	36
15	.92721	.08457	93342	.0~579	.93958	.05701	,94570	.08825	.95176	.08949	45
1'	8.92731 .92742	.08459	8,93352 ,93363	.05551	8.93968	.05703	8,94580 ,94590	.08827	8.95186	.0×951	44
18	.92752	.08463	.93373	.05553	.93979	.05703	.94600	.05531	.95197	.0×953 .0×955	4.8
19	.92762	.08465	93383	.05557	.93999	.05709	.94610	.08833	.95217	.05957	31
5'	8.92773	.05467	S.93393	.05559	8,94009	.08711	8.94620	.08835	8.95227	.05959	31)
21	.92783	.08169	.93404	.08591	.94019	.05714	.94630	.08837	.95237	.08961	.9
- 43	.92794	.08471	.93414	.08593	.94030	.08716	.94641	.08839	.95247	.05963	38
- 33	.92804	.08473	.93424	.08595	.94040	.05715	.94651	.08841	.95257	.04965	.87
$+\frac{6'}{25}$	8,92814 ,92825	.05475	8.93435 .93445	.05597	8,94050 .94060	.08720	8 94661 .94671	.08843	8.95267 .95277	.08967	36 35
26	.92835	.08179	.93455	.08601	.94074	.05724	.94681	.05517	.95287	.05972	34
27	.92845	.08481	.93466	.08603	.94081	.08726	94691	.08849	.95297	.05974	33
+ 7'	8.92856	.05483	8.93476	.08605	8,94091	.08728	8.94701	.08851	8.95307	.05976	.8.2
29	.92866	.08485	.93486	.05607	.91101	.05730	.94712	.08853	.95317	.05975	31
30 31	.92877	.05457	.93496	.05609	.94111	.08732	.94722	.05556	.95327	.05950	30
± 8'	8.92897	.08489	.93507 8.93517	.08611	.94122 8.94132	.08734	.94732   8.94742	.05554	.95337 8.95347	.08982	29
3.7	.92908	.05493	.93527	.05613	.94142	.08738	.94752	.08862	.95357	.05956	27
54	.92918	.08495	.93538	.05617	.94152	.08740	.94762	.08864	.95368	.05955	26
35	.92928	.05497	.93548	.08619	.94162	.05742	.94772	.05566	.95378	.08990	25
+ 9'	8.92939	.08499	8,93558	.08621	8.94173	.08744	8.94782	.05565	8,95388	.08993	24
- 37	.92949	.08501	.93568	.08621	.94183	.05746	.94793	.08870	.95398	.08994	2.8
.SS .S9	.92960	.08503	.93579 .93589	.08626	.94193 .94203	.05745	.94803	.05872	.95408	.05997	22 21
+ 10	8.92980	.08508	8.93599	.08630	8 94213	.05753	8.94823	.08576	5.95428	.09001	20
41	.92991	.0510	.93610	.05632	.94224	.05755	.94833	.05575	.95438	.09003	19
12	.93001	.08512	.93620	.08631	.94234	.05757	.94543	.05550	.95448	.09005	18
43	.93011	.05514	.93630	.05636	.94244	.04759	.94853	.05552	.95458	.09007	17
+ 117	8.93022	.08516	S 93640	.08638	8 94254	.08761	8.94863	.05555	8.95468	.09009	16
35 36	.93032 .93042	.08518	93651 93661	.05640	.94264 94275	.05763	.94874	.05557 .05559	.95478	.09011	15
- 37	.93053	.08522	93671	.08644	.94285	.05767	.94894	.08891	95498	.09013	13
+ 12	8 93063	.08524	8 93681	.08646	8 94295	.05769	8,94904	.08893	8,95508	.09017	77
39	,93073	.05526	.93692	.05615	.94305	.05771	.94914	.05595	.95518	.09019	11
50	.93084	.05525	93702	.05650	.94345	.08773	.94924	.08897	.95528	.09022	10
51	,93094	.05530	.93712	.08652	.94326	.05775	.94934	.05599	95538	.09921	- 12
+ 13'	8.93104   .93115	.08532	8 93722 93733	.05654	8 94336 .94336	.05777	8,94944 94954	.08901	8 95548 .95558	.09026	7
53	.93115	.05536	.93733	.08658	94356	.05751	94965	.05903	.95568	.09030	$\frac{1}{6}$
55	.93135	.08538	.93753	.08660	94366	.05753	91975	.08907	95578	.09033	.5
+ 14'	8.93146	.08540	8 93764	.08662	S 91376	.05755	8 91985	.08909	8 95588	.09034	- 5
57	s93156	.08542	.93774	.08664	94387	.05755	.91995	.08941	.95598	.09036	.8
5.8	.93166	.05514	.93784	.05666	.94397	.05790	95005	.05914	.95608	.09038	1
+ 15 ⁷	.93177 8.93187	.05516	93794 8 93805	.05665	91407 8 94417	.05799	.95015 8 95025	.08916	8,95628	.09010	$\frac{I}{O}$
+ 10	a.36187	.05015	6 95505	.05073	23/411/	.05.31	5 00020	.03015	~		"
	214.	} { m	, h		+ ! h	, ta	+ 21	} 1 m	114	1100	
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	th gon	35 6'	2h 21m	35° 15′	2h 22m	35 30'	3h 23m	35° 45′	2h 24m	36° 0′	Γ
s	Log. Hav.	Nat. It o	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav	s
U	×.9562×	.09042	8.96227	.09168	8.96821	.09291	8.97411	.09421	8.97997	.09549	60
I	.95638	.09011	.96237	.09170	.96831	.09296	.97421	.09423	.98006	.09551	59
	.95648 95658	.09047	.96247 .96257	.09172	.96841 .96851	.09298	.97431	.09426	.98016	.09553	48
+ 1	5 11 11/15	39951				.09301	.97411	.09428	.98026	.09556	57
+ 1	95678	.09053	8,96267 ,96277	.09176	8,96861 ,96871	.09303	8,97450 ,97460	.09430	8.98035 .98045	.09558	56
i i	95688	.00055	.96287	.99181	.96881	.09303	.97470	.09434	,98055	.09560	55 54
7	95698	.09057	96297	.09183	96890	.09309	.97480	.09136	.98065	.09564	53
+ 3	8,95709	.09059	8,96307	.09135	8,96900	.09311	8,97489	.09438	8.98074	.09566	52
9	.95719	.09061	.96317	.09187	.96910	.09313	.97499	.09140	.98084	.09568	51
10	.95729	.09063	.96326	.09189	.96920	.99315	.97509	.09443	.98094	.09571	50
11	,95739	09065	.96336	.09191	,96930	.09317	.97519	.09445	.98103	.09573	49
+ 3	8.95749	.09067	8.96346	.99193	8.96940	.09320	8,97529	.09447	8.98113	.09575	48
15 14	.95759	.09070	.96356	.09195	.96950	.09322	.97538	.09449	.98123	.09577	47
15	.957 <b>69</b> .95779	.09074	.96366 .96376	.09197	.96959 .96969	.09324	.97548	.09451	.98132	.09579	46 45
+ 1	8.95789	.09076	8,96386	.09303	8,96979	.09328	8.97568	.09455	.98142 8.98152	.09581	40
17	.95799	.09078	.96396	.09201	.96989	.09330	,97577	.09457	.98162	.09586	43
18	,95809	.09080	.96406	.09206	.96999	.09333	.97587	.99400	.98171	.09588	42
19	.95819	.09052	.96416	.09208	.97009	.09331	.97597	.09162	.98181	.09590	41
+ 5′	8,95828	.09081	8.96426	.09210	8.97018	.09337	8,97607	.09161	8.98191	.09593	40
21	,95838	.09086	.96436	.09212	.97028	.09339	.97617	.69466	.98200	.09594	39
2.7	.95848	.03088	.96446	.09214	.97038	.09341	.97626	.69463	.98210	.09596	38
23	,95858	.09990	.96455	.09216	.97048	.09343	.97606	.09479	.98220	.09595	-37
+ 6′	8.95868	.09093	8.96465	.09218	8.97058	.09345	8.97646	.09472	8,98229	.09601	σť
25 26	.95878 .95888	.09095	.96475	.09320	.97068	.09347	.97656	.09474	.98239 .98249	.09693	33
27	.95898	.09091	.96485	.09225	.97077 .97087	.09349	.97665 .97675	.09477	,98259	.09605	34 33
+ 7	8,95908	.09101	8.96505	.09227	8.97097	.09353	8.97685	.09431	8,98268	.09609	32
729	.95918	.09193	.96515	.09229	.97107	.09356	.97695	.09483	.98278	.09611	31
30	95928	.09105	.96525	.09231	.97117	.09358	.97701	.09185	,98283	.09613	30
31	.95938	.09107	.96535	.09233	.97127	.09360	.97714	.09487	.98297	.09616	29
+ 8'	5.95948	.09199	8,96545	.09235	8.97136	.09363	8.97724	.09489	8,98307	.03618	28
33	.95958	.09111	.96555	.09237	.97146	.09364	.97734	.09492	.98317	.09630	27
34	.95968	.09113	.96564	.09239	.97156	.09366	,97743	.09494	.98326	.09622	26
35	.95978	.09116	.96574	.00242	.97166	.09368	.97753	.09496	.98336	.09624	25
+ 37	8,95958 ,95998	.09118	8.96584 .9659 <b>4</b>	.09244	8.97176	.09370	8.97763	.09198	8.98346 .98355	.09626	24 23
38	,96008	.09133	.96604	.09348	.97186 .97195	.09373	.97773 .97782	.09500	,98365	.09631	22
39	.96018	.09124	.96611	.09250	.97205	.09377	.97792	.09504	.98375	.09633	21
+ 10′	5.96028	.09126	8.96624	.09252	8.97215	.09379	8.97802	.09506	8,98384	.09635	20
41	.96038	.09128	.96634	.09254	.97225 .97235	.09381	.97812	.09509	.98394	.09637	19
42	.96048	.09130	.96644	.09256	.97235	.09383	.97821	.09511	.98404	.09639	18
4.3	.96058	.09132	.96653	.09258	.97244	.09385	.97831	.09513	.98413	.09641	17
+ 11'	5.96068	.09134	8.96663	.09360	8.97254	.09387	8.97841	.09515	8.98423	.09613	16
45	.96078	.09136	.96673	.09763	.97264	.09389	.97851	.09517	.98433 .98442	.09646	15 14
46 47	.96088 .96098	.09139	.96683 .96693	.09265	.97274 .97284	.09393	.97860 .9787 <b>0</b>	.09519 .09521	.98442	.09650	13
	8.96108	.09143	8.96703	.09269	8.97294	.09394	8.97880	.09524	8.98462	.09653	12
+ 12'	.96118	.09145	.96713	.09309	.97303	.09398	.97890	.09526	.98471	.09654	11
50	.96128	.09147	.96723	.09273	.97313	.09100	,97899	.09528	.98481	.09656	10
51	.96138	.09149	.96733	.09275	.97323	.09403	.97909	.09530	.98491	.09658	9
+ 13'	8.96148	.09151	8.96742	.09277	8.97333	.09404	8.97919	.09532	8.98500	.09661	8
53	.96158	.09153	.96752	.09280	.97343	.09406	.97928	.09534	.98510	.09663	7
54	.96167	.09155	.96762	.09282	.97352	.09409	.97938	.09536	.98520	.09665	6 5
55	.96177	.09157	.96772	.09284	.97362	.09411	.97948	.09538	.98529	.09667	
+ 11'	8.96187	.09160 .09162	8.96782	.09286	8.97372	.09413	8,97958	.09541	8.98539 ,98549	.09669	3
57 58	.96197 .96207	.09162	.96792 .96802	.09288	.97382 .97392	.09415	.97967 .97977	.09545	.98558	.09673	3
59	.96217	.09166	,96812	.09292	.97401	.09419	.97987	.09517	,98568	.09676	ĩ
+ 15'	8.96227	.09168	8.96821	.09294	8.97411	09421	8.97997	09549	8,98578	.09678	0
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	21h	39m	21h	SSm	21h	37m	21h	$36^{m}$	-21h	J.5m.	1
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TABLE 45.

	2h 25m	36° 15′	2h 26m	36° 30′	2h 27m	36° 45′	2h 38m	37° 0′	2h 29m	37° 15′	
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	S
0	8.95575	.09675	8.99154	.09807	8.99727	.09937	9.00295	.10068	9.00560	.10200	60
1	.98587	.09650	.99164	.09809	.99736	.09939	.00305	.10070	.(00×69	.10202	59
3	.98597 .98606	.09652	.99173	.09511	.99746	.09952	.00314	.10073	.00878	.10204	58 57
+ 1	8.98616	.09656	8.99193	.09516	8.99765	.09946	9.00333	10077	9.00897	.10209	56
5	.98626	.09689	.99202	.09818	.99774	.09948	00342	.10079	.00906	.10211	35
6	,98635	.09691	.99212	.09820	.99784	.02950	.00352	.10051	.00916	.10213	54
7	98645	.09693	.99221	.09522	.99793	.09953	.00361	.100>1	.00925	.10215	53
+ 2'	8.98655	.09695	8.99231 .99240	.09824	8,99803 .99812	.09955	9 00371	.10056	9.00935	.10215	52 51
10	.98674	.09699	.99250	.09829	99822	.09959	.00390	.10090	.00953	.10222	50
11	.98684	.09701	.99260	.09831	.99831	.09961	,00399	.10092	.00963	.10224	49
+ 3′	8,98693	.09704	8.99269	.09833	8.99811	.09963	9.00405	.10095	9.00972	.10226	45
13 14	.98703 .98712	.09706	.99279	.09835	.99550	.09966	.00418	.10097 .10099	00981 00991	.10225	47
15	.98722	.09710	.99295	.09531	.99869	.09970	.00437	.10101	.00000	.10233	46
+ 4'	8 98732	09712	8,99307	.09842	8.99879		9,00146	.10103	9.01009	.10235	44
17	98741	.09714	.99317	.09514	.99555	.09974	.00456	.10105	.01019	.10237	43
18	.98751	.09717	.99327	.09846	.99898	.09977	.00465	.10108	.01028	.10240	43
+ 5'	.98761 8 98770	.09719	,99336 8,99346	.09848	.99907 8-99917	.09979	9 00451	10110	.01037	.10242	-41
+ 21	.98780	.09721	.99355	.09%50	.99917	.09951	00451	.10112	9 01047	.10241	40 39
22	98790	.09725	.99365	.09855	.99936	.09985	.00503	.10116	.01065	.10245	58
23	.98799	.09727	.99374	.09857	.99945	.09987	.00512	.10119	.01075	.10251	37
+ 6	8 98809	.09729	8,99384	.09859	8 99955	.09990	9,00522	.10121	9.01051	.10253	36
25 36	.98818 .98828	.09732	.99393	.09861	.99961	.09992	.00531	.10123	.01093	.10255	33 33
27	98838	.09736	.99412	.09866	99983	.09996	00550	.10127	01112	.10259	133
+ 7'	8,98517	.09738	8.99422	.09868	8 99993	.09995	9,00559	.10130	9.01122	.10262	35
9	.98857	.09710	.99432	.09870	9 000002	.10000	,00569	.10132	.01131	.10264	zI
S0 S1	98876	.09742	.99441 99451	.09572	21000. 12000	.10003	.00575 00557	.10131	.01110	.10266	20 9
+ 8'	\$ 98886	.09715	8,99460	.09574 09576	9.00031	.10095 .10007		.10136	.01150 9.01159	.10265	18
35	.98895	.09749	.99470	.09579	.(000-10	.10009	.00606	.10131	.01168	.10273	
34	98905	.09751	.99479	.09581	.00049	.10011	00616	.10143	.01178	.10275	26
35	.98915	.09753	.99489	.09853	.00059	.10011	.00625	.10145	.01187	.10277	15
+ 9'	8.98924	.09755	8,99498 ,99508	.09885	9.00065	.10016	9 00633	.1 117	9 01196	.10279	- 5
38	98943	.09757	.99517	.09590	.00075	.10018	.00631	.10149	.01206 .01215	.10281	13 12
.59	98953	.09762	99527	.09892	,00097	.10022	00663	.10154	01224	.10286	21
+ 10'	8 98963	.09761	8,99536	.09891	9.00106	.10025	9.00672	.10156	9.01231	.10255	20
41	.98972	.09766	.99546	.09896	.00116	.10027	00651	.10155	.01243	.10290	19
42	.98982 98991	.09768	.99556 .99565	.09898	72100, 72100	.10029	00691	.10160	.01252 -01262	.10293	18 17
11'	\$ 99001	.09773	8 99575	.09903	9 00111		:00710	.10165	9 01271	.10297	141
45	.99011	.09775	.,99584	.09903	(0015)	.10035	00739	.10167	01280	.10299	15
\$1.	99020	.09777	,99594	.09907	.00163	.10035	.00728	.10169	.01289	.10301	14
12	99030 8 99039	.09779	.99603 8.99613	.09909	9.00152	.10010	0.0735	.10171	.01299	.10304	13
39	5 990.39	.09781	8 99613 99622	.09913	00151	.10012 .10014	9,00747 00756	.10171	01317	.10306	11
50	9901%	.09786	.99632	.09916	00201	.10016	.00766	.10178	01327	.10310	10
-51	99068	.09788	99631	.09918	00210	.10019	00775	.10180	01336	.10312	.9
13	S 190E/S	.09790	\$ 99651	.09920	9.00,20	.10051	9.00785	.10182	9 01345	.10315	8
33	00000	.09792	.956500 95670	.09922	002,9	.10053	.00794	.10181	.01355	.10317	7
55	99106	.09796	99679	.09926	.00235	.10053	.00513	.10157	.01373	.10313	- 5
111	8 99116	.09799	8 99689	.09929	9.000%	.10059	9 00522	.10191	9.0138 -	.10323	-5
.57	99126	.09501	99695	.09931	.00, 67	.10062	0.0831	.10193	.01392	.10326	.5
5.8	99135 99115	.09803	995.08	.09933	.00276	.10061	00541	.10196	.01 [0]	.10325	2
= 39 = 15	59115 5 99153	.09507	99,17 8,99797	.09935	9 (10.2%)	.10066	9 00540	.10198	9 01 (20	$-\frac{10330}{10332}$	$-\frac{1}{\theta}$
1. 1.3	1	10:1507		.000,047		.10065		_	-	.10000	
		, .	+yh		1.5	1	15	+1"	121		

	2h 30m	37° 30′	2h 31m	37 45'	2h 32m	38° 0′	2h 33m	38° 15′_	2h 34m	35 : 30 '	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Ha	s
0	9.01420	.10332	9.01976	.10466	9.02528	.10599	9.03077	.10731	9,03621	.10870	60
1	.01429	.10335	.01985	.10468	.02538	.10602	.03086	.40736	.03630	.10872	59
2	.01438	.10337	.01995	.10470	.02547	.10604	.03095	.10739	.03639	.10874	58
3	.01448	.10339	.02004	.10472	.02556	.10606	.03104	.10741	.03648	.10876	.57
+ 1'	9.01457	.10341	9.02013	.10474	9.02565	.10608	9.03113	.10743	9,03657	.10879	56
5	.01466	.10343	.02022	.10477	.02574	.10611	.03122	.10745	.03667	.10881	55
6	.01476	.10346	.02031	.10479	.02583	.10613	.03131	.10748	.03676	.10883	54
7	.01485	10348	.02041	.10481	.02593	.10615	.03141	.10750	.03685	.10885	53
+ 2′	9.01494	.10350	9.02050	.10483	9.02602	.10617	9.03150	.10752	9.03694	.10888	57
9 10	.01504	.10352 .10354	.02059	.10486	.02611	.10620	.03159	.10754	.03703	.10590	50
11	.01522	.10357	.02068	.10499	.02620	.10634	.03168	.10757	.03712	.10892	49
	9.01531	.10351	9.02087	.10493	9.02638	.10626	9.03186	.10761	9.03730	.10597	48
$+ \frac{3}{13}$	.01541	.10359	.02096	.10494	.02648	.10629	.03195	.10763	.03739	.10597	47
14	.01550	.10363	.02105	.10497	.02657	.10631	.03204	.10766	.03748	.10901	46
15	.01559	.10366	.02115	.10499	.02666	.10633	.03213	.10768	.03757	.10904	4.5
+ 4'	9.01569	.10368	9.02124	.10501	9.02675	.10635	9.03222	.10770	9.03766	.10906	44
17	.01578	.10370	.02133	.10503	.02684	.10638	.03231	.10772	.03775	.10908	43
18	.01587	.10372	.02142	.10506	.02693	.10640	.03241	.10775	.03784	.10910	42
- 19	.01596	.10374	.02151	.10508	.02702	.10642	.03250	.10777	.03793	.10913	41
+ 5'	9.01606	.10377	9.02161	.10510	9.02712	.10644	9.03259	.10779	9.03802	.10915	40
21	.01615	.10379	.02170	.10512	.02721	.10647	.03268	.10781	.03811	.10917	39
22	.01624	.10381	.02179	.10515	.02730	.10649	.03277	.10784	.03820	.10919	38
23	.01634	.10383	.02188	.10517	.02739	.10651	.03286	.10786	,03829	.10922	-37
+ 6'	9.01643	.10386	9.02197	.10519	9.02748	.10653	9.03295	.10788	9.03838	.10924	36
25	.01652	.10388	.02207	.10521	.02757	.10655	.03304	.10790	.03847	.10926	35 34
26 27	.01661	.10390 .10392	.02216 .02225	.10523 .10526	.02767 .02776	.10658 .10660	.03313	.10793 .10795	.03856	.10929 .10931	33
	9.01680		9.02234	.10528	$\frac{.02776}{9.02785}$		9.03331	.10797	9.03874	.10933	32
+ 7'	.01689	.10394	.02244	.10538	.02794	.10662	,03340	.10797	.03883	.10935	31
30	.01698	.10399	.02253	.10532	.02803	.10667	.03350	.10802	.03892	.10938	30
31	.01708	.10401	.02262	.10535	.02812	.10669	.03359	.10804	.03901	.10940	29
+ 8'	9.01717	.10403	9.02271	.10537	9.02821	.10671	9.03368	.10806	9.03910	.10942	28 27
33	.01726	.10405	.02280	.10539	.02830	.10673	.03377	.10809	.03919	.10944	
34	.01736	.10408	.02290	.10541	.02840	.10676	.03386	.10811	.03928	.10947	26
35	.01745	.10410	.02299	.10544	.02849	.10678	.03395	.10513	.03937	.10949	25
+ 9′	9.01754	.10412	9.02308	.10546	9.02858	.10650	9,03404	.10815	9.03946	.10951	24
37	.01763	.10414	.02317	.10548	.02867	.10652	.03413	.10818	.03955	.10953	23 22
38	.01773	.10417	.02326	.10550	.02876	.10685	.03422	.10820	.03964	.10956	21
39	.01782	.10419	.02336	.10552	.02885	.10687	.03431	.10822	.03973	.10958	20
+ 10'	9.01791	.10421	9.02345	.10555	9.02894	.10689	9.03440	.10824	9.03982	.10960 .10963	19
41	.01800 .01810	.10423	.02354	.10557 .10559	.02904 .02913	.10691 .10694	.03449	.10829	.04000	.10965	18
42 43	.01819	.10428	.02372	.10561	02922	.10696	.03467	.10831	.04009	.10967	17
+ 11'	9.01828	.10430	9.02381	.10564	9.02931	.10698	9,03476	.10833	9.04018	.10969	16
45	.01837	.10432	.02391	.10566	.02940	.10700	03486	.10836	.04027	.10972	15
46	.01847	.10434	.02400	.10568	.02949	.10703	.03495	.10838	.04036	.10974	14
47	.01856	.10436	.02409	.19570	.02958	.10705	.03504	.10840	.04045	.19976	13
+ 12'	9.01865	.10439	9.02418	.10573	9,02967	.10707	9,03513	.10842	9.04054	.10978	1.
49	.01874	.10441	.02427	.10575	.02977	.10709	.03522	.10845	.04063	.10981	1.1
50	.01884	.10443	.02437	.10577	.02986	.10712	.03531	.10817	.04072	.10953	10
51	.01893	.10445	02446	.10579	.02995	.10714	.03540	.19819	.040×1	.10955	9
+ 13′	9.01902	.10148	9.02455	.10582	9.03004	.10716	9,035:9	.10551	9,04090	10000	8 7
53	.01911	.10450	.02464	.10584	.03013	.19718	.03568	.10854	.04099 .04108	.10990	6
54	.01921	.10452	.02473	.10556 .10588	.03022	.10721	.03576	.10858	.04108	.10994	5
55	.01930	.10454	9.02492	.10591	9,03040	.10725	9,03585	.10861	9,04126	.10997	1
+ 14' 57	$9.01939 \\ 01948$	.10457 .10459	02501	.10593	.03050	.10727	,03594	.10863	.04135	.10999	1 3
58	.01958	.10453	.02510	.10595	.03059	.10730	,03603	.10865	.04144	.11001	J.
59	.01967	.10463	.02519	.10597	.03068	.10732	.03612	.10567	.04153	.11004	1
+ 15'	9.01976	.10466	9.02528	.10599	9.03077	.10734	9.03621	.10570	$9.0416\bar{2}$	.11006	0
l ' '"	<b> </b>	1			l		]	1	I		
	21h	29m	:1h	$A^{\otimes m}$	21h	.~m	21h	$_{'}\epsilon_{i}^{m}$	./1h	2.5m	

Page 842]

#### TABLE 45.

			-		. Traversii	nes.					
	1h 1150 30	\$ 45	2 - 36 m	39 0'	2h; m	391 457	, 5, sm	39° <b>3</b> 9′	25 779	39° 45′	1
-	Log. Hav. 5	lev.	Lor. day.	Nat. Hav.	Los Hay.	Nat. Hav	Log. Hav.	Nat. Has	Log. Hav.	Nat. Hav.	S
	9 (4162	.11006	9.04699	.11143	9.05232	.11250	9.05762	.11119	9.06288	.11558	60
1	.04171	.11008	.04705	.11115	.05241	.11253	.05771	.11421	.06297	.11560	59
	04180 : 04189 [	.11919	.04717	.11147	.05250	.11255	.05780	.11423	.06305 .06314	.11563 .11565	58 57
	0.1150		9.04735	.11152	9.05268	.11290	9.05797	11428	9,06323	.11567	55 55
	101207	.11017	.04744	.11154	.05277	.11292	.05806	.11130	.06332	.11569	55
	.01216	.11019	.04753	.11156	.05285	,11291	.05815	.11433	.06340	.11572	5\$
	.04225	.11022	.04761	.11159	.05294	.11296	.05823	.11435	306349	.11574	53
2	9.04234	.11021	9,04770	.11161	9,05303	.11299	9.05832	.11437	9.06358	.11577	52
	04243	.11026	.04779	.11163	.05312	.11361	.05841	.11440	.06367	.11579	51
	1 .03252 1 -04261	.11020 .11031	.04788 04797	.11165	,05321 ,05330	.11303	.05850 .05859	.11442	.06375	.11581	.50 .49
3	19 04270	.11033	9.01506	.11170	9,05339	.11308	9.05867	.11417	9.06393	.11556	48
, ,	.01279	.11035	.01815	.11172	.05347	.11310	.05876	.11449	.06401	.11555	47
	.04288	.11035	.04824	.11175	.05356	.11313	05885	.11451	.06410	.11590	46
-	.04297	.11040	.04833	.11177	,05365	.11315	.05894	.11453	.06419	.11593	45
41	9.03.406	.11042	9 04842	.11179	9,05374		9.05903	.11456	9.06428	.11595	111
	04.35 34321	.11011	04851 ,04859	.11152	.05383 .05392	.11329	.05911	.1145%	.06436	.11597	47
-,	01.33	.11019	.01868	11186	05400	.11321	.05929	.11463	.06454	.11602	41
5		.11051	9.04877	.11159	9.05409	.11326	9.05938	.11465	9 06462	.11601	30
.1	04.50	.11054	.04886	.11191	.05418	.11329	.05946	.11167	.06471	.11607	. 9
- 2		.11056	.04895	.11193	.05427	.11331	.05955	.11170	.06480	.11609	-33
1 1		.11058	04904	.11195	.05436	.11333	.05964	.11472	06489	.11611	-7
+ 6'	9.01.57	.11060 .11063	9 04913 04922	.11195	9,05415 (65453	.11336	9.05973 .05982	.11171	9.06497	.11614	6
- ','		.11065	04031	.11200	.05462	.11310	.05990	.11179	06515	.11618	
	.01104	.11067	,019039	.11265	05471	.11313	.05999	.11451	.06523	.11621	
E 71	0.04413	.11070	9.04945	.11307	9.05480	.11345	9.06005	.11454	9,06532	.11623	
- 7	.04 (22	.11972	.0±157	.115.00	p05480	.11317	06017	.111×6	.065 日	.11525	
10	01431	.11071	.04966 04175	.11211	0.498	.11319	.06025 -06034	.11188	,03550 ,03573	.11625	٠,
	9,01(49	.11076	9 0 1984	.11316	9 05515	.11351	9.06043	.11193	9,06557	.11637	
	01158	.11031	04993	.11218	.07524	.11356	.06052	.11195	,06576	.11635	1 -
	.01167	.11053	.05002	.11221	05533	.11359	06060	.11198	.06584	.11637	.5
	01476	.116%6	.0 :011	.11553	.05542	.11361	.06069	.11500	06593	.11030	
9	9 01185	.11055	9,05019	.11225	9 85551	.11363	9-06078	.11502	9,05602	.11613	1 .
1	01191	.11090	.05028 .05037	.11228 .11230	.05559 .05568	.11366	06087	.11504	.06611 .06619	.11611	1 :
	03512	.11092	(6016	.11232	05577	.11368	.06095	.11507 .11569	.06628	.11619	1
+ 10		.11097	9:00055	.11234	9.05586	.11373	9 06113	.11511	9.06637	.11651	0
		.11099	.05064	.11237	.05595	.11375	.06122	.11514	.06615	.11653	127
,	.01538	.11102	.()5()73	.11239	.05603	.11377	.06131	.11516	06651	.11656	1.
		.11101	.05082	.11311	.05612	.11379	.061.11	.11518	.06663	.11655	17
~ 11	76,04556 -,04565	.11106	9,05090	.11244	9.05621	.11382	9,06148 ,06157	.11521	9,06671	.11660	16 15
		.11111	.05[08	.11248	05639	.11354	.06166	.11525	.06689	.11665	13
12	.04583	.11113	.05117	.11251	.05648	.11389	.06174	.11528	.06697	.11667	13
1 12		.11115	9.05126	.11253	9,05656	.11391	9.06183	.11530	9.06706	.11679	13
. /		.11117	.05135	.11255	.05665	.11393	.06192	.11532	.06715	.11672	11
17		.11120	.05144	.11257	05674	.11396	06201	.11535	.06724	.11671	10 9
13		.11122	.05453 9-05161	.11260	05683 9-05692	.11398	.06209 9.06218	.11537	.06732 9.0674E	.11677	8
1-4		.11124	.05170	.11264	0.000	.11103	06227	.11542	.06750	.11681	7
		.11129	.05179	.11267	.05709	.11105	.06235	.11514	.06758	.11654	6
	.0 (654	.11131	.05188	.11269	.05718	.11107	.06244	.11516	.06767	.11686	_5
+ 11		.11131	9-05197	.11271	9-05/727	.11110	9.06253	.11519	9,06776	.11655	-\$
,		.11136	05206	.11271	.05736	.11112	.06262	.11551	.06751	.11691	3
		.11138	05215 05223	.11276	05753	.11111	.06270	.11553	.06793	.11693	1
4 15		.11113	9 (6)232	.41280	9.05769	.11119	9.06288	.11558	9_06510	.11698	-17
"			7 11 72 12								,
	1/4		172		214	1773	21ħ	·1m	214	2/3711	

	2h 40m	100 0'	2h 41m	102 15/	ah tam	40° 30′	2h 43m	100 45/	1h //m	41° 0′	$\dashv$
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.		Log. Hav.		Log. Hav.		8
0	9.06810	.11698	9.07329		9.07845						
1	.06819	.11700	.07338	.11838	.07853	.11980	9.08357 .08365	.12122	9.08865 .08874	.12265	60 59
2	.06828	.11702	.07346	.11843	.07862	.11984	.08374	.12127	.08882	.12269	58
.9	.06836	.11705	.07355	.11845	.07870	.11987	.08382	.12129	.08890	.12272	57
+ 1'	9.06845	.11707	9.07364	.11848	9.07879	.11989	9.08391	.12131	9.08899	.12274	56
5	.06854	.11709	.07372	.11850	.07887	.11992	.08399	.12134	.08907	.12276	55
6	.06862	.11712	.07381	.11852	.07896	.11994	.08408	.12136	.08916	.12279	54
7	.06871	.11714	.07390	.11855	.07905	.11996	.08416	.12138	.08924	.12281	53
+ 2'	9.06880	.11716	9.07398	.11857	9.07913	.11999	9.08425	.12141	9.08933	.12284	52
9	.06888	.11719	.07407	.11860	.07922	.12001	.08433	.12113	.08941	.12286	51
10	.06897	.11721	.07415	.11862	.07930	.12003	.08442	.12146	.08949	.12288	50
11	.06906	.11724	.07424	.11861	.07939	12006	.08450	.12118	.08958	.12291	49
+ 3'	9.06914	.11726	9.07433	.11867	9.07947	.12005	9.08459	.12150	9.08966	.12293	48
13	.06923	.11728	.07441	.11869 .11871	.07956 $.07964$	.12010	.08467	.12153	.08975	.12296	47
1 / ₁ 15	.06932	.11731	.07458	.11874	.07973	.12015	.08475	.12155	.08983	.12300	46 45
+ 4'	9.06949	.11735	9.07467	.11876	9.07981	.13015	9.08492	.12160	9,09000	.12303	44
17	.06958	.11733	.07476	.11878	.07990	.12020	.08501	.12162	.09009	.12305	43
18	.06966	.11710	.07484	.11881	.07999	.12022	.08509	.12165	.09017	.12307	42
19	.06975	.11742	.07493	.11883	.08007	.12025	.08518	.12167	.09025	.12310	41
+ 5'	9.06984	.11745	9.07501	.11885	9.08016	.12027	9.08526	.12169	9.09034	.12312	40
21	.06992	.11747	.07510	.11888	.08024	.12029	.08535	.12172	.09042	.12315	39
22	.07001	.11749	.07519	.11890	.08033	.12032	.08543	.12174	.09051	.12317	38
2.3	.07010	.11752	07527	.11892	.08041	.12034	.08552	.12176	.09059	.12319	37
+ 6'	9.07018	.11754	9.07536	.11895	9.08050	.12036	9.08560	.12179	9.09068	.12322	36
25	.07027	.11756	.07544	.11897	.08058	.12039	.08569	.12181	.09076	.12324	35
26	.07036	.11759	.07553	.11900	.08067	.12041	.08577	.12184	.09084	.12327	34
27	.07044	.11761	.07562	11902	.08075	-12044	.08586	.12186	.09093	.12329	33
+ 7'	9.07053 .07062	.11763 .11766	9.07570	.11904	9.08084	.12046	9.08594	.12188	10100.0	.12331	32
30	.07070	.11768	.07587	.11909	.08101	.12051	.08611	.12193	.09118	.12336	30
31	.07079	.11770	.07596	.11911	.08110	.12053	.08620	.12195	.09126	.12339	29
+ 8'	9.07088	.11773	9.07605	.11914	9.08118	.12055	9.08628	.12198	9.09135	.12341	28
33	.07096	.11775	.07613	.11916	.08127	.12058	.08637	.12200	.09143	.12343	27
34	.07105	.11777	.07622	.11918	.08135	.12060	.08645	.12203	.09152	.12346	26
35	.07113	.11780	.07630	.11921	.08144	.12062	.08654	.12205	.09160	.12348	25
+ 9'	9.07122	.11782	9.07639	.11923	9.08152	.12065	9.08662	.12207	9.09169	.12351	24
37	.07131	.11784	.07647	.11925	.08161	.12067	.08671	.12210	.09177	.12353	23
38	.07139	.11787	.07656	.11928	.08169	.12070	.08679	.12212	.09185	.12355 .12358	22 21
39	.07148	.11789	.07665	.11930	.08178	.12072	.08687	.12214	9.09202	.12360	$\frac{z_1}{20}$
+ 10'	$9.07157 \\ .07165$	.11791 .11794	$9.07673 \\ .07682$	.11933 .11935	9.08186 .08195	.12074	9.08696 .08704	.12217	.09202	.12360	19
42	.07174	.11794	.07690	.11937	.08203	.12079	.08713	.12222	.09211	.12365	18
43	.07183	.11798	.07699	.11940	.08212	.12081	.08721	12221	.09227	.12367	17
+ 11'	9.07191	.11801	9.07708	.11942	9.08220	.12084	9.08730	.12226	9.09236	.12370	16
45	.07200	.11803	.07716	.11944	.08229	.12086	.08738	.12229	.09244	.12372	15
46	.07208	.11806	.07725	.11917	.08237	.12089	.08747	.12231	.09253	.12374	14
47	.07217	.11808	.07733	11949	.08246	.12091	08755_	12233	.09261	.12377	1.3
+ 12′	9.07226	.11810	9.07742	.11951	9.08254	.12093	9.08764	.12236	9.09269	.12379	12
49	.07234	.11813	.07750	.11954	.08263	.12096	.08772	.12238	.09278	.12382	11
50	.07243	.11815	.07759 .07768	.11956 .11958	.08271 .08280	.12098 .12100	.08781 .08789	.12241	.09286 .09295	.12384	10 9
51	.07252	.11817	9.07776	.11955	9.08288	.12103	9.08797	.12245	9.09303	.12389	8
+ 13' 53	9.07260 .07269	.11820 .11822	.07785	.11961	.08288	.12103	,08806	.12248	.09311	.12391	7
53 54	.07269	.11824	.07793	.11966	.08306	.12103	.08814	.12250	.09320	.12394	6
55 55	.07286	.11827	.07802	.11968	.08314	.12110	.08823	.12253	.09328	.12396	5
+ 11'	9.07295	.11829	9.07810	.11970	9.08323	.12112	9.08831	.12255	9.09337	.12398	4
57	.07303	.11831	.07819	.11973	.08331	.12115	.08840	.12257	.09345	.12461	3
58	.07312	.11834	.07827	.11975	.08340	.12117	.08848	.12260	.09353	.12193	2
59	.07321	.11836	.07836	.11977	.08348	.12119	.08857	.12262	.09362	.12106	1
+ 15'	9.07329	.11838	9.07845	.11980	9.08357	.12122	9.08865	.13265	9.09370	.12408	0
	0.1	40-	0.45	4.0 m	5.43	17 m	1 - 3	1.0m	Jah	$15^{m}$	
	21h	19m	21h	$1S^m$	21h	17 m	21n	16m	2111	10'''	
	Additional and the second										

	2h 45m	41 15'	2h 46m	41° 30′	2h 47m	41 45	h 4sm	15. 0.	_h .;gm	42° 15′	1
s	Log. Hav.	Nat. Hay	Log. Hav.	Nat. Hav	Log. H.A	Nat. Ha.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	s
0	9.09370	.12108	9.09572	.12552	9.10371	.12697	9.10866	.12543	9 11358	.12959	til
1	.09379	.12410	.09880	.12555	.10379	.12700	.10874	.12545	.11366	.12992	55
-2	.09387	.12413	09889	.12557	.10387	.12702	10882	.12545	.11374	.12994	58
-, 3	.09395	12115	.09897	.12559	. 10395	12701	,10891 9 10899	.12850	.11382	.12996	5
+ 1'	9.09404 .09412	.12415	9.09905 .09914	.12562	9,10404	.12707	10907	.12852	9.11391 .11399	.12999	31
6	.09421	.12122	.09922	.12567	.10420	.12712	.10915	.12857	.11407	.13004	5.
7	.09429	.12425	.09930	.12569	.10429	.12714	10923	.12860	.11415	.13006	5.
+ 2	9.09437	.12427	9.099.29	.12572	9.10437	.12717	9.10932	.12562	9.11423	.13009	3
9	.09446	.12430	.09947	.12574	.10445	.12719	.10940	.12565	.11431	.13011	1 5
10	.09454	.12432	.09955	.12576	.10453	.12721	.10948	.12567	.11440	.13014	5
11	.09462	_,12434	09964	.12579	.10462	.12724	.10956	12570	.11445	.13016	4
+ 3′	9.09471	.12437	9.09072	.12581	9.10170	.12726	9,10965	.12872	9.11456	.13018	1
15 14	.09479	.12439	.09980 .09989	.12584	.10478	.12729	.10973 $.10981$	.12874	,11464 ,11472	.13021	1 4
15	.09488	.12111	.09997	.12555	10495	.12733	.10989	.12579	.11480	.13026	3
17	9 09501	13446	9 10005	.12591	9.10503	.12736	9.10997	.12552	9.11489	.13035	-5
17	.09513	.12449	.10014	.12593	.10511	.12735	.11006	.12584	.11197	.13031	1
18	.09521	.12451	.10022	.12596	.10519	.12741	.11014	.12557	.11505	.13033	14
19	.09529	.12451	.10030	.12595	.10528	.12743	.11022	.12559	.11513	.13036	13
+ 5	9.09538	.12456	9,10039	.13600	9 10536	.12746	9.11030	.12891	9,11521	.13038	3
21	.09546	.12158	.10047	.12603	.10544	.12748	.11038	.12891	.11529	.13041	13
27	09555 09563	.12161	.10055	.12605	.10553 .10561	.12750	.11047 .11055	.12596	.11538	.13043	
23	9.09571	.12163	.10064	.1260%		.12753	9.11063		11546 _9.11551	13045	
+ 6 25	.09580	.12466	9 10072 .10080	.12610	9,10569 .10577	.12755	.11071	.12901	,11562	.13045	L
26	.09588	.12170	.10050	.12615	10586	.12760	.11079	.12906	.11570	.13053	
27	.09596	.12173	.10097	.12617	.10594	.12763	11088	.12909	.11578	.13055	П
1 7	9.09605	.12475	9 10105	.12620	9.10602	.12765	9.11096	.12911	9.11586		
29	.09613	.12478	.10113	.12622	.10610	.12767	.11104	.12913	.11595	.13060	
30	.09622	.12180	.10122	.12625	.10619	.12770	.11112	.12916	.11603	.13063	
31	.09630	.12482	.10130	12627	.10627	.12772	.11120	.12918	.11611	.13065	
+ 8′	9,09638	.12185	9 10138	.12629	9 10635	.12775	9.11129	.12921	9 11619	.13067	
33	.09647	.12187	.10147	.12632 .12634	.10613 .10652	.12777	.11137 .11145	.12923	.11627 .11635	.13070	
34 35	.09655	.12492	.10153	.12637	.10660	.12782	.11153	.12925	,11643	.13075	
+ 97	9.09672	.12194	9.10172	.12639	9 10668	.12781	9.11161	.12930	9 11652	.13077	
37	.09680	.12197	.10180	.12611	10676	.12787	.11170	.12933	.11660	.13050	
58	.09688	.12499	.10188	.12614	10685	.12759	.11178	.12935	.11668	.13052	
.89	.09697	.12502	.40196	.12646	.10693	.12792	11186	.12938	.11676	.13085	1 :
· 10′	9 09705	.12501	9.10205	.12619	9-10701	.12794	9.11191	.12940	9.11684	.13057	
41	.09713	.12506	.10213	.12651	.10709	.12797	.14202	.12913	.11692	.13090	
13	.09722	.12509	.10221	.12654	.10718	.12799 .12801	.11211	.12945	.11700 .11709	.13092 .13095	
4.1 + 11*	9 09739	.12511	.10230	12658	9 10734	.12501	9 11227	.12950	9.11717	13097	
- 35	.097.47	.12516	10238	.12661	107.42	.12506	.11235	.12952	,11725		
46	09755	.12519	10255	.12663	10751	.12509	.11243	.12955	11733	.13102	
17	09764	.12521	10263	.12666	10759	.12811	.11252	.12957	.11741	.13101	
12'	9 09772	.12523	9,10271	.12668	9,10767	.12814	9 11260	.12960	9.11749	.13107	1
17	09780	.12526	.10279	.12671	.10775	.12816	11268	.12962	.11757	.13109	
(1)	09789	.12528	10288	.12673	.10784	.12818	.11276	.12965	11766		
1/	.09797	.12531	10296	12675	10792	.12821	.11284	.12967	,11774	.13111	
⇒ 13′	9 09805	.12533	9,10301	.12678	9.10800	.12823	9 11292 11301	.12970	9 11782 11790	.13116	
54	09814	.12538	10321	.12683	10516		11307	.12974	11798	.13121	
-0	09830	.12510		.12655	10825	.12531	11303	.12977	11806		
- 13	9.09839	.12513	9 10337	.12687		. 12833	9 11325	.12979	9 11511	13126	
1,7	09847	.12545	10346	.12690	10811	.12836	11333	.12952	11822	.13129	
58	0.9856	.12547	.10351	.12692	10549	.12535	.11342	.12984	11831	.13131	1
9	09861	.12550	10362	12695	10858	.12540	11350	.12957	11839		
→ 15°	9 09872	.12552	9 10371	.12697	9/10866	.12813	9 11358	.12959	9.11847	.13136	1
	477		- 1	1311		1	1	11m		Tani	
	1 / / /		2.10	1 1111	1 11	1 .	: In	11111	1 /1/	1000	- 1

	2h 50m	190 307	Jh sim	12° 45′	2h 52m	120 0/	2h 5.3m	199 15/	2h 5/m	43° 30′	1
s	Log. Hav.			Nat. Hav.	Log. Hav.		l	Nat. Hav.	Log. Hav.		s
0	9.11847	.13136	9.12332	.13284	9.12815	.13432	9,13295	.13581	9.13771	.13731	60
1	.11855	.13139	.12341	.13286	.12823	.13435	,13303	.13584	.13779	.13734	59
2	.11863	.13141	.12341	.13289	.12831	.13437	.13303	.13586	.13787	.13736	58
ŝ	.11871	.13143	.12357	.13291	.12839	.13440	.13319	.13589	.13795	.13739	57
	9.11879	.13146	9.12365	.13294	9.12847	.13442	9,13326	.13591	9.13803	.13741	56
5	.11887	.13148	.12373	.13296	.12855	.13445	.13334	.13594	.13811	.13741	55
6	.11895	.13151	.12381	.13299	.12863	.13417	.13342	.13596	.13819	.13746	54
7	.11904	.13153	.12389	.13301	.12871	.13450	.13350	13599	.13827	.13749	53
+ 3/	9.11912	.13156	9.12397	.13304	9.12879	.13452	9.13358	.13601	9.13834	.13751	53
9	.11920	.13158	.12405	.13306	.12887	.13455	.13366	.13604	.13842	.13754	51
10	.11928	.13161	.12413	.13309	.12895	.13457	,13374	.13607	.13850	.13756	50
11	.11936	.13163	.12421	.13311	.12903	.13460	.13382	.13609	.13858	.13759	49
+ 3'	9.11944	.13166	9.12429	.13314	9.12911	.13462	9.13390	.13611	9.13866	.13761	48
13	.11952	.13168	.12437	.13316	.12919	.13465	.13398	.13614	.13874	.13764	47
14	.11960	.13171	.12445	.13318	.12927	.13467	.13406	.13616	.13882	.13766	46
15	.11968	.13173	.12453	.13321	.12935	.13470	.13414	.13619	.13890	.13769	45
+ 1	9.11977	.13175	9.12461	.13323	9.12943	.13472	9.13422	.13621	9.13898	.13771	44
17	.11985	.13178	.12470	.13326	.12951	.13474	.13430	.13624	.13906	.13774	4.3
18	.11993	.13180	.12478	.13328	.12959	.13477	.13438	.13626	.13913	.13776	43
19	.12001	.13183	.12486	.13331	.12967	.13479	.13446	.13629	.13921	.13779	41
+ 5'	9.12009	.13185	9.12494	.13333	9.12975	.13482	9.13454	.13631	9.13929	.13781	40
21	.12017	.13188	.12502	.13336	.12983	.13484	.13462	.13634	.13937	.13784	39
22	.12025	.13190	.12510	.13338	.12991	.13487	.13470	.13636	.13945	.13786	38
23	.12033	.13193	.12518	.13341	.12999	.13489	.13478	.13639	.13953	.13789	37
+ 6'	9.12041	.13195	9.12526	.13343	9.13007	.13492	9.13486	.13641	9.13961	.13791	36
25	.12050	.13198	.12534	.13346	,13015	.13494	.13494	.13644	.13969	.13794	35
26	.12058	.13200	,12542	.13348	.13023	.13497	.13501	.13646	.13977	.13796	34
27	.12066	.13203	.12550	.13351	.13023	.13499	.13501	.13649	.13985	.13799	33
								ARREST TOTAL			32
	9.12074	.13205	9.12558	.13353	9.13039	.13502	9.13517	.13651	9.13992	.13801	
29	.12082	.13207	.12566	.13356	.13047	.13504	.13525	.13654	.14000	.13804	31 30
30	.12090	.13210	.12574	.13358	.13055	.13507	.13533	.13656	.14008	.13806	29
31	.12098	.13212	.12582	.13360	.13063	.13509	13541	.13659	.14016	.13809	
+ . 8'	9.12106	.13215	9.12590	.13363	9.13071	.13512	9.13549	.13661	9.14024	.13811	28
33	.12114	.13217	.12598	.13365	.13079	.13514	.13557	.13664	.14032	.13814	27
34	.12122	.13220	.12606	.13368	.13087	.13517	.13565	.13666	.14040	.13816	26
35	.12130	13222	.12614	13370	.13095	13519	.13573	.13669	.14048	.13819	25
+ 9'	9.12139	.13225	9.12622	.13373	9.13103	.13522	9.13581	13671	9.14056	.13822	24
37	.12147	.13227	.12630	.13375	.13111	.13524	.13589	.13674	.14063	.13824	23
38	.12155	.13230	.12638	.13378	.13119	.13527	.13597	.13676	.14071	.13827	22
39	.12163	.13232	.12647	.13380	.13127	.13529	.13605	.13679	.14079	.13829	21
+ 10'	9.12171	.13235	9.12655	.13383	9.13135	.13532	9.13613	.13681	9.14087	.13832	20
41	.12179	.13237	.12663	.13385	,13143	.13534	.13621	.13684	.14095	.13834	19
42	.12187	.13239	.12671	.13388	.13151	.13537	,13628	.13686	.14103	.13837	18
43	.12195	.13242	.12679	.13390	.13159	.13539	.13636	.13689	.14111	.13539	17
+ 11'	9.12203	.13244	9.12687	.13393	9,13167	.13542	9.13644	.13691	9.14119	.13542	16
45	,12211	.13247	.12695	.13395	.13175	.13544	.13652	.13694	,14127	.13844	15
46	.12219	.13249	.12703	.13398	.13183	.13547	.13660	.13696	.14134	.13847	14
47	.12228	.13252	.12711	.13400	.13191	.13549	.13668	.13699	.14142	.13849	13
+ 12	9.12236	.13254	9.12719	.13493	9.13199	.13552	9.13676	.13701	9.14150	.13852	12
49	.12244	.13257	.12727	.13405	.13207	.13554	,13684	.13704	.14158	.13854	11
50	.12252	.13259	.12735	.13498	.13215	.13557	.13692	.13706	.14166	.13857	10
51	.12260	.13262	.12743	.13410	.13223	.13559	.13700	.13709	.14174	.13859	9
				.13412	9.13231	.13562	$\overline{9.13708}$	.13711	9.14182	.13862	-
+13'	9.12268	.13264	$9.12751 \\ .12759$	.13413	.13231	.13564	.13716	.13714	.14190	.13864	8 7
5.3	.12276	.13267					,13724	.13714	.14190	.13867	6
54	.12284	.13269	.12767	.13417	.13247	.13567			.14197	.13869	5
55	.12292	.13272	.12775	.13120	.13255	.13569	.13732	.13719			
+ 14'	9.12300	.13274	9.12783	.13422	9.13263	.13571	9.13739	.13721	9.14213	.13872	4
57	.12308	.13276	.12791	.13425	.13271	.13574	.13747	.13724	.14221	.13874	3
58	.12316	.13279	.12799	.13427	.13279	.13576	.13755	.13726	.14229	.13877	2
59	,12324	.13281	.12807	.13430	.13287	13579	13763_	.13729	14237	.13879	!
+ 15'	9.12332	.13384	9.12815	.13432	9.13295	.13581	9.13771	.13731	9.14245	.13882	0
			<b>-</b> .					a.m.	0-1	Em	Í
	21h	9m	31h	Sm	21h	$\gamma m$	21h	6m	21 h	5111	
											-

Page 846]

TABLE 45.

	2h 55m 13°	45'	_h 56m	44° 0′	2h 57m	41 15'	2h 58m	11° 30′	2h 59m	44° 45′	
S	Let. Hav. Nat.	. Hav	l.og. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
1)		3852	9.14715	.14033	9.15183	.14185	9.15647	.14337	9.16109	.14491	60
1		3444	.14723	.11035 .11038	.15190	.14157	.15655 .15663	.14340	.16117	.14193	59 58
	.142681	3889	.14739	.14041	.15206	.11192	.15670	.14345	.16132	.11498	57
- 1		3492	9.14746	.11043	9.45214 .15221	.14195	9.15678	.11348	9.16140	.14501	56
- 7		3597	.14754 .14762	.11046	.15221	.14198	.15686	.11350	.16147 .16155	.14508	55 54
7	.14300 .1	3899	.11770	.14051	.15237	.14203	.15701	.14355	.16163	.14509	53
= 3		3902	9.14778	.14053	9.15245 .15253	.14205	9.15709	.14358	9.16170	.14511	52 51
ii.	.14323 .1	3907	.14793	.14058	.15260	.11210	.15724	.14363	.16186	.11516	50
11		3909	.14801	.14061	.15268	.14213	.15732	.11366	.16193	14519	49
+ 3'	9.14339 .1 .14347 .1	3912 3914	9.14809 .14817	.14063	9.15276 .15284	.14215	9.15740 .15748	.14364	3.16201 .16209	.14521	48
1;	.11355 .1	3917	.14821	.14068	.15291	.14220	.15755	.14373	.16216	.14527	46
15 ± 47		3930	.11832	.14071	.15299	.14223	,15763	.14376	.16224 9.16232	14529	45
17		3922 3925	9.14848	.14073	9.15307 .15315	.14226	9.15771 .15778	.14378	.16232	.14532	4.3
18	.14386 .1	3927	.1-1856	.14079	.15322	.14231	.15786	.14383	.16247	.14537	43
$-\frac{19}{+}$ 5		3930 3932	9.14863	.14981	.15330 9 15335	.14233	.15791 9.15802	143%6	.16255 9.16262	14539	41
31		3935	.14879	.14086	.15346	.14238	.15809	.14391	.16270	.11545	39
23		3937	.14887	.14039	.15353	.14244	.15817	.11394	.16278	.14547	38
+ 6'		3942	.14895_ 9.14902	.14091	.15361 9.15369	.11243	.15825 9.15832	.14396 .14399	.16285 9.16293	.14550	36
±35	.14441 .1	3945	.14910	.14096	.45377	.11218	.15840	.13401	.16301	.11555	3.5
.6		3917 3950	.14918	.14099	.15384	.14251	.15848	.14104	.16308	.14557	33
17		3952	.14926_ 9.14934	.11101	9.15400	.14253	.15855 9.15863	.14106	9.16324	.14562	32
23	.14472 .1	3955	.14941	.11106	.15408	.14259	.15871	.11511	.16331	.11565	31
30 31		3957 3960	.14949 .14957	.11109	.15415 .15423	.14261	.15879 .15886	.11111	.16339	.14568	30 29
+ " s'		3962	9 14965	.14114	9.15431	.11266	9 15894	.14419	9.16351	.14573	28
33	.14504 .1	3965	.14973	.14116	.15439	.11269	.15902	.14422	.16362	.11575	27
34 33		3967 3970	.14980	.14119	.15416 .15454	.14271	.15909	.14424	.16369 .16377	.11578	26 25
+ 9	9 14527 .1	3972	9.14996	.14121	9.15462	.11276	9.15925	.14129	9.16385	.14583	24
37		3975	.15004	.11127	.15470	.11279	.15932	.11132	.16392	.14586	23
38 39		3977 3950	.15012	.14129	.15477 .15485	.14281	.15940	.11131	.16400	.14591	21
± 10′	9 14559 .1	3983	9.15027	.11134	9.15493	.14287	9 15955	.14440	9.16415	.11593	20
11	.14566 .1 .14574 . <b>1</b>	3985	.15035 .15043	.11137	.15500 .15508	.11259	.15963	.14412	.16423	.14596	19 18
12	14582	3990	.15050	.14112	.15516	.14294	.15978	.14447	.16438	.11601	17
+ 11'		3993	9,15058	.11111	9.45524	.11297	9.15986	.11459	9.16416	.14601	16
45 16	.14598 .1 .14606 .1	3995 3994	.15066 .15074	.14117	.15531 .45539	.11299	.15994	.14152	.16453	.11606	15 13
17	.14613 .1	1000	.15082	.11152	15547	.11301	.16009	.14357	.16469	.14614	1.5
4- 12		1003	9 15089	.13154	9 15555	.14307	9 16017	.11160	9 16476	.14611	12
39 50		1005	.15097 .15105	.11157	.15562 .15570	.14309	.16025 16032	.14463	.16484-	.11616	11 10
51	.14645 .1	1016	15113	.11162	15578	.11315	.16040	.11468	.16499	.11622	9
+ 13		4013	9 15120	.11165	9 15585 45593	.11317	9 16048	.14470	9.16507 .16515	.11621	8 7
53 53		4015	.15128 .15136	.11167	15601	.11320	.16063	.11373	.16522	.11629	6
5.5	14676 .1	11020	15111	.11172	15609	14325	.16071	.11178	.16530	11632	$-\frac{5}{2}$
9 IF		1023	9 15152 .45159	.11175	9 15616 15624	.11327	9 16078	.11180	9 16537 16545	.14634	-4 .3
53	1 16981 .4	1025	.15167	.14150	15632	.11332	.16094	.11186	.16553	.11639	- 2
59		14030	15175	.11152	15640	.11335	.16101	-11188	.16560	.11612	1
+ 15	9 14715 - 4	1033	9 15183	.11153	9 15647	.11337	9 16109	.14491	9 16568	.11615	0
	7649		217	5 5 11	211	i ⊋m	21	h 1m	217	1777	
									-		

					Haversi	nes.					
	3h Om	45° 0′	3h 1m	45° 15′	gh 2m	45° 30′	3h Sm	45° 45′	gh 4m	46° 0′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	9.16568	.14645	9.17024	.14799	9.17477	.14955	9.17928	.15110	9.18376	.15267	60
1	.16576	.14647	.17032	.14802	.17485	.14957	.17935	.15113	.18383	.15270	59
2	.16583 .16591	.14650 .14652	.17039	.14804 .14807	.17492 .17500	.14960 .14962	.17943	.15116	.18390	.15272	58
3 + 1'	9.16598	.14655	$\frac{.17047}{9.17054}$	.14810	9.17507	.11965	$\frac{.17950}{9.17958}$	.15118	.18398 9.18405	.15275	$\frac{57}{56}$
5	.16606	.14658	.17062	.14812	.17515	.11968	.17965	.15123	.18413	.15278	55
6	.16614	.14660	.17069	.14815	.17522	.14970	.17973	.15126	.18420	.15283	54
7	.16621	.14663	.17077	.14817	.17530	.14973	.17980	.15129	.18428	.15285	53
+ 2'	9.16629	.14665	9.17085	.14820	9.17538	.14975	9.17988	.15131	9.18435	.15288	5.2
9 10	.16637	.14668 .14670	.17092 .17100	.14822 .14825	.17545 .17553	.14978 .14981	.17995 .18003	.15134	.18443	.15291 .15293	51 50
11	.16652	.14673	.17107	.14828	.17560	.14983	.18010	.15139	.18457	.15296	49
+ 3'	9.16659	.14676	9.17115	.14830	9.17568	14986	9.18018	.15142	9.18465	.15298	48
13	.16667	.14678	.17122	.14833	.17575	.14988	.18025	.15144	.18472	.15301	47
14	.16675	.14681 .14683	.17130 .17138	.14835 .14838	.17583 .17590	.14991   .14993	.18033 .18040	.15147 .15150	.18480	.15304 .15306	46 45
15 + 4'	$\frac{.16682}{9.16690}$	.14686	$\frac{.17138}{9.17145}$	.14841	9.17598	.14996	9.18048	.15152	9.18495	.15309	44
17	.16697	.14688	.17153	.14843	.17605	.14999	.18055	.15155	.18502	.15312	43
18	.16705	.14691	.17160	.14846	.17613	.15001	.18062	.15157	.18509	.15314	42
19	.16713	.11693	.17168	.14848	.17620	.15004	.18070	.15160	.18517	.15316	41
+ 5'	9.16720	.14696	9.17175	.14851	9.17628	.15006	9.18077	.15163	9.18524	.15319	40
21 22	.16728 .16735	.14699 .14701	.17183 .17191	.14853 .14856	.17635 .17643	.15009 .15012	.18085 .18092	.15165 .15168	.18532 .18539	.15322 .15325	39 38
23	.16743	.14704	.17198	.14859	.17650	.15014	.18100	.15170	.18547	.15327	37
+ 6'	9.16751	.14706	9.17206	.14861	9.17658	.15017	9.18107	.15173	9.18554	.15330	36
25	.16758	.14709	.17213	.14864	.17665	.15019	.18115	.15176	.18561	.15333	35
26	.16766	.14712	.17221 .17228	.14866 .14869	.17673	.15022	.18122	.15178 .15181	.18569	.15335	34
+ 7'	$\frac{.16774}{9.16781}$	.14714	$\frac{.17228}{9.17236}$	.14872	$\frac{.17680}{9.17688}$	.15025	.18130 9.18137	.15183	$\frac{.18576}{9.18584}$	.15337	33
+ 29	.16789	.14719	.17243	.14874	.17695	.15930	.18145	.15186	.18591	.15343	31
30	.16796	.14722	.17251	.14877	.17703	.15032	.18152	.15189	.18598	.15346	30
31	.16804	.14724	.17259	.14879	.17710	.15035	.18160	.15191	.18606	.15348	29
+ 8'	9.16812	.14727 .14730	9.17266	.14882	9.17718	.15038 .15040	9.18167	.15194	9.18613 .18621	.15351 .15353	28
33 34	.16819 .16827	.14732	.17274 .17281	.14887	.17725 .17733	.15043	.18174 .18182	.15197 .15199	.18628	.15356	27
35	.16834	.14735	.17289	.14890	.17740	.15045	.18189	.15202	.18636	.15359	25
+ 9'	9.16842	.11737	9.17296	.14892	9.17748	.15048	9.18197	.15204	9.18643	.15361	14
37	.16850	.14740	.17304	.14895	.17755	.15051	.18204	.15207	.18650	.15364	23
38 39	.16857	.14743 .14745	.17311 .17319	.14898 .14900	.17763 .17770	.15053 .15056	.18212 .18219	.15210 .15212	.18658 .18665	.15367 .15369	22 21
+ 10'	9.16872	.14748	9.17327	.14903	9.17778	.15058	9.18227	.15215	9.18673	.15372	1
41	.16880	.14750	.17334	.14905	.17785	.15061	.18234	.15217	.18680	.15374	19
42	.16887	.14753	.17342	.14908	.17793	.15064	.18242	.15220	.18687	.15377	18
43	.16895	.14755	.17349	.14910	.17800	.15066	.18249	.15222	.18695	.15379	17
+ 11' 45	9.16903 .16910	.14758 .14760	9.17357 .17364	.14913	9.17808 .17815	.15069 .15071	9.18256 .18264	.15225	9.18702 .18710	.15382	16
46	.16918	.14763	.17372	.11918	.17823	.15074	.18271	.15230	.18717	.15358	14
47	.16925	.14766	.17379	.14921	.17830	.15077	.18279	.15233	.18724	.15390	13
+ 12'	9.16933	.14768	9.17387	.14923	9.17838	.15079	9.18286	.15236	9.18732	.15393	12
49 50	.16941	.14771	.17394 .17402	.14926	.17845	.15082 .15084	.18294 .18301	.15238 .15241	.18739	.15395 .15398	11 10
50 51	.16956	.14776	.17402	.14931	.17860	.15052	.18309	.15211	.18754	.15401	9
+ 13'	9.16963	.14779	9.17417	.14934	9.17868	.15090	9.18316	.15246	9.18762	.15103	8
53	.16971	.14781	.17425	.14936	.17875	.15092	.18324	.15249	.18769	.15406	7
54	.16979	.14784	.17432	.14939	.17883	.15095	.18331	.15251	.18776	.15409 .15411	6 5
+ 14'	.16986 9.16994	.14786	.17440 9.17447	.14942	$\frac{.17890}{9.17898}$	.15097	.18338 9.18346	,15257	.18784 9.18791	.15414	4
57	.17001	.14791	.17455	.14947	.17905	.15100	15353	.15259	.18798	.15416	3
58	.17009	.14794	.17462	.14949	.17913	.15105	.18361	.15262	.18806	.15419	1.2
59	.17016	.14797	.17470	.14952	.17920	.15108	.18368	.15264	.18813	.15422	1
+ 15'	9.17024	.11799	9.17477	.14955	9.47928	.15110	9.18376	.15267	9.18821	.15444	0
	2010	59m	201	58m	20h	57m	20h	56m	20h	55m	
	20		1 ~0				~~				

Page 848]

# TABLE 45.

	3h 5m 46 1	5	3h 6m	16° 30′	3h ?m	16° 45′	3h Sm	47° 0′	-3h.9m.	47 · 15′	
s	Log. Hav. Nat.	Hav.	Log. Hav.	Nat. Hav.	Log Hav.	Nat. Hay.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	S
$\theta$		421	9.19263	.15582	9.19703	.15741	9,20140	.15900	9.20574	.16060	60
1		137	.19270	.15585 .15588	.19710	.15743	.20147 .20154	.15903 .15905	.20582	.16063 .16065	59 58
		433	.19285	.15590	.19725	.15748	.20162	.15905	.20596	.16068	57
+ 1		13.5	9.19292	.15593	9.19732	.15751	9.20169	.15911	9.20603	.16071	55
5		137	.19300 .19307	.15595 .15598	.49739	.15754	.20176	.15913	.20611	.16073	55 54
1		443	.19315	.15601	.19754	.15759	.20191	.15919	.20625	.16079	53
+ 2'		445	9.19322	.15603	9.19761	.15762	9,20198	.15921	$9.2063\overline{2}$	.16081	53
9		448 451	.19329	.15606	. 19769 . 19776	.15767	.20205 .20213	.15924	.20639 .20647	.16054	51 50
10		453	.19344	.15611	.19783	.15770	.20220	.15929	.20654	.16059	49
+ 3'	9.18909	156	9.19351	.15614	9.19790	.15773	9.20227	.15932	9.2066T	.16093	48
1.5		158	.19359	.15617	.19798	.15775	.20234	.15935	.20668	.16095	-17
14 15		161 161	.19366	.15619	19805 19812	.15778	.20242	.15937 .15940	.20675 .20683	.16097 .16100	46 45
+ 4		166	9.19381	.15625	9.19820	.15783	9.20256	.15943	9,20690	.16103	44
17		169	.19388	.15627	.19827	.15756	.20263	.15945	.20697	.16105	43
18		1472 1474	.19395	.15630	.19834 .19842	.15799	.20271 .20278	.15949	.20704 .20712	.16108 .16111	42
+ 5		177	9.19410	.15635	9,19849	.15794	9.20285	.15953	9.20719	.16113	40
21		479	.19417	.15638	19856	.15796	.20292	.15956	.20726	.16116	39
		482 185	.19425	.15640	.19863	.15799	.20300	.15959 .15961	.20733	.16119	33 37
	I .	157	9.19439	.15616	9.19878	.15501	9.20311	.15961	9,20748	.16124	36
		190	.19447	.15648	.19885	.15807	.20321	.15967	.20755	.16127	35
*-		493 195	.19451	.15651	.19893 19900	.15810	.20329 .20336	.15969	.20762	.16132	34
- 7		198	9.19469	.15656	9 19907	.15*15	9.20343	.15975	9.20776	.16135	.83
- 0	.19035 .18	501	.19476	.15659	.19914	.15818	.20350	.15977	.20784	.16137	31
1		$\frac{503}{506}$	.19483	.15662 .15664	.19922 .19929	.15820 .15823	.20358 .20365	.15959	.20791 .20798	.16110	30 29
- " 5"	(	5569	9.19498	.15667	9 19936	.15826	9,20372	.15955	9 20805	.16146	28
	19064 .13	511	.19505	.15670	.19944	.15828	.20379	.15958	.20812	.16148	27
,		514 516	.19513	.15672	19951 19958	.15831	.20386 20394	.15991	.20820 20827	.16151	26 25
9		519	9.19527	.15677	9 19965	.15836	9 20401	.15996	9 20834	.16156	24
	.19094 .13	233	.19535	.15650	.19973	.15839	.20408	.15999	.20841	.16159	23
.9		1524 1527	.19542		.19980 19987	.15842	.20415 .20423	.16001	.20848 20856	.16162	22
= 10 [−]		530	9.19557	.15688	9 19995	.15817	9.20130	.16007	9.20863	.16167	20
-1	.19123   .18	532	.19561	.15691	.20002	.15850	.20437	.16009	.20870	.16170	19
		5335 537	.19571	.15693	.20009 20016	.15852	.20144	.16012	.20877 .20884	.16172	18 17
+ 11		540	9.19586	.15699	9 20024	.15858	9,20459	.16017	9 20891	.16178	16
	.19153 .13	543	.19593	.15791	.20031	.15860	.20466	.16020	.20899	.16180	15
36		548	.19600	.15704	.2003S 20045	.15863	.20473	.16023	.20906 .20913	.16183 .16186	14 13
+ 12'		551	9.19615	.15709	9 20053	.15568	9.20488	.16025	9 20920	.16188	12
79	.19182 .15	553	.19622	.15712	.20060	.15871	.20495	.16031	.20927	.16191	11
50 51		5556 5559	.19630	.15711	.20067 .20075	.15874 .15876	.20502	.16033 .16036	.20935	.16194	10
4 43		561	9.19644	.15720	9 20082	.15879	9.20517	.16039	9.20949	.16199	8
.53	.19212 .15	564	.19652	.15722	.20089	.15881	.20524	.16041	.20956	.16202	7
51 51		566 569	.19659	.15725	.20096 20104	.15884	.20531 .20538	.16044	.20963 .20971	.16201	6 5
-4 14'		572	9,19674	.15730	9 20111	.15889	9.20546	.16049	9.20978	.16210	- 4
17.	.19241 .45	574	.19681	.15733	.20118	.15893	.20553	.1605?	.20985	.16212	-3
59		577	19688	.15736	.20125	.15895	.20560	.16055	.20992 .20999	.16215	2
= 15°		i550 i552	19696   9 19703	.15738	20133 9-20140	.15598	.20567 9.20574	.16057 .16060	9 21006	.16270	$-\frac{1}{0}$
1.0					!						ľ
	20h 54m		2114	53m	guh	., ×m	Sup	51m	20) h	Берп	

TABLE	45.	[Page 8	349

	Sh 10m	172 201	oh 11m	47° 45′	oh tom	48° 0′	oh tom	48° 15′	2h s tm	411.007	
s		Nat. Hav.	Log. Hav.			Nat. Hay.				48 30'	
								Nat. Hav.	Log. Hav.		S
0	9.21006	.16220	9.21436	.16382 .16384	9.21863 $.21870$	.16543	9.22287	.16706	9.22709	.16869	60 59
2	.21021	.16226	.21450	.16387	.21877	.16549	.22301	.16711	.22723	.16874	58
3	.21028	.16229	.21457	.16390	.21884	.16552	22308	.16714	.22730	.16877	57
+ 1'	9,21035	.16231	9.21464	.16392	9.21891	.16554	9.22315	.16717	9.22737	.16880	56
5	.21042	.16234	.21471	.16395	.21898	.16557	.22322	.16720	.22744	.16883	55
- 6	.21049	.16237	.21479	.16398	.21905	.16560	.22329	.16722	.22751	.16885	54
7	.21057	.16239	.21486	.16401	.21912	.16562	,22336	.16725	.22758	.16888	5.3
+ ?'	9.21064	.16242	9.21493	.16403	9.21919	.16565	9.22343	.16728	9.22765	.16891	53
9 10	.21071	.16245	.21500 .21507	.16406 .16409	.21926 .21934	.16568 .16571	.22350 .22358	.16730 .16733	.22772	.16893	51
11	.21085	.16250	.21514	.16411	.21941	.16573	.22365	.16736	.22779 .22786	.16896 .16899	50 49
+ 3'	9.21092	.16253	9.21521	.16414	9.21948	.16576	9.22372	.16738	9.22793	.16902	48
13	.21100	.16255	.21529	.16417	.21955	.16579	.22379	.16741	.22800	.16904	47
14	.21107	.16258	.21536	.16419	.21962	.16581	.22386	.16744	.22807	.16907	46
15	21114	.16261	.21543	.16422	.21969	.16584	.22393	.16747	.22814	.16910	4.5
+ +'	9.21121	.16263	9.21550	.16425	9.21976	.16587	9.22400	.16749	9.22821	.16913	44
17	.21128	.16266	.21557	.16427	.21983	.16589	.22407	.16752	.22828	.16915	48
18	21135	.16269	.21564	.16430	.21990	.16592	.22414	.16755	.22835	.16918	43
19	.21143	.16271	.21571	16433	.21997	-16595	.22421	.16757	.22842	.16921	41
+ 5'	9.21150	.16274	9.21578 .21585	.16436 .16438	9.22004 .22011	.16598 .16600	9.22428 .22435	.16760 .16763	9.22849	.16924	40 39
22.	.21164	.16280	.21593	.16441	.22019	.16603	.22442	.16766	.22863	.16929	38
23	.21171	.16282	.21600	.16414	.22026	.16606	.22449	.16768	.22870	.16932	37
+ 6	9.21178	.16285	9.21607	.16446	9.22033	.16608	9.22456	16771	9.22877	.16931	36
35	.21186	.16288	.21614	.16149	.22040	.16611	.22463	.16774	.22884	.16937	35
26	.21193	.16290	.21621	.16452	,22047	.16611	.22470	.16777	.22891	.16940	34
-27	_21200		.21628	.16454	.22054	.16616	.22477	.16779	.22898	.16943	33
+ 7	9 21207	.16296	9.21635	.16457	9.22061 .22068	.16619	9.22484 .22491	.16782	9.22905 .22912	.16945	32 31
29 30	.21214 .21221	.16298 .16301	.21642 .21650	.16460 .16462	.22068	.16622	.22491	.16785	.22912	.16948 .16951	30
31	.21229	.16304	.21657	.16465	.22082	.16627	.22505	.16790	.22926	.16953	29
+ 8'	9.21236	.16306	9.21664	.16468	9.22089	.16630	9.22512	.16793	9.22933	.16956	28
33	.21243	.16399	.21671	.16471	.22096	.16633	.22519	.16795	.22940	.16959	27
34	.21250	.16312	.21678	.16473	.22103	.16635	.22526	.13798	.22947	.16962	26
.55	.21257	.16314	.21685	.16476	.22111	.16638	.22533	.16891	.22954	.16964	25
+ 9' 3;	9.21264	.16317	9.21692	.16479	9.22118	.16641	9.22540	.16804	9.22961	.16967 .16970	24 23
3. 38	.21279	.16323	.21699	.16484	,22132	.16646	.22555	.16809	.22975	.16973	23
39	21286	.16325	.21714	.16487	.22139	.16649	.22562	.16812	.22982	.16975	21
+ 10'	9.21293	.16328	9.21721	.16489	9.22146	.16652	9.22569	.16815	9.22989	.16978	20
41	.21300	.16331	.21728	.16192	.22153	.16654	.22576	.16317	.22996	.16981	19
4.2	.21307	.16333	.21735	.16495	.22160	.16657	.22583	.16820	.23003	.16984	18
43	21314	.16336	.21742	.16498	.22167	.16660	.22590	.16823	.23010	.16986	17
+ 11'	9.21322	.16339	9.21749	.16500	9.22174	.16663	9.22597 .22604	.16825	9.23017	.16989 .16992	16 15
45 46	.21329 .21336	.16341	.21756	.16503 .16506	.22181	.16665	.22604	.16831	.23024	.16994	14
47	.21343	.16347	.21703	.16508	.22195	.16671	.22618	.16834	.23038	.16997	13
+ 12'	9.21350	.16349	9.21778	.16511	9.22202	.16673	9.22625	.16836	9.23045	.17000	12
49	.21357	.16352	.21785	.16514	.22209	.16676	.22632	.16839	.23052	.17003	11
50	.21364	.16355	.21792	.16516	.22216	.16679	.22639	.16842	.23059	.17005	10
51	.21372	.16357	.21799	.16519	.22224	.16681	.22646	.16844	.23066	.17008	9
+ 13′	9.21379	.16360	9.21806	.16522	9.22231	.16684	9.22653	.16847	9.23073	.17011	8
53 54	.21386 .21393	.16363	.21813 .21820	.16524 .16527	.22238	.16687 .16690	.22660 .22667	.16850	.23080	.17014 .17016	7 6
54 55	.21393	.16368	.21820	.16530	.22252	.16692	.22674	.16855	.23094	.17019	5
+ 14'	9.21407	.16371	9.21834	.16533	9.22259	.16695	9.22681	.16858	9.23100	.17022	4
57	.21414	.16374	,21841	.16535	.22266	.16698	.22688	.16861	.23107	.17024	3
58	.21422	.16376	.21848	.16538	.22273	.16701	.22695	.16864	.23114	.17027	2
59	.21429	.16379	.21856	.16541	,22280	.16703	.22702	.16866	23121	.17030	
+ 15′	9.21436	.16333	9.21863	.16543	9.22287	.16706	9.22709	.16869	9.23128	.17033	0
1	202	Zom	201	10m	anh	47 m	2/12	; i; m	oph	.1.5m	
	20n	49m	20n	48m	2011	+1 "	2011	4.7"	~://"	417	

		3h 15m	48° 45′	Sh 16m	49° 0'	3h 17m	49° 15'	3h 18m	49° 30'	3h 19m	49° 45′	l
1	s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	9
2	0	9 23128	.17033	9.23545	.17197	9.23960	.17362	9.24372	.17528	9.24782	.17694	6
	1	.23135				.23967				.24789		5
Fig.   1	- 2					.23974						5
Section   17046   22580   17214   23994   17376   24403   17344   24837   17716   77   23177   17052   23554   17216   24008   17345   24492   17354   24830   17216   24008   17345   24492   17354   24830   17216   24008   17345   24492   17355   24831   17216   24008   17345   24492   17355   24831   17216   24008   17345   24492   17355   24831   17216   1706   23188   17060   23051   17225   24002   17380   24441   17355   24857   17726   1706   23185   17060   23052   17275   24033   17399   24441   17355   24857   17724   1730   1730   1730   24448   17358   24857   17724   1730   1730   1730   1730   24448   17358   24857   17724   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730   1730	3										-	. 5
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7   23177   17052   23594   17216   24008   17381   24420   17354   24830   17716   9   23194   17057   23608   17229   24002   17337   24434   17552   24837   17716   9   23194   17057   23608   17225   24022   17357   24434   17552   24838   17719   17052   23857   17225   24036   17392   24448   17555   24857   17224   17225   24036   17392   24448   17555   24857   17224   17361   23226   17066   22322   17227   24036   17392   24448   17558   24857   17724   1735   232319   17068   23333   17233   24050   17398   24461   17560   24857   17736   1745   1755   23233   17071   23462   17235   24056   17401   24468   17568   24857   17736   1745   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   1755   175				.23580		.23994		.24406				ć
Page				.23587		.24001		.24413				Ŀ
90         23191         17060         23608         17225         24029         17337         24441         17555         24857         17724           11         23205         17063         23692         17225         24026         17390         24441         17555         24857         17724           13         23212         17066         8,23025         17233         29050         17398         24461         17356         24857         17734           14         23226         17011         23642         17235         24056         17401         24468         17568         24871         17736           4         9,23261         17070         23661         17241         24056         17401         24482         17569         24871         17736           4         9,23261         17072         23661         17241         24077         17109         24482         17575         24981         17736           18         2,33261         17087         23681         17235         2409         17411         24505         17577         24905         17748           42         2,3326         17080         23381         17235         24900 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.5</td></th<>												1.5
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21         23275         17090         23991         17255         24105         17420         22456         17586         24932         17755           28         23289         17096         23705         17260         24111         17423         24330         17591         24939         17755           6         923295         17098         23712         17763         24118         17425         24330         17591         24939         17758           26         92300         17101         23718         17268         24132         17431         24550         17600         24962         17763           26         23306         17101         23735         17274         924163         17431         24550         17600         24962         17769           27         923323         17107         23736         17274         924163         17436         24557         17600         24966         17769           29         23320         17117         23746         17277         24163         17436         2457         17600         24966         17773           31         23336         17212         23760         17282         24160         174												l
22         23282         17093         23808         17257         24111         17423         24530         17588         24939         17756           6         923295         17096         23705         17260         24118         17425         24530         17591         24939         17758           6         923295         17098         923712         17266         24132         17434         24550         17507         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24955         17750         24959         17776           7         9.23323         17110         23739         17274         924153         17439         924564         17609         24979         17771           30         23337         17111         23753         17279         24166         17447         24544         17613         24993         17779           4         23334         17117         23753         17279         24160         17445         24544         17613         24993												L
23         23289         17096         23705         17260         24118         17428         24300         17591         24949         17760           66         9.23295         17098         9.23712         1.7263         9.24125         1.7428         9.24536         1.7591         9.24945         1.7760           26         23309         1.7101         23725         1.7268         24132         1.1743         23530         1.7600         2.996         1.7766           27         23316         1.7107         23732         1.7271         24146         1.1743         23557         1.7600         2.9966         1.7769           29         23320         1.7112         23746         1.7277         2.1160         1.1743         24557         1.7605         9.2496         1.7772           29         23330         1.7112         23766         1.7277         2.1160         1.17445         24557         1.7608         24996         1.7772           31         23334         1.7119         2.3760         1.7282         2.4180         1.7445         24557         1.7618         2.9496         1.7773           34         2.2334         1.7112         2.3767         1												L
6	23	.23289	.17096		.17260	.24118	.17425		.17591	.24939	.17758	L
25         23309         17101         23718         17266         24132         17431         24543         17597         24959         17766           26         23309         17101         23732         17271         24146         17433         24550         17600         24959         17766           27         23316         17107         23732         17271         24146         17436         24557         17602         24966         17769           29         23320         17112         23753         17272         21160         17412         235751         17608         24979         17771           30         23387         17117         23760         1722         24166         17447         24544         17611         24966         17777           41         23384         17117         23760         17282         24178         17447         24544         17616         22086         17778           53         23358         17128         23784         17298         24180         17456         24608         17619         25000         17783           54         23355         17128         23784         17298         24180         17456		9.23295	.17098	9 23712	.17263		.17428	9.24536	.17594	9.24945	.17760	Г
26         23309         17104         23725         17288         24139         17434         24550         17600         23966         17767           27         23336         17107         23732         17274         24146         17436         24557         17602         224966         17769           7         923323         17119         23736         17277         21160         17442         23577         17608         24973         17772           29         23330         17112         23760         17277         21160         17442         23577         17608         24979         17777           31         23344         17117         23760         17282         24180         17445         24577         17616         22500         17778           34         23334         17123         23767         1785         9.24180         17445         24587         17616         9.25007         17783           35         23338         17123         23741         17280         24180         17450         924591         17616         9.25007         17783           36         23372         17128         23781         17290         24180 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>.17763</td><td>L</td></t<>											.17763	L
7 9.23323 1.7109 9.23739 1.7274 9.24153 1.7439 9.24564 1.7605 9.24973 1.7772   9 2.23320 1.7112 2.3746 1.7277 2.1160 1.7442 2.3571 1.7608 2.24973 1.7772   1.7115 2.3746 1.7277 2.1160 1.7442 2.3571 1.7608 2.24976 1.7777   1.7115 2.3737 1.723 1.723 2.3760 1.7282 2.4163 1.7447 2.4584 1.7613 2.4986 1.7777   1.7123 2.3344 1.7117 2.3760 1.7282 2.41173 1.7447 2.4584 1.7613 2.4986 1.7777   1.7123 2.3358 1.7123 2.3774 1.7285 9.24180 1.7450 9.24591 1.7616 9.25000 1.7783   1.723 2.3358 1.7123 2.3774 1.7285 9.24180 1.7450 9.24591 1.7616 9.25000 1.7783   1.723 2.3358 1.7123 2.3774 1.7289 2.4187 1.7455 2.4661 1.7622 2.5013 1.7788   1.723 2.3350 1.7128 2.3784 1.7290 2.4194 1.7456 2.4662 1.7622 2.5013 1.7788   1.723 2.3356 1.7131 9.23794 1.7296 9.24208 1.7166 9.24618 1.7627 9.2402 1.7791   1.72 2.3336 1.7131 2.3801 1.7299 2.1215 1.7464 2.1625 1.7630 2.5331 1.7794   1.73 2.3336 1.7131 2.3801 1.7299 2.1215 1.7464 2.1625 1.7630 2.5331 1.7795   1.74 2.3336 1.7131 2.3801 1.7299 2.1215 1.7464 2.1625 1.7630 2.5031 1.7795   1.75 2.3336 1.7131 2.3801 1.7299 2.1215 1.7464 2.1625 1.7630 2.5031 1.7795   1.75 2.3400 1.7139 2.3815 1.7301 2.1221 1.7166 2.4632 1.7636 2.5040 1.7799   1.77 2.3340 1.7139 2.3815 1.7301 2.1221 1.7167 2.4632 1.7636 2.5040 1.7799   1.77 2.3410 1.7141 2.2320 1.7310 2.1221 1.7167 2.4632 1.7636 2.5040 1.7799   1.78 2.3410 1.7145 2.3325 1.7310 2.1224 1.7475 2.4653 1.7641 2.5061 1.7808   1.78 2.3411 1.7145 2.3336 1.7313 2.1239 1.7148 2.4659 1.7641 2.5061 1.7808   1.78 2.3411 1.7146 2.3836 1.7313 2.1239 1.7148 2.1656 1.7641 2.5061 1.7808   1.78 2.3411 1.7148 2.3836 1.7313 2.1239 1.7148 2.1656 1.7648 2.5004 1.7846   1.78 2.3414 1.7145 2.3836 1.7313 2.1239 1.7148 2.1666 1.7647 2.5074 1.7846   1.78 2.3414 1.7145 2.3836 1.7333 2.1239 1.7148 2.1666 1.7647 2.5084 1.7846   1.78 2.3414 1.7145 2.3836 1.7333 2.1239 1.7148 2.1666 1.7647 2.5084 1.7846   1.78 2.3414 1.7148 2.3836 1.7333 2.1239 1.7148 2.1660 1.7663 2.5014 1.7846   1.78 2.3414 1.7148 2.3836 1.7333 2.1239 1.7148 2.1660 1.7663 2.5084 1.7846   1.78 2.3414 1.7148 2.3836 1.7	26	.23309		.23725	.17268	.24139	.17434	24550	.17600	.24959	.17766	L
29         223320         17112         23746         17277         24160         17443         23571         17688         24959         17774           31         23334         17117         23763         17289         24166         17447         24584         17611         24986         17777           31         23344         17117         23760         17882         241173         11447         24584         17616         22903         17780           36         23358         17128         23781         17290         24187         17453         2589         17616         25007         17785           36         23365         17128         23781         17290         24194         17453         24589         17619         25007         17785           36         23372         17128         23781         17290         24194         17453         24605         17622         25013         17785           37         23365         17131         23818         17293         24201         17458         24612         17621         25007         17784           37         23366         17131         23801         17299         24208         1746	27	.23316	.17107	.23732	.17271	.24146	.17436	.24557	.17602	.24966	.17769	L
	7'	9.23323	.17109		.17274	9.24153	.17439	9.24564		9.24973	.17772	Г
37         233.44         .17117         .23760         .1782         .24183         .1744         .24584         .17613         .24903         .17170           -8         9.23351         .17120         9.23767         .17855         9.24180         .17450         9.24591         .17616         9.25000         .17783           -53         .23365         .17123         .23781         .17990         .24187         .17453         .24398         .17619         .25007         .17783           -54         .23372         .17128         .23781         .17290         .24194         .17456         .24612         .17622         .25001         .17791           -7         .23386         .17131         .9 2379         .17296         .9 24208         .17461         .2 6612         .17622         .25001         .17791           -7         .23386         .1731         .23801         .17999         .24201         .17461         .2625         .17630         .25047         .17791           -7         .23386         .17311         .23801         .17499         .24201         .17461         .2663         .17630         .25047         .17791           -7         .23400         .17418	.29	.23320				.21160	.17442					L
8'         9,23351         1,7120         9,23767         1,7285         9,24187         1,7450         9,24591         1,7616         9,25000         1,7783           36         23338         1,7126         23774         1,7288         2,4187         1,7453         24508         1,7619         2,5007         1,7783           36         23365         1,7126         2,3781         1,7290         2,24194         1,7456         24605         1,7621         2,5013         1,7783           36         2,3379         1,7131         2,3378         1,7293         2,4208         1,1466         24612         1,7621         2,5003         1,7794           37         2,3386         1,7131         2,3801         1,7299         2,9208         1,7461         2,6368         1,7631         2,5001         1,7797           38         2,3383         1,7131         2,3801         1,7301         2,422         1,7461         2,6625         1,7630         2,5041         1,7797           39         2,3400         1,7139         2,3815         1,7301         2,422         1,7102         2,4632         1,7633         2,5041         1,7796           41         2,3410         1,7145         2,98	()						.17445					Н
33         23338         17123         23774         17288         24187         17453         23508         17619         25007         17785           43         23365         17126         23781         17290         24194         17456         24605         17622         25013         17788           25         23372         17128         23788         17293         24201         17458         24602         17622         25013         17788           7         23386         17131         23394         17296         9 24208         17161         9 2665         17630         25001         17791           58         23393         17137         23808         17301         24221         17167         24632         17633         25040         17799           59         23400         17139         23845         17301         24221         17167         24632         17633         25040         17799           41         23410         17118         23852         17301         24221         17470         24632         17633         25041         17799           41         23413         17148         23822         17310         24249         174	31		1.37117				.17447		.17613			L
23         23365         17126         23781         17290         24194         17458         24605         17622         25013         17788           5         23372         17188         23788         17293         24201         17458         24612         17621         25020         17791           9'         9 23379         17131         9 2379         17130         9 24208         17161         9 24618         17627         9 25027         17791           57         23386         17137         23808         17301         24221         11766         24625         17630         25040         17799           89         23400         17137         23808         17301         24221         17160         24632         17636         25047         17792           40         9.23107         71712         9.2822         17300         24238         17170         24633         17636         25047         17780           41         9.23410         17115         29820         17310         24232         17475         24663         17631         25041         17802           42         23421         17145         23836         17313         221242	- 8'											1.
												1
8'   9   2.3379   1.7131   9   23794   1.7296   9   24208   1.7161   9   2.4618   1.7621   9   2.5021   1.7797   2.3386   1.7131   2.3801   1.7299   2.1215   1.7164   2.1625   1.7630   2.5031   1.7797   2.383   2.3400   1.7139   2.3815   1.7301   2.4221   1.7167   2.4632   1.7633   2.5040   1.7799   2.4400   1.7139   2.3815   1.7301   2.4221   1.7167   2.4632   1.7636   2.5040   1.7799   2.400   1.7139   2.3815   1.7301   2.4221   1.7167   2.4632   1.7636   2.5040   1.7799   2.4600   1.7636   2.5040   1.7799   2.4600   1.7638   2.5040   1.7799   2.4600   1.7638   2.5041   1.7808   2.4621   1.7638   2.5041   1.7808   2.3341   1.7145   2.3825   1.7313   2.1249   1.7179   2.24659   1.7648   2.5061   1.7808   2.3427   1.7150   2.3813   1.7315   2.1259   1.7181   2.24669   1.7641   2.5061   1.7808   2.3427   1.7150   2.3813   1.7315   2.1259   1.7181   2.4669   1.7647   2.5074   1.7816   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7818   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.4639   1.7839   2.463												ł
.77         233.86         .17131         .23.801         .17299         .2.2125         .17461         .2.6625         .17630         .25.010         .17797           .88         .23336         .17137         .23808         .17301         .24221         .17467         .24632         .17630         .25040         .17199           .89         .23400         .17139         .23815         .17301         .24221         .17470         .24639         .17636         .25047         .17802           -10°         .9.24107         .17415         .23829         .17307         .24225         .17475         .24639         .17636         .25047         .17802           41         .23414         .17145         .23836         .17313         .24249         .17475         .24639         .17641         .25061         .17808           4.2         .23421         .17145         .23836         .17313         .24256         .17481         .24669         .17641         .25068         .17814           4.5         .23421         .17150         .23857         .17321         .24256         .17484         .24660         .17647         .25074         .17814           4.5         .23411         .17159												L
.88         23333         17137         23808         17301         24221         1746         24632         17633         25040         17789           - 10'         9.23400         17139         23815         17301         24228         17170         24639         17633         25040         17899           - 10'         9.23407         17112         9.2382         17307         9.24235         17475         24663         17636         9.2507         17897           41'         22414         17145         22829         17310         2.1242         17475         24633         17641         25061         17804           42'         23427         17150         2.3843         17315         21256         17481         24666         17641         25068         17813           41'         9.23431         17153         9.23850         17318         9.2163         17481         24666         17647         25074         17813           45'         23411         17156         23857         17326         21283         17189         21687         17658         21687         17658         225088         17819           7'         23455         17161         23												i
89         23400         17119         23815         17304         24228         17170         24639         17636         25057         17802           40         9.23407         17112         9.2322         17307         9.24335         17172         9.24663         17638         9.25051         17802           41         23414         17115         23829         17310         21242         17475         24663         17614         25061         17808           42         23421         17148         23836         17313         21249         17475         24663         17644         25064         17813           42         23427         17150         23836         17313         21236         17483         24669         17644         25064         17813           41         9 23431         17153         9.23850         17313         21266         17186         24660         17647         25074         17816           45         23441         17159         23857         17321         21263         17186         24680         17632         25085         17816           46         21488         17159         23857         17326         21290												ı
107   9.24107   17112   9.2822   17307   9.24235   17172   9.24669   17648   9.25051   17805     47												L
47         23414         17115         23829         17310         2.21242         17475         24633         17641         25061         17808           42         23121         17148         23836         17313         2.2249         17178         24659         17614         25068         17813           35         23427         17150         2.3833         17315         21256         17181         24666         17617         25074         17743           41         9 23131         17153         2.23850         17318         9 2163         17483         9 21673         17649         9 2508         17818           56         23441         17156         23857         17326         21269         17186         21686         17652         25088         17819           56         23448         17159         23863         17326         21283         17198         21687         17658         25095         17829           57         23165         17161         23870         17326         21283         17192         21697         17668         25108         17838           59         24462         17161         23884         17332         21290												F
4.2         23.121         .17148         .283.66         .17313         .21249         .1748         .24650         .17614         .25068         .17813           4.3         .23427         .17150         .23833         .17315         .24256         .17481         .24660         .17647         .25054         .17813           - II         9 23131         .17153         9.23850         .17319         9.21663         .17469         9.25081         .17816           45         23411         .17156         .23857         .17321         .21269         .17169         .21670         .17652         .25095         .17816           45         .23418         .17159         .23850         .17321         .21269         .17169         .21670         .17652         .25095         .17816           46         .24488         .17159         .23850         .17326         .21260         .17169         .21675         .17658         .25095         .17827           7         .23450         .17418         .23877         .17329         .24290         .17494         .21707         .17661         .25102         .17824           20         .23476         .17167         .23884         .17335												L
33         23427         17150         2.28-13         17315         2.21256         17481         2.2666         17647         2.5034         17813           45         9.23131         1.7153         9.23850         1.7318         9.24263         1.7483         9.21673         17649         9.25081         1.7816           45         2.2441         1.7156         2.23853         1.7323         2.24269         1.7160         2.21680         1.7652         2.5088         1.7819           46         2.2448         1.7159         2.23863         1.7323         2.21276         1.7169         2.1680         1.7655         2.5088         1.7819           7         2.2465         1.7161         2.23870         1.7322         2.2126         1.7169         2.1694         1.7655         2.5008         1.7824           12         9.2465         1.7164         9.23877         1.7329         9.21290         1.71499         2.1700         1.7661         9.25108         1.7827           26         2.4346         1.7167         2.23884         1.7332         2.1290         1.71497         2.1700         1.7663         2.5112         1.7836           41         2.23480         1.7175				93536		9 19 10						1
11				23843								į.
45         23411         17156         23857         17321         24269         17186         24680         17652         25085         17819           26         23448         17159         23863         17323         24276         17189         24694         17655         25095         17829           77         22455         17161         23870         17329         24283         17192         24694         17663         25102         17824           12*         9 23462         17164         9.23877         17329         9 24297         17199         9 24700         17663         25115         17830           50         23476         17170         23884         17332         24399         17599         24774         17663         25115         17830           4         24183         17172         23884         17332         24311         17509         24774         17669         25122         17836           4         24183         17172         23898         17337         24317         17505         24774         17669         25129         17836           53         23497         17128         23912         17333         24321 <t< td=""><td></td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>ŀ</td></t<>		,									_	ŀ
56         24448         17159         23863         17823         24276         17189         2687         17822         22870         17182         24283         17192         21687         17658         25102         17821           -12**         9 23462         17164         9,23877         1.7329         9 21290         17489         9 21700         17668         25105         17821           50         24469         17167         23884         17332         21297         17499         21700         17663         25115         17830           60         23480         17170         23894         17337         24304         17509         24714         17666         25122         17833           61         23480         17172         23894         17337         24311         17503         21721         17662         25122         17833           53         23490         17175         23905         17340         9 24317         17508         24724         17672         25142         17841           53         23504         17181         23919         17346         24331         17504         24741         17672         25142         17841												1
-7         20155         17161         23870         17366         21283         17192         21694         17688         25102         1787           12         9 20462         17164         9.23877         17329         9 21290         17194         9 21700         17661         9 25108         17827           79         23499         17167         23884         17332         21297         17497         21707         17661         9 25105         17830           50         23476         17170         23884         17337         21301         17599         24714         17666         25129         17836           41         23483         17172         23898         17337         21311         17599         24714         17666         25129         17836           43         9 23490         17472         23898         17337         21311         17503         9 2472         17672         95145         17838           43         23490         17440         9 2317         17503         9 2472         17674         25142         17848           54         23491         17430         9 2313         17511         24741         17677         25149											.17822	L
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		23455				24283		24694		.25102		ı
24499   17167   23884   17382   24297   17499   24707   17663   25115   17830     23476   17170   23891   17335   24304   17509   24714   17666   25122   17836     23483   17172   23898   17337   24311   17503   24721   17669   25129   17836     3 9 23490   17175   9 23995   17340   9 2317   17503   9 2472   17669   25129   17836     3 9 23490   17175   9 23995   17340   9 2317   17505   9 2472   17672   9 25145   17845     4 9 2304   17181   23919   17346   24331   17514   24741   17677   25149   17844     5 2 2374   17183   23926   17348   24383   17511   24741   17677   25149   17846     4 9 2348   17189   9 23939   17346   24384   17517   24785   17689   25165   17687     5 2 3 4 17199   17834   24385   17517   9 24755   17683   9 25163   17847     5 2 3 4 17191   23946   17357   24365   17529   2476   17686   25169   17852     5 3 5 6 7 6 8   17191   2 9 6 3   17359   24365   17529   2476   17688   25169   17852     5 4 7 8 7 8 17191   2 9 6 3   17359   24365   17525   2476   17688   25169   17852     5 5 7 8 7 8 17191   2 9 6 3   17359   24365   17525   2476   17687   2718   17858     5 7 8 7 8 7 8 17191   2 9 6 3   17359   24365   17525   2476   17688   25169   17852     5 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8			.17164	9.23877	.17329		.17394		.17661	9 25108	.17827	ı
.//         24183         .17172         .23898         .17337         .24311         .17503         .21721         .17669         .25129         .17366           3         9.23490         .17175         .23917         .17505         .24723         .17672         .9 25135         .17833           53         .23397         .17178         .23919         .17343         .24321         .17505         .24734         .17672         .25149         .17841           57         .23504         .17141         .23919         .17346         .24331         .17511         .24741         .17677         .25149         .17847           53         .23511         .17183         .23926         .17348         .24338         .17511         .24741         .17680         .25166         .17847           54         .23518         .17186         9.23032         .17351         9.24335         .17571         .92475         .17680         .25166         .17849           57         .23525         .17189         .23039         .17354         .24352         .17519         .2476         .24768         .25169         .17849           58         .17492         .23946         .17354         .24359 <td< td=""><td></td><td>23469</td><td></td><td></td><td>.17332</td><td>.24297</td><td></td><td></td><td></td><td></td><td></td><td>L</td></td<>		23469			.17332	.24297						L
13   9   23490   17475   9   23905   17440   9   24317   17400   9   24728   17672   9   9   9   14788     15   23197   17178   23912   17343   24321   17507   24734   17674   25149   17841     15   23504   17181   23919   17346   24331   17511   24734   17674   25149   17841     15   23504   17181   23926   17348   24338   17511   24734   17680   25169   17841     15   23504   17183   23926   17348   24338   17511   24738   17680   25163   17847     17   24425   17189   23929   17354   24356   17517   24725   17686   25169   17852     17   24425   17192   23946   17357   24859   17522   24768   17688   25166   17857     18   24828   17492   23946   17353   24859   17522   24768   17688   25167   17852     18   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   24828   248	30		.17170			.24304	.17509					L
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-1	23483	.17172		.17337		.17503		.17669			l.
5.5         2.5.041         .17181         2.3919         .17346         2.8331         .17541         2.4741         .17677         .25149         .17844           14         9.2.518         .17186         9.23082         .17351         9.21315         .12517         .921755         .17689         .25156         .17849           .67         2.5.625         .17189         9.23039         .17354         .21352         .15319         .21755         .17683         .9.25163         .17849           .68         0.032         .17199         .23946         .17357         .21359         .17529         .24768         .25169         .17852           .69         .58         .17191         0.3963         .17353         24365         .17529         .2476         .17688         .25169         .17853												П
55         2.6511         1.7183         2.3926         .17348         2.1038         .17511         2.1748         .17680         .25156         .17847           14         9.25518         .17186         9.23032         .17351         9.21352         .17517         9.21755         .17683         9.25163         .17849           07         2.3525         .17189         .23930         .17354         .21352         .17517         24768         .25169         .17852           58         2.7532         .17192         .23936         .17357         21359         .17522         .21768         .17684         .25176         .17853           59         .538         .17191         .2976         .17359         .24365         .17525         .2475         .17691         .25183         .17858												1
14   9 2.548   17186   9 23932   17351   9 24345   17517   9 24755   17683   9.25163   1789   17684   17489   17686   17489   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889   17889												1
.77   2.5.25   17189   239.90   17354   24352   17519   24702   17686   25169   17852   17852   17192   23946   17357   24359   17522   24708   17688   25176   17855   20   238   17191   2393   17359   24365   17535   2475   17691   23483   17858												1
58 2 1532 17192 23946 17357 24359 17522 24768 17588 25176 17855 59 2 158 17194 23958 17359 24365 17525 24475 17691 25483 17858										9.25163		1
39 = 538 .17191 2.953 .17359 2.1365 .17525 2.175 .17691 25183 .17858												L
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• 15 [9], 16] [17,197 [0,7,260   17,568 [9,2,1372 ] [17,528 [9,2,1782 ] [17,694 [9,2] [90   17,861 ]												1
	10	9.1 10	11197	CH ( 3.8%)	.17362	A 5 1947	11932	B 2 F 85	.17694	N. D. 1801	.17561	1

	3h 20m	50° 0′	3h 21m	50° 15′	Sh 22m	50° 30′	3h 23m	50° 45′	3h 24m	51° 0′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Itav.	Log. Hav.	Nat. Hav.	s
0	9.25190	.17861	9.25595	.18028	9.25998	.18196	9.26398	.18365	9.26797	.18534	60
1	.25196	.17863	.25602	.18031	.26005	.18199	.26405	.18368	.26804	.18537	59
2	.25203 .25210	.17866 .17869	.25608 .25615	.18034 .18036	.26011	.18202	.26412	.18370	.26810	.18540	58
+ 3. + 1'	9.25217	.17872	9.25622	.18039	9.26025	.18207	9.26425	.18373	$\frac{.26817}{9.26823}$	.18545	57
T 5	.25224	.17875	.25629	.18042	.26031	.18210	.26432	.18379	.26830	.18548	55
6	.25230	.17877	.25635	.18045	.26038	.18213	.26438	.18382	.26837	.18551	54
7	.25237	.17880	.25642	.18048	.26045	.18216	.26445	.18384	.26843	.18554	53
+ 2'	9.25244	.17883	9.25649	.18050	9.26051	.18219	9.26452	.18387	9.26850	.18557	5.₹
9 10	.25251	.17886	.25655 .25662	.18053 .18056	.26058 .26065	.18221	.26458	.18390	.26856	.18559	51
11	.25257 .25264	.17888 .17891	.25669	.18059	.26071	.18224	.26465 $.26472$	.18393 .18396	.26863 .26870	.18562 .18565	50 49
+ 3′	9.25271	.17894	9.25676	.18062	9.26078	.18230	9.26478	.18399	9.26876	.18568	48
13	.25278	.17897	.25682	.18064	.26085	.18233	.26485	.18401	.26883	.18571	47
14	.25284	.17900	.25689	.18067	.26091	.18235	.26492	.18404	.26890	.18574	46
15	.25291	.17902	.25696	.18070	.26098	.18238	.26498	.18407	.26896	18576	45
+ 17 4	9.25298	.17905	9.25703	.18073 .18076	9.26105	.18241	9.26505	.18410	9.26903 .26909	.18579 .18582	44
- 17 18	.25305 .25311	.17908 .17911	.25709 .25716	.18076	.26112 .26118	.18244	.26512	.18413	.26909	.18585	43 42
19	.25318	.17914	.25723	.18081	.26125	.18249	.26525	.18418	.26923	.18588	41
+ 5'	9.25325	.17916	9.25729	.18084	9.26132	.18252	9.26532	.18421	9.26929	.18591	40
21	.25332	.17919	.25736	.18087	.26138	.18255	.26538	.18424	.26936	.18593	39
22	.25339	.17922	.25743	.18090	.26145	.18258	.26545 $.26551$	.18427	.26942 .26949	.18596 .18599	38 37
23	.25345	.17925	.25750	.18092	$\frac{.26152}{9.26158}$	.18261		.18430	9.26956	.18602	36
+ 6'	9.25352	.17928	9.25756	.18095 .18098	.26165	.18263	9.26558 .26565	.18432	.26962	.18605	35
26	.25366	.17933	.25770	.18101	.26172	.18269	.26571	.18438	.26969	.18608	34
27	.25372	.17936	.25776	.18104	.26178	.18272	.26578	.18441	.26975	.18610	33
+ 7'	9.25379	.17939	9.25783	.18106	9.26185	.18275	9.26585	.18414	9.26982	.18613	32
29	.25386	.17941	.25790	.18109	.26192	.18277	.26591	.18446	.26989	.18616	31
30	.25393	.17944	.25797 .25803	.18112	.26198 .26205	.18280	.26598 $.26605$	.18449 .18452	.26995 .27002	.18619	30 29
$\frac{31}{+8'}$	9.25406	.17950	9.25810	.18118	9.26212	.18286	9.26611	.18455	9.27008	.18624	28
33	.25413	.17953	.25817	.18120	26218	.18289	.26618	.18458	.27015	.18627	27
34	.25420	.17955	.25823	.18123	.26225	.18292	.26625	.18461	,27022	.18630	26
35	.25426	.17958	.25830	.18126	.26232	.18294	26631	.18463	.27028	.18633	25
+ 9'	9.25433	.17961	9.25837	.18129	9.26238	.18297	9.26638	.18466	9.27035	.18636 .18639	24
37 38	.25440 .25447	.17964 .17967	.25844 .25850	.18132 .18134	.26245 .26252	.18300 .18303	.26644	.18469 .18472	.27041 .27048	.18641	23
39	.25453	.17969	.25857	.18137	.26259	.18306	.26658	.18475	.27055	.18644	21
+ 10'	9.25460	.17972	9.25864	.18140	9.26265	.18308	9.26664	.18478	9.27061	.18647	20
41	.25467	.17975	.25870	.18143	.26272	.18311	.26671	.18480	.27068	.18650	19
42	.25474	.17978	.25877	.18146	.26279	.18314	.26678	.18483	.27074	.18653	18
43	.25480	.17981	.25884	.19148	.26285	.18317	.26684	.18486	$\frac{.27081}{9.27088}$	.18656	17
+ 11' 45	9.25487	.17983 .17986	9.25891 .25897	.18151	9.26292 $.26299$	.18320	9.26691 .26697	.18489 .18492	.27094	.18661	15
46	.25500	.17989	.25904	.18157	.26305	.18325	.26704	.18494	.27101	.18664	14
47	.25507	.17992	.25911	.18160	.26312	.18328	.26711	.18497	.27107	.18667	13
+ 12'	9.25514	.17995	9.25917	.18162	9.26319	.18331	9.26717	.18500	9.27114	.18670	12
49	.25521	.17997	.25924	.18165	.26325	.18334	.26724	.18503	.27121	.18673	11
50	.25528 .25534	.18000 .18003	.25931 .25938	.18168	.26332 .26339	.18337 .18339	.26731 .26737	.18506 .18509	.27127 .27134	.18675	10
$\frac{-51}{+13'}$	$\frac{.25534}{9.25541}$	.18006	9.25944	.18174	9,26345	15343	9.26744	.18511	9.27140	.13681	
+ 13°	.25548	.18008	.25951	.18176	.26352	.18345	.20751	.18514	.27147	.18681	8 7
54	.25544	.18011	.25958	.18179	.26359	.18318	.26757	.18517	.27154	.18687	6
55	.25561	.18014	.25964	.18182	.26365	.18351	.26764	.18520	.27160	.18690	5
+ 14'	9.25568	.18017	9.25971	.18185	9.26372	.18353	9.26770	.18523	9.27167	.18692 .18695	3
57	.25575	.18020 .18022	.25978	.18188 .18190	.26378 .26385	.18356	.26777	.18526 .18528	.27173 .27180	.18698	3
58 59	.25581 .25588	.18022	.25991	.18193	.26392	.18362	.26790	.18531	.27186	.15701	1
+ 15'	9.25595	.18028	9.25998	.18196	9.26398	18365	9.26797	.18534	9.27193	.18704	0
'		39m	901	2Sm	201	37m	204	36m	20h	35m	
	20**	6,7	~0"	00	~0"	91.00	~~		1		

Page 852]

## TABLE 45.

	3h 35m 51 15"	.'h 26m 51° 30	3h 27m	51 45'	3h 28m	5200	3h 20m	52° 15′	
s	Log. Hav. Nat. Hav	Log. Hav. Nat. Ha	1 cz. Hav	. Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
- ()	9 27198 .18784	9 27587 .1887	4 9.27979		9.28368	.19217	9.25756	.19389	1(0)
1	.27200 .18707	.27594 .1887	27985	.19045	.28375	.19220	.28762	.19393	59
3	27206   .18710 .27210   .18719			.19051	.28381	.19223	.28769 .28775	.19395	58
J. 1	9 27219 .18718				9.28394	.19228	9.28782	.19401	56
5	.27226   .18718	.27620 .1888	8 .28011	.19060	.28401	.19231	28788	.19404	
6	.27233 .15721				.28407	.19234	.25794	.19406	54
- 7	.27239 .18721			.19065	.28414 9.28420	.19237	$\frac{.28501}{9.28807}$	.19409	53
+ 3	9.27216 .18727 .27252 .18729			.19065	28427	.19243	28814	.19413	51
10	27259 1873				.28433	.19246	.28820	.19418	50
11	.27265 .18733	.27659 .1890			.28440	.19248	.28827	.19421	49
+ 3	9 27272 1 .1873			.19050	9 28446 28453	.19251	9 28833 28840	.19424	48 47
13 14	.27279 .1874: .27285 .1874:				28459	.19357	.28846	19429	46
1.5	27292 .18740		28076	.19088	25465	.19260	28852	.19432	45
+ 4'	9,2729818749	9.27692 .189	0 9.28083	.19091	9.28472	.19263	9 28859	.19435	44
17	.27305 .1875				.28478	.19266	.28865	.19138	-;3
18 19	.27311 .1575; 27318 .1575;	5 .27705 .1899 6 .27711 .1899			.28485 .28491	.19269	.28872 .28878	.19441	42
→ <b>5</b> ′	9 27325 .1876				9 28498	.19274	9.28885	.19117	30
:1	.27331 .1876				.28504	.19277	28891	.19450	39
	27338 .1876				.28511	.19280	.28897	.19452	38
	.27311 .1876		1		28517 9 28524	.19283	$\frac{28904}{9.28910}$	19155 19158	37
· 6′	9.27351 .1877 .27357 .1877				28530	.19250	.28917	.19461	35
26	27364 .1877				28537	.19291	.28923		34
.77	27371 .1978	0 .27761 .189			28543	.19291	28900		33
II 37	9 27377 - 3878			.19125	9 28549	.19297	9 28936	.19470	32
.29 .30	27384 .1878 .27390 .1878				.28556 28562	.19300	.28942 28949	.19473	81
1	27397 .1879				28569	.19305		.19178	29
N	9,27403 .1579	5 9 27796 .189			9 28575	.19309	9,25962	.19451	28
-33	.27410 .1879		.25190	.19140	.28582	.19311	.28968	.19154	47
.:} 55	27417 .1880 27423 .1880			.19142 .19145	.25555 25595	.19314	.25974 25951	.19457	26 25
+ 9	9 27480 .1880				9.28601	.19320	9 28987	.19193	24
5.7	27406 .1880	9 27829 .189	50 28219	.19151	.28608	.19323	.28994	.19496	23
.48	.27443 .1881	2 .27835 .189			.28611	.19326	.29000		22
39	27419 .1881				28620	.19329	.29007 <b>0</b> .29013	.19501	21
$+\frac{10'}{37}$	9 27456 .1881 27 1631882						29013		19
42	27 169 . 1882				.28640		.29026	.19510	18
-\$.8	274761883				.28646		.29032		17
+ 11′	9 27 182 .1882	9 9 27875 1.190 2 27881 .196			9 28653 28659		9 29039 .29045		16 15
95 70	27489 .1883 27495 .1883				28666		29051		14
- 17	27502 .1883						29058		13
+ 13	9 27505 [ .1551						9 29064		12
39	27515 .1881		.2829	719155 $119155$			.29071		11 10
50 = 51	27522 .1881 27528 .1881			19191	28698		29081		9
+ 13	9 27535 ) .1885						9 29090		8
7.5.	27541 .1885	1 .27933 .196	25 2832	.19197	28711	.19369	.29096	.19512	7
14	27548 .1885						.29103		6 5
- 55	27554 .1886 9 27561   .1886						9 29116		-3
37 14 37	9 27567 .1886 27567 .1886					.19375	.29122		3
58	27574 .1880	9 .27966 .19t	40 .2835	5 .19211	.28743	.19383	.29128	.19556	1.2
.39	27580 .1887						.29137		1
1. 15	9 27587   .1887	4 9 27979   <b>.19</b> 6	<b>45</b>   9/2806	.19217	9 28756	.19389	9 29111	.19562	0
1	wh "	20h S :m	٠,	ih ,, en.	20	h .81m	20	Sijm	
L							L.—		

	l ah aam	702 00/	Ob Osm	590 457	- ah	****	1		1		1
i	311 50111	52° 30′	3n 31m	52° 45′	Sn 32m	53° 0′	3h 33m	53° 15′	3h 34m	53° 30′	
S	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	9.29141	.19562	9.29524	.19735	9.29906	.19909	9.30285	.20084	9.30662	.20259	60
1	.29148	.19565	.29531	.19738	.29912	.19913	.30291	.20987	.30668	.20262	59
2'	.29154	.19568	.29537	.19741	.29918	.19915	.30207	.20099	.30674	.20265	58
3	.29160	.19571	.29543	.19744	.29925	.19918	.30303	.20093	.30680	.20268	57
+ 1	9.29167	.19573	9.29550	.19747	9.29931	.19921	9.30310	.20095	9.30687	.20271	56
5	.29173	.19576	.29556	.19759	.29937	.19924	.30316	.20098	,30693	.20273	5.5
6	.29180	.19579	.29563	.19753	.29943	.19927	.30322	.20101	.30699	.20276	54
- 7	.29186	.19582	.29569	.19756	.29950	.19930	.30329	.20104	.30705	.20279	53
+ 3	9.29192	.19585	9.29575	.19758	9.29956	.19932	9.30335	.20107	9.30712	.30383	52
9	.29199	.19588	.29582	.19761	.29962	.19935	.30341	.20110	.30718	.20285	51
10	.29205	.19591	.29588	.19761	.29969	.19938	.30348	.20113	.30724	.20288	50
11	.29212	.19594	.29594	.19767	.29975	.19941	.30354	.20116	.30730	.20291	49
+ 3′	9.29218	.19597	9.29601	.19770	9.29981	.19944	9.30360	.20119	9.30737	.20294	48
13	.29224	.19599	.29607	.19773	.29988	.19947	.30366	.20122	.30743	.20297	47
14 15	.29231	.19602	.29614	.19776	.29994	.19950	.30373	.20125	.30749	.20300	46
	.29237	.19605	.29620	.19779	.30000	.19953	.30379	.20127	.30755	.20303	45
+ 4'	9.29244	.19698	9.29626	.19782	9.30007	.19956	9.30385	.20130	9.30762	.20306	44
18	.29250	.19611	.29633	.19785 .19787	.30013	.19959	.30392	.20133	.30768	.20309	43
18 19	.29266	.19617	.29639	.19787	.30019	.1996? .19964	.30398	.20136	.30774	.20312	42
	9.29269		9.29652				.30401	.20139	.30780	.20314	41
$+_{21}^{}$ 5	.29259	.19670 .19623	9.29652	.19793 .19796	9.30032 .30038	.19967	9.30410	.20142	9.30787	.20317	40 39
22	.29282	.19623	.29658	.19796	,30035	.19970	.30417 .30423	.20145	.30793	.20323	38
23	.29288	.19628	.29671	.19799	.30045	.19973	.30423	.20145	.30805	.20323	37
+ 6	9.29295	.19631	9.29677	.19805	9,30057	.19979	9.30436	.20151	9.30812	20329	36
25	.29301	.19634	.29683	.19808	.30064	.19982	.30442	.20157	.30813	.20333	35
26	.29307	.19637	.29690	.19811	.30070	.19985	.30448	.20160	.30824	.20335	34
27	.29314	.19640	.29696	.19814	.30076	.19988	.30454	.20163	.30830	.20338	33
+ 7	9.29320	.19643	9.29703	.19816	$\overline{9.30083}$	.19991	9.30461	.20165	9,30837	.20341	32
29	.29327	.19646	.29709	.19819	.30089	.19994	.30467	.20168	.30843	.20314	31
30	.29333	.19649	.29715	.19822	30095	.19996	.30473	.20171	.30849	.20347	30
31	.29339	.19651	.29722	.19825	.30102	.19999	.30480	.20174	.30855	.20350	29
+ 8'	9.29346	.19651	9.29728	.19828	9,30108	.20092	9.30486	.20177	9.30862	.20352	28
33	.29352	.19657	.29734	.19831	,30114	.20005	.30492	.20180	.30868	.20355	27
34	.29359	.19660	.29741	.19834	.30121	.20008	.30498	.20183	.30874	.29358	26
35	.29365	.19663	.29747	.19837	.30127	.20011	.30505	.20186	.30880	.20361	25
+ 3'	9.29371	.19666	9.29753	.19840	9.30133	.20014	9,30511	.20189	9.30887	.20364	24
37	.29378	.19669	.29760	.19842	.30139	.20017	.30517	.20192	.30893	.20367	23
38	.29384	.19672	.29766	.19845	.30146	.20020	.30524	.20195	.30899	.29379	22
39	.29391	.19675	.29772	.19848	.30152	.20023	.30530	.20198	.30905	.20373	2I
+ 10'	9.29397	.19677	9.29779	.19851	9.30158	.20026	9.30536	.20200	9.30912	.20376	20
41	.29403	.19680	.29785	.19854	.30165	.20028	.30542	.20203	.30918	.20379	19
42	.29410	.19683	.29791	.19857	.30171	.20031	.30549	.20206	.30924	.20382	18
43	.29416	.19686	.29798	.19860	.30177	.20034	.30555	.20209	.30930	.20385	17
+ 11'	9.29422	.19689	9.29804	.19863	9.30184	.20037	9.30561	.20212	9.30937	.20388	16
45	.29429	.19692	.29810	.19866	.30190	.20040	.30567	.20215	.30943	.20391	15
46	.29435	.19695	.29817	.19869	.30196	.20043	.30574	.20218	.30949	.20393	14
47		.19698	.29823	.19872	.30203	.20046	.30580	.20221	.30955	.29396	
+ 12′	9.29448	.19701 .19703	9.29829 .29836	.19874	9.30209 .30215	.20049	9.30586	.20224	9.30962	.20399	12 11
49 50	.29454	.19703	.29836	.19877 .19880	.30215	.20052	.30593 .30599	.20227	.30968	.20402	10
50 51	.29467	.19709	.29842	.19883	.30222	.20058	.30605	.20233	.30974	.20408	9
+ 13	9.29473	.19712	9.29855	.19886	9.30234	.20069	9.30611	.20235	9.30987	.20411	8
+ 13 53	.29480	.19715	.29861	.19889	.30240	.20063	.30618	.20238	.30993	.20414	7
54	.29486	.19718	.29867	.19892	.30247	.20066	.30624	.20241	.30999	.20417	6
55	.29493	.19721	.29874	.19895	.30253	.20069	.30630	.20244	.31005	.20420	5
+ 14'	9.29499	.19724	9.29880	.19898	9.30259	20072	9.30636	.20247	9.31012	.20423	
57	.29505	.19727	.29886	.19901	.30266	.20075	.30643	.20250	,31018	.20426	4
58	.29512	.19730	.29893	.19903	.30272	.20078	.30649	.20253	.31024	.20429	2
59	.29518	.19732	,29899	.19906	.30278	.29081	.30655	.20256	.31030	.20432	1
+ 15'	9.29524	.19735	9.29906	.19909	9.30285	.20084	9.30662	.20259	9.31036	.20435	0
	00:			20-		22	001		201	).5m	
	20h	29m	20h	28m	20h	$zr^m$	20h;	267th	204	?5m .	
										_	

Page 854]

# TABLE 45.

	5h 35m	53° 45′	3h 36m	54° 0′	3h 37m	54° 15′	3h 38m	54° 30′	3h 39m	34° 45′	П
9	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log, Hav.	Nat. Has	s
0	9.31036	.20435	9.31409	.20611	9.31780	.20788	9.32149	.20965	9.32516	.21143	60
2	.31043	.20437 .20440	.31416 .31422	.20614	.31786	.20790	.32155 .32161	.20968	.32522 .32528	.21146	59 58
3	.31055	.20443	.31428	.20620	.31799	.20796	.32165	.20974	.32534	.21152	57
+ 1'	9.31061	.20446 .20449	9.31434	.20623	9.31805	.20799	9.32174	.20977	9.32541	.21135	56
6	.31068	.20452	.31447	.20629	.31811	.20803	.32180 .32186	.20983	.32547 .32553	.21158	5.5 5.4
7	.31080	.20455	.31453	.20631	.31823	.20808	32192	.20986	.32559	.21164	53
+ 2'	9.31086 .31093	.20458	9.31459	.20634	9.31830	.20511	9.32198	.20959	9.32565 .32571	.21167	53 51
10	.31099	.20464	.31471	.20640	.31842	.20817	.32210	.20994	.32577	.21172	50
$-\frac{11}{+3'}$	31105   9.31111	20467 20470	.31478 9.31484	.20643	.31848	.20820	.32217 9.32223	20997	$\frac{.32583}{9.32589}$	.21175	49
1.3	.31117	.20470	.31490	.20649	9.31854 .31860	.20826	32223	.21000 .21003	.32595	.21178 .21181	43
14	.31124	.20476	.31496	.20652	.31867	.20829	.32235	.21006	.32601	.21184	46
$-\frac{15}{+4'}$	31130 9.31136	20479 20481	.31502 9.31508	.20655 .20658	.31873	20832	$\frac{.32241}{9.32247}$	21009	.32608 9.32614	.21157 .21190	$\frac{45}{44}$
17	.31142	.20481	.31515	.20661	.31885	.20838	.32253	.21015	.32620	.21193	43
18 19	.31149	.20457	.31521 .31527	.20664 .20667	.31891 .31897	.20841	.32259 .32266	.21018 .21021	,32626 ,32632	.21196	42 41
+ 5'	9.31161	.20493	9.31533	.20670	9.31903	.20547	9.32272	21024	9.32638	.21202	40
21	.31167	.20496	.31539	.20673	.31910	.20850	.32278	.21027	.32644	.21205	39
22 23	.31173	.20499	.31546	.20675	.31916	.20852 .20855	.32284	.21030	.32650 .32656	.21205	38
+ 6'	9.31186	.20505	9.31558	.20681	9.31928	.20858	9.32296	.21036	9.32662	.21214	36
25 26	.31192	.20508	.31564	.20684	.31934	.20861	.32302	.21039 .21012	.32668 .32675	.21217	35
27	.31205	.20514	.31577	.20690	.31940 .31947	.20567	.32315	.21045	.32681	.21223	34
+ 7'	9.31211	.20517	9.31583	.20693	9.31953	.20870	9.32321	.21048	$\overline{9.32687}$	.21226	53
29 30	.31217	.20520	.31589	.20696	.31959 .31965	.20873	.32327	.21051 .21054	.32693	.21229	31 30
81	.31229	.29525	.31601	.20702	.31971	.20579	.32339 (		32705	.21235	19
+ 8'	9.31236 .31242	.20528 $.20531$	9.31607 .31614	.20705 .20708	9 31977	.20882	9.32345	.21060	9.32711	.21238	28
.9.4	.31248	.20534	.31620	.20711	.31983	.20888	.32357	.21066	.32717 .32723	.21244	27 26
35	31254	.20537	.31626	.20714	.31996	20591	.32363	.21069	,32723	.21212	25
+ 9'	9.31260	.20540	9 31632 .31638	.20717 .29720	9.32002	.20594	9 32370 .32376	.21072	9.32735 .32741	.21250	28
58	.31273 31279	.20546	.31644	.20723	.32014	.20900	.32382	.21077	.32745	.21256	22
=- 39 + 10'	31279 I 9,31285 I	.20519	31651 9.31657	.20726	32020 9.32026	$\frac{.20901}{.20906}$	.32388 9.32394	.21050	.32754 <b>9.</b> 32760	.21259	21
41	.31291	.20555	.31663	.20731	.32033	.20909	32400	.21086	.32766	.21265	19
32 33	.31298 .31304	.20558	31669 31675	,20734 ,20737	.22039 32045	.20912	.32406 32412	.21059	.32772 .32778	.21268	18
+ "11"	9.31310	.20564	9 31682	.20740	9 32051	.20918	9.32412	,21095	9.32781	.21271	17 16
4.5	31316	.20567	31688	.20713	32057	.20926	32125	.21098	.32790	.21277	15
36 37	31323 31329	.20570 .20573	.31694	.20746	32063   32069	.26923	32431 . 32437 i	.21101	.32796 .32802	.21250	13
+ 12	9.31335	.20575	9.31706	.20752	9.32076	.20929	9 32443	.21107	9.32808	.21285	12
$\frac{49}{50}$	31341	.20575	.31712 31719	.20755 .20758	.32082	.20932	.32449	.21119	.32811	.21288	11 10
51	31354	.20584	31725	.20761	32091	.20938	.32461	.21116	32827	,21291	9
+ 13	9.33,360	.20557	9/31731	.20764	9.32100	.20911	9.32167	.21119	9.32833	.21297	-8
53 54	31366 31372	.20590 .20593	31737 31744	.20767	32106	.20914	32473	.21122 .21125	.32539	.21300	7 6
5.5	31378	.20596	31749	.20773	12119	.20950	.32486	.21128	.32851	.21306	.5
+ 14°	9/31385	.20599 .20602	9.31756 81762	.20776	9.32125	.20953	9.32492   .32495	.21131	9.32857	.21309	\$
58	31397	.20605	31765	.20782	32137	.20959	.32504	.21137	.32569	.21312	0
59	3[303]	.20605	31774	.20755	32143	.30963	.32510	.21140	.32575	.21348	_1
4- 45	9.31409	.20614	9 31780 -	.20755	9.32149	.20965	9.32516	.21143	9/32881	.21321	0
	, nh		211/1	m	coh	_ 'n	rih	1m	Sup	27)m	

	,				TIAT CIST	105.					
	3h 40m	55° 0′	Jh .;jm	55° 15′	3h 42m	55° 30′	Sh 43m	55° 45′	3h 44m	56° 0'	
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	s
0	9.32881	.21321	9.33244	.21500	9.33605	.21680	9.33965	.21860	9.34322	.22040	60
1	.32887	.21324	.33250	.21503	.33611	.21683	.33971	.21863	.34328	.22043	59
2	.32893	.21327	.33256	.21506	.33617	.21686	.33976	.21866	.34334	.22046	58
S	.32899	.21330	.33262	.21509	.33623	.21689	.33982	.21869	.34340	.22949	57
+ 1'	9.32905	.21333	9.33268	.21512	9.33629	.21692	9.33988	.21872	9.34346	.22052	56
5	.32911	.21336	.33274	.21515	.33635	.21695	.33994	.21875	.34352	.22055	55
6	.32918	.21339	.33280	.21518	.33641	.21698	.34000	.21878	.34358	.22058	54
7	.32924	.21342	.33286	.21521	.33647	.21701	.34006	.21881	.34363	.22061	53
+ 2'	9.32930	.21345	9.33292	.21524	9.33653	.21701	9.34012	.21884	9.34369	.22064	52
9	.32936	.91348	.33298	.21527	.33659	.21707	.34018	.21887	.34375	.22067	51
10	.32942	.21351	.33305	.21530	.33665	.21710	.34024	.21890	.34381	.22071	50
11	.32948	.21354	.33311	.21533	.33671	.21713	.34030	.21893	.34387	.22074	49
+ 3	9.32954	.21357	9.33317	.21536	9.33677	.21716	9.34036	.21896	9,34393	.22077	48
13	.32960	.21360	.33323	.21539	.33683	.21719	.34042	.21899	.34399	.22080	47
14	.32966	.21363	.33329	.21542	.33689	.21722	.34048	.2190?	.34405	.22083	46
15	.32972	.21366	.33335	.21545	.33695	.21725	.34054	.21905	.34411	.22086	45
+ 4'	9.32978	.21369	9.33341	.21548	9.33701	.21728	9.34060	.21908	9.34417	.22089	44
17	.32984	.21372	.33347	.21551	.33707	.21731	.34066	.21911	.34423	.22092	43
18	.32990	.?1375	.33353	.21554	.33713	.21734	.34072	.21914	.34429	.22095	42
19	.32996	.21378	.33359	.21557	.33719	.21737	.34078	.21917	.34435	.22098	41.
+ 5'	9.33002	.21381	9.33365	.21560	9.33725	.21740	9.34084	.21920	9.34441	.22101	40
21	.33008	.21384	.33371	.21563	.33731	.21743	.34090	.21923	.34446	.22104	39
22	.33014	.21387	.33377	.21566	.33737	.21746	.34096	.21926	.34452	.22107	38
23	.33021	21390	.33383	.21569	.33743	.21749	.34102	.21929	.34458	.22110	37
+ 6'	9.33027	.21393	9.33389	.21572	9.33749	.21752	9.34108	.21932	9.34464	.22113	36
25	.33033	.21396	.33395	.21575	.33755	.21755	.34114	.21935	.34470	.22116	35
-26	.33039	.21399	.33401	.21578	.33761	.21758	.34120	.21938	.34476	.22119	84
27	.33045	21402	33407	21581	.33767	.21761	.34126	.21941	.34482	.22122	33
+ 7'	9.33051	.21405	9.33413	.21584	9.33773	.21764	9.34132	.21944	9.34488	.22125	32
29	.33057	.21408	.33419	.21587	.33779	.21767	.34137	.21947	.34494	.22128	31
30 31	.33063	.21411 .21414	.33425 .33431	.21590 .21593	.33785	.21770 .21773	.34143	.21950 .21953	.34500	.22131	30 29
		.21417			9.33797				.34506		
+ 8'	9.33075 .33081	.21420	9.33437	.21596 .21599	.33803	.21776 .21779	9.34155	.21956 .21959	9.34512	.22137	28 27
33 34	.33087	.21423	.33449	.21602	.33809	.21782	.34161 $.34167$	.21962	.34518 .34524	.22143	26
35	,33093	.21426	.33455	.21605	.33815	.21785	.34173	.21965	.34529	.22146	25
+ 9'	9.33099	.21429	9.33461	.21608	9.33821	.21788	9 34179	.21968	9.34535	.22149	24
37	.33105	.21431	.33467	.21611	.33827	.21791	.34185	.21971	.34541	.22152	23
38	.33111	.21434	.33473	.21614	.33833	.21794	.34191	.21974	.34547	.22155	22
39	.33117	.21437	.33479	.21617	.33839	.21797	.34197	.21977	.34553	.22158	21
+ 10'	9.33123	.21440	9.33485	.21620	9.33845	.21800	9.34203	.21980	9.34559	.22161	20
41	.33129	.21443	.33491	.21623	.33851	.21803	,34209	.21983	.34565	.22164	19
42	.33135	.21446	.33497	.21626	.33857	.21806	.34215	.21986	.34571	.22167	18
43	.33142	.21449	.33503	.21629	.33863	.21809	.34221	.21989	.34577	.22170	17
+ 11'	9.33148	.21452	9.33509	.21632	9.33869	.21812	9.34227	.21992	9,34583	.22173	16
45	.33154	.21455	.33515	.21635	.33875	.21815	.34233	.21995	.34589	.22176	15
46	.33160	.21458	.33521	.21638	.33881	.21818	.34239	.21998	.34595	.22179	14
47	.33166	.21461	.33527	.21611	.33887	.21831	.34245	.22001	.34600	.22182	13
+ 12'	9.33172	.21464	9.33533	.21644	9.33893	.21824	9.34251	.22004	9.34606	.22185	12
49	.33178	.21467	.33539	.21647	.33899	.21827	.34256	.22007	.34612	.22188	11
50	.33184	.21470	.33545	.21650	.33905	.21830	.34262	.22010	.34618	.22191	10
51	.33190	.21473	.33551	.21653	.33911	.21833	.34268	.22013	.34624	.22194	. 9
+ 13'	9.33196	.21476	9.33557	.21656	9.33917	.21836	9.34274	.22016	9.34630	.22197	8
53	.33202	.21479	.33563	.21659	.33923	.21839	.34280	.22019	.34636	.22230	7
54	.33208	.21482	.33569	.21662	.33929	.21842	.34286	.22022	.34642	.22203	6
55	.33214	.21485	.33575	.21665	.33935	.21845	.34292	-22025	.34645	22200	_5 ,
+ 14	9.33220	.21488	9.33581	.21668	9.33941	.21848	9.34295	.22038	9.34654	.23213	4
57	.33226	.21491	.33587	.21671	.33947	.21851	.34304 34310	.22031	.34660	.22215	3
58	.33232	.21494	.33593	.21674	.83953	.21557	.34316	.22037	,34671	.27715	1
59	.33228	21497			9,00065	21500		-22040	9.34677	22221	0
+ 15'	9.3:214	.21500	9.33605	.21690	الطاليسيان	(÷)7(d)	4 14077	.5.040	J. 1727/14 4	1	- ' I
	2017.	tum	$-i\hbar$	1.Sm	:04	17m	20h	16m	20%	1.0	
	~	*		- \		- 1	~				

	3h 45m	56 15'	3h 46m	56° 30′	3h 47m	56 45'	5h 48m	57° 0′	3h 49m	57 15	
S	Log. Hav.	Nat. liav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat Have	s
0	9.34677	.22221	9.35031	.22403	9.35383	.22555	9.35733	.22768	9,36081	.22951	60
1	.34683	.22225	.35037	.22406	.35389	.22588	.35738	.22771	.36086 .36092	.22954	59
2 3	.34695	.22231	.35049	.22412	.35400	.22594	.35750	.22777	.36092	.22960	58 57
+ 17	9 34701	.22234	9.35054	.22415	9.35406	.22598	9.35756	.22750	9.36104	.22964	56
5	,34707	.22237	.35060	.22418	.35412	.22601	.35762	.22783	.36110	.22967	35
6	.34713	.22240	.35066 .35072	.22421	.35418	.22604	.35767	.22756	.36115	.22970	5.4
, ? 2'	.34719	.22246	9.35078	.22427	9.35429	.22610	9.35779	22792	.36121 9.36127	.22973	53 52
9	.34730	.22249	.35084	.22430	.35435	.22613	.35785	.22795	.36133	.22979	51
10	.34736	.22252	.35090	.22433	.35441	.22616	.35791	.22799	.36139	.22982	50
17	34742	.22255	.35096	.22137	.35447	.22619	.35797	22203	.36144	.229%	49
$+\frac{3'}{I\beta}$	9,34748	.22258	9.35101	.22440	9.35453	.22622	9.35802	.22505	9.36150 .36156	.22988	48
13	.34760	.22264	.35113	.22446	.35464	.22628	.35814	.22811	.36162	.22991	46
15	,34766	.22267	.35119	.22149	.35470	.22631	.35820	.22514	.36167	.22997	45
+ 4'	9.34772	.22270	9.35125	.22452	9,35476	.22634	9.35826	.22817	9.36173	.23000	44
17	.34778	.22273	.35131 .35137	.22455	.35482	.22637	.35831	.22820	.36179	.23003	43
18 19	.34784	.22279	.35143	.22461	.35494	.22643	.35843	.22526	.36185	.23006	42
+ 5'	9.34795	.22282	9.35148	22464	9.35500	.22646	9.35849	.22829	9.36196	.23012	40
21	.34801	.22285	.35154	.22467	.35505	.22649	.35855	.22832	.36202	.23016	39
- 22	.34807	.22288	.35160	.22470	.35511	.22652	.35860	.22835	.36208	.23019	38
- 28	.34813	.22294	35166 9.35172	.22473 22476	.35517 9.35523	22655 22658	,35866 9,35872	.22838	.36214	.23022	37
$+\frac{6'}{25}$	9,34819	.22297	.35172	.22479	.35529	.22661	.35878	.22844	9.36219 .36225	.23025	35
26	.34831	.22300	.35184	.22482	.35535	.22664	.35884	.22847	.36231	.23031	34
27	.34837	.22303	.35189	.22485	.35540	.22667	.35889	.22850	.36237	.23034	33
+ 7'	9.34843	.22306	9.35195	.22488	9.35546	.22671	9,35895	.22853	9.36243	.23037	32
29 50	.34848	.22309 .22312	.35201	.22491 .22494	.35552 .35558	.22674	.35901	.22857 .22860	.36248 .36254	.23010	31
51	.34860	.22315	.35213	.22497	.35564	.22680	.35913	.22863	.36260	.23016	29
+ 8'	9.34866	.22318	9.35219	.22500	9.35570	.22683	9,35918	.22566	9.36266	.23049	28
33	.34872	.22321	.35225	.22503	.35575	.22686	.35924	.22869	.36271	.23052	27
84 85	.34878	.22324	.35230 .35236	.22506	.35581	.22689	.35930	.22872	.36277 .36283	.23055	25
+ 9'	9.34890	.22330	9.35242	22512	9.35593	22695	9.35942	.22575	9.36289	.23061	24
37	.34896	.22333	.35248	.22515	.35599	.22698	.35947	.22881	,36294	.23065	23
38	.34901	.22336	.35254	.22518	.35604	.22781	.35953	.22884	.36300	.23068	22
39	.34907	.22340	.35260	.22522	.35610	.22704	.35959	.22887	.36306	.23071	21
+ 10'	9.34913	.22343	9,35266 .35271	.22525 .22528	9.35616	.22707 .22710	9,35965 ,35971	.22890	9,36312 .36318	.23074	20 19
42	34925	.22349	.35277	.22531	.35628	.22713	.35976	.22896	.36323	.23050	18
4.9	.34931	.22352	.35283	.22534	.35634	.22716	.35982	22899	.36329	.23083	17
+ 11'	9.34937	.22355	9.35289	.22537	9.35639	.22719	9.35988	.22902	9.36335	.23086	16
45 46	34943 .34949	.22358 .22361	.35295	.22548	.35645 .35651	.22722	.35994	.22905	.36341	.23059	15 14
-,7	.34954	.22364	.35307	.22516	.35657	.22728	.36005	.22912	.36352	.23095	13
+ 12'	9,34960	.22367	9.35312	.22549	9.35663	.22731	9 36011	.22915	9.36358	.23098	12
49	.34966	.22370	.35318	.22552	.35669	.22735	.36017	.22918	.36364	.23101	11
50 51	34972 34978	.22373 .22376	.35324	.22555 .22558	.35674 .35680	.22735	.36023	.22921	.36369	.23104	10
± 13′	9.34954	.22379	9.35336	.22561	9.35686	.22744	9.36034	.22927	9.36381	.23110	8
- 38 ·	.34990	.22382	.35342	.22564	.35692	.22747	,36040	.22930	.36387	.23114	7
54	.34996	.22385	.35348	.22567	.35698	.22750	.36046	.22933	.36392	.23117	- 6
55	.35002	.22355	.35353	.22570	.35703	.22753	.36052	.22936	36398	23120	5
+ 44' 57	9,35007 .35013	.22391	9 35359 35365	.22573	9.35715	.22756	9.36058	.22939	9.36404	.23123	3
58	.35019	.22397	.35371	.22579	.35721	.22762	.36069	.22945	.36415	.23129	2
59	.35025	.22400	.35377	.22582	.35727	.22765	.36075	.22948	.36421	.23132	- 1
+ 15'	9-35031	.22403	9,35383	.22585	9.35733	.22765	9/36081	.22951	9.36427	.23135	0
	2014	$Ii^m$	201	13m	σħ	[ m	_11h	11111	$e^{-h}$	$I^{ijm}$	
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н	25	or	sin	DQ.		

	3h 50m	57° 30′	3h 51m	57° 45′	3h 5;m	58° 0′	3h 53m	58° 15′	3h 54m	55° 30′	
s	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat Hav.	S
0	9.36427	.23135	9.36772	.23319	9.37114	.23504	9.37455	.23689	9.37794	.23875	60
1 2	.36433	.23138	.36777	.23322	.37120 .37126	.23507	.37461	.23692	.37800	.23878	59
3	.36444	.23144	.36789	.23329	.37120	.23513	.37467 .37472	.23695	.37806	.23881	58 57
+ 1'	9.36450	.23117	9.36794	.23333	9.37137	.23516	9.37478	.23702	9.37817	.23887	56
5	.36456	.23150	.36800	.23335	.37143	.23519	.37481	.23705	.37823	.23891	55
6 7	.36462	.23153	.36806 .36812	.23338	.37148 .37154	.23523	.37489	.23708	.37828	.23894	54
+ 2	9.36473	.23160	9.36817	.23344	$\frac{.37134}{9.37160}$	.23526	.37495 9.37501	23711 23714	.37834	23897	53
9	.36479	.23163	.36823	.23347	.37166	.23532	.37506	.23717	.37845	.23903	51
10	.36485	.23166	.36829	.23350	.37171	.23535	.37512	.23720	.37851	.23906	50
11	.36490	.23169	.36834	.23353	_37177	.23538	.37518	.23723	.37856	.23909	49
+ 3'	9.36496	.23172	9.36840	.23356	9.37183	.23541	9.37523 ,37529	.23726	9.37862	.23912	48
14	.36508	.23178	.36852	.23362	.37194	.23547	.37535	.23733	.37868	.23915	47 46
15	.36513	.23181	.36857	.23365	.37200	.23550	.37540	.23736	.37879	.23922	45
+ 4'	9.36519	.23184	9.36863	.23368	9.37205	.23553	9.37546	.23739	9.37885	.23925	44
17 18	.36525	.23187	.36869	.23372	.37211	.23556	.37552	.23742	.37890	.23928	43
18 19	.36536	.23190	.36875 .36880	.23375 .23378	.37217 .37222	.23560	.37557	.23745	.37896	.23931	42 41
+ 5'	9.36542	.23196	9.36886	.23381	9.37228	.23566	9.37569	23751	9.37907	- 23937	$\frac{41}{40}$
21	.36548	.23199	.36892	.23384	.37234	.23569	.37574	.23754	.37913	,23940	39
22	.36554	.23203	.36897	.23387	.37239	.23572	.37580	.23757	.37918	.23943	38
+ 6'	.36559 9.36565	.23206	.36903	.23390	.37245	.23575	.37585	.23760	.37924	23946	37
+ 6'	.36571	.23212	9.36909 $.36915$	.23396	9.37251 .37257	.23578 .23581	9.37591 .37597	.23764	9.37930 .37935	.23950	36 35
26	.36577	,23215	.36920	.23399	.37262	.23584	.37602	.23770	.37941	.23956	34
27	,.36582	.23218	.36926	.23402	.37268	.23587	.37608	.23773	.37947	.23959	33
+ 7'	9.36588	.23221	9.36932	.23405	9.37274	.23590	9.37614	.23776	9.37952	.23962	32
29 30	.36594	.23224	.36937 .36943	.23409	.37279 .37285	.23594	.37619 .37625	.23779	.37958	.23965	31 30
31	.36605	.23230	.36949	.23415	.37291	.23600	.37633	.23785	.37969	.23971	29
+ 8'	9.36611	.23233	9.36955	.23418	9.37296	.23603	9.37636	23784	9.37975	.23974	28
33	.36617	.23236	.36960	.23421	.37302	.23606	.37642	.23791	.37980	.23977	27
34 35	.36622 .36628	.23239	.36966	.23424	.37308	.23609	.37648	.23795	.37986 .37992	.23981	26
+ 9'	9.36634	.23246	$\frac{.36972}{9.36977}$	.23430	9.37319	.23615	9.37659	23801	9.37997	.23987	$\frac{25}{24}$
37	.36640	.23249	.36983	.23433	.37325	.23618	.37665	.23801	.38003	.23990	23
38	.36645	.23252	.36989	.23436	.37330	.23621	.37670	.23807	.38008	.23993	22
39	.36651	.23255	.36995	.23439	.37336	.23624	.37676	.23810	.38014	.23996	21
+ 10'	9.36657 .36663	.23258	9.37000	.23442	9.37342 .37347	.23627	9.37682 .37687	.23813	$9.38020 \\ .38025$	.23999	20 19
42	.36668	.23264	.37012		.37353	.23634	.37693	.23819	.38031	.24005	18
43	.36674	.23267	.37017	.23449	.37359	.23637	.37699	.23822	.38037	.24009	17
+ 11′	9.36680	.23270	9.37023	.23455	9.37364	.23640	9.37704	.23825	9.38042	.24012	16
45 46	.36686 .36691	.23273	.37029 .37034	.23458 .23461	.37370 .37376	.23643	.37710 .37715	.23839	,38048 ,38053	.24015 .24018	15 14
47	.36697	.23279	.37034	.23464	.37382	.23649	.37721	.23835	.38059	.24021	13
+ 12'	9.36703	.23282	9.37046	.23467	9.37387	.23652	9.37727	.33535	9.38065	.24024	12
49	.36708	.23285	.37052	.23470	.37393	.23655	.37732	.23841	.38070	.24027	11
50	.36714	.23289	.37057	.23473	.37399	.23658	.37738	.23844	.38076 .38081	.24030 .24033	10
$\frac{51}{+13'}$	9.36726	.23292	.37063 9.37069	.23476	$\frac{.37404}{9.37410}$	.23661	$\frac{.37744}{9.37749}$	.23847	9.38087	.24036	
53	,36731	.23298	.37069	.23482	.37416	.23665	.37755	.23853	.38093	.24040	8 7
54	.36737	.23301	.37080	.23486	.37421	.23671	.37761	.23856	.38098	.24043	-6
55	.36743	.23304	.37086	.23489	.37427	.23674	.37766	.23860	.38104	24016	5
+ 14′	9.36749	.23307	9.37091	.23492	9.37433	.23677	9.37772	.23863	9.38110	.24049	4 3
57 58	.36754 .36760	.23310	.37097	.23495 .23498	.37444	.23680	.37778 .37783	.23869	.38121	.21055	2
<b>5</b> 9	.36766	.23316	.37109	.23501	.37450	.23686	.37789	.23872		.24058	1
+ 15'	9.36772	.23319	9.37114	.23504	9.37455	.23659	9.37794	.23875	9.38132	.24061	0
	20h	9m	20h	8m	20h	7 m	20h	6m	?()h	5m	
L											

Page 858]

# TABLE 45.

Haversines.

	3h 55m	58° 45′	3h 56m	59° 0′	5h 57m	59° 15′	3h 58m	59° 30′	Sh 59m	59° 45′	<u> </u>
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
U	9.05132	.24061	9.35168	.24248	9,38802	.24435	9.39134	.24623	9.39465	.24511	60
. 1	.38138 .38143	.24064 .24068	.38473	.24254 .24254	.38807 .38813	.24442	.39140	.24626	.39470	.24514	59
5	.35149	.21071	.35485	.21257	.35513	.24445	.39145	.24632	.39481	.24821	58 57
+ 1	9,38144	.24074	9,58490	.21261	9.38524	.21115	9.39156	.24636	9.39457	.21821	30
5	35-160	.21077	.38496	.21264	.35830	.24451	.39162	.24639	,39492	.24527	55
t _i	35166	.21050	.35501	.21267	.38535	.24454	.30167	.21642	,39498	.245:10	54
+ 3.	.38171 9.38177	.24083	.38507 9.38512	.24270	.3×41 9.55×46	.24457	.39173 9.39178	.24615	$\begin{bmatrix} .39503 \\ 9.39509 \end{bmatrix}$	.24833	53 52
+ ,*	.08182	.21089	.38518	.21276	.38852	.24163	.39184	.21651	.39514	.24840	51
10		.21092	.38524	.21279	.35557	.24467	.39189	.24654	.39520	.24813	50
11	.08194	.21096	.38529	.34585	.38863	.24170	.39195	.24658	.39525	.24846	49
+3'	9.48199	.21099	9.35535	.24256	9.38868	.24173	9,39201	.24661	9.39531	.24819	48
1 1	.38205 .38210	.21102	.38540	.21259	.38874	.21176	.39206	.21664	.39536	.24852	47
15	.38216	.21108	.38551	.24295	.38885	.24482	.39212	.24670	.39547	.24858	46 45
+ 4	9.08222	.21111	9.38557	.21298	9.35891	.24485	9.39223	.21673	9.39553	.24862	44
17	.38227	.21114	.38563	.24301	.38896	.21488	.39228	.21676	.39553	.24565	43
18	.38233	.21117	.38568	.24304	.35902	.21192	.39234	.24680	.39564	.24868	42
1.7	.38239	.21120	.35574	.21307	.38907	.24495	.39239	21683	.39569	.24871	41
$+\frac{5'}{2!}$	9.38241	.21124	9.38579 .38585	.24310	9.05913 .38918	.24495	9,39245	.24686	9.39575 .39580	.24874	40 39
77	.38255	.21130	.38590	.24317	38924	.24504	.39256	.24692	.39586	.24880	38
2.7	.38261	.21133	.35596	.24320	.38929	.24507	.39261	.24695	.39591	.24881	37
+ 6	9.35267	.24136	9.38602	.24323	9.38935	.24510	9.39267	.24698	9.39597	.24887	36
- 23	.38272 .38278	.21139	.38607	.24326	.38944 .38946	.24514	.39272 .39278	.24701	.39602	.24890	35 34
26 27	35253	.24115	.38618	.21332	.38952	.24520	.39278	.21708	.39613	.24896	33
+ 7	9.08289	.21118	9.38624	.21335	9.38957	-,24523	9.39289	24711	9.39619	.24899	32
29	.38295	.24152	.38629	.24339	.38963	.24526	.39294	.24714	.39624	.24903	31
30	.35300	.21155	.35635	.21312	.38968	.24529	.39300	.21717	.39630	.24906	30
31	.35306		.38641	.24345	.38974	.24532	.39305	.21729	,39635	.24909	29
+ 5	9.38311 .38317	.24161	9.38646	.24348	9.38979 .38985	.24535 .24539	9,39311 .39316	.24723	9.39611	.24912	28
34	.35322	.24167	38657	.21354	.38990	.24542	.39322	.24730	.39652	.24918	26
85	.38328	.24170	.38663	.24357	38996	.24545	.39327	.24733	.39657	.24921	25
+ 9	9,38334	.21173	9.38668	.21360	9.39002	.24548	9.39333	.24736	9.39663	.24924	24
37 38	.38339	.24176	.38674	.24364	.39007	.24551	.39338	.24739	.39668	.24928	23
39	.35350	.24183	.38685	.24370	.39013	.24557	.39344	.24745	.39679	.24934	21
+ 10	9.38356	.24186	9.38691	.24373	9.39024	-,24560	9.39355	.24749	9.39685	24937	20
41	.38362	.21189	.38696	.21376	.39029	.24561	.39360	.21752	.39690	.21940	19
17 1	.38367	.21192	.38702	.24379	.39035	.24567	.39366	.24755	.39695	.24913	18
	08373	.24195	.38707	.24382	39040	.24570	.39371	.21758	.39701	.24916	$\frac{17}{16}$
+ 11	9.05378	.24198	9.38713	.21385	9,39046	.24573	9.39377	.21761	9.39706 .39712	.24950	15
36	.28390	.24204	.38724	.24392	39057	24579	39388	.24767	.39717	.24956	13
10 1	.38395	.24208	.38730	.21395	.39062	.24582	.39398	.21770	.39723	.21959	13
+ 12	9.38401	.24211	9.38735	.21398	9,39068	.21586	9,39399	.24774	9.39728	.21962	10
	38406 38412	.21214	.38741 .38746	.21101	.39073 39079	.24589	.39404	.21777	.39734	.24965 .24969	11 10
	18118	.21220	38752	.21107	13085	.21595	39415	.24783	.39745	.21972	9
13	9/38423	.24223	9.38757	.21110	9 ,39090	.24595	9.39421	.21786	9,39750	.24975	8
	08429	.21226	38763	.21113	39099	.24604	.39426	.21789	.39756	.21978	7
	18434	.21229	38769 38774	.24117	39101	.21601	.39432 .39437	.21792	.39761 .39767	.24951	6 5
111	9 -115	.21236	9 38780	.21123	9.39112	.246111	9.39443	21799	9 39772	.24957	-4
	151	.24239	1828	.21126	19115	.21611	39118	24802	39778	.24994	3
	316	.21212	18791	.24429	39123	.21617	.39454	.21805	.39783	.21991	2
	22.00	.21215	35790	.24432	59129	.24620	.39459	.24888	59789	.21997	1
15	11.3	.21248	9.38802	.21435	9/19/13/1	.21623	9.39165	.24814	9.39791	.25000	0
	. A	, 11	it.	, 10			. 4	4		1 11	

TABLE 45.

	4h Om	60° 0′	4h 1m	60° 15′	Ah om	60° 30′	Ah em	60° 45′	4h 4m	61° 0′	
s		Nat. Hav.		Nat. Hav.		Nat. Hav.		Nat. Hav.		Nat. Hav.	
							I		ļ — — —		S
0	9.39794 .39799	.25000 .25003	9.40121 .40127	.25189 .25192	9.40447	.25379 .25382	9.40771	.25569	9.41094	.25760 .25763	60 59
2	.39805	.25006	.40132	.25195	.40458	.25385	.40782	.25575	.41105	.35766	58
3	.39810	.25009	.40138	.25199	.40463	.25388	.40787	.25578	.41110	.25769	57
+ 1'	9.39816	.25013	9.40143	.25202	9.40469	.25391	9.40793	.25582	9.41115	.25772	56
5 6	.39821	.25016 .25019	.40149 .40154	.25205	.40474	.25395 .25398	.40798 .40804	.25585	.41121 .41126	.25775 .25779	55
7 .	.39832	.25022	.40159	.25211	.40485	.25401	.40809	.25591	.41131	.25782	54 53
+ 2'	9.39838	.25025	9.40165	.25214	9,40490	.25404	9.40814	.25594	9.41137	.25785	$\frac{55}{52}$
9	.39843	.25028	.40170	.25218	.40496	.25407	.40820	.25597	.41142	.25788	51
10 11	.39849	.25032	.40176 .40181	.25221	.40501	.25410	.40825	.25601 .25604	.41147	.25791	50
+ 3'	9.39860	.25038	9.40187	.25227	$\frac{.40507}{9.40512}$	.25417	$\frac{.40831}{9.40836}$	.25607	9.41153 $9.41158$	.25795	49
13	.39865	.25041	.40192	.25230	.40518	.25420	.40841	.25610	.41163	.25801	47
14	.39871	.25044	.40198	.25233	.40523	.25423	.40847	.25613	.41169	.25804	46
15	.39876	.25047	.40203	.25237	.40528	.25426	.40852	.25617	.41174	.25807	45
+ 4'	9.39881	.25050	9.40208 .40214	.25240	9.40534	.25429	9.40858	.25620	9.41180	.25810	44
18	.39892	.25057	.40214	.25246	.40545	.25436	.40863 .40868	.25626	.41189	.25814	43 42
19	.39898	.25060	.40225	.25249	.40550	.25439	.40874	.35629	.41196	.25820	41
+ 5′	9.39903	.25063	9.40230	.25252	9.40555	.25442	9.40879	.25632	9.41201	.25823	40
# 21	.39909	.25066	.40236	.25255	.40561	.25445	.40884	.25636	.41206	.25826	39
22 23	.39914	.25069	.40241 .40246	.25259 .25262	.40566 .40572	.25448 .25452	.40890 .40895	.25639	.41212 .41217	.25830	38 37
+ 6	9.39925	.25076	$\frac{.40248}{9.40252}$	.25265	9.40577	.25455	9,40900	.25645	9.41222	.25836	36
25	.39931	.25079	.40257	.25268	.40582	.25458	.40906	.25648	.41228	.25839	35
26	.39936	.25082	.40263	.25271	.40588	.25461	.40911	.25651	.41233	.25842	34
27	.39942	.25085	.40268	.25274	.40593	.25464	40917	.25655	.41238	.25815	33
+ 7'	9.39947	.25088	9.40274	.25278	9.40599	.25467	9.40922	.25658	9.41244	.25849	32
30	.39952	.25091	.40279	.25281	.40604	.25471	.40927	.25661	.41249 .41254	.25853	31 30
31	.39963	.25098	.40290	.25287	.40615	.25477	.40938	.25667	.41260	.25858	29
+ 8'	9.39969	.25101	9.40295	.25290	9.40620	.25180	9,40943	.25671	9.41265	.25861	28
33	.39974	.25104	.40301	.25293	.40626	.25483	.40949	.25674	.41270	.25865	27
. 34 35	.39980	.25107 .25110	.40306	.25297	.40631 .40636	.25487	.40954 .40960	.25677	.41276 .41281	.25868	26 25
+ 9'	9.39991	.25113	9.40317	.25303	9.40642	.25493	9.40965	.25683	9.41287	.25874	24
37	.39996	.25117	.40322	.25306	.40647	.25496	.40970	.25686	.41292	.25877	23
38	.40002	.25120	.40328	.25309	.40653	.25499	.40976	.25690	.41297	.25880	22
39	.40007	.25123	.40333	.25312	.40658	.25502	.40981	.25693	$\frac{.41303}{9.41308}$	.25884	21
+ 10′	.40012	.25126	9.40339 .40344	.25316	9.40663	.25506 .25509	$9.40986 \\ .40992$	.25699	.41313	.25890	19
42	,40023	.25132	.40350	.25322	.40674	.25512	.40997	.25702	,41319	.25893	18
43	.40029	.25136	.40355	.25325	.40680	.25515	,41003	.25705	.41324	.25896	17
+ 11'	9.40034	.25139	9.40360	.25328	9.40685	.25518	9.41008	.25709	9.41329	.25900	16
45 46	.40040	.25142 .25145	.40366 .40371	.25331 .25335	.40690 .40696	.25521 .25525	.41013 .41019	.25712	.41335	.25903 .25906	15 14
47	.40051	.25148	.40377	.25338	.40701	.25528	.41024	.25718	.41345	.25900	13
+ 12'	9.40056	.25151	9.40382	.25341	9.40707	.25531	9.41029	.25721	9.41351	.25912	12
49	.40062	.25154	.40388	.25344	.40712	.25534	.41035	.25724	.41356	.25915	11
50	.40067	.25158 .25161	.40393	.25347	.40717 .40723	.25537	.41040	.25728	.41361	.25919	10 9
$\frac{51}{+13'}$	9.40078	.25164	9.40404	.25354	9,40728	.25544	9,41051	.25731	9.41372	.25925	8
+ 13 53	.40083	.25167	.40409	.25357	,40734	.25547	.41056	.25737	.41377	.25928	7
54	.40089	.25170	.40415	.25360	.40739	.25550	.41062	.25740	.41383	.25931	6
55	.40094	.25173	.40420	.25363	.40744	.25553	,41067	.25744	.41388	.25935	5
+ 14/	9.40100	.25177 .25180	9.40425 .40431	.25366	9.40750	.25556 .25559	9.41072 .41078	.25747 .25750	9.41393	.25938	3
57 58	,40105 ,40111	.25180	.40431	.25372	.40755 .40761	.25563	.41078	.25753	.41404	.25911	2
59	.40116	.25186	.40442	.25376	.40766	.25566	.41088	.25756	.41409	.25917	1
+ 15′	9.40121	.25189	9.40447	.25379	9.40771	.25569	9.41094	.25760	9.41415	.25951	0
	19h	59m	19h	58m	19h	57m	19h	56m	19 h	5.5m	

١		4h 5m	61° 45′	4h 6m	61° 30′	4h 7m	61° 45′	4h Sm	62° 0′	4h 9m	62° 15′	
	S	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
П	0	9.41415	.25951	9.41734	.26142	9.42052	.26334	9.42368	.26526	9.42682	.26719	60
ı	1	.41420	.25954	.41739	.26145	.42057	.26337	.42373	.26530	.42688	.26722	59
١	3	41425 .41431	.25957 .25960	.41745 .41750	.26148 .26152	.42062 .42068	.26340	.42378 .42384	.26533 .26536	.42693 .42698	.26726 .26729	58 57
ŀ	+ 1'	9.41436	.25963	9.41755	.26155	9.42073	.26347	9.42389	.26539	9.42703	.26732	56
Į	5	.41441	.25966	.41761	.26158	.42078	.26350	.42394	.26543	.42709	.26735	55
ı	6	.41447	.25970	.41766	.26161	42083	.26353	.42399	.26546	42714	.26739	54
I.	7	.41452	.25973	.41771	.26164	.42089	.26356	.42405	.26549	.42719	.26742	53
١	+ 2'	9.41457	.25976	9.41776	.26168	9.42094	.26360	9.42410 .42415	.26552 .26555	9.42724 .42730	.26745 .26748	52 51
1	10	.41463 .41468	.25982	.41782 .41787	.26171	.42099 .42105	.26363	.42415	.26559	,42735	.26751	50
1	11	.11473	.25986	.41792	.26177	.42110	.26369	.42426	.26562	.42740	.26755	49
1	+ 3	9,41479	.25989	9.41798	.26180	9.42115	.26372	9.42431	.26565	9.42745	.26758	48
1	13	.41484	.25992	.41803	.26184	.42120	.26376	.42436	.26568	.42750	.26761	47
1	14 15	.41489 .41495	.25995	.41808 .41814	.26187 .26190	.42126	.26379	.42441	.26571 .26575	.42756 .42761	.26761	46 45
1	+ 4	9.41500	.26002	9.41819	.26193	.42131	.26382	9.42452	.26578	9.42766	.26771	44
١	17	.41505	.26005	.41824	.26196	.42141	.26359	.42457	.26581	.42771	.26774	4.3
1	18	.41511	.26008	.41829	.26200	.42147	.26392	.42462	.26584	.42777	.26777	43
1	19	.41516	.26011	.41835	.26263	.42152	.26395	42468	.26587	.42782	.26780	41
1	+ 5'	9.41521	.26014	9.41840	.26266	9.42157	.26398		.26591	9.42787	.26754	40
1	22	.41527 .41532	.26017 .26021	.41845 .41851	.26209	.42163 .42168	.26402 .26405	.42478 .42483	.26594	.42792 .42797	.26787 .26790	39 38
١	23	.41537	.26024	.41856	.26216	.42173	.26408	42489	.26600	.42803	.26793	37
ı	+ 6'	9.41543	.26027	9.41861	.26219	9.42178	.26111		.26604	9.42808	.26797	36
١	25	.41548	.26030	.41867	.26222	.42184	.26414	42499	.26607	.42813	.26800	35
ı	26	.41553	.26033	.41872	.26225	42189	.26417	.42504	.26610	.42818	.26503	34
ı	27	.41559	.26037	.11877	.26228	.42194	.26421	.42510	.26613	.42824	.26806	33
ı	$+_{29}^{-7'}$	9 41561 -41569	.26010 .26043	9.41882	.26232	9.42199 .42205	.26424	9.42515 42520	.26616	9.42829 .42834	.26509 .26513	32 31
ı	30	.41575	.26016	.41893	.26238	.42210	.26430	42525	.26623	.42839	.26516	30
ł	81	.41580	.26049	.41898	.26211	42215	.26433	.42531	.26626	.42844	.26819	29
ì	$+$ $\mathbf{s}'$	9 41585		9.41904	.26244	9.42221	.26437	9.42536	.26629	9.42850	.26822	28
1	33	41590	.26056	.41909	.26218	.42226	.26440	42541	.26632	.42855	.26529	27 26
١	34 85	.41596 .41604	.26059	.41914 .41920	.26251 .26254	.42231 .42236	.26143	. 12546 . 12552	.26639	.42865	.26832	25
ŀ	± 9'	9 41606	.26065	9 41925	.26257	9.42242	.26119		.26613	9.42870	.26835	25
ı	37	.41612	.26069	.11930	.26260	.42247	26453	.42562	.26645	.42876	.26538	2.5
١	38	.41617	.26072	41935	.26261	42252	.26456	42567	.26619	.42551	.26812	-22
4	59	.41622	.26075	41941	.26267	.42257	.26459	12573	.26652	.42880	.26815	21
ı	+ 10'	9.41628 .41633	.26078	9 11946 _11951	.26270	9,42263 42268	.26462	9.42578 .42583	.26655 .26658	9.42591 .42597	,26834 ,26851	10
ŀ	42	41638	.26085	11957	.26276	12273	.26169	12588	.26661	.42902	.26855	18
ı	44	.41611	.26055	11902	26280	12278	.26172	12593	.26665	42907	.26558	17
ı	+ $11'$	9, 11649	.26091	9 41967	.26253	9 42284	.26175	9,12599	.26668	9.42912	.26 -61	16
1	1.5	.41654	10091	41972	.26286	12280	.26178	.42604	26671	.42917	.26564	15
1	16	.41660 .41665	.26097	41978 11983	.26289	12291	.26484	42609 42614	.26674	.42923	.26567	13 13
-	- 12	9.11670	.26104	9 41988	.26296	9 12305	.26188	9.12620	.26651	9 12933	.26574	12
1	19	11676	.26107	41994	.26299	. 12310	.26191	12625	.26681	42938	.26577	11
1	50	41681	.26110	11999	.26303	.42315	.26191	.42630	.26697	.42913	.26550	10
1	57	.11686	.26113	. 12001	.26305	12321	.26198	.42635	.26690	.42949	.26553	- 9
1	· 13′	9 41602	.26117	9 12009	.26308	4.47356	.26591	9 12641	.26691	9,42954 42959	.26557	8
1		.41697 41702	.26420	12015 12020	.26312	12331 12336	.26501	42646 4265T	.26697 .26700	42959 .42964	.26593	7
١	3	11707	.26126	12025	.26318	12342	.26510	42656	.26703	12969	.26596	5
1	- 11	9 41713	.26129	9 42031	.26321	9 42317	.26511	9 (2662)	.26706	9.42975	.26900	- 5
-		141718	.26132	42036	.26324	42352	.26517	12667	.26710	.42980	.26903	- 3
-	58	11 207	.26436	12011	.26328	42357	.26520	12672	.26713	.42985 42990	.26906	2
I	= 59 = <b>15</b> ⁷	.41.220	.26139	(2040) 9 (2052)	.26331	12363 9 12368	.26523	12677 9 42682	$-\frac{.26716}{.26719}$	9 12996	.26909	$-\frac{1}{0}$
-1	→ 10	9, 11, 11	.25142	1	* 20041	12.00	. 20.) 20	0.10082	. 20713	12.17.440	.26913	1 "
ĺ		14/1	594	19/4	5 :	14h		194	5711	194	5cm	
ı,						·		1				

											_
	4h 10m	62° 30′	4h 11m	62° 45′	4h 12m	63° 0′	4h 13m	63° 15′	4h 14m	63° 30′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log, Hav.	Nat, Hav	s
0	9,42996	.26913	9,43307	.27106	9.43617	.27300	9,43926	.27495	9.44232	.27690	60
1	.43001	.26916	.43312	.27140	.43622	.27304	.43931	.27198	.44238	.27693	59
2	.43006	.26919	.43317	.27113	.43627	.27307	.43936	.27502	.44243	.27697	58
3	.43011	.26922	43323	.27116	.43632	.27310	.43941	27505	44248	.27700	57
+ 1'	9,43016	.26925	9,43328	.27119	9,43638	.27313	9,43946	.27508	9,44253	.27703	. 56
5	.43022	.26932	.43333	.27122	.43643	.27317 .27320	.43951	.27511	.44258 .44263	.27706	55
6 7	,43032	.26935	,43343	.27129	.43648 .43653	.27323	.43956 .43961	.27515 .27518	,44268	.27710	54 53
+ 2'	9,43037	.26938	9.43348	.27132	9,43658	.27326	9.43967	.27521	9.44273	.27716	52
9	.43042	.26942	.43354	.27135	.43663	.27330	,43972	.27524	.44278	.27719	51
10	.43048	.26945	.43359	.27139	.43669	.27333	.43977	.27528	.44283	.27723	50
11	.43053	.26948	.43364	.27142	.43674	.27336	.43982	.27531	.44289	.27726	49
+ 3'	9.43058	.26951	9.43369	.27145	9.43679	.27339	9,43987	.27534	9,44294	.27729	48
13	.43063	.26955	.43374	.27148	.43684	.27343	.43992	.27537	.44299	.27732	47
14	.43068	.26958	.43380	.27152	.43689	.27346	.43997	.27541	.44304	.27736	46
15	.43074	.26961	.43385	.27155	.43694	.27349	.44002	.27544	.44309	.27739	45
+ 4'	9.43079 .43084	.26967	9.43390 •43395	.27158 .27161	9.43699 .43705	.27352 .27356	9.44008 .44013	.27547 .27550	9.44314 .44319	.27742	44
18	.43089	.26971	.43400	.27165	.43710	.27359	.44018	.27554	.44324	.27749	43
19	.43094	.26974	.43405	.27168	.43715	.27362	.44023	.27557	.44329	.27752	41
+ 5	9,43100	.26977	9,43411	.27471	9.43720	.27365	9.44028	.27560	9,44334	.27755	40
21	.43105	.26980	.43416	.27174	.43725	.27369	.44033	.27563	.44340	.27758	39
22	.43110	.26984	.43421	.27177	.43730	.27372	.44038	.27567	.44345	.27762	38
23	.43115	.26987	.43426	.27181	.43735	.27375	.44043	.27570	.44350	27765	37
+ 6'	9.43120	.26990	9.43431	.27184	9.43741	.27378	9.44048	.27573	9,44355	.27768	otti
25	.43126	.26393	.43436	.27187	.43746	.27382	.44054	.27576	.44360	.27772	35
26 27	.43131 .43136	.26996 .27000	.43442 .43447	.27190 .27194	.43751 .43756	.27385	.44059 .44064	.27580	.44365	.27778	34
+ 7'	9.43141	.27003	9.43452	.27197	9,43761	.27391	9.44069	.27586	9.44375	.27781	52
29	.43146	.27006	.43457	.27200	.43766	.27394	.44074	.27589	,44380	.27785	51
30	.43151	.27009	.43462	.27203	.43771	.27398	.44079	.27593	.44385	.27788	30
31	43157	.27013	.43467	.27207	.43777	.27401	.44084	.27596	.44390	.27791	29
+ 8'	9.43162	.27016	9.43473	.27210	9,43782	.27404	9.44089	.27599	9.44396	.27794	-8
33	.43167	.27019	.43478	.27213	.43787	.27407	. 14095	.27602	.44401	.27798	1 77
34	.43172	.27022	.43483	.27216	.43792	.27411	.44100	.27606 .27609	.44406 .44411	.27801	26 25
35	.43177	.27025	43488 9 43493	.27220	$\frac{.43797}{9.43802}$	.27414	.44105 9,44110	.27612	9,44416	.27807	14
+ 37	9.43183 .43188	.27032	,43498	.27226	.43802	.27420	.44115	.27615	.44421	.27811	13
38	.43193	.27035	.43504	.27229	.43813	.27434	,44120	.27619	.44426	.27844	
39	.43198	.27038	.43509	.27232	.43818	.27427	.44125	.27622	.44431	.27817	.1
+ 10'	9.43203	.27042	9.43514	.27236	9,43823	.27430	9.44130	.27625	9.44436	.27820	.0
41	.43209	.27045	.43519	.27239	.43828	.27433	.44135	.27628	,44441	.27824	19
42	.43214	.27048	.43524	.27242	.43833	.27437	.44141	.27632	.44446	.27827	18 17
-43	.43219	.27051	,43529	.27215	,43838	.27440	.44146	.27635	44452 9.44457	.27830	16
+ 11'	9.43224 .43229	.27055	9,43535	.27249	9,43843 ,43849	.27443	9,44151	.27641	.44462	.27537	15
45 46	.43234	.27061	.43545	.27255	.43854	.27450	.44161	.27645	.44467	.27510	1.4
47	.43240	.27064	.43550	.27258	.43859	.27453	.44106	.27648	.44472	.27813	1.7
+ 12	9,43245	.27068	9,48555	.27262	9,43864	.27456	9,44171	.27651	9.44477	.27546	1:
49	.43250	.27071	.43560	.27265	.43869	.27459	41176	.27654	.44482	.27850	11
50	.45255	.27074	.43565	.27265	.43 474	.27463	.44151	.27658	.44487	.27853	10
51	.43260	.27077	.43571	.27274	13879	.27166	44157_	.27661	.44492	$\frac{.27856}{.27859}$	- 9
+ 13′	9.53266	.27030	9.43576	.27275	9,43884	.27169	9.44192 .44197	.27664	9.44497 .44502	.27863	18
53 54	.43271	.27084	.43581 .43586	.27251	.43895	.27476	.44202	.27671	,44507	.27866	6
55	.43281	.27090	43591	.27254	.43900	.27479	.41207	.27671	.44513	.27869	1.5
+ 14'	9.43286	.27093	9.13596	.27288	9,43905	27482	9,44212	.27677	9.44518	.27873	
57	.43291	.27097	.43602	.27291	. 13910	.27485	.44217	.27680	.44523	.27876	
58	.43297	.27100	.43607	.27294	.43915	.27459	.44222	.27654	.44528	.27579	
- 59	.43302	.27103	.43612	.27297	.43920	.27492	44227	.27657	.44533	.27852	1
+ 15'	9.43307	.27106	9.43517	.27300	9.43926	.27195	9,44232	.27690	9,44588	.27856	
	7127	.,570	16h	48m	tuh	47m	19h	46m	19h	45m	
	1911	4 100	19"	40	1.7%	*F 4 ***	1,000	,	1 1		1

			1 .								1
- 1.	4h 15m		4h 16m		4h 17m		4h 18m		4h 19m		
8	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.		Log. Hav.		Log. Ilav.	Nat. Hav.	_ s
	9.44538	.27886	9,44842	.28081	9.45144	.28278	9.45446	.28171	9.45745	.28672	60
1	.44543	.27889	.41847	.28085	.45149	.28281	.45451	.28478	.45750	.28675	55
2	.44548	.27892 .27895	.44852 .44857	.28088	.45155 .45160	.25288	.45456 .45461	.28481	.45755 .45760	.28681	58 57
	. 11553	.27899	$\frac{11597}{9.44862}$	.28095	9.45165	.25291	9.45466	.23488	9.45765	.28685	51
$+\frac{1}{3}$ 1'	9,11558 .44563	.27902	.44867	.25093	.45170	.28294	.45471	.28491	.45770	.28688	5
6	.11568	.27905	.44872	.28101	.45175	.28297	-45476	.28494	.45775	.28691	5.
7	.11573	.27908	.44877	.28101	.45180	.28301	.45481	.28497	.45780	.28695	5
+ 2	9,44579	.27912	9.44882	.28108	9.45185	.25304	9.45486	.28501	9.45785	.28698	5
9	44584	.27915	.44587	.28111	.45190	.28307	.45491	.28504	45790	.28701	5
10	.44589	.27918	.44892	.28114	.45195	.28310	.45496	.28507	.45795	.28704	ð
11	.44594	.27921	.44898	.28117	.45200	.28314	.45501	.28511	.45800	.28708	١.
+ 3′	9.44599	.27925	9.44903	.25121	9.45205	.28317	9,45506	.28514	9.45805	.28711	4
1.5	.44604	.27928	. 44908	.28124	.45210	.28320	.45511	.28517	.45810	.28714	L
1.7	.44609	.27931	.44913	.28127	45215	.28324	.45516	.28520	45815	.28718	4
1.5	.44614	.27935	.44918	.28130	45220	.28327	.45521	.28524	.45820	.28721	l٠
+ 4"	9.44619	.27938	9,44923	.25134	9.45225	.28330	9.45526	.28527	9.45825	.28724	1
17	.44624	.27941	44928	.28137	.45230	.28333	.45531	.28530	.45830	.28727	ŀ
18	.44629	.27944	. 44933	.28110	.45235	.28337	.45536	.28531	.45835	.28731	ŀ
19	.44634	.27948	44938	.28114	.45240	.28340	.45541	.28537	.45840	.28734	Ŀ
	9.44639	.27951	9,44943	.25147	9.45245	.28343	9.45546	.28540	9.45845	.29737	ŀ
21	.44645	.27951	.44945	.28150	.45250	.28317	.45551	.28543	.45850	.28741	ŀ
-22	.44650	.27957	44953	.28153	.45255	.28350	.45556	.28547	.45855	.28711	Ŀ
23	44655	.27961	44958	.28157	.45260	.28353	.45561	.28550	45860	.28717	_
	9.41660	.27964	9.44963	.28160	9.45265	.25356	9.45566	.28553	9.45865	.28751	ŀ
25	.44665	.27967 .27970	.44968	.28163	.45270 .45275	.28360 .28363	.45571 .45576	.28557	.45870	.28757	L
26 27	.44670	.27974	14978	.23170	45280	.28366	45581	.28563	.45879	.28760	П
	9.44680	.27977	9.44983	.25173	9.45285	.25369	9.45586	.28566	9.45884	.28764	H
" ,, 7	,14685	.27980	.44988	.28176	.45290	.28373	.45591	.28570	.45889	.28767	Ľ
30	. 14690	.27933	.44993	.28180	45295	.28376	.15596	.28573	45894	.28770	П
31	.14695	.27987	44998	.25183	15300	.28379	45601	.28576	45899	.28774	L
- 1	9.44700	.27990	9,45003	.25156	9 45305	.28383	9.45606	.25550	9.45904	.28777	13
.5.3	44705	27993	. 15009	.28189	.45310	28386	45610	.28583	.45909	.28780	L
34	14710	.27997	45014	.28193	.45315	.28389	.45615	.28586	.45914	.28783	١.
3.5	44715	.28000	.45019	.28196	45320	.25392	45620	.28589	.45919	.29787	ŀ
+ 9'	9 44721	.28003	9,45024	.25199	9 45325	.28396	9 45625	.23593	9.45924	.28790	1
37	. 14726	.28006	.45029	.24202	45330	.28339	45630	.24596	.45929	.28793	L
3.5	.44731	.28010	45034	.28206	-45335	.28102	45635	.28599	.45934	.28797	ŀ
39	. 14736	.28013	45039	.27209	. 45340	.25196	.45540	.28603	.45939	.28800	Ŀ
- 10'	9.44741	.28016	9.45044	.28212	9,15345	.25109	9 45645	.28606	9 45944	.28503	L
41	14746	.28019	.45049	.28216	.45350	.28412	45650	.28609	.45949	.28807	L
47	44751	.28023	.45054	.28219	45355	.28415	45655	.28612	.45954	.28810	L
-33	44756	.25026	.45059	.28222	_45360	.28119	_45600	.28616	45959	.28813	ŀ
	9 14761	.25929	9,45064	.28225	9 45365	.28422	9 45665	.28619	9.45964	.28816	ŀ
1.5	14766	.28032	.45069	.28229	.45370	.28425	-15670	.28623	.45969	.28820	
46 17	11771	.28036	.45074 .45079	.28235	.45375 .45380	.28429	.45675	.28629	.45974 .45979	.28536	L
- 1				.28238				.28632		.28830	l
+ 12' 49	9 44781	.28012	9,45084	.28242	9.45385 .45390	.28435	9.45685	.28635	$9.45984 \\45989$	.28833	L
50	,14791	.28019	.45094	.28245	45395	.28142	.45695	.28639	45994	.28836	ı
51	11796	.28052	45099	.28248	45400	.28445	.45700	.28642	45999	.28839	l
- 13° I	9 14801	.28055	9.45104	.28252	9.45405	.28148	9.45705	.28645	9.46004	.28843	ŀ
.1.8	44807	.28059	.45109	.29255	.45410	.28451	.45710	.25649	.46009	.28846	L
57	11812	.38063	.45114	.28258	.45415	.28455	. 157 15	.28652	46014	.28819	L
55	11817	.28065	.45119	.28261	.45420	.28158	45720	.28655	.46019	.28853	L
+ 11'	9 11822	.25065	9,45124	.28265	9,45426	.28461	9 45725	.29659	9.46023	.28856	ľ
57	.44827	.28072	.45129	.28268	.45431	.28465	.45730	.28662	.46028	.28859	۱
.58	44832	.28075	.45134	.28271	. 15436	.28168	.45735	.28665	.46033	.28863	1
59	11537	.38078	45139	.28274	.45441	28471	.45740	.28668	.46038	.28866	1_
+ 15	9 44542	.24051	9 45144	.28278	9.45146	.28174	9.45745	.24672	9.46043	.24569	1
10											

$\Gamma A$	BI	Œ	45.
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[Page 863

	4h 20m 65° 0'		4h 21m 65° 15'		4h 22m 65° 30'		4h 23m 65° 45'		4h 24m 66° 0'		
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	9
. 0	9.46043	.28869	9.46340	.29067	9.46635	.29265	9.46929	.29464	9.47222	.29663	60
2	.46048	.28872	.46345 .46350	.29070	.46640 .46645	.29269	.46934	.29467 .29471	.47227	.29666 .29670	59 58
3	.46058	.25879	.46355	.29077	.46650	.29275	.46944	.29474	.47236	.29673	57
+ 1'	9.46063	.28882	9.46360	.29050	9.46655	.29279	9.46949	.29477	9.47241	.29676	56
5	.46068	.28886	.46365	.29084	.46660	.29282	.46954	.29481	.47246	.29680	55
6 7	.46073 .46078	.28889 .28892	.46370 .46375	.29087 .29090	.46665 $.46670$	.29285	.46959 .46963	.29484	.47251 .47256	.29683 .29686	54 53
+ 2'	9.46083	.25895	9.46380	.29093	9.46675	-29292	9.46968	29491	9.47261	29690	52
9	.46088	.28899	.46384	.29097	.46680	.29295	.46973	.29494	.47266	.29693	51
10	.46093	.28902 .28905	.46389	.29100 .29103	.46684	.29398	.46978 .46983	.29497	.47270	.29696 .29700	50
$\frac{-11}{+3'}$	9.46103	.28909	9.46399	29107	9,46694	.29305	9.46988	.29501	$\frac{.47275}{9.47280}$	.29703	49
13	.46108	.28912	.46404	.29110	.46699	.29308	.46993	.29507	.47285	.29706	47
14	.46113	.28915	.46409	.29113	.46704	.29312	.46998	.29510	.47290	.29710	46
15	.46118	.28918	.46414	.29117	.46709	.29315	.47003	.29514	.47295	.29713	45
+ 4'	9.46123 .46128	.28922	9.46419 $.46424$	.29120 .29123	$9.46714 \\ .46719$	.29318	9.47007 .47012	.29517	9.47300	.29716	44 43
18	.46132	28928	.46429	.29126	.46724	.29325	.47017	.29524	.47309	.29723	12
19	.46137	.28932	.46434	.29130	.46729	.29328	.47022	.29527	.47314	.29726	41
+ 5'	9.46142	.28935	9.46439	.29133	9.46733	.29332	9.47027	.29530	9.47319	.29730	40
21 22	.46147 .46152	.28938 .28942	.46444	.29136 .29140	.46738 .46743	.29335	.47032 .47037	.29534 .29537	.47324 .47329	.29733	39 38
23	.46157	.28945	.46453	.29143	.46748	.29341	.47042	.29510	.47323	.29740	37
+ 6'	9.46162	.28948	9.46458	.29146	9.46753	.29345	9.47046	.29544	9.47338	.29743	36
25	.46167	.28952	.46463	.29150	.46758	.29348	.47051	.29547	.47343	.29746	35
26 27	.46172 .46177	.28955 .28958	.46468	.29153 .29156	.46763 .46768	.29351 .29355	.47056 .47061	.29550 .29554	.47348 .47353	.29750 .29753	34
+ 7'	9.46182	.28961	9.46478	.29160	9.46773	.29358	9,47066	,29557	9.47358	.29756	32
29	.46187	.28965	.46483	.29163	.46778	.29361	.47071	.29560	.47363	.29760	31
30	.46192	.28968	.46488	.29166	.46782	.29365	.47076	.29564	.47367	.29763	30
$\frac{31}{+8'}$	$\frac{.46197}{9.46202}$	$\frac{.28971}{.28975}$	9.46498	.29169	$\frac{.46787}{9.46792}$	29368 29371	.47081 9.47085	.29567	.47372 9.47377	.29766	29
+ 33	.46207	.28978	.46503	.29176	,46797	.29375	.47090	.29573	.47382	.29773	27
34	.46212	.28981	.46508	.29179	.46802	.29378	.47095	.29577	.47387	.29776	26
35	.46217	.28985	.46512	.29183	.46807	.29381	.47100	.29580	.47392	.29779	25
+ 9'	9.46222	.28988 .28991	9.46517 .46522	.29186 .29189	9.46812	.29385 .29388	9.47105 .47110	.29583 .29587	9.47397 .47401	.29783 .29786	24
38	.46231	.28994	.46527	.29193	.46822	.29391	.47115	.29590	.47406	.29789	22
39	.46236	.28998	.46532	.29196	.46827	.29394	.47120	.29593	.47411	.29793	21
+ 10′	9.46241	.29001	9.46537	.29199	9.46831	.29398	9,47124	.29597 .29600	9.47416	.29796	20 19
41 42	.46246 .46251	.29004	.46542	.29202	.46836 .46841	.29404	.47129 .47134	.29603	.47421 .47426	.29803	18
43	.46256	.29011	.46552	.29209	.46846	.29408	.47139	.29607	.47431	.29806	17
+ 11'	9.46261	.29014	9.46557	.29212	9.46851	.29411	9.47144	.29610	9.47435	.29809	16
45	.46266	.29017 .29021	.46562 .46567	.29216 .29219	.46856 .46861	.29414	.47149 .47154	.29613	.47440	.29813 .29816	15 14
46 47	.46271	.29021	.46571	.29222	.46866	.29421	.47159	.29620	.47450	.29819	13
+ 12'	9.46281	.29027	9.46576	.29226	9,46871	.29424	9.47163	.29623	9.47455	.29823	12
49	.46286	.29031	.46581	.29229	.46875	.29428	.47168	.29627	.47460	.29826	11
50 51	.46291 .46296	.29034	.46586 .46591	.29232	.46880 .46885	.29131	.47173 .47178	.29630	.47464 .47469	.29839	10
$\frac{31}{+13'}$	9.46301	.29037	9.46596	.29239	9.46890	.29438	9.47183	.29637	9.47474	.29836	8
53	.46305	.29044	.46601	.29242	.46895	.29441	.47188	.29640	.47479	.29839	~
54	.46310	.29047	.46606	.29245	.46900	.29444	.47193	.29643	.47484 .47489	.29843	6 5
+ 11'	.46315 9.46320	.29051	$\frac{.46611}{9.46616}$	.29249	$\frac{.46905}{9.46910}$	.29447	$\frac{.47197}{9.47202}$	.29647	9.47493	.29849	-4
+ 14'	.46325	.29054	.46621	.29255	.46915	.29454	.47207	.29653	.47498	.29853	3
58	.46330	.29060	.46626	.29259	.46919	.29457	.47212	.29657	.47503	.29856	2
59	.46335	.29064	.46630	.29262	.46924	.29461	.47217	.29660	9.47513	.29859	$\frac{1}{a}$
+ 15'	9.46340	.29067	9.46635	.29265	9.46929	.29464	9.47222	.29663			ľ
	19h	39m	19h	38m	19h	37 m	· 19h	36m	19h	35m	

					Haversii	164.					
	4h 25m 60	6 45'	41. 1,1	66° 30′	4h 27m	66 45	$4h \ zsm$	67° 0′	4h 29m	67 15′	
S	Log. Hav. N	tar. 1771	Los Hay.	Nat. Hav	Log. Hav.	Nat. 15	Lor. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
	4, 7513	.29 563	9.47803	.30063	9,4509E	.39263	9.45078	.30163	9.48664	.30664	6
1	.47518 .77523	.29866 .29869	.47807 .47812	.30066	.45096 .45101	.30266	.48383 .48387	.30467 .30470	.48668 .48673	.30668	5.
	14757	.29873	.47817	.30073	.48105	.30273	.48392	.30473	.48678	.30675	5
+ 1		.29876	9.47822	.30076	9.48110	.30276	9.48597	.30477	9.48683	.30678	1
5	. 175437 . 17543 ;	.29879 .29883	.47827 .47831	.30079 .30083	.48115 .48120	.30250	.48402	.30150	.48687 .48692	.30681 .30685	5
~	17517	.29556	.47836	.30056	.48124	.30286	.48411	.30487	.48697	.30658	3
$+$ $2^{7}$	9.17552	.29889	9.47841	.30089	9.45129	.39290		.30490	9.48702	.30691	L
10	. ii 556 .47561	.29593 .29596	.47846 $.47851$	.30093	.48134	.30293	.48421 .48426	.30491	.48706	.30695 .30698	Ľ
17		.29599	.47856	.30099	.48139	.30300	.48420	.30500	.48716	.30701	Ľ
+ 3'		.29903	9.47860	.30103	9.48148	.30303	9.48455	.30504	9.48720	.30705	17
1.3	.47576	.29906	.47865	.30106	.48153	.30306	.48-4-10	.30507	.48725 .48730	.30708	ŀ
14 15	.47581 .47585	.29909 .29913	.47870 .47875	.30103	.48158 .48163	.30310	.48445 .48149	.30510	.48735	.30715	l
+ 4	9.47590	.29916	9.47880	.30116	9.48165	.30316	9,45451	.30517	9.48739	.30718	T
17		.29919	.47884	.30119	.48172	.30320	.48459	.30520	.48744	.30721	ŀ
18 19		.29923 .29926	.47894 .47894	.30123	.48177	.30323	.48464 .48468	.30524	.48749 .48754	.30725	L
+ 5		.29929	9,47899	30129	9.45187	.30330	9.45413	.30530	9.18758	.30732	ŀ
21	,17614	.29933	.47904	.30133	.48192	.30333	.48478	.30531	.48763	.30735	ŀ
22	.47619 .47624	.29935 .29939	.47908 .47943	.30136 .30139	.48196	.30336	.48483 .48488	.30537 .30510	.48768	.30738	Ŀ
+ 6		.29943	9.47918	.30143	9.48206	.30343		.30514	9.48777	.30745	E
25	.47634	.29946	.47923	.30146	.48211	.30346	.48497	.30517	.48782	.30748	ŀ
26 27		.29949	.47928 .47933	.30149	.48215 .48220	.30350 .30353	.48502 .48507	.30551	.48787 .48792	.30752 .30755	L
+ 7	9.47648	.29956	9.47937	.30156	9.48225	.30356	9.48511	.30557	9.48796	30758	F
29	.17653	.29959	.47942	.30159	.48230	.30360	.48516	.30561	.48801	.30762	L
30 31	.47658 .47663	.29963 .29966	.47947 .47952	.30163 .30166	.48235 .48239	.30363 .30366	.48521	.30564	.48806 $.48811$	.30765	Ľ
$\frac{31}{+8'}$		.29969	9.47957	-30169	9,48244	.30370	9,48530	.30571	9.48815	.30772	l
33	. 17672	.29973	.47961	.30173	.48249	.30373	.48535	.30574	.48520	.30775	L
34	.47677	.29976	.47966	.30176	.48254	.30376 .30380	.48540	.30577	.48825 .48830	.30779	l
35 + 9'	$\frac{-47682}{947687}$ $-$	.29979	$\frac{.47971}{9.47976}$	.30153	$\frac{.48258}{9.48263}$	.30383	9,48549	.30584	9.48834	.30785	ŀ
37	.47692	.29956	.47981	.30186	.48268	.30386	.48554	.30587	.48839	.30789	L
38		.29989	.47985	.30159	.48273	.30390	.48559 $.48564$	.30591	.48844	.30792	ı
_39 ∓ 10 −	9.17706	.29993	$\frac{.47990}{9.47995}$	30193 30196	$\frac{.48278}{9.48282}$	.30393	9.48568	.30597	9.48853	.30799	ŀ
41	.47711	.29999	.48000	.30199	.48287	.30400	.48573	.30601	.48858	.30802	1
42	.17716	.30003	.48005	.30293	.48292	.30403	.48578	.30604	.48863	.30805	l
± 11 ⁷	.47721 9.47725	.30006	$\frac{.48009}{9.48014}$	.30206	48297 9.48302	30407 30410	$\frac{.48583}{9.48587}$	.30607	$\frac{.48867}{9.48872}$	.30809	ŀ
-45	.47730	.30013	.48019	.30213	48306	.30113	.48592	.30614	.48877	.30815	ı
46		.30016	.48024	.30216	.48311	.30417	.48597	.30618	.18882	.30819	L
47 + 12	.47740 9.47745	.30019	.18029	.30219	.48316 9.48321	.30120	$\frac{.18602}{9.18607}$	.30621	.48886	30522	-
39	. 17750	.30926	.48038	.30226	. 18325	30127	.48611	.30628	.48896	.30829	L
50	.47754	.30039	. 18043	.30229	.48330	.30430	.48616	.30631	.48901	.30833	ı
57	9,17764	.30033	18048_ 9_48053	.30233	.48335 9.48340	.30133	48621 9.48626	.30634	9.48910	39836 30849	Į-
+ 43′ 53	. 17769	.30030	, 18057	.30239	,15311	.30440	48630	.30641	.48915	.30812	
54	. 17771	.30043	.48062	.30243	.48349	.30113	. 18635	.30614	48919	.39816	1
5.5	17778	.30016	. 18067 9 48072	.30246	,48354 0.48350	.30447	9.48645	.30643	9.48924	.30519	1-
$+\frac{14}{57}$	9.47783 = 47788	.30049	18077	.30249	9,45359 .45364	.30450	. 18649	,30655	, 48934	.305.56	ı
38	.47793	.30056	18081	.30256	.48368	.30157	.48654	.30658	.48938	.30559	1
.59	17798	.30059	45056	.30259	15373	.30460	48659	30361	.48943	.30563	-
+ 15	9 1,803	.30064	9,45091	.30263	9 18378	.30463	9.45664	.30661	9,48945	.30566	1

	4h 30m	67° 30′	4h SIM	67° 45′	4h S2m	68° 0′	4h gsm	68° 15′	4h S4m	68° 30′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	s
0	9.48948	.30866	9.49231	.31068	9.49512	.31270	9.49793	.31472	9.50072	.31675	60
1	.48953 .48957	.30869 .30873	.49235	.31071 .31074	.49517 .49522	.31273	.49797 .49802	.31475	.50076 .50081	.31678 .31682	59
3	.48962	.30876	.49245	.31078	.49526	.31280	.49802	.31482	.50085	.31685	58 57
+ 1'	9,48967	.30579	9.49250	.31081	9.49531	.31253	9.49811	.31486	9,50090	.31688	56
5	.48971	.30883	.49254	.31084	.49536	.31287	.49816	.31489	.50095	.31692	55
6 7	.48976	.30886 .30889	.49259 .49264	.31088 .31091	.49540 .49545	.31290 .31293	.49821 .49825	.31492	.50099 .50104	.31695 .31699	54
+ 2'	9.48956	.30593	9,49268	.31095	9,49550	.31297	9.49530	.31499	9,50103	.31702	53 53
9	.48990	.30896	.49273	.31098	.49554	.31300	.49835	.31503	.50113	.31705	51
10	.48995	.30899	.49278	.31101	.49559	.31303	.49839	.31506	.50118	.31709	50
$\frac{-11}{+3'}$	9,49004	.39303	.49282	.31105	.49564	.31307	,49844	.31509	.50123	.31712	49
$+ \frac{3'}{13}$	.49009	.30906 .30910	9.49287 .49292	.31108 .31111	9.49568 .49573	.31310 .31314	9.49849 .49853	.31513 .31516	$9.50127 \\ .50132$	.31716 .31719	48 47
14	.49014	.30913	.49297	.31115	.49578	.31317	.49858	.31519	.50136	.31722	46
15	.49019	.30916	.49301	.31118	.49583	.31320	.49862	.31593	.50141	.31726	45
+ 4	9.49023	.30920	9.49306	.31121	9.49587	.31334	9.49867	.31526	9.50146	.31729	44
17 18	.49028	.30923	.49311 .49315	.31125 .31128	.49592 .49597	.31327 .31330	.49872 $.49876$	.31530 .31533	.50150 .50155	.31732	43 42
19	.49038	.30939	.49320	.31132	.49601	.31334	.49881	.31536	.50160	.31739	41
+ 5'	9.49042	.30933	9.49325	.31135	9.49606	.31337	9.49886	.31540	9.50164	.31742	40
21	.49047	.30936	.49329	.31138	.49611	.31341	.49890	.31543	.50169	.31746	39
22 23	.49052 .49056	.30940 .30943	.49334 .49339	.31142 .31145	.49615 .49620	.31344	.49895 .49900	.31546	.50174 .50178	.31749 .31753	38 37
+ 6'	9.49061	.30946	9.49344	.31148	9,49625	.31351	9,49904	.31553	9,50183	.31756	36
25	.49066	.30950	.49348	.31152	.49629	.31354	.49909	.31557	.50187	.31760	35
26	.49071	.30953	.49353	.31155	.49634	.31357	.49914	.31560	.50192	.31763	34
27	.49075	.30957	.49358	.31158	.49639	.31361	.49918	.31563	.50197	.31766	33
+ 29	9.49080 .49085	.30960 .30963	9.49362 .49367	.31162 .31165	9.49643 .49648	.31364 .31367	9.49923 .49928	.31567 .31570	9.50201 .50206	.31770	32 31
30	.49089	.30967	.49372	.31169	.49653	.31371	.49932	.31573	.50211	.31776	30
31	.49094	.30970	.49376	.31172	.49657	.31374	.49937	.31577	.50215	.31780	29
+ 8'	9.49099	.30973	9.49381	.31175	9.49662	.31378	9.49942	.31580	9.50220	.31783	28
33 34	.49104 .49108	.30977 .30980	.49386 .49390	.31179 .31182	.49667 .49671	.31381 .31384	.49946 .49951	.31584 .31587	.50224 .50229	.31787 .31790	27 26
35	.49113	.30983	.49395	.31185	.49676	.31388	.49956	.31590	.50234	.31793	25
+ 9'	9.49118	.30987	9.49400	.31189	9.49681	.31391	9.49960	.31594	9.50238	.31797	24
37	.49122	.30990	.49405	.31192	.49685	.31394	.49965	.31597	.50243	.31800	23
38 35	.49127 .49132	.30994 .30997	.49409 .49414	*.31196 .31199	.49690 .49695	.31398 .31401	.49969 .49974	.31601 .31604	.50248 .50252	.31804 .31807	22
+ 10'	9.49137	.31000	9.49419	.31202	9.49699	.31405	9.49979	.31607	9.50257	.31810	20
41	.49141	.31004	.49423	.31206	.49704	.31408	.49983	.31611	.50261	.31814	19
42	.49146	.31007	.19428	.31209	.49709	.31411	.49988	.31614	.50266	.31817	18
43	.49151	.31010	.49433	.31212	.49713	.31415	.49993 9.49997	.31617	$\frac{.50271}{9.50275}$	.31820	17
+ 11' 45	9.49155 .49160	.31014 .31017	.49442	.31210	9.49718 .49723	.31421	50002	.31624	.50280	.31827	16 15
46	.49165	.31020	.49447	.31222	.49727	.31425	.50007	.31628	.50284	.31831	14
47	.49170	.31024	.49451	.31226	.49732	.31428	.50011	.31631	.50289	.31834	13
+ 12′	9.49174	.31027	9.49456	.31229	9.49737	.31432	9.50016	.31631	9.50294 .50298	.31837	12
49 50	.49179 .49184	.31031 .31034	.49461	.31233 .31236	.49741 .49746	.31435	.50021	.31638 .31641	.50298	.31841	11 10
51	.49188	.31037	.49470	.31239	.49751	.31442	.50030	.31644	.50308	.31848	9
+ 13'	9.49193	.31041	9.49475	.31243	9.49755	.31445	9.50034	.31648	9.50312	.31851	8
53	.49198	.31044	.49480	.31246	.49760	.31448	.50039	.31651 .31655	.50317 .50322	.31854	7
54 55	.49202 .49207	.31047 .31051	.49484	.31249	.49765 .49769	.31452	.50044	.31658	.50326	.31861	5
+ 14'	9,49212	.31054	9.49494	.31256	9.49774	.31459	9.50053	.31661	9.50331	.31565	4
57	.49217	.31057	.49498	.31260	.49779	.31162	.50058	.31665	.50335	.31568	3
58 59	.49221 .49226	.31061 .31064	.49503 .49508	.31263 .31266	.49783 .49788	.31465 .31469	.50062 .50067	.31669 .31670	.50340 .50345	.31571	1
+ 15'	9.49231	.31068	9.49512	.31270	9.49793	.31473	9.50072	.31675	9.50349	.31575	()
	19ħ			28m		27m		26m			
	19"	200	19"	~0""	13"	~1	13"	~0	1.,	~ · / · · ·	

Page 866]

## TABLE 45.

	4h 35m	68° 45′	4h 36m	69° 0′	4h 37m	69° 15′	4h 38m	69° 30′	4h 39m	69° 45′	L
8	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	-
0	9.50349	.31878	9.50626	.32082	9,50901	.32285	9.51174	.32490	9.51447	.32694	1
1	.50354	.31881	.50630	.32085	.50905	.32289	.51179	.32493	.51452	.32698	ŀ
2	.50358	.31885	.50635	.32088	.50910	.32292	.51184	.32496	.51456	.32701	١
3	.50363	31888	.50639	-33093	.50914	32296	.51188	32500	.51461	32704	
+ _1'	9.50368	.31892 .31895	9.50644 $.50649$	.33495	9.50919		9.51193	.32503	9.51465	.32708	
5 6	.50372	.31895	.50653	.32099	.50924 .50928	.32302	.51197 .51202	.32507 .32510	.51470	.32711	ı
7	.50382	.31902	.50658	.32165	.50933	.32369	.51206	.32513	.51479	.32718	
+ 2	9.50386	31905	9,50662	.32109	9.50937	32313	9.51211	32517	9.51483	32721	ı
9 ~	.50391	.31909	,50667	.32112	.50942	.32316	.51215	.32520	.51488	.32725	ı
10	.50395	.31912	.50672	.32116	,50946	.32319	.51220	.32524	.51492	.32728	
11	.50400	.31915	.50676	.32119	.50951	.32323	.51225	.32527	.51497	.32732	ı
+ 3'	9.50405	.31919	9.50681	.32122	9.50956	32326	9.51229	.32531	9.51501	.32735	ı
13	50409	.31922	50685	.32126	.50960	.32330	.51234	.32534	.51506	.32738	
14	.50414	.31926	.50690	.32129	.50965	.32333	.51238	.32537	.51510	.32742	
15	.50418	31929	.50694	.32133	.50969		.51243	.32541	.51515	32745	
+ _ 4′	9.50423	.31932	9.50699	.32136	9.50974	.32340	9.51247	.32544	9.51519	.32749	
17 18	.50428	.31936 .31939	.50701 .50708	.32139	.50978	.32313	.51252 .51256	.32547 .32551	.51524 .51529	.32752 .32756	
19	.50437	.31942	.50703	.32146	.50983		.51261	.32554	.51533	.32759	
+ 5'	9.50442	.31946	9.50717	.32150	9.50992		9.51265	.32558	9.51538	.32762	
21	,50446	.31919	.50722	.32153	.50997	.32357	.51270	.32561	.51542	.32766	
22	.50451	.31953	.50727	.32156	.51001	.32360	.51275	.32565	.51547	.32769	
23	.50455	.31956	.50731	.32160	.51006	.32364	.51279	.32568	.51551	.32773	
+ 6'	9.50160	.31959	9.50736	.32163	9.51010	.33367	9,51284	.32571	9.51556	.32776	
25	.50465	.31963	.50740	.32166	.51015	.32370	.51288	.32575	.51560	.32779	
26	.50469	.31966	.50745	.32170	.51019	.32374	.51293	.32578	51565	.32753	١
27	.50474	.31970	.50750	.32173	.51024	.32377	.51297	.32582	.51569	.32756	
+ 7	9.50478	.31973	9.50754	.32177	9.51029	.32381	9.51302	.32585	9.51574	.32790	
29	.50483	.31976	.50759	.32180	.51033	.32354	.51306	.32558	.51578	.32793	
30	.50488	.31980	.50763	.32183	.51038	.32358	.51311	.32592	.51583	.32797	
31	.50492	.31983	.50768	32187	.51042	.32391	.51315	32595	.51587	.32800	ı.
+ 8'	9.50497 .50501	.31987 .31996	9.50772	.32194	9.51047	.32394 .32398	9.51320	.32599	9.51592	.32803	
34	.50506	.31993	.50782	.32197	.51051 .51056	.32401	.51325	.32602	.51596 .51601	.32807 .32810	
35	.50511	.31997	.50786	.32200	.51061	.32405	.51334	.32609	.51605	.32914	
4 9/	9.50515	.32000	9.50791	-,32204	9.51065	.32408	9.51338	.32612	9.51610	.32817	
87	.50520	.32004	,50795	.32207	.51070	.32411	.51343	.32616	.51614	.32820	
38	.50524	.32007	50800	.32211	.51074	.32415	.51347	.32619	.51619	.32821	
39	.50529	.32010	.50805	.32214	,51079	.32418	.51352	.32623	.51623	.32527	ļ
+ 10'	9.50534	.32014	9.50509	.32217	9.51083	.33123	9.51356	.32626	9.51628	.32831	ľ
41	.50538	.32017	.50814	.32221	.51088	.32425	.51361	.33639	.51633	.32834	
42	.50543	.33031	-,50818	.32224	.51092	.32128	.51365	.32633	.51637	.32838	
4.9	.50547	.32024	,50823	*35558	.51097	.32432	.51370	.32636	_51642	.32841	
+ 11'	9.50552	.32027	9.50827	.32231	9.51102	.32135	9.51374	.32640	9.51646	.32844	
45	.50557	.32031	.50832	32235	.51106	.32438	.51379	.32643	.51651	.32848	
46	.50561 .50566	.32034	,50837	.32238	.51111 51115	.32442	.51384 .51388	.32616	.51655	.32851	
± 12'	9.50570						1				ŀ
+ 12'	.50575	.32011	9,50846	.32245	9 51120 51124	.32449 .32452	9.51393 .51397	.32653	9.51664 .51669	.32858 .32861	ı
50	,50580	.32048	,50855	.32251	51129	.32456	.51402	.32660	.51673	.32865	ı
51	50584	.32051	50860	.32255	51133	.32459	,51406	.32663	.51678	.32868	ı
+ 131	9.50589	.32054	9.50864	-32258	9.51138	.32462	9.51411	.32667	9.51682	.32572	ı
5.3	50593	.32058	.50869	32363	.51143	.32466	.51415	.32670	.51687	.32575	١
51	50598	.32061	.50573	.32265	.51147	.32469	.51420	.32674	.51691	.32578	1
5.5	50603	.32065	.50878	.32268	.51152	.32473	.51424	.32677	.51696	.32882	١
+ 11'	9.50607	.32068	9.508@2	.32272	9.51156	.32476	9.51429	.32681	9.51700	.32885	1
57	50612	.32071	,50887	.32275	.51161	.32479	.51433	.32681	.51705	.32559	ı
58	.50616	.32075	.50892	.32279	.51165	.32483	.51438	.32687	.51709	.32892	ı
59	50621	32078	.50896	.32585	.51170	.32486	.51442	.32691	.51714	.32896	L
+ 15	9-50626	.33085	9,50901	.32285	9 51174	.32490	9.51447	.32694	9,51718	.32599	ı

T	A	ΒĪ	Æ	4.5

[Page 867

<b></b> ,					Haversi	nes.					
	4h 40m	70° 0′	4h 41m	70° 15′	4h 42m	70° 30′	4h 43m	70° 45′	4h 44m	71° 0′	
S	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	S
0	9.51718	.32599	9.51988	.33104	9.52257	.33310	9.52525	.33515	9.52791	.33722	60
2	.51723	.32903	.51993 .51997	.33108	.52261 .52266	.33313	.52529 .52533	.33519	.52795 .52800	.33725	59 58
3	.51732	.32909	.52002	.33114	.52270	.33320	.52538	.33526	.52804	.33732	57
+ 1′	9.51736	.32913	9,52006	.33118	9.52275	.33323	9.52542	.33529	9.52809	.33735	56
5 6	.51741	.32916	.52011 .52015	.33121	.52279 .52284	.33327	.52547 .52551	.33533	.52813	.33739	55 54
7	.51750	.32923	.52020	.33128	.52288	.33334	.52556	.33540	.52822	.33746	53
+ 2'	9.51754	.32926	9.52024	.33132	9.52293	.33337	9.52560	.33513	9.52826	.33749	52
9 10	.51759	.32930	.52029 .52033	.33135	.52297 .52302	.33341	.52565 .52569	.33546	.52831 .52835	.33753 .33756	51 50
11	.51768	.32937	.52038	.33142	.52306	.33347	.52573	.33553	.52839	.33759	49
+ 3′	9.51772	.32940	9.52042	.33145	9.52311	.33351	9.52578	.33557	9.52844	.33763	48
13 14	.51777	.32943	.52047 .52051	.33149	.52315 .52320	.33354	.52582	.33560	.52848 .52853	.33766	47 46
15	.51786	.32950	.52056	.33156	.52324	.33361	.52591	.33567	.52857	.33773	45
+ 4'	9.51790	.32954	9.52060	.33159	9.52328	.33365	9.52596	.33570	9.52862	.33777	44
17 18	.51795 .51799	.32957	.52065	.33162	.52333 .52337	.33368	.52600	.33574	.52866 .52870	.33780 .33783	43 42
19	.51804	.32964	.52074	.33169	.52342	.33375	.52609	.33581	.52875	.33787	41
+ 5′	9.51808	.32967	9.52078	.33173	9.52346	.33378	9.52613	.33584	9.52879	.33790	40 39
21 22	.51813	.32971	.52082 .52087	.33176	.52351 .52355	.33382	.52618 .52622	.33588	.52884 .52888	.33794	38
23	.51822	.32978	.52091	.33183	.52360	.33389	.52627	.33594	.52893	.33801	37
+ 6"	9.51826	.32981	9.52096	.33186	9.52364	.33392	9.52631	.33598	9.52897	.33804	36
25 26	.51831 .51835	.32984	.52100	.33190	.52369	.33395	.52636 .52640	.33601	,52901 ,52906	.33808	35 34
27	.51840	.32991	.52109	.33197	.52378	.33402	.52645	.33608	.52910	33814	33
+ 7′	9.51844	.32995	9.52114	.33200	9,52382	.33406	9.52649	.33612	9.52915 .52919	.33818	32 31
29 30	.51849	.32998	.52118	.33203	.52386	.33409	.52653 .52658	.33615 .33618	.52919	.33825	30
31	.51858	.33005	.52127	.33210	.52395	.33416	.52662	.33633	.52928	.33828	29
+ 8'	9.51862	.33008 .33012	9.52132 .52136	.33214	9.52400 .52404	.33419 .33423	9,52667 ,52671	.33625	9,52932 .52937	.33832	28 27
33 34	.51867	.33015	.52130	.33221	.52404	.33426	.52676	.33632	.52941	.33839	26
35	.51876	.33019	.52145	.33224	.52413	.33430	.52680	33636	.52946	.33842	25
+ 9	9.51880 .51885	.33022	9.52150	.33227	9.52418	.33433	9.52684 .52689	.33639	9.52950 .52954	.33845	24
38	.51889	.33029	.52159	.33231	.52427	.33440	.52693	.33646	.52959	.33852	23
39	.51894	33032	.52163	.33238	.52431	.33444	.52698	.33649	.52963	.33856	21
+ 10	9.51898 .51903	.33036	9.52168 .52172	.33241 .33245	9.52436 .52440	.33447	9.52702 .52707	.33653	9.52968 .52972	.33859 .33863	20 19
42	.51903	.33043	.52177	.33248	,52444	.33454	.52711	.33660	.52976	.33866	18
48	.51912	.33046	.52181	.33251	.52449	.33457	.52715	.33663	.52981	.33869	$\frac{17}{16}$
+ 11' 45	9.51916 .51921	.33049	9.52185 .52190	.33255	9.52453 .52458	.33461	9.52720 .52724	.33667	9,52985 .52990	.33873	15
46	.51925	.33056	.52194	.33262	.52462	.33467	.52729	.33673	.52994	.33880	14
47	.51930	.33060	.52199	.33265	.52467	.33471	.52733	.33677	.52999 9.53003	.33883	13
+ 12'	9.51934	.33063	9.52203	.33269	9.52471	.33474	9.52738 .52742	.33680	.53003	.33590	11
50	.51943	.33070	.52212	.33275	.52480	.33481	.52747	.33687	.53012	.33894	10
51	.51948	.33073	.52217	.33279	.52484	.33185	.52751	.33694	.53016 9.53021	.33897	$\frac{9}{8}$
+ 13'	9.51952 .51957	.33077	9.52221 ,52226	.33282 .33286	9,52489 ,52493	.33488 .33491	9.52755	.33698	.53025	.33904	7
54	.51961	.33084	.52230	.33289	.52498	.33495	.52764	.33701	,53029	.33907	6
55	.51966	.33087	,52235	.33293	.52502	.33498	.52769 9.52773	.33704	.53034 9.53038	.33911	$\frac{-5}{4}$
+ 14' 57	9.51970 .51975	.33090 .33094	9.52239 .52244	.33296	9.52507 .52511	.33503	.52778	.33711	.53043	.33918	3
58	.51979	.33097	.52248	.33303	.52516	.33509	.52782	.33715	.53047	.33921	2
59	.51984	.33101	.52253 9.52257	.33306	.52520 9.52525	.33512	$\frac{.52786}{9.52791}$	.33718	,53051 9,53056	.33925	$\frac{1}{0}$
+ 15′	9.51988	.33104				-					
	19h	19m	19h	18m	19h	17m	19h	16m	191	15m	<u> </u>

TABLE 45.

	4h 45m	71 ' 15'	4h 467111	71° 30′	4h 47m	71° 45′	4h 48m	72° 0′	4h 49m	72° 15'	1
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Has	s
U	9,53056	.33928	9.53320	,34135	9.53582	.34342	9,53844	.31549	9.54104	.34757	60
1	.55060	.33931	.53324	.34138	,53587	.34345	.53848	.31553	.54108	.34760	33
* 3	,53065 ,53069	.33935	.53328	.34142 .34145	.53591	.31319	.53852	.31556 .34560	.54113	.34764	5
+ 1	9.5307.1	.33942	9.53337	.31149	9.53600	.31356	9.53861	.34563	9.51121	31771	Ľ
T 5 .	.53075	.33945	.53342	.34152	,5,1604	.31359	.53865	.31566	.54126	.34774	1 3
6	,53082	.33949	.53346	.31155	.53609	.31363	.5.4870	.34570	.54130	.34778	3
ì	.5.3087	.33952	.53350	.34159	.53613	.31366	.53874	.34573	.54134	.34781	1.5
+ 37	9,5,8691	.33956	9,53355	.31162	9.53617	.31369	9,53879	.34577	9.54139	.31784	17
9	3096	.33959	,53359	.34166	.53622	.34373	,53883	.34580	.51143	.34788	H
10	.53100 .53104	.33962	.53364	.34169	.53626	.31376	.53887	.34554	.54147	.34791	Ľ
11		.33966	.53368	31173	.53630	.34350	53892	.34587	.54152	.34795	
+ 3	9,53109	.33969	9.53372 .53377	.34176	9.53635 .53639	.34353	9,53896 ,53900	.34594	9,54156 ,54160	.34798	
1.7	23118	.33976	.53381	.34183	.53643	.31390	,53905	.34598	.54165	.34805	
15	.53122	.33980	.53385	.34186	.53648	.34394	53909	.34601	.54169	.34509	П
4	9.53126	.33983	9.53390	.34190	9.53652	.34397	9,53913	.34604	9,54173	34812	
17	.53131	.33986	,53394	.34193	.53657	.34100	,53918	.34608	.54177	.34816	
18	.53135	.33990	.53399	.34197	.53661	.34104	.53922	.34611	54182	.34819	ŀ
19	.53140	.33993	.53403	.34200	.53665	.31407	.53926	.34615	.54186	.34823	Ŀ
5′	9.53144	.33997	9.53407	.34204	3653670	.31411	9,53931	.34618	9.54190	.34826	
21	.53148	.34000	.53412	.31207	.53674	.34414	.53935	.34622	.54195	.34830	ŀ
22	.53153	.34004	.53416	.31211	.53678	.34418	.53939	.34625	.54199	.34533	
28	.53157 9.53162	.34007	.53421	34214	.53683	34121	.53944	34629	.54203	.34836	ŀ
+ 6′ 25	.53166	.31011	9.53425 .53429	.31218	9,53687 ,53691	.31425	9.53948 .53952	.34632 .34636	54212	.34843	
20	,53170	.34018	.53434	.31224	,53696	.3443?	.53957	.31639	.54216	.34547	1
27	.53175	.34031	.53438	.34228	.53700	.34435	,53961	.34643	.54221	.34850	ı
+ 7'	9.53170	.34024	9.53442	.31231	9.53704	.34 439	9.53966	-34646	9.54225	.34554	1
29	.53184	.34028	.53447	.34235	.53709	.31142	.53970	.34649	.54229	.34857	L
30	.53188	.34031	.53451	.34238	.53713	.34445	.53974	.34653	.54234	.34861	L
SI	.53192	.34035	.53456	.34242	.53718	.31119	.53978	.31656	.54238	.34564	L
+ 8	9.53197	.34038	9.53460	.34245	9.53722	.34452		.34660	9.54242	.34868	
33	.53201	.34042	.53464	.31249	.53726	.31456	.53987	.34663	.54247	.34871	l
34 35	.53206 .53210	.34045	.53469	.34252	.5373 <b>1</b> .53735	.34459	.53991 .53996	.31667	.54251 .54255	.34875 .34878	
9	9.53214	.34052	9,53477	.34259	9.53739	.34166		.34674	9,54260	.34882	
5.87	.53219	.34055	.53482	.34262	.53744	.34470	.54004	.34677	.54264	.34885	
58	.53223	.34059	.53186	.34266	.53748	.31473	.54009	.34681	.54268	.34888	
39	.53228	.34062	.53491	.34269	53752	.31477	,54013	.31684	.54272	.34892	L
+ 10	9,53232	.34966	9,53495	.34273	$\overline{9}.53757$	.34180		.31688	9.54277	.34895	
41	.53236	.31069	.53499	.31276	.537.61	.34483	,54022	.34691	.54281	.34899	
44	.53241	.31073	.53504	.31280	.53765	.31487	.54026	.34694	.54285	.34902	
45	.53245	.31076	.53508	.34283	-53770	.31490	.54030	34698	54290	34906	
<u>+ ,11 ;</u>	9,53249	.31080	9,53512	.34257	9,53774 ,53778	.31494	9,54035 ,54039	.34701	9.54294 .54298	.31909	
46	.53258	.31083	.53517 .53521	.34293	153783	.31501	.54043	.34708	.54303	.34916	
17	53263	.31090	,53526	.31297	.58787	.31504	.54048	.34712	.54307	.31920	
- 13	9,53267	.31093	9 53530	.34300	9.53792	.31508	9.54052	.31715	9.54311	.31923	
19	.53271	.31097	,53531	.31304	73796	.31511	,54056	.34719	.54316	.31927	ı
30	.53276	.31160	,53539	.31307	5.1800	.31515	.54061	.34722	.54320	.34930	L
1	54280	.31101	.53543	.31311	3505	.31518	.54065	.31726	.54324	.31933	1
i- 13	96/3285	.31107	10,53547	.31314	9,7509	.31521	9,54069	.31729	9,54329	.31937	Г
	16280	.31111	.53552	.31315	5.4813	.31525	.54074	.34733	.51333	.34940	1
***	7,3293 - 3298	31111	.53556	.31324	.73818 .6822	311508	.54078 .54082	.31736	,54337 ,54341	.34944	1
1.7		.31118	.53560	.31325	9 3826	.34532		.31739	)		1-
- 11	9 7.02	.34121	9.58565	.31325	9 3826	.31535	9 4087	.31743	9 54346 ,54350	.34954	
,	1.661	311128	5,557.4	.31335	- d835	.34542	5 1095	.31740	54851	,31955	1
		.31131	3578	.31335	53839	.31546	.54100	.31753	.54359	.31961	i
	0.0										
. 15	9 6.20									.34965	1
. (5)		.31135	9 6.82		9, 41-14	,31519	9.54101		9.54.563 19h	,34965	-

í	1				,				,		1
	4h 50m	72° 30′	4h 51m	72° 45′	4h 5.m	73° 0′	4h 5.3m	73° 15′	4h 5.7m	73, 39,	
s	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat, Hav	Log. Hav.	Nat. Hav.	Log. linv.	Nat. Hav.	s
0	9.54363	.34965	9.54621	.35173	9.54878	.35381	9.55133	.35590	9.55387	.35799	60
1	.54367	.34968	.54625	.35176	.54882	.35385	.55137	.35594	.55392	.35803	59
3	.54372	.34972	.54629	.35180	.54886	.35388	.55142	.35597	.55396	.35806	58
3	.54376	.34975	.54634	.35183	.54890	.35392	.55146	.35801	.55400	.35810	57_
+ 1'	9.54380	.34979	9,54638	.35187	9.54895	.35395	9.55150	.35604	9.55404	.35813	56
6	.54385 .54389	.34982	.54642 .54647	.35190 .35194	.54899 .54903	.35399	,55154 ,55159	.35608 .35611	.55409	.35817 .35820	55
7	.54393	.34989	.54651	.35197	.54907	.35406	,55163	.35615	.55417	.35824	53
+ ?	9.54397	.34992	9.54655	35201	$9.5491\overline{2}$	.35409	9.55167	.35618	9.55421	.35827	52
9	.54402	.34996	.54659	.35204	.54916	.35413	.55171	.35622	.55425	.35831	51
10	.54406	.34999	.54664	.35208	.54920	.35416	.55176	.35625	.55430	.35831	50
	.54410	.35903	.54668	.35211	.54924	.35420	.55180	.35628	.55434	.35838	49
+ 3'	9.54415	.35006	9.54672	.35?15	9.54929	.35423	9.55184	.35632	9.55438	.35841	48
13	.54419	.35010	.54677	.35218	.54933	.35427	.55188	.35635	.55442	.35845	47
14 15	.54423	.35013	.54681	.35222	.54937 .54942	.35439	.55192	.35639 .35642	.55447 .55451	.35848	46 45
+ 1'	9.54432	.35020	9.54689	.35228	9.54946	.35437	9.55201	35616	9.55455	.35855	44
717	.54436	.35024	.54694	.35232	.54950	.35411	.55201	.35649	,55459	.35859	43
18	.54440	.35027	.54698	.35235	.54954	.35141	.55209	.35653	.55463	.35862	42
19	.54445	.35031	.54702	.35239	.54959	.35448	.55214	.35656	.55468	.35865	41
+ 5'	9.54449	.35034	9.54707	.35242	9.54963	.35451	9.55218	.35660	9.55472	.35869	40
21	.54453	.35038	.54711	.35246	.54967	.35454	.55222	.35663	.55476	.35872	39
22 23	.54458 .54462	.35041	.54715 .54719	.35249 .35253	.54971 .54976	.35458	.55226 .55231	.35667 .35670	.55480 .55485	.35876 .35879	38 37
+ 6'	9.54466	.35048	9.54724	.35256	9.54980	.35465	9.55235	.35674	9.55489	.35883	36
25	.54471	.35051	.54728	.35260	.54984	.35468	.55239	.35677	.55493	.35886	35
26	.54475	.35055	.54732	.35263	.54988	.35472	.55243	.35681	.55497	.35890	34
27	.54479	.35058	.54736	.35267	.54993	.35475	.55248	.35684	.55501	.35893	33
+ 7	9.54483	.35062	9.54741	.35270	9.54997	.35479	9.55252	.35688	9.55506	.35897	32
29	.54488	.35065	.54745	.35274	.55001	.35482	.55256	.35691	.55510	.35900	31
30 31	.54492 .54496	.35069 .35072	.54749 .54754	.35277	.55005 .55010	.35486 .35489	.55260 .55265	.35695 .35698	.55514	.35904 .35907	30 29
+ 8'	9.54501	.35076	9.54758	.35284	9.55014	.35493	9.55269	.35702	9.55523	.35911	28
33	.54505	.35079	.54762	.35288	.55014	.35496	.55273	.35705	.55527	.35914	27
34	.54509	.35983	.54766	.35291	.55022	.35500	.55277	.35709	.55531	.35918	26
35	.54514	.35086	.54771	.35294	.55027	.35503	.55282	.35712	.55535	.35921	25
+ 9'	9.54518		<del>0.</del> 54775	.35298	9.55031	.35507	9.55286	.35716	9.55539	.35925	24
37	.54522	.35093	.54779	.35301	.55035	.35510	.55290	.35719	.55544 .55548	.35928	23
<b>3</b> 8 <b>3</b> 9	.54526 .54531	.35097 .35100	.54784 .54788	.35305 .35308	.55039 .55044	.35514	.55294 .55298	.35723	.55552	.35935	21
+ 10'	9.54535	.35103	9.54792	.35312	9.55048	.35521	9.55303	.35730	9.55556	.35939	20
41	.54539	.35103	.54796	.35315	.55052	.35524	.55303	.35733	.55561	.35942	19
42	.54544	.35119	.54801	.35319	.55057	.35528	.55311	.35737	.55565	.35946	18
43	.54548	.35114	.54805	.35322	.55061	.35531	.55315	.35740	.55569	.35949	17
+ 11′	9.54552	.35117	9.54809	.35326	9.55065	.35534	9.55320	.35743	9.55573	.35953	16
45	.54556	.35121	.54813 .54818	.35329	.55069	.35538 .35541	.55324	.35747	.55577 .55582	.35956 .35960	15 14
46 47	.54561 .54565	.35124	.54822	.35336	.55074 .55078	.35545	.55332	.35754	.55586	.35963	13
+ 12'	9.54569	.35131	9,54826	.35340	$\frac{.55013}{9.55082}$	.35548	9.55337	.35757	9.55590	.35967	12
49	.54574	.35135	.54831	.35343	,55086	.35552	.55341	.35761	.55594	.35970	11
50	.54578	.35138	.54835	.35347	.55091	.35555	.55345	.35764	.55598	.35974	10
51	.54582	.35142	.54839	.35359	.55095	.35559	.55349	.35768	.55603	.35977	9
+ 13'	9.54587	.35145	9.54843	.35354	9.55099	.35562	9.55354	.35771	9.55607	.35981 .35981	8 7
53 54	.54591	.35149	.54848	.35357 .35361	.55103 .55108	.35566 .35569	.55358	.35775 .35778	.55611	.35988	6
55	.54595	.35152	.54856	.35364	.55108	.35573	,55366	.35782	.55620	.35991	5
+ 14'	9.54604	.35159	9.54860	.35368	9.55116	.35576	9.55370	.35785	9.55621	.35995	4
57	.54608	.35162	.54865	.35371	.55120	.35580	.55375	.35789	.55628	.35998	3
<b>5</b> 8	.54612	.35166	.54869	.35374	.55125	.35583	.55379	.35792	.55632	.36002	2
59	.54617	35169	.54973	35378	.55129	.35587	.55383	35796	.55636	-36005	0
+ 15'	9.54621	.35173	9.54878	.35381	9,55133	.35590	9,55387	.35799	9,55641	.36009	0
	143	912	1'		1.5	201	19h	6hl	19h	5m	
	1 "		1					-			1

TABLE 45.

	43 55m 73 145	4 <b>3</b> 5679	74° 0	ah 32m	74° 15°	30 5cm	74° 30'	43 59m	74 2 45	
	Log. Hav. Nat. Ha	v Log Hav	Nat. Hav.	Log. Hav	Nat. Hav.	tog. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	3_
()	9 55611 .3600		.36218	9.56144	.36428	9 56393	.36638	9.56642	.36-45	60
1	55645 .3601		.36222	.56148	.36431	56397	.36642	.56646	.36×5?	5.9
	55649 .3601 55653 .3601		.36225	56152 56156	.36435	56406	.36643	.56650	.36553	5.
+ 1	9 55657 ,3602		.36232	9.56160	.36442	9.56410	-,36652	9.56658	.36-62	36
T 3	V5662 .3602		.36236	56164	,36445	56414	.36656	.56663	.36 66	55
6	55666 .3603		.36239	56169	.36449	56418	.36659	.56667	.36×69	54
_ 1	55670 .3 <b>603</b>		.36243	56173	.36452	56422	.36663	56671	.36 73	33
+ 3	9 55674 3603		.36246	9,56177	.36456	9 564_6	.36666	9 56675	.36577	50
10	55678 .3604 55683 .3604		.36250	56185	.36459	56435	.36673	.56659	.36>>1	51 30
11	35687 .3604		.36257	5(189)	.36466	56439	.36677	56687	.36	4.9
+ 3	9.55691 .3605		.36260	9.56194	.36170	9 56443	.36680	9.56692	.36891	48
14	55695 .3 <b>605</b>		.36264	56198	.36473	36447	.36684	56696	.36594	47
1.5	55699 <b>.3605</b> 55704 <b>.3606</b>		.36267	20000	.36477	56451 56456	.36691	.56700 56704	.36595	46
15	35704 <b>.3606</b> 9 55708 <b>.3606</b>		.36274	36206 - 9 56210 -	.36484	9.56460	.36694	9.56705	,36905	4.5
1:	35712 .3606		.36278	56214	.36457	36364	3669	.56712	.36905	44
18	55716 .3607		.36281	56219	.36491	56468	.36701	.56716	.36912	42
1.9	55721 .3607	5 55972	.3625	20,000	.36494		.36705	56720	.36915	41
⊸ 5	9 55725 2607		.36288	9.56227	.36495	9.56476	.36708	9 56725	.36919	40
21	3608 36733 3608		.36292	56231	.36501	56450	.36712	_56729 _56733	.36922	(1)
2.5	55733 .3608 55737 .3608		.36295	56235 56239	.36505	56459	.36719	.56737	.36926	55
- 6	9.35742   .3609		.36302	9 56244	.36512	9 56493	.36722	9.56741	.36933	56
2.5	55746 .3609		.36306	56248	36515	36497	.36726	,56745	.36936	35
26	35750 <b>3609</b>	9 56001	.36309	56252	.36519	56501	.36729	.56749	.36940	22
2.	55754 .3610		.36313	56256	.365??	5(5)5	.36733	.56753	.36943	22.
+ 1	9 55758 3610		.36316	9.56560	.36526	6 20206	.36736	9.56755	.36947	52
£9 £1	55763 <b>.3611</b> 55767 <b>.3611</b>		.36320	56264 56269	.36529	56514 56518	.36740	56762 56766	.36950	57
31	55771 .3611		.36327	56273	.36536	76522	.36747	56770	.36957	50
+ 8	9 55775 3613		.36330	9.56277	.36540	9 56526	.36750	9.56774	.36961	28
3.5	.55779 .3613		.36331	56281	.36543	56530	.36754	56778	.36964	0.7
3.4	.55784 .3612		.36337	56285	.36547	56534	.36757	.56782	.36965	26
- 3.5	55788 .3613		.36341	56289	.36551	56538	.36761	56786	.36971	25
+ 9'	9,55792 <b>.3613</b> .55796 <b>.3613</b>		.36344	9.56294	.36554	9.56543 56547	.36764	9 56791 56795	.36975	24
3.8	55800 .3614		.36351	56302	.36561	56551	.36771	56799	.36952	00
9.0	33805 3614		36353	56306	.36565	56555	.36773	56803	.36985	21
+ 10	9.33809   3614		.36354	9.563101	.36565	9.56559	.36778	9.56807	.36959	20
41	55813 .3613		.36362	56314	.36572	56563	.36782	56811	.36992	1.9
4.5	55817 .3613		.36365	56318	.36575	56567	.36783	56815	.36996	18
=3 11 ¹	.3613 9.33826 3616		.36368	9.56327	.36579	.56572 9.56576	.36792	.56819 9.56823	.37003	17
4.5	55830 .3616		.36376	56331	.36556	56580	36796	56828	.37006	15
46	55834 .3616		.36379	56335	.36559	56584	36799	56832	.37010	14
5"	55838 .3617	3 560×9	36352	56339	.36593	565.55	.36803	56836	.37013	13
→ 13°	9.55842 .3617		.36386	9 56343	.36596	9.56592	.36506	9.5(840)	.37017	12
424	55846 .3615		.36399	56344	.36600	56596	.36810	56844	.37020	11
57	7/8/1 .3618 7/8/5 .3618		.36393	56352 56356	.36603	56601 56605	.36513	56848 56852	.37024	10
+ 13	9 555 9 .3619		.36400	9.56360	.36610	9.56609	.36520	9 56856	.37031	-8
5,5	V5863 .3619		.36403	56364	.36611	56613	.36524	56861	.37034	3
5.6	5 567 .3619	7 56118	.36407	56368	.36617	56617	.36527	56865	.37035	6
.53	55872 .3620		.36410	26323	.36621	56621	.36531	56869	37041	5
J. 14	9 55876 .3626		.36414	9.56377	.36624	9.56625	.36×34	9 56873	.37043	4
5.5	55884 <b>,3621</b>		.36417	.56381 56385	.36631	.56630	.36535	56877 56891	.37049	3
59	35444 3621		.36424	56380	.36635	56638	.36545	56885	.37055	1
-→ 13	9 55893 .3621		.36428	9.56393	.36638	9.56642	.36545	9 56889	.37059	0
	_									
	750 h 374	754	578	794	1,448	194	1-0	194	, 17%	1

	5h 0m	75° 0'	5h 1m	75° 15′	5h em	75° 30′	5h gm	75° 45′	55 ,111	76'0	
S	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav	Nat. Hav	Log, Hav.	Nat. Hav	s
U	9.56889	.37059	9.57136	.37270	9.57381	.37481	9.57625	.37692	9,57865	.37904	60
1	.56893	.37063	.57140	.37273	.57385	.374%5	.57629	.37696	,57872	.37907	59
~	.56898	.37066	.57144	.37277	.57389	.374%	.57633	.37699	.57876	.37911	58
3	.56902	.37070	.57148	.37280	.57393	.37492	.57637	.37703	.57881	37914	57
+ 1	9.56906	.37073	9.57152	.37284	9.57397	.37495	9.57642	.37706	9,57885	.37918	36
.5	.56910	.37077	.57156	.37287	.57402	.37499	.57646	.37710	.57889	.37922	55
ei .	.56914	.37080	.57160	.37291	.57406	.37502	.57650	.37713	.57893	.37925	54
7	.56918	.37084	.57165	37295	.57410	.37506	_,57654	.37717	.57897	.37929	3.
+ 3	9.56922	.37087	9.57169	.37298	9.57414	.37509	9.57658	.37721	9.57901	.37932	52
10	.56926 .56931	.37091	.57173	.37302	.57418	.37513	.57662	.37724	.57905	.37936	51
11	.56935	.37098	.57181	.37305	.57422	.37516	.57666 .57670	.37731	.57909 .57913	.37913	49
+ 3	9.56939	37101	9.57185	-37313	9 57430	-37523	9.57674	37735	9.57917	.37946	
13	.56943	.37105	,57189	.37316	,57431	.37527	57678	.37735	.57921	.37950	47
14	.56947	.37108	.57193	.37319	,57438	.37530	.57682	.37742	.57925	.37953	30
1.5	.56951	.37112	.57197	.37323	.57442	.37534	.57686	.37745	.57929	.37957	45
+ 4'	9.56955	.37115	9.57201	.37326	9,57446	-37537	9.57690	.37749	9,57933	37960	4
17	.56959	.37119	.57205	.37330	57450	.37541	,57694	.37752	.57937	.37964	43
18	.56963	.37122	.57210	.37333	,57454	.37544	57698	.37756	,57941	.37967	3
19	.56968	.37126	,57214	.37337	.57459	.37548	.57702	.37759	57945	.37971	41
- 3	9.56972	.37129	9.57218	37340	9.57463	.37551	9.57706	.37763	9,57949	.37974	41
21	,56976	.37133	.57222	.37344	.57467	.37555	.57711	.37766	,57953	.37978	33
22	.56980	.37136	.57226	.37347	.57471	.37558	.57715	.37770	,57957	.37982	-53
25	.56984	.37140	.57230	.37351	.57475	.37562	.57719	.37773	.57961	.37985	.53
+ 6	9.56988	.37143	9.57234	.37354	9.57479	.37566	9.57723	.37777	9,57965	.37989	31
25	.56992	.37147	.57238	.37358	.57483	.37569	.57727	.37789	.57,969	.37992	3.
26	.56996	.37150	.57242	.37361	.57487	.37573	.57731	.37784	.57973	.37996	3
27	.57000	.37154	.57246	37365	57491	37576	.57735	-37788	.57977	37999	33
+ 7	9,57005	.37157	9.57250	.37368	9.57495	.37580	9,57739	.37791	9,57981	.38003	8:
29	.57009	.37161	.57255	.37372	.57499	.37583	.57743	.37794	.57986	.35006	31
80 81	.57013	.37164	.57259	.37375	.57503	.37587	.57747	.37798	.57990 .57994	.38010	25
-	.57017	.37168	.57263	37379	.57507	.37590	.57751			.35017	
+ 88	9,57021 ,57025	.37171	9.57267 .57271	.37382	9.57511	.37594	9,57755 ,57759	.37505	9.57998 .58002	.35020	30
34 34	.57029	.37175	.57275	.37389	.57516	.37601	.57763	.37812	58006	38021	13
35	.57033	.37152	.57279	.37393	.57524	.37604	.57767	.37816	58010	.35027	13
	9.57037	.37186	9.57283	.37397	9.57528	-37608	9.57771	.37819	9.58014	.35031	1.3
+ 37 9'	.57042	.37189	.57287	.37400	.57532	.37611	.57775	.37823	58018	35034	Į.
38	.57046	.37193	57291	.37404	.57536	.37615	.57779	.37826	22055	.35038	12
39	.57050	.37196	.57295	.37407	.57540	.37618	.57783	.37830	58026	.38042	2
+ 10'	9.57054	.37200	9.57299	.37411	9.57544	.37622	9,57787	.37833	9.58030	.35045	12
41	.57058	.37203	.57304	.37414	.57548	.37625	.57792	.37437	58034	.38019	1:
42	57062	.37207	.57308	.37418	.57552	.37629	.57796	.37840	.58038	.38052	1.
43	.57066	.37210	.57312	.37421	.57556	.37632	.57800	.37844	.58042	.38056	1
+ 11'	9.57070	.37214	9.57316	.37425	9.57560	.37636	9.57504	.37847	9.58046	.38059	1
45	.57074	.37217	.57320	.37428	.57564	.37639	.57808	.37851	.58050	.38063	1.
46	.57078	.37221	.57324	.37432	.57568	.37643	.57812	.37855	.58054	.38066	1
47	.57083	.37224	.57328	.37435	,57572	.37647	.57816	.37858	58058	.38070	1
+ 12′	9.57087	.37228	9.57332	.37439	9.57577	.37650	9.57820	.37562	9.58062	.35073	1
49	.57091	.37231	.57336	.37442	.57581	.37654	.57824 .57828	.37865	.58066 .58070	.38077	1
50	.57095	.37235	.57340	.37446	,57585 ,57589	.37657	.57832	.37872	.58074	.38084	Ľ
51	.57099		.57344			-	9.57836	.37876	9.58078	.35057	-
+ 13'	9.57103	.37242	9.57348 .57353	.37453 .37456	9.57593 .57597	.37664	.57840	.37579	.58082	.38091	l i
53 54	.57107	.37249	,57357	.37460	.57601	.37671	.57844	.37883	58086	.35095	Ι.
55	.57115	.37252	.57361	.37463	.57605	.37675	.57848	.37556	.58090	.35095	L
+ 14'	9.57119	.37256	9.57365	.37467	9.57609		9.57852	.37 190	9.58094	-3810?	
57	.57124	.37259	57369	.37470	.57613	.37682	.57856	.37893	.58098	.35105	
58	.57128	.37263	.57373	.37474	.57617	.37685	.57860	.37897	.58102	.38109	1
59	.57132	.37266	.57377	.37477	.57621	.37659	.57864	.37900	.58106	.38112	
+ 15'	9.57136	.37270	9.57381	.37481	9.57625	.37692	9.57568	.37904	9 58110	.38116	
	-107.100	131110		1			1				1
	18h	59m	18h	55m	181	57m	18h	56m	1Sh	5.5m	1

	5h 5m	76° 15′	5h 6m	76° 30′	5h 7m	76° 45′	5h Rm	77° 0′	5h 9m	77° 15′	
3	Log. Hav.	Nat. Hav	Log. Hav.	Nat, Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	1.
0	9.58110	.38116	9.58351	.35328	9,58591	.38540	9,58830	.38752	9,59068	.38965	6
1	.58114	.38119	.58355	.38331	.58595	.38544	.58834	.38756	.59072	.38969	10
2	.58118 .58122	.38123	.58359 .58363	.38335	.58599 .58603	.38547	.58838 .58842	.35760	.59076	.35972	Ŀ
+ 1'	9.58126	.38130	9.58367	.35342	9.58607	38551	9.58846	.38763	.59079 9.59083	35976	L
5	.58131	.38133	.58371	.38345	.58611	.38558	58850	.38767	.59083	.38979	
6	.58135	.38137	.58375	.38349	.58615	.38561	58854	38774	.59091	35986	L
7	.58129	.35140	.58379	.38352	.58619	.38565	58858	.38777	.59095	.35990	П
+ 2'	9,58143	.38141	9 58383	.38356	9.58623	-38568	9.58862	.38781	9,59099	.35994	1
. 9	.58147	.35148	.58387	.38360	.58627	.38572	.55566	.38784	.59103	.35997	ı
10	.58151	.38151	58391	.38363	58631	.38575	.58870	.38788	,59107	.39001	1
11	.58155	.38155	.58395	.38367	.58635	.38579	.58874	.35791	.59111	.39004	L
+ 3′	9.58159	.35158	9,58399	.38370	9,58639	.38582	9.55578	.38795	9.59115	.39008	Т
13	.58163	.38162	.58403	.35374	.58643	.38586	.58882	.35799	.59119	.39011	L
14 15	,58167 ,58171	.38165 .38169	,58407 ,58411	.38377	.58647	.38590	54445 54489	.38802	.59123	.39015	
+ 4'	9.58175	.38172	9.58315	38384	9.58655	-	9.58893	.38806	.59127	.39018	- 1
17	58179	.38176	.58419	.35355	.58659	.38597	55897	.38809	9.59131 .59135	.39022	
18	.58183	.38179	.58423	.38391	.58663	.35604	.58901	.35516	.59139	.39029	١
19	.58187	.38183	.58427	.38395	,58667	.38607	.58905	.38820	.59143	.39033	
5'	9.58191	.38186	9.58431	.38398	9.58671	.38611	9.58909	.38823	9.59117	.39036	
21	.58195	.38190	.58435	.35402	.58675	.38614	.58913	.38827	.59151	.39040	
22	.58199	.38193	.58439	.35106	.58679	.38618	.58917	.35430	.59155	.39043	
23	.58203	.38197	.58443	.35409	58683	.38621	.58921	.38834	.59158	.39017	L
+ 6'	9,58207	.38200	9,58447	.35413	9.58687	.38625	9.58925	.35837	9.59162	.39050	1
25	.58211	.38204	.58451	.35416	58691	.38628	.58929	.35511	.59166	.39051	ı
26	.58215	.35208	.58455	.38420	.58695	.38632	· 58933		.59170	.39057	ı
27	.58219	.38211	.58459	.35123	.58699	.35636	.58937	.38818	.59174	.39061	l
+ _7′ 29 7′	9,58223 ,58227	.38215	9.58463	.38427	9.58703	.35639	9.58911	.3555?	9,59178	.39064	ı
30	.58231	.38218	.58467 .58471	.35430	.58707 .58711	.38613	.58945 .58949	.38855	.59182 .59186	.39064	
31	.58235	.38225	58175	.38137	58715		58953	.38859	,59190	.39072	ł
$\mathbf{s}'$	9.58239	.38229	9.58479	.35441	9,58719	.38653	9.58957	.35566	9,59194	.39079	ł
33	58243	.35232	.58483	.38444	.58723	.38657	.58961	.38869	,59199	.39082	ı
34	.58247	.38236	58487	.38448	58727	.35660	.58965	.38573	59202	.39056	
3.5	.58251	.38239	58391	.38151	.58731	.38664	.58969	.35576	,59206	.39059	ı
- 9	9.58255	.38213	9.55395	.38155	9,58735	.34667	9,58973	.35550	9.59210	.39093	1
37	.58259	.38246	.58199	.38159	.58739	.38671	.58977	.35554	.59213	.39096	ı
38	.58263	.38250	.58503	.38162	.58742	38675	.58981	-34443	.59218	.39100	
39	.58267	.38254	58507	.35466	58746	.35678	58085	.38891	_,59222	.39103	I.
10	9.58271	.38257	9.58511	.35169	9.58750	.38682	9.58989	.35494	9.59225	.39107	I
42	.58275 .58279	.38261	.58515 .58519	.38173	.58751 .58758	.38685	.5899 <u>2</u> .58996	.35595	.59229 59233	.39111	ı
43	58283	38268	58523	.35150	58762	.35692	59000	,35901	.59235	.39114	ı
- 11	9.58287	.38271	9.58527	38183	9.58,66	.35696	9.55001	.38908	9,59211	.39121	ı
75	.58291	.38275	58531	.38187	3,33700	.35699	,59008	,38912	59235	.39125	L
76	58295	.35378	58535	.35190	58774	.35703	,59012	.38915	59249	.39128	l
-77	58299	.38282	58539	.38191	58778	.38706	,59016	.38919	59253	.39132	ı
12	9,58303	.38285	9.58543 (	.38198	9,58782	.38710	9 19020	.38923	9,53257	.39135	t
39	,58307	235259	58547	.35501	.58786	.38713	,59024	.38926	,59261	.39139	1
50	.58311	.38292	58551	.35505	.58790	.38717	.59028	.38930	39265	.39143	1
51	.58315	.35296	18555	3550%	58794	.38721	9032	.38933	207.60	.39146	L
13"	9 38319	.38299	9 58559	38513	9,58798	.38723	9 19036	.38937	9,792.3	.39150	ı
53 53	,58323	.35303	8564	.35515	(880)2	.35725	.59040	.35910	.59277	.39153	L
55	.58 127 .58131	.38307	35567 8571	.38519	.35500	.38731	79034	.35911	.59281 59285	.39157	1
117	9,58335	.35311	9 8 6	.3×526	9.58811		9.59052	.38951	9.59289	.39164	١
57	,58339	.35317	3579	.35529	58818	.35742	.59056	.38954	24545	.39167	Ĺ
58	.58311	.38321	18 183	.35533	58822	.38715	,59060	.38958	19296	.39171	ı
,0	58117	.38323	15 157	.38536	58826	.35719	59061	.38962	59300	.39171	1
			I .								1
15	9 55 01	-35335	9 38 301	.35510	9,58830	.35752	9 JOHNS	.38965	9.59304	.39178	
15	9.58.01	.35325	9 18 01		9,58830  18 h		756	_	9,-37304 e. h	.39178	l

aversines,	

	5h 10m	77° 30′	5h 11m	77° 45′	5h 1 m	75° 0′	5h 18m	78° 15′	5h 1.4m	78 30	1
5	-	Nat, Hav.		Nat. Hav.		Nat. Hav.	Log. Hav.	Nat, Hav.	Log, Hav.		s
-0	9.59304	.39178	9,59540	.39391	9.59774	,39604					1
1	,59304	.39183	,59544	.39395	.59778	.39608	.60012	.39818	9.60240	.40033	60 59
2	.59312	.39185	.59548	.39398	.59782	.39612	.60016	.39825	.60248	.40039	58
3	.59316	.39189	.59552	.39402	.59786	.39615	.60020	.39829	.60252	.10042	57
+ 1′	9.59320	.39192 .39196	9.59556	.39405	9,59790	.39619	9.60023	.39832	9.60256	.49946	56
6	.59324 .59328	.39196	.59559 .59563	.39409 .39412	.59794	.39623	.60027 .60031	.39836 .39839	.60260 .60263	.40049 .40053	55 54
7	,59332	.39203	.59567	.39416	.59802	.39629	,60035	.39843	.60267	.40057	53
+ 2'	9.59336	.39206	9.59571	.39420	9.59806	.39633	9.60039	.39846	9,60271	.40060	52
9	.59340	.39210 .39214	.59575	.39423	.59809 .59813	.39636 .39640	.60043	.39850	.60275	.40064	51
10 11	.59344	.39217	.59579	.39430	,59817	.39644	.60047	.39854 .39857	,60279 ,60283	.40067 .40071	50 49
+ 3'	9.59351	.39221	9.59587	.39134	9.59821	.39647	9,60054	.39861	9.60287	.40074	48
13	.59355	.39224	.59591	.39437	.59825	.39651	.60058	.39864	.60291	.40078	47
14	.59359	.39228	.59595	.39441	.59829	.39654	.60062	.39868	.60294	.40081	46
+ 1	9.59363	.39231	$\frac{.59599}{9.59602}$	.39444	.59833 9.59837	.39658 .39661	$\frac{.60066}{9,60070}$	.39871	.60298 9.60302	.40085 .40089	$\frac{45}{77}$
17	.59371	.39238	.59602	.39451	.59841	.39665	,60074	.39878	.60306	.40092	44
18	.59375	.39242	.59610	.39455	.59845	.39668	.60078	.39882	.60310	.40096	42
19	.59379	.39245	.59614	.39459	.59848	.39673	.60082	.39886	.60314	.40099	41
+ 5'	9.59383	.39249	9.59618	.39462 .39460	9.59852 ,59856	.39676	9.60085 .60089	.39889	9.60318	.40103 .40106	40 39
22	.59387	.39256	.59622 .59626	.39469	.59860	.39683	.60093	.39893 .39896	,60321 ,60325	.40110	38
23	.59395	.39260	.59630	.39173	.59864	.39686	.60097	.39900	.60329	.40114	37
+ 6'	9.59399	.39263	9.59634	.39476	9.59868	.39690	9.60101	.39903	9.60333	.40117	36
25	.59403	.39267	.59638	.39480	.59872	.39693	.60105 .60109	.39907	.60337	.40121 .40124	35
26 27	.59406	.39270 .39274	.59642 .59646	.39484	.59876 .59880	.39700	.60113	.39910	.60341 .60345	.40128	34 33
+ 7'	$\frac{0.59414}{9.59414}$	.39277	9.59649	.39491	9.59883	.39704	9.60116	.39918	9.60348	.40131	32
29	.59418	.39281	.59653	.39494	.59887	.39768	.60120	.39921	.60352	.40135	31
SO 01	.59422	.39285	.59657	.39498	.59891	.39711	.60124	.39925	.60356	.40139 .40142	30 29
$\frac{31}{+8'}$	$\frac{.59426}{9.59430}$	.39288	$\frac{.59661}{9.59665}$	.39501 .39505	.59895 9.59899	.39715	$\frac{.60128}{9.60132}$	.39928	60360 $60364$	.40146	28
33	.59434	.39295	.59669	.39508	.59903	.39722	,60136	.39935	,60368	.40149	27
34	.59438	.39299	.59673	.39512	.59907	.39725	,60140	.39939	.60372	.40153	26
35	.59442	.39302	.59677	.39516	.59911	.39729	.60144	.39943	.60375	.40156	25
+ 9'	9.59446 .59450	.39306 .39309	9,59681 .59685	.39519 .39523	$9.59915 \\ .59918$	.39732 .39736	9.60147 .60151	.39916 .39950	9.60379	.40160 .40163	24 23
38	.59454	.39313	.59688	.39526	.59922	.39739	.60155	.39953	.60387	.40167	22
39	.59458	.39317	.59692	.39539	.59926	.39743	.60159	.39957	.60391	.40171	21
+ 10′	9.59461	.39320	9.59696	.39533	9.59930	.39746	9.60163	.39960	9.60395	.40174	20
41 43	.59465 .59469	.39321	.59700 .59704	.39537 .39540	.59934	.39750 .39751	.60167 .60171	.39961 .39967	.60399 .60402	.40178 .40181	19 18
43	.59473	.39331	.59708	.39544	.59942	.39757	.60175	.39971	.60406	.40185	17
+ 11'	9.59477	.39334	9.59712	.39548	9.59946	.39761	9.60178	.39975	9,60410	.40188	16
45	.59481	.39338	.59716	.39551	.59950	-39765 '39768	.60182 .60186	.39978 .39982	.60414	.40193	15 14
46 47	.59485 .59489	.39341	.59720 .59724	.39555 .39558	.59953 .59957	.39772	.60186	.39985	,60422	.40190	13
+ 12'	9.59493	.39348	9.59728	.39562	9.59961	.39775	$9.6019\overline{4}$	39989	9.60426	.10203	12
49	.59497	.39352	.59731	.39565	.59965	.39779	.60198	.39992	.60429	.40206	11
50	.59501	.39356	.59735	.39569	.59969	.39783	.60202	.39996	.60433	.10210	10
51	.59505	.39359	.59739	.39572	.59973	.39786	.60206 9.60209	.10003	.60437 9,60441	.10217	8
+ 13′	9.59508 .59512	.39363 .39366	9.59743 .59747	.39576 .39580	9.59977 ,59981	.39793	.60213	.10003	.60445	.40220	1 %
54	.59516	.39370	.59751	.39583	.59985	.39796	.60217	.40019	.60449	.10224	6
5.5	,59520	.39373	.59755	.39587	.59988	.39500	.60221	.40011	.60452	.40228	5
+ 14	9.59524	.39377	9.59759	.39590	9.59992	.39503 .39507	9.60225	.40017	9,60456 ,60460	.40231 .40235	4 3
57 58	.59528 .59532	.39389	.59763	.39594 .39597	.59996	.39507	.60229	.40031	.60464	.40238	2
59	.59536	.39398	.59770	.39601	,60004	.39811	.60236	.40028	.60468	.10242	- 1
+ 15'	9.59540	.39391	9.59774	.39604	9,60008	.39818	9.60240	.40032	9,60472	.40245	0
1	y., k	39m	403	48m	101	47 m	101	46m	1sh	11	1
	181	4000	1811	40111	1810	4, "	2,516	40	4 111		

Page 874]

## TABLE 45.

	5h 15m	74° 45′	5h 16m	79 0'	5h 17m	79° 15′	5h 18m	79° 30′	5h 19m	79° 45′	
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	9,60472	.40245	9,60702	.40460	9,60931	.40674	9.61160	.40888	9.61387	.11103	60
1	60176	.40249	.60706	.10163	,60935	.40677	.61164	.40893	.61391	.11106	59
2	,60479	.40253	,60710	.40467	.60939	.40681	.61167	.40895	.61395	.11110	58
S	.60483	.40256	60714	.40470	.60943	.40685	.61171	.10899	.61399	.41111	57
+ 1'	9.60487	.40260	9,60717	.40174	9.60947	.40658	9.61175	.49903	9.61402	.41117	56
5	.60491	.40263	.60721	.40477	.60951	.40692	.61179	.40906	.61406	.41121	55
6	.60495	.40267	.60725	.40481	.60954	.10695	.61183	.40910	.61410	.41124	54
7	.60499	.40270	.60729	.40485	.60958	40699	.61186	.40913	.61414	.41128	53
+ 2'	9.60502 .60506	.40274	9.60733	.40488	9,60962	.40702	9.61190	.40917	9.61417 .61421	.41131 .41135	53
10	.60510	.40281	.60740	.10495	.60970	.40710	.61194	.10934	.61425	.41139	51 50
11	.60514	40285	.60744	.40499	.60973	.40713	61202	.40928	.61429	.41142	49
+ 3'	9.60518	.40288	9,60748	.40502	9.60977	.10717	9.61205	.10931	9.61433	.41116	48
13	,60522	.40292	.60752	.40506	,60981	.40720	.61209	.40935	.61436	.41149	47
14	.60526	.40295	.60756	.40510	.60985	.40724	.61213	.40938	.61440	.41153	46
15	.60529	.40299	.60760	.40513	.60989	.40727	.61217	.40942	.61444	.41156	4.5
+ 4'	9.60533	.40303	9.60763	.40517	9.60992	.40731	9.61221	.40945	9.61448	.41160	44
17	.60537	.40306	.60767	.40520	.60996	.40735	.61224_	.40949	.61451	.41164	43
18 19	,60541 ,60545	.40310	.60771	.40524	,61000 ,61004	.40738	.61228 .61232	.40953 .40956	.61455 .61459	.41167 .41171	42
= 13 = 3 =	9.60549	.40313	9.60779	.40531	9,61008	.40745	9.61236	.40960	9.61463	.11174	41)
- 11	.60552	.40320	.60783	.40535	.61012	.10719	.61240	.40963	.61467	.41178	39
22	,60556	.10324	.60786	.10535	.61015	40752	.61243	.40967	.61470	.41182	38
2.3	,60560	.40328	.60790	.49512	.61019	.10756	.61247	.40979	.61474	.41185	37
+ 6'	9.60564	.40331	9.60794	.40545	9.61023	.10760	9.61251	.40974	9.61478	.11189	36
25	.60568	.40335	.60798	.10549	.61027	.10763	61255	.10978	.61482	.11192	35
.:6	.60572	.40338	.60802	.4055?	.61031	.40767	.61258	.10981	.61455	.41196	34
± 27	.60576	.40342	,60805	.19556	,61034	.10770	.61262	.10985	61489	41199	33
29	9,60579 ,60583	.40345	9,60809	.40560 .40563	9,61038	.40774	9,61266 ,61270	.10988	9.61493 ,61497	.41203	32 31
30	,60587	.10352	,60817	.10567	.61046	.40781	.61274	.40996	,61500	.41210	30
.1.1	60591	.40356	.60821	.10570	.61050	.40785	.61277	.40999	.61501	.41214	29
S'	9,60595	.40360	9.60825	.40574	9.61053	.40755	9.61281	.11093	9.61508	.41217	2,8
.5.3	.60599	.40363	.60828	.40577	.61057	.40792	.61285	.41006	.61512	.41221	27
.5.4	,60602	.10367	.60832	.40581	.61061	.40795	.61289	.11010	.61516	.41225	26
35	,60606	.49379	.60836	.40585	.61005	.40799	.61293	.41013	.61519	.41228	25
+ 97	9,60610 ,60614	.49374	9,60840	.40588	9,61069 . .61072	.40502	9,61296	.11017	9,61523	.41232	24
58	.60618	.40381	.60847	.10595	.61076	.10810	.61304	.11024	.61531	.41239	00
39	,60622	.403×5	.60851	.40599	.61080	.40813	,61308	.41028	,61534	.41313	21
+ 10	9.60625	.40388	9.60855	.40602	9.61084	.10517	9.61312	.41031	9.61538	.41246	20
41	.60629	.10392	.60859	.19606	.61088	.40820	.61315	.41035	.61542	.41259	19
40	.60633	.40395	.60863	.40610	.61091	.49524	.61319	.41939	.61546	.41253	18
4.9	,60637	.40399	,60867	.40613	.61095	.10527	.61323	.11012	.61549	.41257	17
+ 11'	9,60641	.40402	9,60874	.40617	9,61099	.40831	9.61327	.41046	9.61553	.41260	16 15
44	,60648	.40110	.60878	.40624	.61103	.10838	.61330 .61334	.41049 .41053	.61557	.41267	13
17	60652	.10113	,60882	.40627	.61110	.40542	.61338	.41056	.61565	.41271	13
+ 12	9,60656	.10117	9,60886	.40631	9,61114	.10545	9,61342	-41000	9.61568	.41275	13
49	,60660	.40420	.60890	.40635	.61118	.10549	.61346	.41063	.61572	.41278	11
50	,60864	.40424	.60893	.49638	.61122	.40852	.61349	.41067	.61576	.41282	10
AI.	.60665	.40427	.60897	.10643	61126	.40856	.61353	.41071	61580	.41285	9
13	9.60671	.10431	9.60901	.40645	9.61129	.10860	9.61357	.41074	9 61583	.41259	8
.13	.60675 .60679	.10134	.60905 .60909	.40649 .40652	.61133	.40863 .40867	.61361	.41078 .41082	.61597 .61591	.41293 .41296	7
5	60683	.10112	.60912	.40656	61141	.40870	.61368	.41055	.61595	.41300	5
+ 11	9.60687	.10415	9.60916	.10660	9 61145	.10574	9.61372	.41059	9.61598	.41303	4
.77	.60691	.10119	.60920	.10663	.61148	40878	.61376	.41092	.61602	.41307	3
53	,60694	.10452	,60924	.40667	.61152	.40881	.61350	.11096	,61606	.41310	2
.59	60698	.40456	.60928	.10670	.61156	.40885	61383	.11099	.61610	.41314	1
+ 15"	9.60702	.10160	9 60931	.10674	9 61160	.40888	9 61387	.11103	9.61614	.41318	0
	184	: . m	184	: 9773	18h	; >m	18h .	(1178	18h .	( m	
	1,,,	, ,	1.5 /4	4.7.7	10"	/- "	1074	11.17	1.77	PC	

	5h 20m	80° 0′	5h 21m	80° 15′	5h 22m	80° 30′	5h 23m	80° 15′	5h 24m	81° 0′	
s	Log, Hav.	Nat. Hav.	Log. Hav.		Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, Hay.	в
	9.61614	.41318	9.61839	.41533	9.62063	.41748	9.62287	.41963	9,62509	.42178	60
1	.61617	.41321	,61843	.11536	.62067	.41751	.62290	.41966	,62513	.42182	59
- 2	.61621	.41325	.61846	.41540	.62071	.41755	.62294	.41970	.62516	.42185	58
3	.61625	.41328	.61850	.41543	.62074	.41758	.62298	.41974	.62520	.42189	57
$+\frac{1'}{5}$	9,61629 .61632	.41332 .41335	9.61854 .61858	.41547 .41550	9.62078 .62082	.41762 .11766	9.62301 .62305	.11977 .11981	9.62524	.42193 .42196	56 55
6	61636	.41339	.61861	.41554	,62086	.41769	.62309	.11984	.62531	.42200	54
7	. F [ ti-4()	.41313	.61865	.41558	.62089	.41773	.62313	.41988	,62535	.42203	53
+ 2'	9.61031	.41316	9.61869	.41561	9.62093	.41776	9.62316	.41992	9.62538	.12207	52
9 10	.61647 .61651	.41350 .41353	.61873	.41565 .41568	.62097 .62100	.41780 .41783	,62320 ,62324	.11995 .41999	.62542 .62546	.42211 .42214	51 50
11	.61655	.41357	.61880	.41572	.62104	.41787	62327	.42002	.62550	.42218	49
+ 3	9,6,659	.41361	9.61884	.41576	9.62108	.41791	9.62331	.12006	9.62553	.42221	48
1.3	.61662	.41364	.61888	.41579	.62112	.41794	.62335	42010	.62557	.42225	47
14 15	.61686 .61670	.41368 .41371	.61891 .61895	.41583 .41586	.62115	.41798 .41801	.62338 .62342	.12013	.62561 .62564	.42229	46 45
+ 4'	9.61674	.41375	9,61899	.41590	9.62123	.41505	9,62346	- 12020	9.62568	.42236	44
17	.61677	.41378	.61903	.41593	.62127	.41809	.62350	.12021	.62572	.42239	43
18	.61681	.41382	.61906	.41597	.62130	.41512	.62353	.42027	,62575	.42243	42
19 + <b>5</b> ′	.61685 9.61689	.11386	,61910 9,61914	.41601	.62134 9.62138	.41816	$\frac{.62357}{9.62361}$	42031 42035	.62579 9.62583	.42247	41
21	.61692	.41393	.61917	.41609	.62141	.41823	.62364	.42038	,62586	.42254	39
22	.61696	.41396	.61921	.41611	.62145	.41827	.62368	.42042	.62590	.42257	38
23	.61700	.41400	.61925	.41615	.62149	.11830	.62372	.42045	.62594	.42261	37
+ 6' 25	9.61704 .61708	.41404	9.61929 .61932	.41619 .41622	9.62153 .62156	.41834 .41837	9.62376 .62379	.12019 .12053	$9.62598 \\ .62601$	.42264	36 35
25 26	.61711	.41411	.61932	.41626	.62160	.41841	.62383	.42056	.62605	.42272	34
27	.61715	.41414	.61940	.41629	.62164	.41844	.62387	.12060	.62609	.42275	33
+ 7'	9.61719	.41418	9.61944	.41633	9.62168	.41848	9.62390	.42063	9.62612	.42279	32
29	.61723	.41421 .41425	.61947	.41636	.62171	.41852	.62394	.42067 .42071	.62616 .62620	.42282 .42286	31 30
30 31	.61726 .61730	.41429	.61951 .61955	.41640 .41644	.62175 .62179	.41855 .41859	.62398 .62402	.42074	.62623	.42290	29
+ 8'	9.61734	.41432	9.61959	.41647	9.62182	.41862	9.62405	.42078	9.62627	.42293	28
33	.61738	.41436	.61962	.41651	.62186	.11866	.62409	.42081	.62631	.42297	27
34 35	.61741	.41439 .41443	.61966	.41654 .41658	.62190 .62194	.41870 .41873	.62413 .62416	.42085	.62634 .62638	.42300 .42304	26 25
+ 9'	9.61749	.11417	$\frac{.61970}{9.61974}$	.41662	9.62197	.41877	9.62420	.42092	9.62642	.42308	24
37	.61753	.11450	.61977	.41665	,62201	.41880	.62424	.12096	.62646	.42311	23
38	.61756	.11454	.61981	.41669	.62205	.11884	.62427	.42099	.62649	.42315	22
39	9.61764	.41457	.61985	.41672	9.62212	.41891	$\frac{.62431}{9.62435}$	.42103	$\frac{.62653}{9.62657}$	.42318	20
+ 10'	61768	.11464	9.61989 .61992	.41676 .41679	62212	.41895	.62439	.42110	,62660	.12326	19
42	.61768 .61771	.41468	.61996	.41683	.62216 .62220	.41898	.62442	.42114	.62664	.42329	18
4.9	.61775	.41472	.62000	.11687	.62223	.41902	.62446	.12117	.62668	.42333	17
+ 11'	9.61779 .61783	.41475 .41479	9.62003	.41690 .41694	9.62227 .62231	.41905 .41909	9.62450 .62453	.42121	$9.62671 \\ .62675$	.42336 .42310	16 15
45 46	.61786	.41432	.62007 .62011	.41694	.62231	.41913	.62453	.42128	.62679	.12344	14
47	.61790	.4118.	.62015	.11701	.62238	.41916	.62461	.42132	.62682	.42347	18
+ 12'	9.61794	.41490	9.62018	.41705	9.62242	.41920	9.62464	.42135	9.62686	.42351	12
49	.61798	.41493 .41497	.62022 62026	.41708	.62246	.41923 .41927	.62468 .62472	.42139 .42142	.6269 <b>0</b> .62693	.42354	11 10
50 51	.61805	.41500	.62030	.41712 .41715	.62249	.41931	,62476	.42146	.62697	.42361	9
+ 13′,	9.61809	.41504	9.62033	.41719	9.62257	.41934	9.62479	.42150	9.62701	.42365	8
53	.61813	.41507	.62037	.11722	.62261	.11938	.62483	.42153	,62704	.42369 .42572	7 6
54 55	.61816	.41511 .41515	.62041 2045	.41726	.62264	.41941	.62487 .62490	.42157 .42160	.62708 .62712	.42376	5
+ 14'	9.61824	4. 48	9.62045	.41733	9.69979	.11949	9.62494	.12164	9.62716	-42379	4
57	.61828	.41522	.62052	.41737	.62275	.11952	.62498	.12168	.62719	.12353	.3 :
58	.61831	.41525	.62056	.41740	.62279	.41956	.62501	.42171 .42175	.62723 .62727	.42387 .42390	1
59 + 15'	$\frac{.61835}{9.61839}$	.41529	.62059 9.62063	.41744	.62283 9.62287	.41959 .41963	,62505 9,62509	.42178	9,62730	.12394	-
+ 13				1	l				l		
	18h	39m	5a 18h	38m	18h	37 m	18h	36m	18h	.)5m	
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Page 876]

### TABLE 45.

	5h 25m	51 15'	3h 2616	51 30'	5h 27m	811 457	1 2,87	82° 0'	5h 29m	82° 15′	1
9	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log, Hav	Nut. Hav	Log. Hav.	Nat. Hav.	Log. Hav	Nat. Hav	s
0	9.62730	.12394	9.62954	.42610	9.63170	.42525	9,63389	.43041	9.63606	.43257	60
1 2	.62734 .62738	.12397	.62954 .62958	.42613	.63174 .63177	.42529	.63392 .63396	.43045	.63610	.43264	59 58
3	.62741	.42405	.62962	.42620	63181	.12536	,63399	.43052	.63617	.13268	57
+ 1'	9.62745	.42408	9.62965	.42624	9.63185	.12540	9.63403	.43056	9.63621	.43272	56
- 5	.62749	.42412	.62969	.42625	.63188	.12543	.63407	.43059	.63624	.43275	55
$\frac{6}{7}$ ,	.62752 .62756	.42415	.62973 .62976	.42634	.63192 .63196	.42847	.63414	.43063	.63625 .63631	.43279	54
+ 2	9.62760	.42423	9.62950	42635	9.63199	.42554	9.63418	.43070	9.63635	.43256	52
9 ^	.62763	.12426	.62984	.42612	,63203	.12558	.63421	.43074	.63639	.43290	37
10 '8	.62767	.42430	.62987	.42645	.63207	.42561	.63425	.43077	.63642	. 13293	50
+ 3'	.62774	.42433	.62994 9.62995	.42649	.63210	.12565	.63429	.43051	63646	.43297	49
13	9.62774	.42437	162998	.42653	9.63244	.42569	9.63432 .63436	.430%5	9,63649	.43304	48 47
c 13	.62782	.42444	,60002	.12660	.63221	.12576	.63439	.43092	.63657	.13308	46
15	62785	.42448	_,63006	.42663	.63225	.42879	.63443	.43095	.63660	.13312	45
+ 1	9.62789	.42451	9,63009	.42667	9.63228	.12553	9.63447	.43099	9,63664	.43315	4.4
17 18	.62793 .62796	.42455	.63013	.42674	.63232 .63236	.12557	.63450	.43103	.63668	.43319	43
19	,62800	.42462	,63020	.42678	.63239	.12594	.63458	.43110	63675	.43326	41
+ 5	9.62504	.42466	9,6302 €	.42681	9.63243	.42597	9.63461	.43113	9.63678	.43330	40
21	.62505	.12469	.63028	.42685	.63247	.42901	.63465	.43117	.63682	.43333	39
23	.62814	.42473	.63034 .63035	.42689	.63250 63254	.42905	.63468	.43124	.63686 .63689	.43337	38
+ 6'	9.62819	.12480	9.63039	.42696	9,63258	.42942	9,63476	.43128	9.63693	.13344	36
25	.62822	.42484	,63042	.42699	.63261	.42945	.63479	.43131	.63696	.43348	35
	.62826	.42487	.63046	.42703	.63265	.42919	.63483	.43135	.63700	.43354	34
+ 27	_62830 9.62833	.42491	,63050 9-63063	.42707	.63269	.42923	.63457	.43139	.63704	.13355	33
29	9,62833 ,62837	.42494	,63057	.42710	9.63272 .63276	.42926	9.63490 .63494	.43142	9.63707 .63741	.43358	32
30	.62844	.42502	63061	.12717	63279	.42933	.63497	.43149	,63714	.13366	30
31	.62844	.42505	.63064	42724	.63253	42937	.63501	.43153	63718	. £3369	29
+ 5'	9,62848 .62852	.42509	9.63068	.42725	9.63287 .63290	.42944	9.63505 .63508	.43157	9.63722	.43373	28 27
3.4	.62555	.42516	.63075	.42732	.63294	.12944	.63542	.43164	.63725	.43376	36
3.5	.62859	.12520	,63079	.12735	63298	.42951	.63516	.43167	.63733	.43384	25
- 9	9,62863	.42523	9,63082	.42739	9.63301	.42955	9.63519	.43171	9.63736	.43357	24
37 38	.62866 .62870	.42527	.63096	.42743	.63305 .63309	.42959	.63523 .63526	.43175	.63740	.43394	23
59	62874	.42534	.63093	.42750	63312	.42966	.63530	.43152	.63747	.43395	21
107	9,62877	.42538	9,63097	.12753	9.63316	.12969	9,63531	.43185	9.63751	.43402	20
41	.62881	.42544	.63101	.42757	.63320	.42973	.63537	.43189	.63754	.43405	19
43	.62885 .62888	.42545	.63104	.42761	63323 63327	.12977	.63541	.43193	.63758 .63761	.43409	18 17
+ 11'	9,62892	.42552	9.63112	.42768	9 63330	.42954	9 63548	.43200	9,63765	.43416	16
4.5	,62896	.42556	.63145	.12771	.63334	.12957	,63552	.13203	.63769	.43420	15
16	,62899	.42559	.63119	.42775	,63338	.42994	.63555	.43207	.63772	.43423	14
17	,62903	.42563	.63123	.42779	63341	.42995	.63559	.43211	.63776	_43127	13
19	9.62907 .62910	.42566	9 63126 .63130	.42782	9 63345	.42998	9.63563 .63566	.43214	9.63779	.43430	12
10	.62914	.42574	.63134	.42759	63352	.43005	.63570	.43221	.63787	.13435	10
d	.62918	.42577	.63137	.42793	63356	.43009	.63574	.43225	.63790	.43441	- 9
43	9 62921 62925	.43581	9,63141	.42797	9 63360 . 63363	.43043	9.63577	.43229	9.63794	.43445	8
1	62929	.12584	.63115	.42500	63367	.43016	.63581 .63581	.43232	.63797	.43452	1
	62932	.42592	.63152	.42807	63370	.43023	635%%	.43239	.63805	. (3456	111
- 11	9,62936	.42595	\$,63 [56	.42844	9 63374	.43027	9 63592	.43243	9.63808	.43459	4
17	62940 62943	.42599	.63159	.42845	,63378 ,63384	.43034	.63595 .63599	.43247 .43250	.63812	.43463	3
10	62947	.42606	.63166	.42422	,63385	.43034	63602	.43254	,63519	.43470	1
. 45	9 62951	.42610	9.63170	.42825	9 63389	.13011	9.63606	.43257	9.63823	.43474	-0
	743	,'	15h		1.6	5.2111	7.3	31m	184	Social	
			150		184	0	154	01	18"		

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[Page 877

Haversines.

					Haversi	nes.					- 1
	5h 30m	82° 30′	5h 31m	82° 45′	5h 3≥m	83° 0′	5h 33m	83° 15′	5h 3.4m	83° 30′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Have	s
0	9.63823	.43474	9.64038	.43690	9.64253	.43907	9.64467	.44123	9.64679	.44340	60
1	.63826	.43477	.64042	.43694	.64256	.43910	.64470	.44127	.64683	.44343	59
2	.63830 .63833	.43481 .43485	.64046	.43697 .43701	.64260 .64264	.43914 .43917	.64474	44130 .44134	.64686	.44347	58
+ 1'	9.63837	.43488	9.64053	.43704	9.64267	-,43921	9.61481	.44138	.64690 9.64694	44351 44354	57
5	.63841	.43492	.64056	.43708	.64274	.43925	.64481	.44141	.64697	.44355	56 55
6	.63844	.43495	.64060	.43712	.64274	.43928	.64488	.44145	.64701	.44362	54
7	.63848	.43499	.64063	.43715	.64278	.43932	.64492	.44148	.64704	.44365	53
+ 2'	9.63851	.43503 .43506	9.64067 .64071	.43719 .43723	9.64281 .64285	.43935 .43939	9.64495 .64499	.44152	9.64708	.44369	52
10	.63859	.43510	.64074	.43726	.64289	.43943	.64502	.44159	.64714	.44372	51 50
11	.63862	.43513	.64078	.43730	.64292	.43946	.64506	.44163	.64748	.443%0	49
+ 3'	9.63866	.43517	9.64081	.43733	9.64296	.43950	9.64509	.44166	9.64722	.44383	48
13	.63869	.43521	.64085	.43737	.64299	.43953	.64513	.44170	.64725	.44387	47
14 15	.63873 .63877	.43524 .43528	.64088	.43741 .43744	.64303	.43957 .43961	.64516 .64520	.44174	.64729 .64732	.44390 .44394	46 45
+ 4'	9.63880	.43531	9.64096	.43748	9.64310	.43964	9.64523	.44181	9.64736	-44398	4.1
17	.63884	.43535	.64099	.43751	.64314	.13968	.64527	.44185	.64740	.14401	33
18	.63887	.43539	.64102	.43755	.64317	.43972	.64531	.44188	.64743	.44405	43
19	.63891	.43542	.64106	.43759	.64321	.43975	.64534	.44193	.64747	.44408	41
+ 5'	9.63895 .63898	.43546	9.64110	.43762	9.64324	.43979	9.64538 .64541	.44195 .44199	9.64750 .64754	.44412 .44416	40
22	.63902	.43553	.64117	.43769	.64331	.43986	,64545	.44203	.64757	.44419	39 38
23	.63905	.43557	.64121	.43773	.64335	.43990	.64548	.44206	.64761	.44423	37
+ 8'	9.63909	.43560	9.64124	.43777	9.64339	.43993	9.64552	.44210	9.64764	.44427	36
25	.63913	.43564	.64128	.43780	.64342	.43997	.64555	.44213	.64768	.44430	35
26 27	.63920	.43571	.64131 .64135	.43784 .43787	.64346 .64349	.44000 .44004	.64559 $.64563$	.44221	.64771 .64775	.44434	34
+ 7'	9.63923	.43575	9.64139	.43791	9.64353	.44008	9.64566	.44224	9.64778	.44441	32
29	.63927	.43578	.64142	.43795	.64356	.44011	.64570	.44228	.64782	.44445	31
30	.63931	.43582	.64146	.43798	.64360	.44015	.64573	.44231	.64785	.44448	30
31 + 8'	9.63938	$\frac{.43585}{.43589}$	.64149	.43802	.64363	.44018	.64577	.44235	.64789	.44452	29
+ 8'	.63941	.43593	9.64153 .64156	.43805 .43809	9.64367	.44022	9.64580 .64584	.41239	9.64793 .64796	.44455 .44459	28 27
34	.63945	.43596	.64160	.43813	.64374	.44029	.64587	.44246	.64800	.41463	26
35	.63949	.43600	.64164	.43816	.64378	.44033	.64591	.44250	.64803	.44466	25
+ 9'	9.63952	.43603	9.64167	.43820	9.64381	.44036	9.64594	.44253	9,64807	.44470	24
37 38	.63956	.43607 .43611	.64171	.43824	.64385 .64388	.44040 .44044	.64598	.44257 .44260	.64810 .64814	.41474	23 22
39	.63963	.43614	.64178	.43831	.64392	.44047	.64605	.44264	.64817	.44481	21
+ 10'	9.63966	.43618	9.64181	.43834	9.64396	.41051	9.64609	.44268	9.64821	.44484	20
41	.63970	.43622	.64185	.43838	.64399	.44055	.64612	.44271	.64824	.44488	19
42 43	.63974	.43625	.64189	.43842 .43845	.64403	.44058 .44062	.64616	.44275 .44278	.64828 .64831	.44492 .44495	18 17
+ 11'	9.63981	.43632	$\frac{.64192}{9.64196}$	.43849	9.64410	.44065	9.64623	.44282	9.64835	.44499	$\frac{17}{16}$
45	.63984	.43636	.64199	.43852	.64413	.44069	.64626	.44286	.64838	.44502	15
46	.63988	.43640	.64203	.43856	.64417	.44073	.64630	.44289	.64842	.44506	14
47	.63992	.43643	.64206	.43860	.64420	.44076	.64633	.44293	.64845	.44510	13
+ 12'	9.63995 .63999	.43647 .43650	9.64210 .64214	.43563 .43867	9.64424	.44080 .44083	9.64637	.44296	9.64849 .64852	.44513 .44517	12 11
50 50	.64002	.43654	.64214	.43870	.64431	.44087	.64644	.41304	.64856	.44521	10
51	.64006	.43658	.64221	.43874	.64435	.44091	.64648	.44307	.64860	.44524	-9
+ 13'	9.64010	.43661	9.64224	.43878	9.64438	.44094	9.64651	.44311	9.64863	.44528	8
53	.64013	.43665	.64228	.43881	.64442	.44098	.64655 .64658	.44315 .44318	.64867 .64870	.44531 .44535	7 6
54 55	.64017 .64020	.43668	.64231 .64235	.43885	.64445 .64449	.44101 .44105	,64662	.41318	.64874	.44539	5
+ 14'	9.64024	.43676	9.64239	.43892	9.64452	-44109	9.64665	.44325	9.64877	.4454?	-7
57	.64028	.43679	.64242	.43896	.64456	.44112	.64669	.44329	.64881	.44546	3
58	.64031	.43683	,64246	.43899	.64460	.44116	.64672	.44333	.64884	.44549	- 2
59	.64035	.43686	.64249	.43903	.64463	.44120	.64676	-44336	.64888	44553 $44557$	$-\frac{1}{0}$
+ 15′	9.64038	.43690	9.64253	.43907	9.64467	.44123	9.64679	.44340	9.64891	*******	"

18h 27m

18h 20m

18h 25m

18h 29m

18h 28m

TABLE 45.

Page 8	78]			1	ABLE	45.					
					Haversi	nes.					
	5h5m	83 45"	5h.,6m	54 ' 0'	5h 57m	54° 15′	5h 38m	81° 30′	5h 39m	54° 45′	
9	tic in	N.t. 11 11	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
	14 ,1801	.44557	9.65102	.41774	9.65312	.44991	9.65524	.45208	9.65729	.45425	60
	41-15	.11560	,65106	.44777	.65316	.11991	,65525	.45211	.65733	.45429	59
	100	,14561 ,44568	.65109 .65143	.44781	.65319	.14998	.65528 .65532	.45215 .45219	.65736 .65740	.15132	58
- 1		.44571	9.65116	.44755	9,65326		9,65535	45222	9,65743	.45439	56
	7 1 1014	.44575	,65120	.41792	.65330	.45009	.65539	.45226	.65747	.45443	55
	1916	.41578	.65123 .65127	.11795	.65333 .65337	.45012	.65542 .65546	.45229	.65750 .65754	.45447	5.8
	4 . 919	.41556	9,65130	.11503	9.65340	.45020	9,65549	.45237	9.65757	.45454	52
,	.64923	.14589	.65434	.14506	.65344	.45023	.65553	.45240	.65761	.45458	51
11	54926 54930	.44593	.65137 .65141	.44813	.65347 .65351	.45027	.65556 .65559	.45244	.65764	.45461	50 49
- 3	0.54034	.11600	9 65144	.41517	9.05354	45031	9,65563	.45251	9.65771	.45465	48
13	. 1937	.11691	.65145	.41821	.65351	.45935	.65566	.45235	.65774 .65778	.45472	47
1 }	51931	.44697	65154 65155	.44524	.65361	.45041 .45945	.65570 .65573	.45258	.65778	.45476	36
15	9.61945	.41614	9 65155	.41525	.65365 9.65365	.45045	9.65577	.45262	3.65755	.45483	45
11	64951	.41615	.65162	.44835	65372	.45052	.65580	.45269	65788	.45156	- 5.3
15	,64955	.44623	.65165	.44839	.65375	.15056	.65584	.45273	.65792	. 15490	42
- 5	9.63962	.44625	65169 9,65172	.41842	65378 9.65382	.45059	.65587 9.65591	.45276	.65795 9.65799	.45494	41
21	61965	.11633	.65176	.44850	.65385	.15067	65594	.45251	65802	.45501	59
22	.64969	.14636	.65179	.44853	.653891	.45070	.65598	.45257	.05806	.15505	-38
	64972 9 64976	.11610	.65183 9.65186	.44557	.65392	.45074	,65601 9,65605	.45291	65809 9 65812	.45508	37
6 25	9 64979	.41643	,65190	.11560	9,65396 ,65399	.45077	.65608	45298	65516		35
17	64983	.44651	.65193	.44565	.65403	.150×5	.65612	.15302	65819	.45519	.85
27	64986	.11654	.65197	.11571	.65406	.45088	.65615 9.65619	.45305	.65823	.45523	.5.5
4 7	9,64990	.44661	9.65200 .65204	.44875	9,65410 65413	.45092 .45096	9,65619	.45309	9 65826	.45526	32
50	.64997	.44665	.65207	.14882	.65417	.45099	.65625	.45346	.65833	.45534	30
.51	65000	.14669	65211	.11556	.65421	,45103	65629	.45320	_65837	.45537	29
+ 8	9.65004	.44672	9.65214	.44893	9.65424 .65427	.45106	9,65632 .65636	.45324	9.65840	.45544	28
3.5	.65011	.44680	.65221	.41597	65431	.45114	.65639	.45331	.65847	.45548	20
.9.5	.65014	.446%3	.65225	.14900	.65434	.45117	.65643	.45334	.65850	.45552	2.5
4 9'	9.65018 .65021	.11687	9 65228 .65232	.41904	9,55435 ,65441	.45121	9.65646	.45338	9,65854 ,65857	.45555	2 3
38	65025	14694	65235	.14911	65445	.45128	.65653	.45345	,65861	.45563	33
.19	.65028	.14698	.65239	.44915	.65448	.45132	.65657	.45349	.65864	.45566	21
$+\frac{10'}{4I}$	9,65032 ,65035	.44701	9 65242	.44948	9 65452 65455	.45135	9.65660 .65664	.453 <b>53</b> .45356	9.65868	.15570	20 19
42	65039	.44709	65249	.44925	,65459	.45143	.65667	,45360	.65875	.15577	18
.2.3	.65043	.44713	65253	.14929	65462	.45146	.65671	.45363	.65878	.45551	17
+ $11'$	9.65046	.44716	9 65256	.44933	9 65466	.15150	9,65674 ,65677	.45367	9,65551	.45584	16
15	,65050 ,6505 <b>3</b>	.44719	65263	.44936	65 (73	.15457	65681	.45371	65553	.45592	11
17	65057	.11727	.65267	.14944	65476	.45161	.65684	.45378	65892	.45595	1.3
12	955060	.11730		.44947	9 65480	.45164	9.65688	.45351	9165846 65899	.45599	13
50	.65064 .65067	.11731	65274 65277	.41951	65483	.45168 .45172	.65694 .65695	.453%5	65902	.45602	11
51	65071	.11741	65281	.11958	65490	.45175	65698	.45392	,65906	.45640	1
+ 43	9 > 5074	.11715	9.65284	.11962	95 65 193	.15179	9.65702	.45396	9,65909	.45643	
.11	65078	.41719	65288 65291	.41965	654967 6550d	.45482	65705 C5700	.45400	.65913 .65916	.15617	6
15	1.505	. 11755	65295	.41973	15.01	.15190	65712	.15497	.65949	.15621	5
L 11	9 65055	.11759	9.65298	.44976	90.07	.15493	9 657 (6	.45410	9 65923	.45625	1
7-2	65092	.14763		.44950	65.11	. (5497	,65719 ,65722	.45414	.65926 .65930	.45631 .45635	3
.,	10.000	.11770		.11957	65518	.15201	65726	.45421	(65933	.45639	1
- 15	9,65102	.11771		41971	9.65	.15205	9,65729		9 659 37	.45612	0
	1.5	1	1.0	7.1	1.4	,		21m	1 - h	1.50	
	1	, 1	1 / "		1		150	~ 1'''	1.70	. ' '	1_

aversines

					Haversi	iice.					
	5ħ 40m	85° 0′	5h 41m	85° 15′	5h 42m	85° 30′	5h 48m	85° 45′	5h 44m	86° 0′	
s	Log, Hav.	Nat. Hav.	Log. Hav.	Nat, Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	S
0	9.65937	.45612	9.66143	.45860	9.66348	.46077	9.66553	.46295	9.66757	.46512	60
1	.65940	.45646	.66146	.45863	.66352	.46051	.66556	.46298	.66760	.46516	59
2 3	.65944 .65947	.45649 .45653	.66150 $.66153$	.45867 .45870	.66355 ,66359	.46084 .46088	.66560 .66563	.46302 .46305	.66763 .66767	.46519 .46523	58 57
+ 1'	9,65950	.45657	9.66157	.45574	9.66362	.46092	9.66567	.46309	9.66770	.46527	56
5	.65954	.45660	.66160	.45878	.66366	.46095	.66570	.46313	.66774	.46530	55
6	.65957	.45664	.66164	.45881	.66369	.46099	.66573	.46316	.66777	.46534	54
7	.65961	.45668	.66167	.45885	.66372	.46102	.66577	.46320	.66780	.46538	58
+ 2'	9.65964	.45671 .45675	9.66170	.45889 .45892	9.66376	.46106 .46110	9.66580	.46324 .46327	9.66784	.46541 .46545	52 51
10	.65971	.45678	.66177	.45896	.66383	.46113	.66587	.46331	.66791	.46548	50
11	.65975	.45682	.66181	.45899	.66386	.46117	.66590	.46334	.66794	.46552	49
+ 3′	9.65978	.45686	9.66184	.45903	9.66389	.16121	9.66594	.46338	9.66797	.46556	48
13	.65981	.45689	.66188	.45907	.66393	.46124	.66597	.46342	.66801	.46559	47
14	.65985 .65988	.45693 .45697	.66191 .66194	.45910 .45914	.66396 .66400	.46128 .46131	.66601 .66604	.46345 .46349	.66804 .66807	.46563 .46567	46 45
+ 4'	9.65992	.45700	9.66198	.45918	9.66403	.46135	9,66607	.46353	9,66811	.46570	44
17	.65995	.45704	.66201	.45921	.66407	.46139	.66611	.46356	.66814	.46574	43
18	.65999	.45707	.66205	.45925	.66410	.46142	.66614	.46360	.66818	.46577	43
19	.66002	.45711	.66208	45928	.66413	.46116	.66618	.46363	.66821	.46581	41
+ 5'	9.66006	.45715 .45718	9.66212	.45932 .45936	9.66417	.46150 .46153	9.66621 .66624	.46367 .46371	9.66824	.46585 .46585	39
22	.66012	.45722	.66218	.45939	.66424	.46157	.66628	.46374	.66831	.46592	38
23	.66016	45726	.66222	.45943	.66427	.46161	.66631	.46378	.66835	.46596	37
+ 6'	9.66019	.45729	9.66225	.45947	9.66430	.46164	9.66635	.46392	9.66838	.46599	36
25	.66023	.45733	.66229	.45950	.66434	.46168	.66638	.463×5	.66841	.46603	35 34
26 27	.66026 .66030	.45736 .45740	.66232	.45954 .45957	.66437	.46171 .46175	.66641	.46389 .46392	.66845 .66848	.46606 .46610	33
+ 7	9,66033	.45741	9,66239	.45961	9.66444	.46179	9.66648	.46396	9.66851	.46614	32
29	.66037	.45747	.66242	.45965	.66447	.46152	.66652	.46400	.66855	.46617	31
30	.66040	.45751	.66246	.45968	.66451	.46186	.66655	.46403	.66858	.46621	30
31	.66043	.45755	.66249	.45972	.66454	.46189	.66658	.46407	$\frac{.66862}{9.66865}$	.46625	29
+ 8'	9.66047 .66050	.45758 .45762	9.66253 .66256	.45976 .45979	9.66458 .66461	.46193 .46197	9.66662	.46414	.66868	.46632	27
34	.66054	.45765	.66260	.45983	.66464	.46200	.66669	.46418	.66872	.46636	26
35	.66057	.45769	.66263	.45986	.66468	.46204	.66672	.46421	.66875	.46639	₹5
+ 9′	9.66061	.45773	9.66266	.45990	9.66471	.46208	9.66675	.46425	9.66878	.46643 .46646	1 24
37 38	.66064 .66067	.45776	.66270	.45994	.66475	.46211	.66679	.46429 .46432	.66882 .66885	.46650	23
39	.66071	.45783	.66277	.46001	.66482	.46218	.66685	.46436	.66889	.46651	11
+ 10	9.66074	.45787	9.66280	.46005	9.66485	.46222	9.66689	.46440	9.66892	.46657	30
41	.56078	.45791	.66284	.46008	.06488	.46226	.66692	.46443	.66895	.46661	19
42	.66081	.45791	.66257 .66290	.46012 .46015	.66492	.46229	.66696	.46447 .46451	.66899 .66902	.46665 .46663	18
$\frac{43}{+11'}$	9,66088	.45798	9,66294	.46019	9,66499	.46237	9,66702	.46454	9 66905	.46672	16
45	.66092	.45505	.66297	.46023	06562	.46240	.66706	.46458	,66909	.46675	1.5
46	.66095	.45809	.66301	.46026	.66505	.46214	.66709	.16461	.66912	.46679	1.1
47	.66098	.45812	.66304	.46030	.66509	.46247	.66713	46465	.66916	.166-3	15
+ 12'	9.66102	.45816	9.66307	.46034	9.66512 $.66516$	.46251 .46255	9.66716	.46169 .46172	9.66919 .66922	.46656 .46690	12
49 50	.66105 .66109	.45820	.66311	.46041	.66519	.46258	.66728	.46476	.66926	.46694	10
51	.66112	.45827	.66318	.46041	.66522	.46262	.66726	.46480	.66929	.46697	1.2
+ 13	9.66116	.45*31	9.66321	.46045	9,66526	.46266	9,66730	.46483	9.66932	.16701	1 5
53	.66119	.45534	.00025	.46052	.66529	.46269	.66733	.46497	.66936	.46701	6
54 55	.66122 .66126	.45835	.66328	.16055 .46059	.66536	.46276	.66740	.46494	.66943	.46712	5
+ 14'	9.66129	45545	9,66335	.46063	9,66539	.46250	9.66743	.46498	9,66946	.46715	1 :
57	.66133	.45549	.00338	.46066	.66543	.46284	.66747	.46501	.66919	.16719	Ĺ
58	.66136	.4553	.66342	46070	.66546 .66550	.46287	.66750 .66753	.16505 .46509	.66956 .66956	.46723	1
59	.66140	.45%60	_,66345 	.46073	9.66553	.46295	9.66757	.46512	9.66959	.46730	1 7
+ 15'	9.66143	10000		1							
	18h	1911	18h	1.cm	18h	17m	18h	16m	18h	$15^{m}$	1

Page 880]

TABLE 45.

	5h 45m	86° 15′	5h 46m	86° 30′	5h 47m	86° 45′	5h 48m	87° 0′	5h 49m	87° 15′	
s	Log. Hav.	Not. Hay.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, Hav.	S
U	9,66959	.46730	9.67161	.46948	9.67362	.17165	9.67562	.47383	9.67762	.47601	60
2	.66963	.46733	.67165 .67168	.46951 .46955	.67366 .67369	.47169	.67566 .67569	.47387 .47390	.67765 .67768	.47605 .17608	59 58
ű	,66970	.46741	.67171	.46958	.67372	.17176	.67572	.17391	.67772	.47613	57
+ 1	9.66973	.46744	9.67175	.46962	9.67376	.47150	9.67576	47395	9.67775	.47616	56
5	.56976	.16748	.67178	.46966	.67379	.47184	.67579	.47401	.67778	.47619	55
ri n	,9698 <b>0</b> ,66983	.46752	.67181 .67185	.16969	.67382 .67386	.47157 .47191	.67582 .67586	.17195	.67782 .67785	.47623	54 53
+ 2'	9.66986	.46759	9.67188	.16977	9.67389	47194	9,67589	.17413	9.67788	.47630	52
9	.66990	.16762	.67192	.46950	.67392	.47198	.67592	.17416	.67792	.17634	51
10 11	.66993	.46766	.67195 .67198	.46984	.67396 .67399	.17202	.67596 .67599	.17420	.67795 .67798	.47637 .47641	50 49
+ 3'	9,67000	.46773	9,67202	46991	9.67402	47209	9,67602	47427	9.67801	.17645	48
$T_{IJ}$	.67003	.16777	.67205	.46995	.67406	.47213	.67606	.47430	,67805	.17648	47
1.7	.67007	.46781	.67208	.46998	.67409	.47216	67609	.47434	.67808	.47652	46
15	.67010	.46784	.67212	.47003	.67412	.47220	.67612	.47435	.67811	17656	45
+ 4'	9.67013 .67017	.46758	9,67215 ,67218	.47006	9.67416 .67419	.47223	9.67616 .67619	.47441	9.67815 .67818	.47659	44
18	.67020	.46795	.67222	.17013	.67422	.47231	.67622	.17449	.67821	.47666	43
19	.67023	.46799	.67225	47017	.67426	.17234	.67626	.47452	67825	.47670	41
+ 5'	9.67027	.46802	9.67228	.47020	9.67429	.47238	9,67629	.47456	9.67828	.47674	40
21 22	.67030 .67034	.16806 .16810	.67232 .67235	.47024	.67432 .67436	.47242	.67632 .67636	.47459 .47463	.67831 .67835	.17677 .17651	39 38
22	,67037	.16813	.67238	.47031	.67 439	.17219	.67639	.17167	.67838	.47685	37
6'	9.67040	.46847	9,67242	.17025	9.67443	.47252	9.67642	.47170	9.67841	.47655	36
.5	.67014	.46821	.67245 .67249	.47038	.67446	.17256	.67646	.47174	.67841	.47692	35
26	.67050	.16828	.67252	.17016	.67449 .67452	.47260	.67649 .67652	.47481	.67851	.47699	34
+ 7	9,67054	.16831	9.67255	.47019	9,67456	-,17267	9,67656	.17485	9,67854	.47703	32
.25	.67057	.46835	.67259	.17053	.67459	.47271	.67059	.47459	.67858	.47706	31
30 51	.67060	.46839	,67262 ,67265	.17056 .17060	.67466	.47271	.67662 .67666	.47496	.67861	.47710	30 29
	9.67067	.46816	9,67269	.17061	9.67469	.17252	9.67669	.17499	9.67868	.17717	28
.1.7	.67071	.16850	.67272	.47067	.67472	.17285	.67672	.47503	.67871	. 17721	27
-7.7	.67074	.16853	67275	.17071	.67476	.17259	.67675	.47507	.67874 .67878	.47725	26 25
	.67077 9.67081	.16557	9.67282	.17075	.67479 9.67483	.17292	.67679 9.67682	.47511	9,67881	.47732	52
111	.67084	.16564	.67285	.17052	.67486	.17309	,67685	.17518	.67551	.17735	23
0.8	.67087	.16868	.67289	.17056	.67489	.47303	.67689	.47524	.67887	.17739	- 22
+ 10'	.67091 9.67094	.16871	.67292 9.67295	.17059	.67493 9.67496	.47307	$\frac{.67692}{9.67695}$	.47525	9,67891	.17743	21
+ 10	.67097	.16579	.67299	.17096	67499	.47314	.67699	.17532	.67897	.17750	19
7.2	.67101	.46882	.67302	.17100	,67503	.47318	.67702	.47536	67901	.47754	18
93	.67104	.16556	67305	. 17101	.67506	.47321	.67705	.47539	.67904	47757	17
+ 11'	9.67108	.46890	9.67309	.47107	9.67509	.47325	9.67709 .67712	.47543	9,67907 -57911	.47761	16 15
46	.67114	.46897	.67315	.17115	.67516	.47332	.67715	.47550	.67914	.17768	14
	.67118	.46900	.67319	.47118	.67519	.17336	.67719	.47554	.67917	.47773	1.3
+ 13	9.67121 $.67124$	.46904	9.67322 .67326	.47122	9 67522 .67526	.47340	9.67722	.4755%	9,67920 .67924	.47775	12 11
50	.67128	.46911	.67329	.17129	.67529	.47317	67729	.17565	.67927	.17783	10
- 51	.67131	.46915	.67332	.47123	,67532	.47351	67732	.47568	.67930	.47756	9
+ 13	9 67134	.46919	9.67336	.47136	9,67536	.17354	9.67735	.47572	9 67934	.47790	8
53 53	.67138 .67141	.16932	67339 67342	.17114	.67539 .67542	.47358	.67738 .67742	.47576	.67937	.47797	6
55	.67145	.16929	67346	.47147	.67546	.17365	.67745	.17583	.67941	.47801	5
+ 14"	9.67148	.16933	9.67349	.47151	9 67549	.47369	9 67748	.17587	9 67947	.17805	4
57 58	.67151 .67155	.46937	.67352 .67356	.17155	.67552 .67556	.47372	.67752 .67755	.47590	.67950 .67953	.17808	3
59	.67158	.16944	.67359	.47163	,67559	.47380	67758	.17597	.67957	.17815	ĩ
+ 15	$\overline{9}.67161$	.46948	9.67362	. 17165	9 67562	.47383	9.67762	. 17601	9,67960	.47819	0
	184	1,70	- · 18h	1.0	150	1 90	18h	11m		i in	
					<u> </u>		1		1		<u> </u>

	5 h 5(jm	87° 30′	5h 51m	87° 45′	5h 52m	88° 0′	5h 5.5m	88° 15′	5h 54m	88° 30′	
s	Log, Hav.	Nat. Hav	Log. Hav.	Nat, Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	S
0	9.67960	.47819	9.68158	.48037	9.68354	.48255	9.68550	.48473	9.68745	.48691	60
2	.67963	.47823	.68161	.48041	.68358	.48259	.68553	.48477	.68748	.18695	59 .
3	.67967 .67970	.47826 .47830	.68164 .68167	.48044 .48048	.68361 .68364	.48262 .48266	.68557 .68560	.48480 .48484	.68751 .68755	.48698 .48702	58 57
+ 1'	9.67973	.47834	9.68171	.48052	9.68367	.48269	9.68563	.48158	9.68758	.48706	56
5	.67977	.47837	.68174	.48055	.68371	.48273	.68566	.48491	.68761	.48709	55
6	.67980	.47841	.68177	.48059	.68374	.18277	,68570	.48495	.68764	.48713	54
$\frac{7}{+2'}$	.67983	.47844	.68181	.48662	.68377	.48280	.68573	.48499	.68768	.48717	53
+ 2'	9.67986	.47848 .47852	9.68184	.48066 .48070	9.68380 .68384	.48284 .48288	9.68576 .68579	.48502 .48506	9.68771 .68774	.48720 .48724	53 51
10	.67993	.17855	.68190	.48073	.68387	.48291	.68583	.48500	.68777	.48728	50
11	.67996	47859	.68194	.48077	.68390	.48295	.68586	.48513	.68781	.48731	49
+ 3'	9.68000	.47863	9.68197	.48081	9,68393	.48299	9.68589	.48517	9.68784	.48735	48
13 14	.68003	.47866 .47870	.68200	.48084	.68397 .68400	.48302 .48306	.68592 .68596	.48520 .48524	.68787	.48738 .48742	47
15	.68010	.47874	.68207	.48093	.68403	.48310	.68599	.48528	.68790 .68794	.48746	46 45
+ 4'	9.68013	.47877	9.68210	.48095	9.68407	.18313	9,68602	.48531	9.68797	.48749	44
17	.68016	.17881	.68213	.48099	.68410	.48317	.68605	.48535	.68800	.48753	43
18	.68019	.47884	.68217	.48102	.68413	.48320	.68609	.48538	.68803	.48757	42
+ 5'	9.68023	$\frac{.47888}{.47892}$	$\frac{.68220}{9.68223}$	.48106	9.68420	.48324	$\frac{.68612}{9.68615}$	.48542	9.68810	.48760	$\frac{41}{40}$
21	.68029	.47895	.68223	.48113	.68423	.48331	.68618	.48549	.68813	.48767	39
22	.68033	.47899	.68230	.48117	.68426	.48335	.68622	.48553	.68816	.48771	38
23	.68036	.47903	.68233	.48121	.68429	.48339	.68625	.48557	.68820	.48775	37
+ 6'	9.68039	.47906	9.68236	.48124	9.68433	.48342	9.68628	.48560	9.68823	.48778	36
25 26	.68042 .68046	.17910 .47913	.68240 .68243	.48128 .48131	.68436 .68439	.48346 .48350	.68631 .68635	.48561 .48568	.68826 .68829	.48782 .48786	35 34
27	.68049	.47917	.68246	.48135	.68442	.48353	.68638	.18571	.68832	.48789	33
+ 7	9.68052	.47921	9.68249	.48139	9.68446	.48357	9.68641	.48575	9,68836	.48793	33
29	.68056	.47924	.68253	.48142	.68449	.48360	.68644	.48578	.68839	.48797	31
30	.68059	.47928	.68256	.48146	.68452	.18364	.68648	.48582	.68842	.48800	30
31	.68062	.47932	.68259 9.68263	.48150	.68456	-48368	.68651 9.68654	$\frac{.48586}{.48589}$	9.68845	.48804	$\frac{29}{28}$
+ 8'	9.68066	.47935 .47939	.68266	.48153 .48157	9.68459	.48371	.68657	.48593	.68852	.48811	27
34	.68072	.47943	.68269	.48161	.68465	.48379	.68661	.48597	.68855	.48815	26
35	.68075	.47946	.68272	.48164	.68469	.48382	.68664	48609	.68858	.48818	25
+ 9'	9.68079	.47950	9.68276	.48168	9.68472	.48386	9.68667	.48604	9.68862	.48822	24
87 38	.68082	.47953	.68279 .68282	.48171 .48175	.68475 .68478	.48389 .48393	.68670	.48608 .48611	.68865 .68868	.48826 .48829	23
39	.68089	.47961	.68286	.48179	.68482	.48397	.68677	.48615	.68871	.48833	21
+ 10'	9.68092	.47964	9.68289	.48182	9.68485	.48400	9.68680	.48618	9.68875	.48837	30
41	.68095	.47968	.68292	.48186	.68488	.48404	.68683	.48622	.68878	.48840	19
42 43	.68098 .68102	.47972 .47975	.68295 .68299	.48190 .48193	.68491 .68495	.48408	.68687 .68690	.48626	.68881	.48844 .48847	18 17
+ 11'	9.68105	.47979	9.68302	.48197	9.68498	.48415	9.68693	.48633	9.68887	.48851	16
45	.68108	.47983	.68305	.48201	,68501	.48419	.68696	.48637	.68891	.48355	15
46	.68112	.47986	.68308	.48204	.68504	.48422	.68700	.18640	.68894	.48858	14
47	.68115	.47990	.68312	.48208	.68508	.48426	.68703	.48644	.68897	.48862	13
+ 12'	9.68118 .68121	.47993 .47997	9.68315 .68318	.48211 .48215	9.68511 .68514	.48429 .48433	9.68706	.48648	9.68900 .68904	.48869	$\frac{12}{11}$
50	.68125	.48001	.68322	.48219	.68517	.48437	.68713	.18655	,68907	.48873	10
51	.68128	.48004	.68325	.48222	.68521	.48440	.68716	.48658	.68910	.48877	9
+ 13'	9.68131	.48008	9.68328	.48226	9.68524	.48444	9.68719	.48662	9.68913	.48880	8
53	.68135	.48012 .48015	.68331	.48230 .48233	.68527 .68531	.48448	.68722	.48666 .48669	.68917 .68920	.48884	7 6
54 55	.68138 .68141	.48019	.68335 .68338	.48237	.68534	.48455	.68729	.48673	.68923	.48891	5
+ 14'	9.68144	.48022	9.68341	.48241	9.68537	.48459	9.68732	.48677	9.68926	.48895	
57	.68148	.48026	.68344	.48244	.68540	.48462	.68735	.18680	.68929	.48898	4302
58	.68151	.48030	.68348	.48248	.68544	.48466	.68739	.48684 .46688	.68933	.48902 .48906	1
$\frac{-59}{+15'}$	.68154 9.68158	.48033	$\frac{.68351}{9.68354}$	.48251	$\frac{.68547}{9.68550}$	.48469	.68742 9.68745	.48691	9.68939	,48909	-0
T 15											
	18h	9m	18h	gm	18h	7m	18h	$6^m$	18h	$5^m$	

L					Haversii	ites,					_
	5h 55m	88° 45′	5h 56m	59° 0'	5h 57m	89° 15′	5h 58m	89° 30′	5h 59m	89° 45′	
8	Log. Hav.	Nat, Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	5
$\theta$	9.68939	.45909	9.69132	.49127	9.69325	.49346	9.69516	.49564	9.69707	.49782	60
1	.68942	.48913	.69136	.49131	.69328	.49349	.69520	.49567	.69710	.49785	59
2	.68946	.45917	.69139	.49135	,69331	.49353	.69523	.49571	.69713	.49789	58 57
3	.68949	.45920	.69142	.19138	.69334	.49356	.69526	.49575	.69717	.49793	56
+ 1/	9.68952 .68955	.48924	9.69145 .69148	.49142	9.69338 .69341	.49360 .49364	9.69529 .69532	.49578 .49582	9.69720 .69723	.49796 .49800	55
6	.65958	.48931	.69152	.49149	.69344	.49367	.69535	.49585	.69726	.49504	54
7	.68962	.48935	.69155	.49153	.69347	.49371	.69539	.49589	.69729	.49507	53
+ 27	9.68965	.45938	9.69158	49156	9.69350	49375	9.69542	.49593	9.69732	.49811	52
9	.68968	.48942	.69161	.49160	.69354	.49378	.69545	.49596	.69736	.49515	51
10	.68971	.48946	.69164	.49164	.69357	.49352	.69548	.49600	.69739	.49818	50
11	.68975	.48949	.69168	.49167	.69360	.49346	.69551	.49604	.69742	.49522	49
+ 3'	9.68978	.48953	9.69171	.49171	9.69363	.49359	9.69555	.49607	9.69745	.49825	48 47
13 14	.68981 .68984	.48957	.69174 .69177	.49175	.69366	.49393 .49396	.69558 .69561	.49611	.69748 .69751	.49533	46
15	.68988	.48964	.69181	.49182	.69373	.49400	.69564	.49618	.69755	.49836	45
+ 4'	9.68991	.48967	9.69184	.49156	9.69376	.49404	9.69567	.49622	9.69758	.49540	44
17	.68994	.48971	.69187	.49189	.69379	.49407	.69570	.49625	.69761	.49844	43
18	.68997	.48975	.69190	.49193	.69382	.49411	.69574	.49629	.69764	.49547	42
19	.69000	.48978	.69193	.49196	.69386	.49415	.69577	.49633	.69767	.49851	41
+ 5'	9,69004	.48982	9.69197	.49200	9,69389	.49418	9.69580	.49636	9,69770	.49555	40
21	.69007	.48986	.69200	.49204	.69392	.49422	.69583	.49640	.69774	.49558	39 38
23	.69010	.48993	.69203 .69206	.49207	,69395 .69398	.49426	.69586 .69590	.49644	.69777	.19565	37
+ 6'	9.69017	.15997	9.69209	49215	9.69402	.49433	9.69593	.49651	9 69783	.49569	36
25	.69020	.49000	.69213	.49218	.69405	.49436	69596	.49655	.69786	.49873	35
26	.69023	.49004	.69216	.49222	.69408	.49440	.69599	.49658	.69789	.49876	34
27	69026	.49007	.69219	.49226	.69411	.49444	=.69602	.49662	69793	.49%50	33
+ 7	9.69029	.49011	9,69222	.49229	9.69414	.49417	9.69605	.49665	9,69796	.49554	32
29	.69033	.49015 .49018	.69225	.49233	.69417	.49451	.69609	.19669	.69799 .69802	.49557	31 30
30 31	.69036 .69039	.49022	.69229 .69232	.49236	.69421 .69424	.49455	.69612 .69615	.49673	.69805	.49595	29
+ 8'	9.69042	.49026	9,69235	.49244	9.69427	-,49462	9.69618	.49680	9.69808	49898	28
53	,69046	.49029	,69238	.49247	.69430	.49465	.69621	.49684	.69812	.49903	17
34	.69049	.49033	.69242	.49251	.69433	.49469	.69625	.49657	.69815	.49905	6
35	.69052	.49036	.69245	49255	.69437	.49473	.69628	.49691	.69818	.49909	.5
+ 9'	9,69055	.49040	9 69248	.49258	9.69440	.49476	9.69631	.19695	9.69821 .69824	.49913	24 23
37 38	.6905S .69062	.49047	.69254 .69254	.49262	.69443 .69446	.49450 .49454	.69634 .69637	.49698 .49702	100827	.49920	1
39	.69065	49051	69258	.49269	.69449	.19157	.69640	.49705	69831	.49924	21
+ 10"	9,69068	.49055	9,69261	.49273	9,00453	.19491	9.69644	.19709	9,698.14	49937	20
-41	.69071	.19058	69261	.49276	,69456	.49495	.69647	.49713	.69837	.49931	13
44	.69074	.49062	,69267	.49280	69459	.49498	.69650	.49716	,69840	.49935	18
4.3	.69075	.19066	69270	.49354	.69462	.19502	69653	.49720	.69843	.4993%	$\frac{L}{16}$
+ 11'	9,69081	.19069	9.69274	.49287	9,69465	.49506	9,69656 .69659	.49724	9.69546	.49942	15
-,6	69087	.49076	69280	.49295	69472	.19513	,69663	.49731	69853	.49949	13
17	69091	.19050	69283	.49298	69175	.49516	,69666	.49735	.69856	.49953	13
12	9,60094	.49054	9,69286	.19302	9 69478	.49500	9,63669	.49738	9.69859	.49956	12
90	,69097	.190%7	.69290	.49396	.69481	.49524	.69672	.49742	,69862	.49960	11
50	.09100	.49094	.69293	.19309	,69484	.49527	,69675	.49745	.69865	.49964	10
51	.69103	.19095	,69296	.49313	,69488	49531	,63678	49749	.69869 9.69872	$\frac{.49967}{.49971}$	8
+ 13'	9,69107	.19098	9,69299	.49316	9 69 191 .69 194	.49535 .49538	9,60682 67685	.49753 .49756	69875	.49975	1 7
53	69113	,19106	,69302	.19324	69197	.49542	0.058	.19760	69878	.19978	6
5.7	.69116	.19109	.69309	.49327	69500	.49545	,69691	.49764	.69881	.19982	
- 14	9,00120	.19113	9.69342	.49331	9.69501	.49549	9,60694	.49767	9.69884	.19955	
57	69123	.19116	.69315	.19335	,69507	.49553	69698	.49771	.6988	.19959	1
58	0.126	.19120	.69318	.19338	.69510	.49556	69,61	.49775	.69891	.19993	
19	1.00	. (912)	0.0029	.19342	69543	19560	19701	.19778	10201	. 19997	1
15	12.	.18117	9 (7),25	,19316	the state	.19561	919 07	.49783	9.6989.	.50000	
			18	1,000	187		18		181	171 1	1
1	į.		1		1		1		1		1

TABLE 45.

	6h 0m	90° 0′	6h 1m	90° 15′	6h 2m	90° 30′	6h 3m	90° 45′	6h 4m	91 0'	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. II iv.	S
0	9,69897	.50000	9.70086	.50218	9.70274	.50436	9.70462	.50654	9.70648	.50.573	60
1	.69900	.50004	.70089	.50222	.70277	.50440	.70465	.50658	.70652	.59576	59
2	.69903	.50007	.70092	.50225	.70281	.50444	.70468	.50662	.70655	.50880	
3	.69906	.50011	.70096	.50229	.70284	.50447	.70471	.50665	.70658	.50884	57
<del>+</del> 1'	9.69910	.50015	9.70099	.50233	9.70287	.50451	9.70474	.50669	9.70661	.50587	56
5 6	.69913	.50018	.70102 .70105	.50236 .50240	.70290 .70293	.50455 .50458	.70477 .70480	.50673 .50676	.70661 .70667	.50891 .50894	55
7	.69919	.50025	,70108	.50244	.70296	.50462	.70484	.50680	.70670	.50598	54 53
+ 2'	9.69922	.50029	9.70111	.50247	9.70299	.50465	9.70487	.50684	9.70673	.50902	52
9	.69925	.50033	.70114	.50251	.70303	.50469	.70490	.50687	.70676	.50905	51
10	.69929	.50036	.70118	.50255	.70306	.50473	.70493	.50691	.70679	.50909	50
11	.69932	.50040	.70121	.50258	.70309	.50476	.70496	.50694	.70683	.50913	49
+ 3′	9.69935	.50044	9.70124	.50262	9.70312	.50480	9.70499	.50698	9.70686	.50916	48
13 14	.69938	.50047 .50051	.70127 .70130	.50265 .50269	.70315	.50484	.70502 .70505	.50702	.70689	.50920	47
15	.69944	.50055	.70133	.50273	.70318 .70321	.50491	.70509	.50709	.70692 .70695	.50924 .50927	46 45
+ 1/	9.69948	.50058	9.70136	.50276	9.70324	.50495	9.70512	.50713	9.70698	.50931	44
17	.69951	.50062	.70140	.50280	.70328	.50498	.70515	.50716	.70701	.50934	43
18 .	.69954	.50065	.70143	.50284	.70331	.50502	.70518	.50720	.70704	.50938	42
19	.69957	.50069	.70146	.50287	.70334	.50505	.70521	.50724	.70707	.50942	41
+ 5'	9,69960	.50073	9.70149	.50291	9.70337	.50509	9.70524	.50727	9.70710	.50945	40
21 22	.69963	.50076 .50080	.70152 .70155	.50295 .50298	.70340	.50513 .50516	.70527 .70530	.50731 .50734	.70714	.50949 .50953	39
23	.69966	.50084	.70155	.50302	.70343 .70346	.50520	.70533	.50738	.70717 .70720	.50956	38 37
+ 6'	9.69973	.50087	9.70161	.50305	9.70349	.50524	9.70537	.50742	9.70723	.50960	36
25	.69976	.50091	.70165	.50309	.70353	.50527	.70540	.50745	,70726	.50964	35
26	.69979	.50095	.70168	.50313	.70356	.50531	.70543	.50749	.70729	.50967	34
27	.69982	.50098	.70171	.50316	.70359	.50534	.70546	.50753	.70732	.50971	33
+ 7'	9.69985	.50102	9.70174	.50320	9.70362	.50538	9.70549	.50756	9.70735	.50974	82
29 30	.69988	.50105	.70177 .70180	.50324	.70365	.50542 .50545	.70552 .70555	.50760 .50764	.70738 .70741	.50978 .50982	31
31	.69995	.50103	.70183	.50331	.70308	.50549	.70558	.50767	.70745	.50985	29
+ 8'	9.69998	.50116	9.70187	.50335	9.70374	.50553	9.70561	.50771	9.70748	.50989	28
33	.70001	.50120	.70190	.50338	.70378	.50556	.70565	.50774	.70751	.50993	27
34	.70004	.50124	.70193	.50342	.70381	.50560	.70568	.50778	.70754	.50996	26
35	.70007	.50127	.70196	.50345	.70384	.50564	.70571	.50782	.70757	.51000	25
+ 9'	9.70011	.50131	9.70199	.50349	9.70387	.50567	9.70574	.50785 .50789	9.70760	.51004 .51007	24 23
37 38	.70014 .70017	.50135 .50138	.70202 .70205	.50353 .50356	.70390 .70393	.50571	.70577 .70580	.50793	.70763 .70766	.51007	23
39	.70020	.50142	70209	.50360	.70396	.50578	.70583	.50796	.70769	.51014	21
+ 10'	9.70023	.50145	9.70212	.50364	9.70399	.50582	9,70586	,50800	9.70772	.51018	20
41	.70026	.50149	.70215	.50367	.70402	.50585	.70589	.50804	.70775	.51022	19
42	.70029	.50153	.70218	.50371	.70406	.50589	.70593	.50807	.70779	.51025	18
4.3	.70033	.50156	.70221	.50375	.70409	.50593	.70596	.50811	.70782	.51029	17
+ ,11′	9.70036 .70039	.50160 .50164	9.70224 .70227	.50378 .50382	9.70412 .70415	.50596 .50500	9.70599 .70602	.50814 .50818	$9.70785 \\ .70788$	.51033 .51036	16 15
45 46	.70033	.50167	70230	.50385	.70418	.50604	.70605	.50822	70791	.51040	14
47	.70045	.50171	.70234	.50389	.70421	.59607	70608	.50825	70794	.51043	13
+ 12'	9.70048	.50175	9.70237	.50393	9.70424	.59611	9,70611	.50829	9.70797	.51047	13
49	.70051	.50178	.70240	.50396	.70427	.50614	.70614	.50833	.70800	.51051	11
50	.70055	.50183	.70243	.50400	.70431	.50618	.70617	.50836	.70803 .70806	.51054 .51055	10
51	.70058	.50185	.70246	.50404	9.70434	.50622	9.70624	.50844	9.70809	.5106?	8
+ 13'	9.70061	.50189 .50193	9.70249 .70252	.50407	.70440	.50639	70627	.50847	.70813	.51065	1 %
53 54	.70064	.50196	.70256	.50415	.70443	.50633	70630	.50851	.70816	.51069	6
55	.70070	.50200	.70259	.50418	.70446	.50636	.70633	.50854	.70819	.51073	5
+ 14'	9.70074	.50204	9.70262	.50422	9.70449	.56840	9.70636	.50858	9.70822	.51076	4
57	.70077	.50207	.70265	.50425	.70452	.50644	.70639	.50862	.70825	.51950	3
58	.70080	.50211	.70268	.50429	.70456	.50647 .50651	.70642 .70645	.50865 .50869	.70828 .70831	.51053	2 1
59	.70083	.50215	.70271	.50433	.70459 9.70462	.50654	9.70648	.50873	9.70834	.51091	0
+ 15'	9.70086	.50218	9.70274	.00±30	9.70402	*90094	3.70048	100010	0,10004	191031	ľ
l	17h	59m	17h	58m	17%	57m	17/1	56m	17h	55m .	1
L	1 1/11				1		1				

Page 884]

### TABLE 45.

	4.h 5m	91 15.	ijh ijm 9	1 30	6h 7m	91 - 45	6h sm	92° 0′	6h 9m.	92° 15′	
3	Log. Has	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s.
.,	9.70834	.51091	9.71019	.51309	9.71203	.51527	9.71387	.51745	9.71569	.51963	60
1,	.70837 .70840	.51094 .51095	.71022 .71025	.51312 .51316	.71206 .71210	.51531	.71390 .71393	.51719	.71572 .71575	.51967	59 58
1	70843	.51102	.71028	.51320	.71213	.51538	.71395	.51756	.71579	.51971	37
+ 1	9:0517	.51105	9.71032	.51323	9.71216	.51511	9.71399	.51760	9.71582	.51978	56
.5	70550	.51109	.71035	.51327	.71219	.51515	.71402	.51763	.71585	.51981	55
4	.70853	.51113	.71038	.51331	.71222 .71225	.51549	.71405	.51767	.71588	.51985	54
- 12/	.70556 9.70559	.51116	.71011 9.71044	.51334	9.71228	51559	.71408 9.71411	$\frac{.51770}{.51774}$	$\frac{.71591}{9.71594}$	.51988	53 52
7 9	.70862	.51123	.71047	.51342	.71231	.51560	.71414	.51778	.71597	.51996	51
200	.70865	.51127	.71050	.51345	.71234	.51563	.71417	.51781	.71600	.51999	50
11	70×65	.51131	.71053	.51349	.71237	.51567	.71420	.51785	.71603	52003	49
$+{}_{IJ}^{-3}$	9.70871 .70874	.51134	9.71056 .71059	.51352 .51356	9.71240 .71243	.51571	9 71423 .71426	.51789	9.71606 .71609	.52007	48
17	.70877	.51142	.71062	.51360	.71246	.51578	.71430	.51796	.71612	.52014	36
15	.70881	.51115	71065	.51363	.71249	.51581	.71433	.51799	.71615	.52018	45
+ 1'	9.70884	.51149	9.71068	.51367	9.71252	.51585	9.71436	.51803	9 71618	.52021	44
17	.70887	.51153	.71072	.51371	.71255	.51589	.71439	.51807	.71621	.52025	4-3
18 19	.70890 .70893	.51156	.71075	.51374	.71259 .71262	.51592 .51596	.71442 .71445	.51810 .51814	.71624 .71627	.52028	42
- 5	9.70896	.51163	9.71081	.51383	9.71265	.51600	9 7 1448	.51818	9.71630	.52036	30
21	.70×99	.51167	.71084	.51385	.71268	.51603	.71451	.51821	.71633	.52939	39
2.2	.70902	.51171	.71087	.51389	.71271	.51607	.71454	.51825	.71636	.52013	38
2.3	.70905	.51174	71090	.51392	.71274	.51611	71457	.51829	.71639	.52017	57
+ 6'	9,70908 ,70911	.51178	9.71093 .71096	.51396	9.71277 .71280	.51614	9.71160 .71463	.51832	9.71642 .71645	.52050	36 35
26	.7091-1	.51185	.71099	.51103	.71283	.51621	.71466	.51839	.71618	.52057	114
27	70918	.51189	71102	.51107	71286	.51625	71469	.51813	.71651	.52061	33
+ 7	9.70921	.51193	9.71105	.51111	9.71289	.51629	9.71472	.51517	9.71654	.52065	32
29 30	.70924 .70927	.51198	.71108 71111	.51111	71292 .71295	.51632	.71475	.51850 .51851	.71657 .71660	.52965	31
37	70930	.51203	1 /1111	.51122	71298	.51610	71481	.51858	71663	.52076	20
- 5'	9.709.33	.51207	9 71118	.51125	9.71301	.51613	9 71 15 E	.51561	9.71666	.52079	28
3.7	.70936	.51211	.71121	.51129	71304	.51617	.71487	.51865	.71670	.52083	27
34	.70939	.51214	.71121	.51432	71307	.51650	71490	.51869	.71673	.52057	26
+ 9'	70942 9 70945	.51218	71127 9 71130	.51436	71311 9 71314	.51651	.71493 9.71496	.51872	.71676 9.71679	.52091	25
37	.70948	.51225	.71133	.51443	71317	.51661	.71500	.51579	.71682	.52097	23
38	.70951	.51229	71136	.51117	71320	.51665	.71503	.51883	.71685	.52101	22
39	.70955	.51233	71139	.51451	71323	51669	.71506	.51887	.71688	.52105	21
+ 10'	9 70958	.51236	9 71142 .71145	.51454	9.71326	.51672	9.71509 .71512	.51890	9,71691 .71694	.52105	20 19
41	.70961 70964	.51240 .51243	.71148	.51162	.71329 .71332	.51689	.71515	.51898	.71694	.52116	18
43	70967	.51247	71151	.51165	71335	.51683	.71518	.51901	.71700	.52119	17
+ 11'	9 70970	.51251	9.71151	.51469	9.71338	.51657	9.71521	.51905	9.71703	.52123	16
-(.1	.70973	.51251	.71157	.51472	.71341	.51690	.71521 .71527	.51908	.71706	.52126	15
46	.70976 70979	.51258	.71161 71164	.51476	.71341 71347	.51694	71530	.51912	.71709	.52130	13
+ 12	9.70982	.51265	9 7 1167	.51453	9.71350	.51701	9.71533	.51919	9.71715	.52137	12
49	70985	.51269	71170	.51487	.71353	.51705	.71536	.51923	.71718	.52141	11
50	70988	.51273	.71173	.51491	71356	.51709	.71539	.51927	.71721 71724	.52145	10
-1- 13	70992 9 70995	.51276	71176 9 71179	.51494	71359 9 71362	.51712	71542 9 71545	.51930	9 71727	.52148	• 9
+ 13	70998	.51283	.71182	.51501	.71362	.51720	71545	.51935	.71730	.52156	8 7
54	.71001	.51287	71185	.51505	71369	.51723	.71551	.51941	.71733	.52159	-6
55	.71004	.51291	71153	.51508	71372	.51727	71554	.51945	.71736	.52163	5
+ 117	9.71007	.51294	9 71191	.51512	9.71375	.51730	9.71557	.51915	9.71739	.52166	4
57 58	.71010 .71013	.51298	.71194 .71197	.51516 .51520	.71378 71381	.51734	.71560 .71563	.51952 .51956	.71742 .71745	.52170	3
59	71016	.51305	71200	.51523	71381	.51741	.71566	.51959	.71748	.52177	1
- 15	9.71019	.51309	9 71203	.51527	9.71387	.51715	9 71569	.51963	9.71751	.52181	-0
	17h	54.8	17h	5.5m	17h	5?m	17h	51m	17h	$50^{m}$	

	6h 10m	92° 30′	6h 11m	92° 45′	6h 12m	93° 0′	6h 13m	93° 15′	6h 14m	93° 30′	<u> </u>
S	Log, Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	S
0	9.71751	.52181	9.71932	.52399	9.72112	.52617	9.72292	.52835	9.72471	.53052	60
2,	.71754 .71757	.52185 .52188	.71935 .71938	.52403 .52406	.72115 .72118	.52620 .52624	.72295 .72298	.52838 .52842	.72474 .72476	.53056 .53060	59
3	.71760	.52192	.71941	.52110	.72121	.52628	.72301	.52846	.72479	.53063	58 57
+ 1	9.71763	.52196	9,71944	.52413	9.72124	.52631	9.72304	.52849	9.72482	.53967	56
5	.71766	.52199	.71947	.52417	.72127	.52635	.72307	.52853	.72485	.53071	55
6	.71769	.52203	.71950	.53421	.72130	.52639	.72310	.52856	.72488	.53074	54
- 7	.71772	.52206	.71953	.52424	.72133	.52642	.72313	.52860	.72491	.53078	53
+ 3.	9.71775 ,71778	.52210 .52214	9.71956 .71959	.52428 .52432	9.72136 $.72139$	.52646 .52649	9.72316	.52864	9.72494 .72497	.53081 .53085	5.2
10	.71781	.52217	.71962	.52435	.72142	.52653	.72322	.52871	.72500	.53089	51 50
11	.71784	.52221	.71965	.52439	.72145	.52657	.72325	.52875	.72503	.53092	49
+ 3′	9.71787	.52225	9.71968	.52442	9.72148	.52660	9.72328	.52878	9.72506	.53996	48
13	.71791	.52228	.71971	.52446	.72151	.52664	.72331	.52882	.72509	.53100	47
14 15	.71794 .71797	.52232	.71974	.52450 .52453	.72154 .72157	.52668 .52671	.72334 .72337	.52885	.72512 .72515	.53103	46
+ 4'	$\frac{.71797}{9.71800}$	.52239	9.71980	.52457	9.72160	.52675	$\frac{.72337}{9.72340}$	52889 .52893	9.72518	.53107	$\frac{45}{11}$
17	,71803	.52243	.71983	.52461	.72163	.52679	.72340	.52896	.72521	.53110 .53114	44 43
18	.71806	.52246	.71986	.52464	.72166	.52682	.72346	.52900	.72524	.53118	42
19	.71809	.52250	.71989	.52468	.72169	.52686	.72349	.52904	.72527	.53121	41
+ 5′	9.71812	.52254	9 71992	.52472	9.72172	.53689	9.72352	.52907	9.72530	.53125	40
21	.71815	.52257	.71995	.57475	.72175	.52693	.72354	.52911	.72533	.53129	39
22 23	.71818 .71821	.52261 .52264	.71998 .72001	.52479 .52482	.72178 .72181	.52697 .52700	.72357 .72360	.52915 .52918	.72536 .72539	.53132 .53136	38 37
- <del>~~</del> 6/	9.71824	.52268	9.72004	.52486	9.72184	.52704	9.72363	.52922	9.72542	.53140	$\frac{37}{36}$
25	.71827	.52272	.72007	.52490	.72187	.52708	.72366	.52925	.72545	.53143	35
26	.71830	.52275	.72010	.52493	.72190	.52711	.72369	.52929	.72548	.53147	34
. 27	.71833	.5??79	.72013	.52497	.72193	.52715	.72372	.52933	.72551	.53150	33
+ 7	9.71836	.52283	9.72016	.52501	9.72196	.52718	9.72375	.52936	9.72554	.53154	33
29 30	.71839 .71842	.52286 .52290	.72019 .72022	.52504 .52508	.72199	.52722 .52726	.72378 .72381	.52940 .52944	.72557 .72560	.53158	31 30
30 31	.71845	.52294	.72025	.52511	.72202	.52729	.72384	.52947	.72563	.53165	29
+ 87	9.71848	.52297	9.72028	.53515	9,72208	.52733	9.72387	.52951	9.72565	.53169	28
33	.71851	.52301	.72031	.52519	.72211	.52737	.72390	.52954	.72568	.53172	27
34	.71854	.52394	.72034	.52522	.72214	.52740	.72393	.52958	.72571	.53176	26
35	.71857	.52308	.72037	.52526	.72217	.52744	.72396	.52962	.72574	.53179	25
+ 9'	9.71860 .71863	.52312 .52315	9.72040 .72043	.52530 .52533	9.72220 .72223	.52748 .52751	9.72399 .72402	.52965 .52969	9.72577 .72580	.53183 .53187	24 23
38	.71866	.52319	.72046	.52537	.72226	.52755	.72405	.52973	.72583	.53190	22
39	.71869	.52323	.72049	.52541	.72229	.52758	.72408	.52976	.72586	.53194	21
+ 10'	9.71872	.52326	9.72052	.52544	9.72232	.52762	9.72411	.52980	9.72589	.53198	20
41	.71875	.52330	.72055	.52548	.72235	.52766	.72414	.52983	.72592	.53201	19
42	.71878	.52334	72058	.52551	.72238 .72241	.52769	.72417 .72420	.52987	.72595 .72598	.53205 .53208	18
+ 11'	.71881 9.71884	.52337	$\frac{.72061}{9.72064}$	.52555	9.72244	52773 52776	9.72423	52991 52994	9.72601	.53212	$\frac{17}{16}$
+ 11' 45	.71887	.52344	.72064	.52562	.72244	.52780	.72426	.52998	,72601	.53216	15 15
46	.71890	.52348	.72070	.52566	.72250	.52784	.72429	.53002	.72607	.53219	14
47	.71893	.52352	.72073	.52570	.72253	.52787	.72432	53005	.72610	53223	13
+ 12'	9.71896	.52355	9.72076	.52573	9.72256	.52791	9.72435	.53909	9.72613	.53227	12
49	.71899	.52359	.72079	.52577	.72259 .72262	.52795	.72438 .72441	.53013	.72616 .72619	.53230	11
50 51	.71902 .71905	.52363 .52366	.72082 .72085	.52580 .52584	.72262	.52798 .52802	.72441	.53016 .53020	.72619	.53234 .53238	10
$\frac{31}{+13'}$	9.71908	.52370	9.72088	.52588	9.72268	.52806	9,72447	.53023	9.72625	.53241	8
53	.71911	.52373	.72091	.52591	.72271	.52809	.72450	.53027	.72628	.53245	7
54	.71914	.52377	.72094	.52595	.72274	.52813	.72453	.53031	.72631	.53248	6
55	.71917	.52381	.72097	.52599	.72277	.52816	.72456	53034	.72634	.53252	5
+ 14'	9.71920	.52384	9.72100 .72103	.52602 .52606	9.72280 .72283	.52820 .52824	9,72459 ,72462	.53038 .53042	9.72637 .72640	.55256 .53259	4
57 58	.71923 .71926	.52388 .52392	.72103	.52606	.72283	.52827	.72462	.53043	.72640	.53263	2
59	.71929	.52395	.72119	.52613	.72289	.52831	.72468	.53049	.72645	.53267	1
+ 15'	9,71932	.52399	9.72112	.52617	9.72292	.52835	9.72471	.53052	9.72648	.53270	0
	17h	49m	17h	48m	17h	47m	17h	$46^{m}$	17h	4.5m	

0		6h 15m	93° 45′	6h 16m	94° 0′	6h 17m	94° 15′	6h 18m	94° 30′	6h 19m	94° 45	
1		Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
\$\frac{9}{5}   \frac{7}{2057}   \frac{32277}{3228}   \frac{7}{22887}   \frac{7}{22887}   \frac{7}{22887}   \frac{7}{22887}   \frac{7}{238499}   \frac{7}{2301}   \frac{5}{3316}   \frac{7}{33389}   \frac{7}{2303}   \frac{7}{2316}   \frac{1}{5} \frac{1}{5}   \frac{7}{2266}   \frac{7}{2266}   \frac{7}{2266}   \frac{7}{22887}   \frac{7}{23889}   \frac{7}{2301}   \frac{7}{2316}   \frac{7}{2318}   \frac{7}{23894}   \frac{7}{23807}   \frac{7}{23180}   \frac{7}{23187}   \frac{7}{23192}   \frac{7}{23191}   \frac{7}{23167}   \frac{7}{23180}   \frac{7}{23191}   \frac{7}{23191}   \frac{7}{23167}   \frac{7}{23180}   \frac{7}{23191}   \frac{7}{23191}   \frac{7}{23191}   \frac{7}{23191}   \frac{7}{23191}   \frac{7}{23167}   \frac{7}{23180}   \frac{7}{23191}   \frac{7}{231												
## 1	1			.72828								
H   1   9,2960   31285   9,7287   3,5300   7,5301   5,3320   9,7318   3,5391   7,7367   5,1159   5,5												
5         7.2663         53298         7.2840         53506         7.3060         53724         7.3195         53955         7.3370         51162         54           7         7.2666         53296         7.2846         53513         7.3022         53331         7.3195         53395         7.3370         51162         54           4         2.7967         53296         7.2886         53513         7.3022         53331         7.3195         53395         7.3375         51169         2           19         7.2976         53393         7.2882         5.3520         7.3031         53716         7.3028         53338         7.3941         53052         7.3031         53116         7.3285         51173         6           10         7.2081         53311         7.2881         .53382         7.3031         5315         7.3269         53962         7.3385         51173         6           11         7.2081         53317         7.2881         .53537         7.3010         53353         7.3215         53903         7.3385         51173         6           13         7.2083         53332         7.2876         .53533         7.3010         53353         7.3021 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>												
T		.72663	.53288	.72840			.53724	.73192	.53941	.73367	.54159	55
Page		72666	.53292									
Page												
11												
11		72678										
14	11	.72681	.53310		.53528	.73034	.537 15		.53963		.54150	49
14		9.72684		9.72861.								
16		.72687										
+ 4		72693										
17									_			
19	17	.72699	.53332	.72876	.53549	.73052	.53767	.73227	.53985	.73402	.54202	4.8
+ 5												
Page							-				_	
\$\frac{2}{23}												
1.5	27			.72890							.51220	
Page		.72716		.72893								
Page												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.72722										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		72725		72902				72956				
Page												
39		70734	.53375	.72911								
+ 87   9.12748   5.3396   9.72929   5.3604   9.73996   5.5824   9.73274   5.1039   9.73445   5.1236   28   28   27   27   27   28   28   28		.72737		.72914								
33									war.			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		9.12743										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		72749						.73277				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		.72752										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		9.72755		$9.7293\overline{1}$			.53536			9.73457	.51271	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.72758		.72934				.73285		.73 660	.51274	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		79761		72937				73201				
1									_			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.72770	.53119	.72946		.73122	.53854	.73297		.73471		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	34	.72772						.73300				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		70794		79059								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		172781		72961		.73126				73486		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		72787		.72961		.73439						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 13									9,73491		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.72793		.72970						.73 194		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		72796						73326				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0. 20500		0.79978							,	
54         72808         53466         72984         53684         73400         53901         73335         54119         73509         54366         6           55         12841         53170         72987         53687         13102         53908         7338         54122         73512         5140         5           + H7         9,2841         53473         9,72990         53691         9,7316         53908         9,7311         54126         9,73315         51343         3           58         72847         53474         72993         53698         73172         53916         73316         54130         73517         54317         3           59         72823         53184         72999         53302         73172         53919         73349         54137         73523         54351         2		70505		.72981		.78157	.53898			.73506	.54332	7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	51	72308		.72984		.73160						- 6
52   .72817   .53477   .72908   .53698   .73108   .53912   .73343   .51430   .73547   .54417   .3   .58   .72820   .53484   .72906   .53698   .73172   .53916   .73346   .54133   .73520   .54351   .2   .59   .72823   .53484   .72908   .53402   .73474   .53919   .73349   .54137   .73523   .54351   .7   .7   .7   .7   .7   .7   .7   .												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		9.72514		9.72990					51126			-5
59 72823 53484 72999 533702 73174 53919 73349 54137 73523 51354 1		1753261		72996						73520		
$+$ 13 7 9.72825   .53488   9.73002   .53705   9.73177   .53923   9.73352   .54140   9.73526   .54358   $\overline{\theta}$	59		.53181									
	+ 157	9,72825	.531%	9.73002	.53705	9.73177	.53923	9 73352	.54140	9,73526	.54358	U
17h 4. 17h 4.4m 17h 4.4m 17h 3.4m 17h 5.4m		1:4	i	171	\$.1m	17 h	4. m	17 h	\$1m	17h	i /m	

						11	laversin	68.								-1
			1		0.7.3	(-/ I	6h ?:m (	352 307	61	23m 9	5° 45′	$6^h$	24m	$96^{\circ}$ 0	1	1
		m 95		6h 31r		-		Nat. Ha	-1		Nat. Hav.	Log.	Hav.	Nat. I	Iav.	s
S	Log. Ha	v. N	at, Hav.	Log, Ha					-1-	4044	.55009	9.74	215	.55%	26 6	0
0	9.7355		.54358	9.73699	.5		73872	.5479 .5479		74047	.55013	.74	218	.55%	30   5	9
1	.735	$29 \mid$	.54361	.7370	2 .54	1579	.73875 .73878	.5480		74049	.55017	.74	220	.55%		18
2	.735	32	.54365	.7370		4582	.73881	.5480		74052	.55020		223	.55		57
S	.735	35	.54369	.7370		4586	3.73883	.5480		74055	.55024	9.7-	1226	.55		56
+ 1'	9.735		.54372	9.7371		1000	.73886	.548		74058	.55028	1.74	1229	.55		55
5	.735	41	.54376	.7371		4593   4597	73889	.548	11 .	74061	.55031		1232	.55		54 53
6	.735	44	.51380	.7371 .7372		4600	73892	.518	18 .	74064	.55035		4235			
7	.735		.54383				9.73895	.548	21 9.	74067	.55038		4237			52 51
+ 3'	9.735	49	.54387	9.7375 .7375	12 · 0	4608	.73898	.548	25	74069	.55042		4240			50
9	.735	552	.54390	737	100	54611	.73901	.548	28	74072	.55046		4243	1		49
10	,735		.54394 .54398	737		54615	.73903	.548	335	.74075	.55049		4246			48
11	.733			9.737		54619	9.73906	.548		.74078	.55053		$\frac{4249}{4252}$		273	47
3'	9.73		.54401	737.	27	54622	.73909	.548		.74081	.55050		4254			46
13	.73		.54405 .54409	737	40	54626	.73912	.548		.74084	.5506 .5506		4257		5281	45
14	.73		.54412			54639	.73915			.74087			4260	_	5284	44
15		570	.54116			54633	9.73918	.548		.74089		1 9.	74263		5288	43
+ 4	9.73	575	.54419			54637	.73921	.54	854	.74092			74260	.5	5292	42
17		575 578	.54423			54640	.73924	.54	557	.74095			7426		5295	41
18 19		581	.54427			54644	.73920	-	861	.74098	_		7427	_	5299	40
	9.73		.54430	9.737	57	54647	9.73929			74101. 74104.			7427	4 .5	5302	39
+ 21		587	.54434		60	.54651	.7393		868	.74104			7427		5306	38
92		3590	.5443		763	.54655	.7393		872 1876	.74100			7428		5310	37
23		3593	.5444			.54658	,7393	-		9.7411	-	6 9	7428		5313	36
		3596	.5111			.54662	9.7394		1879 1883	.7411		ю і	.7428	6 .	55317	35
$+_{25}^{6}$		3598	.5444	3 .73		.54666	.7394		1886	.7411		)3	.7428	39   4	55320	34
26		3601	.5445	2 .73		.54669	.7394		1890	.7412			.7429		55324	33
27		3604	.5445	6 .73		.54673			4894	9.7412		11 9	.7428		55328	32
		3607	.5445	9 9.73		.54676	9.7395		1897	.7412		14	.7429		55331	31
29		3610	.5446	3 .73	783	.54680			4901	.7412			.7430		55335	30
30		3613	.5446		786	.54684			4904	.7413	2 .551	22	.7430		55339	29
31	. 7	3616	.5447	_	789	.54687			4908	9.7413	5 .551		.7436		55342	28
+	8' 9.7	3619	.5117	4 9.73		.54691			4912	.7413	8 .551		.743		55346	1
33	1.7	3622	.5417	7 .73	3794	.54695 .54698			4915	.7414	1 .551		.743		55349 55353	
34	1 .7	3624	.5448		3797	.54709			4919	.7414			.743		55357	
35		3627		_	3800	.5470			4923	9.741	.551		).743		.55360	
		73630			3803 3806	.5470		78 .5	54926	.741-			.743		55364	
37		73633			3809	.5471		81   •5	51930	.7418			.743		.55367	
38		73636			3812	.5471			51933	.741					.55371	_
39		73639		-	3815	.5472			54937	9.741			$9.743 \\ .743$		.5537	
		7364:			3817	.5472		89	54941	.741			.743		.55378	
41		7364	5 .545 8 .545		3820	.5472	7 .739		54944	.741			.743		.5538	
4.2		7364			3823	.5473	739		54948	.741			9.74		.5538	
43		7365	_		3826	.5473	4 9.73		54952	9.741		172	.74		.5538	9 18
		7365			3829	.5473	8 .740		54955	.741		176		345	.5539	3 1-
45		7365	- 1		3832	.5474	.740		54959	.741		179		348	.5539	6 1.
46		.7365 $.7366$			73835	.5474	5 .74		54963			183	9.74		.5540	0 1
47		.7366		32 9.	73838	.5474			54966	9.741		187		354	.5540	
		.7366		535	73840	.547	.74		54970			190	.74	357	.5510	
5		.7367		539	73843	.547.			.54973 .54977		100	194		359	.5541	
5		.7367		542 .	73846	.547				_		197	9.74		.5541	
		.736		546 9.	73849	.547	63 9.74		.54980 .5498		195 .5	201	.74	1365	.5541	
+ 5		.736		550 .	73852	.547	67   .74		.54988	31 .71	198 .5	5205	.74	1368	.554	
	4	.736	82 .54	553	73855	.547	71 -74		.5499			5208		1371	.554	
	5	.736			73858	.547			.5499		203 .5	5212		437-1	.554	
+		).730	88 .54	561 9.	73860	.547			.5499	91 .74	206 .5	5216	.7-	4376	.554	
	7	.736	91 .54	564	.73863	.547		1035 1038	.5500		209 .5	5219	.7	1379	.554	
	58	.736	94 .54	568	73866	.547		1045	.5509		212   .5	5223		1382	.551	
	59	.736	97 .5		.73869			1044	.5500	9 9.74		2336	9.7	4385	.554	4.0
1	15'	9.736	.5	1575 9	.73872	.547	198 17.7			- 1 -			-	727	3551-	
	1					$h \cup Sm$	à	1743	? III	1	17h 300		è	11		
			17h .39m	- 1				710	,							

Page 888]

TABLE 45.

	6h 25m	96° 15′	6h 26m	96° 30′	6h 27m	96° 45′	6h 28m	97° 0′	6h 29m	97° 15′	1
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	9.74.85	,55443	9.74554	.55660	9.74723	.55577	9.74891	.56993	9.75059	.56310	61
1	.74388	.55447	.74557	.55664	.74726	.55880	.74894	.56097	75061	.56314	55
- 2	.74391	.55451	.74560	.55667	.74729	.55581	.74897	.56101	.75064	.56317	58
- 3	.7 (393	.55454	.74563	.55671	.74732	.55888	74900	56104	.75067	56321	5%
+ 1'	9.74.394	.55459	9.74566	.55675	9.74734	.55891	9.74902	.56108	9.75070	.56324	51
5	.745.39	,55461 ,55465	.74569	.55678	.74737	.55895	.7 1905	.56112	.75072	.56325	5.
6 7	74402 .74405	.55469	.74574 .74574	.55682	.74740	.55899 .55902	.74908 .74911	.56115	.75075 .75078	.56333	5.
	9.74408	.55472	9.74577	.55689	9.74746	-,55906	9.74914	.56122	9.75081	.56339	5.
+ 2	.74410	.55176	.74580	.55693	.74748	.55909	.74916	.56126	.75084	.56342	5.
10	.74413	.55479	.74583	.55696	74751	.55913	.74919	.56130	.75086	.56346	5
11	7 #116	.55483	74585	.55700	.74754	.55917	.74922	.56133	.75089	.56350	4
+ 3'	9.74419	.55487	9.74588	.55701	9.74757	.55920	9.74925	.56137	9.75092	.56353	-5.
1.3	.74422	.55490	.74591	.55707	.74760	.55921	.74928	.56140	.75095	.56357	4
1.4	.74425	.55194	.74594	.55711	.74762	.55927	.74930	.56144	.75097	.56360	4
1.5	.74127	.55198	.74597	.55714	.74765	55931	.74933	.56117	.75100	.56364	4
$+ \frac{4'}{17}$	9.74430 .74433	.55501 .55505	9.74600 .74602	.55718	9.74768 .74771	.55935 .55938	9.74936 .74939	.56151 .56155	9.75103 .75106	.56365	4
18	.74436	.55508	.74605	.55725	.74774	.55912	.74941	.56158	.75100	.56375	1
19	.74439	.55512	.74603	.55729	74776	.55945	.74944	.56162	.75111	.56378	4
+ 5'	9.74442	.55516	9.74611	.55732	9.74779	.53949	9.74947	56166	9.75114	-,56382	-
21	.74444	.55519	.74614	.55736	.74782	.55953	.74950	.56169	.75117	.56386	3
22	.74447	.55523	.74616	.55740	.74785	.55956	.74953	.56173	.75120	.56389	3
2.8	.74450	.55526	.74619	55743	.74788	.55960	.74955	56176	.75122	56393	.5
+ 6'	9.74453	.55530	9.74622	.55717	9.74791	.55961	9.74958	.56180	9.75125	.56397	3
25	.74456	.55534	.74625	.55750	.74793	.55967	.74961	.56184	.75128	.56400	3
26 27	.74458 .74461	.55537 .55541	.74628 .74630	.55754 .55758	.74796 .74799	.55971 .55974	.74964 .74967	.56187 .56191	.75131 .75134	.56404	3
+ 7	9.74464	.55545	9.74633	.55761	9.74802	.55978	9.74969	.56195	9.75136	.56411	3
± 29	.74467	.55548	.74636	.55765	.74805	.55982	.74972	.56198	.75139	.56415	3
30	.74470	.55552	,74639	.55769	.74807	.55985	.74975	.56202	.75142	.56118	3
31	.74473	.55555	.74642	.55772	.74810	.55989	.74978	.56205	.75145	.56422	2
+ 8'	9.74475	.55559	9.74645	.55776	9.74813	.55992	9.74981	.56209	9.75147	.56425	2
3.3	.74478	.55563	.74647	.55779	74816	.55996	.74983	.56213	.75150	.56429	2
34	.74481	.55566	.74650	.55783	.74819	.56000	.74986	.56216	.75153	.56433	2
3.5	.74484	.55570	.74653	.55787	.74821	56003	.74989	.56220	.75156	.56436	25 25
+ 9'	9.74487 .74490	.55573	9.74656 .74659	.55790 .55794	9.74824 .74827	.56007 .56010	9.74992 .74994	.56223	9.75159 .75161	.56440	2
38	.74492	.55581	.74661	.55797	74830	.56014	.74994	.56231	.75164	.56417	2
39	.74495	.55584	.74664	.55801	74833	.56018	75000	.56234	.75167	.56451	2
+ 10'	9.74498	.55588	9.74667	.55805	9.74835	-56021	9.75003	-,56238	9.75170	.56454	3
41	.74501	.55592	.74670	.55868	.74838	.56025	.75006	.56241	.75172	.56458	1
42	74504	.55595	.74673	.55812	.74841	.56029	.75008	.56245	.75175	.56461	1
4.3	74506	55599	.74675	55815	74844	56032	.75011	56249	75178	.56465	1
+ 11'	9.74509	.55602	9.74678	.55819	9 74846	.56036	9.75014	.56252	9.75181	.56469	1
45	.74512	.55606	.74681	.55823	74849	.56039	.75017	.56256	.75183	.56472	1
46 47	.74515 .74518	.55610 .55613	.74684 .74687	.55826	.74852 .74855	.56913	.75020	.56259 .56263	.75186 .75189	.56476	1
12/	9.74521	.55617	9.74690	.55834	9.74858	.56050	9.75025	.56267	9.75192	.56483	1
49	.74523	.55620	.74692	.55837	.74560	.56051	. 9.75028	.56270	.75195	.56487	1
50	74526	.55624	74695	.55841	.74863	.56057	75031	.56274	.75197	.56490	1
51	.74529	.55628	.74698	.55844	74866		.75033	.56277	.75200	.56191	_
+ 131	$9.7453\overline{2}$	.55631	9.74701	.55848	9.74869	.56065	9.75036	.56281	9.75203	.56197	-
58	.74535	.55635	.74704	.55852	.74872	.56068	.75039	.56255	.75206	.56501	ı
54	.74538	.55638	.74706	.55855	.74874	.56072	75042	.56255	75208	.56505	l
55	.74540	.55612	.74709	55859	74877	.56075	.75045	.56292	.75211	56508	_
+_11′	9.74543	.55616	9.74712	.55862	9.74880	.56079	9 75047	.56296	9 75214	.56512	
57 58	.74546 .74549	.55619 .55653	.74715 74718	.55866 .55870	.74883 .74886	.56083	.75050 .75053	.56393	.75217 .75220	.56519	
59	.74519	.55657	.74720	.55873	7(445	.56090	.75056	.56306	75222	.56523	
+ 15'	9.74554	.55660	9 74723	.55877	9.74891	.56093	9.75059	.56310	9.75225	.56526	-
	4 10 1	3.4111	4.23	,5,5 m		.; *m	17%		42.1	Sum	

	6h 30m	97° 30′	6h 31m	97° 45′	6h 3 2m	98° 0′	6h 33m	98° 15′	6h 3.3m	95 39	_
s	Log. Hav.		Log. Hav.		Log. Hav.		Log. Hav.	Nat. Hav	Log. Hav.		s
0	9.75225	,56526	9.75391	.56743	9.75556	.56959	9.75720	.57175	9.75884	.57390	60
1	.75228	.56530	.75394	.56746	.75559	.56962	.75723	.57178	.75887	.57394	59
2	.75231	.56534	.75396	.56750	.75561	.56966	.75726	.57182	.75889	.57398	58
3	.75233	.56537	.75399	.56753	.75564	.56969	.75729	.57185	.75892	.57401	57
+ 1'	9.75236	.56541	9.75402	.56757	9.75567	.56973	9.75731	.57189	9.75895	.57405	56
5 6	.75239 .75242	.56541	.75405 .75407	.56761	.75570 .75572	.56977	.75734	.57193	.75898	.57408	55
7	.75244	.56552	.75410	.56768	.75575	.56980 .56984	.75737 .75739	.57196 .57200	.75900 .75903	.57412	54 53
+ 2'	9.75247	,56555	9.75413	.56771	9.75578	.56987	9.75742	.57203	9,75906	.57419	53
9	.75250	.56559	.75416	.56775	.75581	56991	.75745	.57207	.75908	.57423	51
10	.75253	.56562	.75418	.56779	.75583	.56994	.75748	.57211	.75911	.57426	50
11	.75256	.56566	.75421	.56782	.75586	.56998	.75750	57214	.75914	.57430	49
+ 3'	9.75258	.56570	9.75424	.56786	9.75589	.57002	9.75753	.57218	9.75917	.57434	48
13 14	.75261 .75264	.56573 .56577	.75427 .75429	.56789 .56793	.75592 .75594	.57005 .57009	.75756 .75759	.57221	.75919 .75922	.57437 .57441	47 46
15	.75267	.56580	.75432	.56797	.75597	.57012	.75761	.57229	.75925	.57444	45
+ 4'	9.75269	.56584	9.75435	.56800	9.75600	.57016	9.75764	.57232	9.75927	57448	44
17	.75272	.56588	.75438	.56804	.75603	.57020	.75767	.57236	.75930	.57452	43
18	.75275	.56591	.75440	.56807	.75605	.57023	.75770	.57239	.75933	.57455	42
19	.75278	.56595	.75443	.56811	.75608	.57027	.75772	.57243	.75936	.57459	41
+ 5'	9.75280	.56598	9.75446	.56815	9.75611	.57031	9.75775	.57247 .57250	9.75938 $.75941$	.57462	40 39
21 22	.75283 .75286	.56692 .56696	.75449 .75452	.56818	.75614 .75616	.57034 .57038	.75778 .75780	.57254	.75941	.57466 .57470	38
23	.75289	.56609	.75454	.56825	.75619	.57041	.75783	.57257	.75947	.57473	37
+ 6'	9.75291	.56613	9.75457	.56829	9.75622	.57045	9.75786	.57261	9.75949	.57477	36
25	.75294	.56616	.75460	.56833	.75625	.57049	.75789	.57265	.75952	.57480	36
26	.75297	.56620	.75463	.56836	.75627	.57052	.75791	.57268	.75955	.57484	34
27	.75300	.56624	.75465	.56840	.75630	.57056	.75794	.57272	.75957	.57488	33
+ 29	9.75303 .75305	.56627 .56631	9.75468 .75471	.56843 .56847	9.75633 .75636	.57059 .57063	9.75797 .75800	.57275 .57279	9.75960 .75963	.57491 .57495	32 31
30	.75305	.56634	.75474	.56851	.75638	.57067	.75800	.57283	.75966	.57498	30
31	.75311	.56638	.75476	.56854	.75641	.57070	.75805	.57286	.75968	.57502	29
+ 8'	9.75314	.56642	9.75479	.56858	9.75644	.57074	9.75808	.57290	9.75971	.57566	28
33	.75316	.56645	.75482	.56861	.75646	.57077	.75810	.57293	.75974	.57569	27
34	.75319	.56649	.75485	.56865	.75649	.57081	.75813	.57297	.75976 .75979	.57513	26 25
35	.75322	-56652	.75487	.56869	.75652	.57085	$\frac{.75816}{9.75819}$	.57304	9.75982	.57516	$\frac{25}{24}$
+ 9'	9.75325 .75327	.56656 .56660	9.75490 .75493	.56872	9.75655 .75657	.57692	.75821	.57304	.75985	.57524	23
38	.75330	.56663	.75496	.56879	.75660	.57695	.75824	.57311	.75987	.57527	22
39	.75333	.56667	.75498	.56883	.75663	.57699	.75827	.57315	.75990	.57531	21
+ 10'	9.75336	.56670	9.75501	.56887	9.75666	.57103	9.75830	.57318	9.75993	.57534	20
41	.75338	.56674	.75504	.56890	.75668	.57106	.75832	.57322	.75995	.57538	19
42	.75341	.56678 .56681	.75507	.56894 .56897	.75671 .75674	.57110 .57114	.75835 .75838	.57326 .57329	.75998 .76001	.57541	18 17
$\frac{43}{+11'}$	9.75344	.56685	$\frac{.75509}{9.75512}$	.56901	$\frac{.75674}{9.75677}$	.57117	9.75840	.57333	9.76004	.57549	16
45	.75350	.56689	.75515	.56905	,75679	.57121	.75843	.57337	.76006	.57552	15
46	.75352	.56692	.75518	.56968	.75682	.57124	.75846	.57340	.76009	.57556	14
47	.75355	.56696	.75520	.56912	.75685	.57128	.75849	.57344	.76012	.57559	1.3
+ 12′	9.75358	.56699	9.75523	.56915	9.75688	.57131	9.75851	.57347	9.76014	.57563	12
49	.75361	.56703	.75526	.56919	.75690	.57135 .57139	.75854 .75857	.57351 .57355	.76017 .76020	.57567 .57570	11 10
50 51	.75363	.56707 .56710	.75529 .75531	.56923 .56926	.75693 .75696	.57143	.75859	.57358	.76023	.57574	9
$\frac{-31}{+13'}$	9.75369	.56714	$\frac{.75531}{9.75534}$	.56930	9.75698	.57146	9.75862	.57362	9.76025	.57577	-8
53	.75372	.56717	.75537	.56933	.75701	.57149	.75865	.57365	.76028	.57581	7
54	.75374	.56721	.75540	.56937	.75704	.57153	.75868	.57369	.76031	.57585	6
55	.75377	.56725	.75542	.56941	.75707	.57157	.75870	.57373	.76033	.57588	5
+ 14'	9.75380	.56728	9.75545	.56944	9.75709	.57160	9.75873	.57376	9.76036	.57592	4 3
57	.75383	.56732	.75548 .75550	.56948 .56951	.75712 .75715	.57164 .57167	.75876 .75879	.57380 .57383	.76039 .76041	.57595 .57599	3
58 59	.75385 .75388	.56735 .56739	.75553	.56955	.75718	.57171	.75881	.57387	.76044	.57603	ĩ
+ 15'	9.75391	.56743	9.75556	.56959	9.75720	.57175	9.75884	.57390	9.76047	.57606	0
7 13	0.70001	.00110									
	17h	29m	17h	28m	17 h	27m	17h	26m	17h	$25^{m}$	

	Ì	1.h 95m	94" 45"	1, h .91;m	99 9 0'	6h 37m	99 15'	6h SSm	99° 30′	6h 39m	99° 45′	
		Log Hay	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	S
1												
1	i											
	± −1	ī				9.76381					.58482	
2			.57621	.76223	.57510	.76384	.55055				.58155	
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17						.76395		.76555				
1		70071	.57642									
Total												
Toos	, 3											
17	1,			.76247	.57572			.76569			.58518	46
Tools												
Total												
Tours					.57456			76579				
4/2         76100         55685         76288         57997         76127         58112         76390         58328         76747         58546         38           4/2         76100         57689         76271         57901         76332         58120         76593         58333         76750         58546         38           4/3         76100         57689         76271         57901         76432         58120         76593         58333         76755         58533         36           2/3         76117         57696         76270         57911         76401         58130         76698         55812         767698         55833         976766         58533         36           7         76117         57606         76279         57915         7640         58130         76601         58346         76761         58561         38           7         76120         57707         76285         57919         76443         58134         76603         58356         76761         58561         33           4         7         9.76124         57271         76285         57997         76448         58144         76603         58566         76766					.57890							
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96         76117         57700         7627         57915         76140         58130         76603         58346         76761         58564         35           + 7         70 76120         57770         76282         57919         76143         58134         76603         58349         76763         58564         35           29         76125         57770         76285         57922         976446         58134         76600         58353         9.76766         58554         35           30         76125         57710         76290         57929         76451         58145         76611         55860         76771         58575         30           31         76134         55711         76293         57910         76456         58152         9.76611         55860         76777         58580         26           31         76160         57721         76298         57910         76456         58152         9.76617         58361         76777         58580         27           31         76160         57721         76301         57917         76462         58153         76629         58371         76782         58580         26	⇒ 6	9.76112						9.76595				
Total												
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37	2.7	.70425	.57710	76257								
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+ 9 9 76141 .57736 9 76306 .57951 9 76167 .58166 9.76627 .58381 9.76787 .58596 24 76177 .57749 .76309 .57952 76470 .58170 .76630 .58385 .76799 .58604 22 76150 .57743 76311 .57958 .76475 .58170 .76630 .58385 .76799 .58604 22 76152 .57746 .76311 .57958 .76475 .58177 .76633 .58389 .76799 .58604 22 76152 .57750 9 76317 .57963 .76481 .58141 9 76638 .58399 .76795 .58607 21 76153 .57753 .76322 .57963 .76481 .58184 .76644 .58399 .76795 .58611 29 76154 .57753 .76322 .57963 .76481 .58184 .76644 .58399 .76806 .58611 19 76155 .57753 .76322 .57963 .76481 .58184 .76644 .58399 .76806 .58611 19 76156 .57761 .76325 .57963 .76481 .58194 .76646 .58407 .76806 .58621 17 76156 .57761 .76325 .57960 .76480 .58194 .76646 .58407 .76806 .58622 17 76156 .57761 .76325 .57980 .76490 .58195 .976446 .58407 .76806 .58622 17 76156 .57764 .76430 .57980 .76490 .58195 .976446 .58411 .76814 .58622 .18 76171 .57771 .76333 .57983 .76491 .58195 .976446 .58411 .76814 .58622 .18 76171 .57771 .76333 .57980 .76491 .58202 .76654 .58411 .76814 .58622 .18 76171 .57772 .76334 .57990 .76490 .58202 .76654 .58411 .76814 .58622 .18 76171 .57779 .76346 .58001 .76490 .58202 .76654 .58421 .76814 .58632 .14 76171 .57779 .76346 .58001 .76490 .58202 .76654 .58421 .76814 .58632 .14 76171 .57779 .76346 .58001 .76490 .58202 .76654 .58421 .76814 .58632 .14 76171 .57799 .76346 .58001 .76490 .58202 .76655 .58428 .76822 .58633 .11 76181 .58580 .76344 .58001 .76490 .58243 .76667 .58422 .76824 .58643 .11 76181 .5488 .57799 .76346 .58004 .76490 .58241 .76675 .58439 .76824 .58661 .6 76181 .5488 .57799 .76346 .58004 .76490 .58241 .76675 .58453 .76824 .58666 .6 76181 .5488 .57799 .76346 .58004 .58004 .58241 .76675 .58439 .76824 .58665 .7 76181 .5488 .57799 .76346 .58005 .58004 .58242 .76666 .58450 .76852 .58663 .11 76181 .5488 .57799 .76346 .58004 .58004 .58242 .76666 .58450 .76852 .58663 .11 76181 .5488 .57799 .76346 .58004 .58004 .58242 .76665 .58450 .76854 .58666 .6 76181 .5488 .57799 .76346 .58004 .58004 .58242 .76666 .58450 .76855 .58666 .6 76181 .5488 .56579 .76866 .58004 .76				.76301						.76782		
67         76147         57739         76309         35955         76470         38173         76630         38885         76790         38604         22           6         76150         57743         76311         57958         76473         38173         76633         58893         76792         58604         22           10         976152         57746         76311         57963         976475         58177         77633         58893         76795         58604         22           4         76155         557733         76320         57993         76478         58184         76634         58396         97699         58611         29           4         76164         557751         76322         57993         76483         58184         76634         58403         76803         58611         29           4         76464         557761         76325         57976         76483         58184         76644         58407         76806         58622         17           41         9,646         557761         76325         57994         97648         58191         76646         58107         76806         58622         17 <t< th=""><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-ter</th><th></th><th>_</th><th></th></t<>	1								-ter		_	
6         76150   557743   76311   57968   76473   58174   76635   58398   76792   58604   22           76152   57716   76311   57965   76475   58177   76635   58396   76795   58607   21           10         9 76155   53753   76320   57969   76478   58181   976638   58396   976798   58611   20           41         76458   537733   76320   57969   76481   58184   76641   58399   76800   58611   20           4         76461   55773   76322   55796   76481   58184   76641   58399   76800   58611   20           4         76461   55773   76322   55796   76481   58194   76643   58407   76806   58622   17           4         76461   55776   76325   57976   76486   58191   76646   58107   76806   58622   17           4         76460   55764   76325   57990   76489   58191   76646   58107   76806   58622   17           5         76460   55776   76330   57993   76491   58499   76650   58417   76814   58622   13           6         76471   55777   76333   57997   76491   58202   76654   58417   76814   58632   13           7         76471   55777   76334   57990   76497   58209   76659   58423   76824   57686   58636   13           12         9 641   55778   76341   55091   76502   58213   76667   58421   76824   55613   14           12         9 641   55779   76340   58001   76502   58213   76667   58423   76822   55613   14           12         9 641   55779   76340   58001   76507   58221   76667   58423   76822   55613   14           12         9 641   55779   76340   58001   76502   58213   76667   58423   76822												
10		76150	.57743					.76633				
7-6158   57733   76320   57969   76481   58184   76644   58399   76890   58611   19	eman a ser											
Toloid   57761   Toloid   57973   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Toloid   58191   Tolo												
Total   57761   76325   57986   76486   58491   76646   58407   76806   58622   17	- 7/											
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12   9   61   57775   763.66   539.99   76.907   582.96   76657   58421   76816   58636   13     12   9   61   57779   9   63.85   57994   9   69.90   582.99   9   76650   58424   5   76819   58639   12     2   76479   57780   76311   57998   76592   58213   76662   58424   5   76822   58643   17     2   652   557780   76314   58901   76505   58213   76667   58432   76822   58643   17     3   653   57799   76310   58905   76505   58224   76667   58432   76824   58650   9     14   6488   55793   9   6449   58908   9   6640   58221   9   7667   58439   9   76830   58654   8     4   6488   55793   9   6449   58908   9   6640   58221   9   7667   58439   9   76830   58654   8     4   65797   76452   58912   76513   58224   76673   58442   76832   38667   7     4   6488   57793   9   6449   58916   6547   58234   76675   58449   76830   58654   8     5   649   57840   6657   58919   5648   58234   76675   58450   76838   58665   5     6   6   6   58873   6   6   6   6   6   6   6   6   6	1.										.58629	
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1)			.57811	0.303	.58026	23	.58242	76683	.58457	76843	.58671	
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E' = E'	.,				4e37U 84		107100	in the t	,07107		\$2000.	"
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	6h 41)m	100° 0′	6h 41m	100° 15′	6h 42m	100° 30′	6h 48m	100° 45′	ich sum	 101° 0′	1-
s	Log. Hav.	Nat. Hav		,		. Nat. Hav	-	Nat. Hav	Log, Hav.		s
0	9.76851	.58682		.58897	9.77167	.59112	9.77325	.59326	9.77481	.59540	60
1	.76853	.58686		.58901	.77170	.59115	.77327	.59330	.77184	.59544	59
μ	.76856	.58690		.58901	.77173	.59119	.77330	.59333	.77486	.59548	58
3	.76859	.58693		.58968	.77175	.59122	77333	59337	.77489	59551	57
+ 1	9.76861 .76864	.58697 .58700	9.77020	.58911	9.77178	.59126	9.77335	.59340	9.77492	.59555	56
6	.76867	.58704	.77023 .77025	.58915	.77181 .77183	.59130 .59133	.77338 .77340	.59344 .59348	.77494 .77497	.59558 .59562	55
2	.76869	.58707	.77028	.58922	.77186	.59137	.77343	.59351	77499	.59565	54
+ 2'	9.76872	.58711	9.77031	58936	9.77188	.59140	9.77346	.59355	9.77502	.59569	52
9	.76875	.58714	,77033	.58929	.77191	.59144	.77348	.59358	.77505	.59573	51
10	.76877	.58718	.77036	.58933	.77194	.59148	.77351	.59362	.77507	.59576	50
11	.76880	.58722	.77038	.58937	.77196	.59151	.77353	.59365	.77510	.59580	49
+ 3	9.76583	.58725	9.77011	.58940	9.77199	.59155	9.77356	.59369	9.77512	.59583	48
13	.76885	.58729	.77044	.58944	.77202	.59158	.77359	.59373	.77515	.59587	47
14 15	.76888 .76891	.58733 .58736	.77046 .77049	.58947 .58951	.77204	.59162	.77361	.59376	.77518	.59590	46
+ 4'	9.76593	.58749	9.77052	.58954	.77207	.59165 .59169	.77364	59380 $59383$	.77520	59591	4.5
T ₁₇ *	.76896	.58743	.77054	.58858	9.77209 .77212	.59173	9.77366	.59383	9.77523 .77525	.59598	44
18	.76898	.58747	.77057	.58962	.77215	.59176	.77372	.59391	.77528	.59605	43 42
19	.76901	.58750	.77060	.58965	.77217	.59180	.77374	.59391	.77531	.59608	41
+ 5	9.76904	.58754	9.77062	.58969	9.77220	.59183	9.77377	.59398	9.77533	.59612	40
21	.76906	.55755	.77065	.58972	.77223	.59187	.77380	.59401	.77536	.59615	39
2.2	.76909	.58761	.77067	.58976	.77225	.59190	.77382	.59405	.77538	.59619	38
23	.76912	.58765	.77070	.58979	.77228	59194	.77385	.59403	77541	59623	37
+ 6°	9.76914	.58768	9.77073	.58983	9.77230	.59198	9.77387	.59412	9.77544	.59626	36
26 26	.76917 .76920	.58772	.77075 .77078	.58987 .58990	.77233 .77236	.59201 .59205	.77390 1:77393	.59416 .59419	.77546 .77549	.59630 .59633	3.5
27	.76922	.58779	.77081	.58994	.77238	.59208	.77395	.59423	.77551	.59637	34
+ 7	9.76925	.58783	9.77083	.58997	9.77241	.59213	9.77398	.59426	9.77554	.59640	32
29	.76928	.58786	.77086	.59001	.77243	.59215	.77400	.59430	.77557	.59614	31
30	.76930	.58790	.77089	.59005	.77246	.59219	.77403	.59433	.77559	.59648	30
31	.76933	.58793	.77091	.59008	.77249	.59223	.77406	.59437	.77562	.59651	29
+ 8'	9.76936	.58797	9.77094	.59012	9.77251	.59226	9.77408	.59440	9.77564	.59655	28
3.3	.76938	.58801	.77096	.59015	.77254	.59230	.77411	.59414	.77567	.59658	27
34 35	.76941 .76943	.58804 .58808	.77009 .77102	.59019	.77257 .77259	.59233	.77413 .77416	.59448 .59451	.77570 .77572	.59662 .59665	26
+ 9'	9.76946	.58811	9.77104	.59026	$\frac{.77253}{9.77262}$	.59240	9.77419	59455	9.77575	.59669	25
37	.76949	.58815	.77107	.59030	.77264	.59244	.77421	.59458	.77577	.59672	24
38	.76951	.58818	.77110	.59033	.77267	.59248	.77424	.59462	.77580	.59676	22
39	.76954	.58822	.77112	.59037	.77270	.59251	.77427	.59465	.77583	.59680	21
+ 10'	9.76957	.58826	9.77115	.59040	9.77272	.59255	9.77429	.59469	9.77585	.59683	20
41	.76959	.58829	.77117	.59044	.77275	.59258	.77432	.59473	.77588	.59687	19
숨	.76962	.58833	.77120	.59017	.77278	.59262	.77434	.59476	.77590	.59690	
43	.76965	58836	.77123	.59051	.77280	.59265	.77437	.59480	.77593	.59691	17
+ 11'	9.76967 .76970	.58840	9.77125 .77128	.59055 .59058	9.77283 .77285	.59269	9.77440 .77442	.59483	9.77596   .77598	.59697 .59701	16 15
46	.76970	.58847	.77131	.59063	.77288	.59276	.77445	.59490	.77601	.59705	14
47	.76975	.58851	.77133	.59065	.77291	.59280	.77447	.59194	.77603	.59708	13
+ 12'	9.76978	.58854	9.77136	.59069	9.77293	.59283	9.77450	.59498	9.77606	.59712	12
49	.76980	.58858	,77139	.59072	.77296	.59287	.77453	.59501	.77609	.59715	11
50	.76983	.58861	.77141	.59076	.77298	.59290	.77455	.59505	.77611	.59719	10
51	.76986	.58865	.77144	59080	.77301	.59294	.77458	.59508	.77614	59722	_9
+ 13'	9.76988	.58869	9.77146	.59083	9.77304	.59298	9.77460	.59512	9.77616	.59726	8
53 54	.76991 .76994	.58872 .58876	.77149 .77152	.59087 .59090	.77306 .77309	.59391 .59305	.77463 .77466	.59515 .59519	.77619	.59730 .59733	$\frac{\gamma}{6}$
5.5	.76994	.58879	.77152	.59094	.77312	.59305	.77468	.59523	.77624	.59737	5
+ 14'	9.76999	.58883	9.77157	.59097	9.77314	.59313	9.77471	.59526	9.77627	.59740	4
57	.77002	.58886	.77160	.59101	.77317	.59315	.77473	.59530	.77629	.59711	3
58	.77004	.58890	.77162	.59105	.77319	.59319	.77476	.59533	.77632	.59747	2
59	.77007	.58894	.77165	.59108	.77322	.59323	.77479	.59537	.77634	.59751	1
+ 15′	9.77009	.58897	9.77167	.59112	9.77325	.59326	9.77481	.59540	9.77637	.59755	0
	17h	$19^{m}$	17h	18m	17h	17m	1; h	$16^m$	17h	5m	

Page 892]

### TABLE 45.

	6h 45m	101 15	6h Jom	101: 30'	6h .;7m	101 45'	63h 3,8m	102° 0′	6h 49m	102° 15′	Γ
	Log Hav	Nat. Hav	Log. Hav	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	s
0	9.77037	.59755	9.77792	.59968	9.77947	.60152	9.78101	.60396	9.78254	.60609	60
1	77640	.59754	.77795	.59972	.77949	.60185	.78103 .78106	.60399	.78256 .78259	.60612	59
L	776 E2 7776 E3	.59762	.77797 .77800	.59976	.77952 .77954	.60159	.78106	.60406	.78259	.60616	58 57
T# 10	9.77647	.59769	9.77803	.59983	9.77957	.60196	9.78111	.60410	9.78264	.60623	56
5	.77650	.59772	77805	.59986	.77960	.60200	.78113	.60114	.78266	.60627	55
- 6 7	77653 77655	.59776	.77808 .77810	.59990 .59993	.77962 .77965	.60203	.78116 .78118	.60417	.78269 .78271	.60630	54
2,	9.77658	.59779 .59783	9.77813	.59997	9 77967	.60207	9.78121	.60424	9.78274	.60634	53
9	.77660	.59757	77815	.60000	.77970	.60214	.78124	.60428	.78277	.60641	51
10	.77663	.59790	.77818	.60004	.77972	.60218	.78126	.60131	.78279	.60644	50
- 11	.77666	.59791	.77821	.60008	.77975	.60221	78129	.60435	.78282	.60648	4.9
$+\frac{3}{L}$	9.77668 .77671	.59797 .59501	9.77823 .77826	.60011	9.77978 ¹ .77980	.60225	9.78131 .78134	.60438	9.78284 .78287	.60652 .60655	48 47
14	77673	.59501	77424	.60018	.77983	.60232	.78136	.60445	78289	.60659	46
15	77676	.59505	.77831	.60023	.77985	.60235	.78139	.60419	.78292	.60662	45
+ 1	9.77679	.59812	9.77831	.60025	9.77988	.60239	9.78141	.60452	9.78294	.60666	44
17 18	77681 77681	.59515	.778 96 77839	.60033	.77990 .77993	.60243	.78144 .78147	.60456	.75297 .78299	.60669	43 42
14	77686	59822	77841	.60036	.77996	.60250	.78149	.60163	.78302	.60676	41
+ 5	9.77689	.59526	9.77811	.60010	9.77998	.60253	9.78152	60107	9.78305	.60650	40
21	77694	.59829	77816	.60043	.78001	.60257	.78154	.60470	.78307	.60684	39
22 38	77694 77697	.59%33	.77849 .77852	.60017	.78003 .78006	.60260	.78157 .78159	.60174	.78310	.60687	38 37
+ 6	9.77699	.59810	9.77851	.60051	9.78008	.60268	9.78162	.60177	.78312 9.78315	.60694	36
25	77702	.59811	.77857	.60057	.75011	.60271	.78164	.604-4	.78317	.60695	35
26	77704	.59517	77839	.60061	.78013	.60275	.78167	.60155	.78320	.60701	84
27 Ta T	77707	.59%51	77862	.60065	.78016	.60278	.78170	.60492	.78322	.60705	3.3
114	9 77710 77712	.59851 .59858	9.77861 .77867	.60065	9.78019 .78021	.60282	9.78172 .78175	.60195	9,78325	.60708	32
30	77715	.59×61	77870	.60075	78021	.60289	.78177	.60502	78330	.60715	30
1	77747	.59×65	.77872	.60079	.78026	.60292	.75150	.60506	.78332	.60719	29
4	9.77720	.59869	9.77875	.60052	9.78029	.60296	9.78182	.60509	9.78335	.60723	28
	77725	.59572	77.577	.60056 .60090	.78031 .78034	.60300	.78185 78187	.60513	.78338 .78310	.60726	7
19	77738	.59579	77552	.60093	78037	.60307	.78190	.60520	78313	.60733	_5
+ 9	9 177 90	39443	9.77585	.60097	9.78039.4	.60310	9.78192	.60521	9.78145	.60737	15
17	717.1	39886		.60100	.78012	.60311	.78195	.60527	.78318	.60710	23
58	777.5	.59590 .59591	77×00 77×03	.60101 .60107	.78014	.60317	.78198 .78200	.60531	.78350 78450	.60714	12
• 10	9 11	.59597	9 77895	.60111	B 78039 1	.60321	9.78203	.60538	9.78 5	.60751	10
47	17743	.59301	77.505	.69111	78052	60325	.78205	.60511	78358	.697.55	79
,	7.710	.59901	77, (8.90)	.60118	75074	.60332	.75205	.60545	.78360	.60758	18
- 11	9 0	.59908	77901 9-77900	.60122	78057 9.78060	.60335	.78210	.60518	.78363	.60762	17
	- 11	.59915	77908	.60129	78062	.60339	9 78213 78215	.60552 .60556	9.78365	.60765	16 15
74	* 01	.59919	77911	.60132	78065	.60316	78218	.60559	75371	.60772	1.5
1	- 19	.59922	77913	.60136	78007	.603 (9	.78221	.60563	78,773	.60776	13
12	0 .1	.59926 .59929	9-77916 77918	.60139	9 (807)1	.60353	9.78223	.69566	9.78376	.60779	1:
,	. 76.6	.59933	25921	.60113	78072 78075	.60356	78226 78008	.60570	.78378 78381	.607%G	17
	.= ( )	.59936	.7921	.60150	78077	.60361	78231	.60577	78383	.60790	2
- 13	9	.59910	9.,79.25	.60151	9.78080	.60367	9.75233	.69550	9.78 (86)	.60791	8
		.59913	.,75_9 1,93]	.60157 .60161	78083	.60371	78236	.60581	.73355	.60797	- 7
7	1	.59917	9.34	.60161	75085	.60371	78288 78241	.60588 .60591	78391 78393	.60×01	- 6 - 5
a 10	41	.59951	4 -43	-60165	(i sipi)	.60451	9.78243	.60595	9.75396	.60505	-
		.5995%	2939	.60171	, 809.1	.603×5	75296	60598	.78398	.60811	3
17		.59961 .59965	-912	.60175	78095	.60355	75219	.60603	.75101	.60515	2
15	4	.59968		.60179	75095	.60392	78254	.60605	1.75 (0.1	.60414	1
				*0017:			0.554	.60609	9.78406	.60522	0
		la la				٠	17h	11:	17 h	1 /10	

	6h 50m 102° 30'				1						
	6h 50m 1	02° 30′	6h 51m	102° 45′	6h 52m	103° 8′	6h 53m 1	103° 15′	6h 54m 1	103° 30′	
s	Log. Hav.	Nat. Hav.	Hav.Log.	Nat. Hav	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	s
0	9.78406	.66822	9,78558	.61035	9.78709	.61248	9.78859	.61460	9,79009	.61672	60
1	.78409	.60525	.78560	.61038	.78711	.61251	.78862	.61464	.79011	.61676	59
2	.78411	.60529	.78563	.61042	.78714	.61255	.78864	.61467	.79014	.61679	58
3	.78414	.60533	.78565	.61046	.78716	.61258	.78867	.61471	.79016		47
+ 1'	9.78416	.60836	9.78568	.61049	9.78719	.61262 .61265	9.78869	.61474	9,79019	.61656	56
5 6	.78419 .78421	.60840 .60843	.78570 .78573	.61053 .61056	.78721 .78724	.61269	.78872	.61478 .61481	.79021 .79024	.61690 .61693	55 54
7	.78424	.60847	.78575	.61060	.78726	.61272	.78877	.61485	.79026	.61697	53
+ 2'	9.78426	.60850	9.78578	.61063	9.78729	-61276	9.78879	.61488	9.79029	.61701	52
7 9	.78429	.60854	.78581	.61067	78731	.61279	.78882	.61492	.79031	.61704	51
10	.78431	.60857	.78583	.61070	.78734	.61283	.78884	.61495	,79034	.61708	50
11	.78434	.60861	.78586	.61074	.78737	.61287	.78887	.61499	.79036	.61711	49
+ 3'	9.78436	.60865	9.78588	.61077	9.78739	.61290	9.78889	.61502	9.79039	.61715	48
13	.78439	.60868	.78591	.61081	.78742	.61294	.78892	.61506	.79041	.61718	-17
14	.78442	.60872	.78593	.61085	.78744	.61297	.78894	.61510	.79044	.61722	46
15	78444	.60875	.78596	.61058	.78747	.61301	.78897	.61513	.79046	61725	-45
+ 4'	9.78447	.60879	9.78598	.61092	9.78749	.61304 .61308	9.78899 .78902	.61517 .61520	9.79049	.61729 .61732	44
17	.78449	.60882	.78601 .78603	.61095 .61099	.78752 .78754	.61303	.78902	.61524	.79051 .79054	.61736	43 42
18 19	.78452 .78454	.60589	.78606	.61103	.78757	.61315	.78907	.61527	.79056	.61739	41
	9.78457	.60893	9.78608	.61106	9.78759	.61318	9.78909	.61531	9.79059	.61743	40
+ 5'	.78459	.60897	.78611	.61100	.78762	.61322	.78912	.61534	.79061	.61747	39
22	.78462	.60900	.78613	.61113	.78764	.61325	.78914	.61538	.79064	.61750	38
23	.78464	.60904	.78616	.61116	.78767	.61329	.78917	.61541	.79066	.61754	37
+ 6'	9.78467	.60907	9.78618	.61120	9.78769	.61333	9.78919	.61545	9.79069	.61757	36
25	.78469	.60911	.78621	.61124	.78772	.61336	.78922	.61548	.79071	.61761	35
26	.78472	.60914	.78623	.61127	.78774	.61340	.78924	.61553	.79074	.61764	.84
27	.78474	60918	.78626	.61131	.78777	.61343	.78927	.61556	.79076	.61768	33
+ 7'	9.78477	.60921	9.78628	.61134	9.78779		9.78929	.61559	9.79079 .79081	.61771	32 81
29	.78479	.60925	.78631	.61138	.78782 .78784	.61350 .61354	.78932 .78934	.61563 .61566	.79084	.61775	30
30 31	.78482 .78485	.60928	.78633 .78636	.61145	.78787		.78937	.61570	.79086	61782	29
	9.78487	.60936	9.78638	.61148			9.78939		9.79089	.61785	./8
+ 8'	.78490	.60939	.78641	.61152			.78942		.79091	.61789	27
34	78492	.60943	.78643	.61155		.61368	.78944		.79094	.61792	.6
35	78495	.60946	.78646	.61159	.78797		.78947	.61584	.79096	.61796	./5
+ 9'	9.78497	.60950	9.78649	.61163			9.78949	.61587	9.79099		
37	.78500	.60953					.78952	.61591	.79101	.61803	1.0
38	.78502	.60957	.78654				.78954	.61594	.79103		12
39	78505	.60960	1						.79106 9.79108		10
+ 10'	9.75507	.60964							.79111		19
41	.78510 .78512	.60967				.61396			.79113		
42 43	.78515	.60975							.79116		
+ 11'	9.78517	.60978					9.78969	.61616	9,79118	.61528	16
4.5	78520	.60982			75.829	.61407	.78972	.61619	.79121		
46	.78522	.680955	,78674	.61198	.78824	.61410		.61623	.79123		
47	.78525	.60989	.78676	.61201					.79126		
+ 12'	9.78525	.660993					9.78979	.61630	9.79128		
4.9	.75530	.60990		.61709	.78833	.61421			.79131 .79133		
50	.75533	.60099	.78684	.61213		61425			.79130		1.0
51	.78535	.01003					1		9,7913		
+ 13	9.78508	.61007		61219  61223					.79141		
53	.78540 .78540	.61010				61130			.79143		
54 55	.78545								.79140	.61867	
+ 14	9.78548				1 -		9.78990		9.79148	.61570	
57	78550	.6102	1 7870	.6123	7885:	.61449	.79001	.61663	.7915	.61874	
58	.78553	.6102	.7870	.6124	.7885	6145					
5.9	.78555	.6103	.7870	.6124					.79156		
+ 15	9,78558	.6103	9.7570	.6124	9,7885	.61460	9.79009	.01673	9,7915	.61551	1 "
l		Low	-	Th Sm	4.	7 h 7 m	1"	7h 6m	17	h ju	
	17	£ 9m	1	in Sm	1	/ " / "	1 1	0	1 //		

Page 894]

#### TABLE 45.

	64 : . 1	104 15	igh 5igm	104 2 0'	15h 57m	101 15	13h 58m	104° 30′	6h 59m	104° 45′	Г
5	Log II iv	- 141	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
0	9,79155	.61554	9.79306	.62096	9.79451	.62308	9.79601	.62519	9.79748	.62730	60
1	.791) 1	.61858	.79309	.62100	.79457	.62311	.79604	.62522	.79750	.62734	59
	.79163	.61891 .61895	.79311	.62103	.79459	.62315	.79606 .79609	.62530	.79752 .79755	.62737	58 57
- 1	79165	.61595	.79314 9.79316	.62107	.79462 9.79461	62318	9.79611	.62533	9.79757	62744	56
+ .1	1.0170	.61902	.79319	.62114	.79466	.62325	.79613	.62537	.79760	.62748	55
11	7 1777	.61905	.79321	.62117	.79469	.62329	.79616	.62540	.79762	.62751	54
	9175	.61909	.79324	.62121	.79471	62332	.79618	6?544	.79765	.62755	5.3
+ 3	9 ,9175 ) .79180	.61913	9.79326 .79329	.62124	9,79474	.62336	9.79621 .79623	.62547	9.79767 .79770	.62758	52 51
i i	.79183	.61920	.79334	.62131	.79479	.62343	.79626	.62554	.79772	.62765	50
11	.79485	.61923	.79334	.62135	.79481		79628	.62554	.79774	.62769	49
+ 3'	9.79185	.61927	9.79336	.62138	9.79454	.62350	9.79631	.62561	9.79777	.62772	48
1 1,	.79190 .79193	.61930 .61931	.79339 79341	.62142 .62145	.79486 .79489	.62353 .62357	.79633 .79635	.62565	.79779 .79782	.62776	47 46
1.	.79195	.61937	.79343	.62149	.79491	.62361	79638	.62572	79784	.62783	45
→ 4	9.79198	.61911	9,79346	.62153	9.79493	.62364	9.79640	.62575	9.79787	.62786	44
1.	.79200 709001	.61941	.79348	.62156	.79496	.62368	.79643	.62579	.79789	.62790	43
1.	.79203 .79205	.61945	.79351 .79353	.62160 .62163	.79498 .79504	.62371 .62375	.79645 .79648	.62582	.79791 .79794	.62793 .62797	42
5	9,79205	.61955	9.79356	.62167	9.79503	62378	9.79650	.62559	9.79796	62800	30
17	.79210	.61955	.79358	.62170	.79506	.62352	.79653	.62593	.79799	.62504	39
1	.79213 .79215	.61962 .61966	.79361 .79363	.62174	.79108	.62385	.79655 .79657	.62596	.79801 .79804	.62867 .62811	38 37
6	9,79217	.61969	9.79365 9.79366	.62177	79511 9 79513	62389 .62392	9.79660	62600 62603	9.79806	62814	36
"	.79220	.61973	.79368	.62151	,79516	.62396	.79662	.62607	.79508	.62518	35
1	.79222	.61976	.79371	.62188	.79548	.62399	79665	.62611	.79811	.62522	34
	.79225	.61989	.79373	.62191	.79520	-62103	.79667	.62614	.79813	.62525	33
1	9,79227	.61957 .61957	9 79376	.62195	9.79523 ,79525	.62406	9,79670 .79672	.62618	9,79816 .79818	.62829 .62832	32
	120112	61990	79380	.62303	79525	.62413	.79674	.62625	.79821	.62836	30
1	79235	.64994	.79383	.62205	.79530	.62417	.79677	.62628	-79823	.62839	29
	9 79237	.61997	9.793-5	.62209	9 (95) 1	.62420	9.79679	.65833	9.79825	.62843	28
	79240 79242	.62004 .62004	79388	.62213	.79505 .79535	.62121	.79682 .79684	.62635	.79828 .79830	.62846 .62850	27 26
	79215	.62005	79393	.62230	79540	.62431	79687	.63613	79833	.62853	25
9	9.79217	.62011	9.79395	.62223	9,79542	.62131	9.79689	.62646	9.79835	.62557	24
	79250 79252	.62015	.29498	.62227	.79545	.62438	.79692	.62649	.79838	.62860	2.3
,	79255	.62015 .62022	.79400 .79403	.62239	.79547 .79550	.62412 .62445	.79694 .79696	.62653 .62656	.79840 .79842	.62864	22
10	9 , 9257	.62026		.65531	9 79552	62119	9.79699	62660	9.79845	.62871	20
1	79,260	.62029	79407	.62241	.79555	.62452	.79701	.62663	.79847	.62874	19
	79262 79264	.62036	.79440	.62244	.79557	.62456	.7970 (	.62667	.79850	.62478	
. 11	9 . 9267	.62046	79442	.62248	,79560 9-79562	.62459	.79706 9.79709	62670 62674	79852 9.79855	.62881	$\frac{17}{16}$
1.5	79269	.62043	79117	.62255	,79565	.62466	.79711	.62677	.79857	.62889	15
16	79.72	.62047	.79420	.62258	.79567	.62470	.79714	.62681	.79859	.62893	14
12	79271 9-79277	.62050	79422 9 79425	.62262	,79569	.62173	.79716	.62681	.79862	62895	13
1 17	79,779	.62057	79425 79427	.62265	9 79572 79574	.62477 .62150	9,79718 ,79721	.62691	9.79864	.62902	12 11
30	79282	.62061	79430	.62272	.79577	.62484	.79723	.62695	79869	.62906	10
- 17	79284	.62064	.79432	62276	.79579	.62497	.79726	.62698	.79872	.62909	9
→ 13	9.79287 .79289	.62065	9.79434 .79437	.62279	9 79582 [	.62491	9.79728	.62702	9.79874	.62913	8
	79293	.62075	.79437	.62283	.79587	.62494	.79731 .79733	.62766 .62709	.79876 .79879	.62916	6
_ ,,	79294	.62078	79442	.62390	79589	.62501	.79735	.62713	.79881	.62923	5
14	9.79297	.62082	9.79111	.62294	9.79594	.62505	9.79735	.62716	9.79884	.62927	4
1	.79,299 .79301	.62086	79447 79449	.62397	.79594 .79598	.62508	.79740	.62720	.79886	.62930	.5
- 79	79301	.62093	79 152	.62304	.79599	.62512	.79743 79745	.62723	.79888 .79894	.62934	2
15	9.79306	.62096	9.79154	.6230×	9.79601	.62519	9.79748	.62730	9 79893	.62941	0
	j h									-	"
	1 "	,	1-4		1 h	·m	17.4	I m	174	()171	

	7h 0m 1	105° 0′	7h 1m 1	05° 15′	7h 2m 1	05° 30′	7h 3m 1	05° 45′	7 h 4m	106° 0′	
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, Hay	s
0	9.79893	.62941	9.80038	.63152	9.80183	.63362	9.80327	,63572	9.80470	.63782	60
1	.79896	.62944	.80041	.63155	.80185	.63365	,80329	.63576	.80472	.63785	59
2	.79898	.62948	.80043	.63159	.80188	.63369	.80331	.63579	.80474	.63789	58
3	.79901	.62951	.80046	63162	.80190	.63372	.80334	.63583	,80477	63792	.57
+ 1'	9.79903	.62955	9.80048	.63166	9.80192 .80195	.63376	9.80336	.63586	9.80479	.63796	56
5 6	.79905 .79908	.62958 .62962	.80050 .80053	.63169	.80195	.63379 .63383	.80339 .80341	.63590 .63593	.80482 .80484	.63799 .63803	55 54
7	.79910	.62965	.80055	.63176	.80200	.63386	,80343	.63597	.80486	.63806	53
+ 2'	9.79913	.62969	9.80058	.63180	9.80202	.63390	9.80346	-63600	9.80489	.63810	53
9	.79915	.62973	.80060	.63183	.80204	.63393	.80348	.63604	.80491	.63813	51
10	.79918	.62976	.80063	.63187	.80207	.63397	.80351	.63607	,80494	.63817	50
11	.79920	.63980	.80065	.63190	.80209	.63400	.80353	.63611	.80496	.63520	49_
+ 3'	9.79922	.62933	9.80067	.63194	9.80212	.63404	9.80355	.63614	9.80498	.63521	48
13 14	.79925 .79927	.62957 .62990	.80070	.63197	.80214 .80216	.63107	.80358 .80360	.63618 .63621	.80501 .80503	.63827	47 46
15	.79930	.62991	.80075	.63204	.80219	.63414	.80362	.63625	.80505	.63834	45
+ 4'	9.79932	62997	9.80077	63268	9.80221	.63418	9.80365	-63628	9.80508	.63838	44
17	.79935	.63001	.80079	.63211	.80224	.63421	.80367	.63632	.80510	.63841	43
18	.79937	.63004	.80082	.63215	.80226	.63125	.80370	.63635	.80513	.63845	43
19	.79939	.63008	80084	63218	.80228	.63428	.80372	.63639	.80515	.63848	41_
+ 5'	9.79942	.63011	9.80087	.63222	9.80231	.63432	9.80374	.63642	9.80517	.63852	40
21 22	.79944	.63015 .63018	.80089 .80091	.63225 .63229	.80233 .80236	.63435 .63439	.80377 .80379	.63646 .63649	.80520 .80522	.63555 .63859	39 38
23 23	.79947	.63022	.80091	.63232	.80238	.63442	.80382	.63653	.80524	.63862	37
+ 6'	9,79951	.63025	9.80096	- 63236	9.80240	.63116	9.80384	-63656	9.80527	.63866	36
25	,79954	.63029	.80099	.63239	.80243	.63150	.80386	.63660	.80529	.63869	35
26	.79956	.63032	.80101	.63243	.80245	.63453	.80389	.63663	.80532	.63873	34
27	.79959	63036	.80103	63246	,80248	.63457	.80391	.63666	.80534	.63876	33
+ 7'	9.79961	.63039	9.80106	.63250	9.80250	.63160	9.80393	.63670	9.80536	.63880	33
29 30	.79964 .79966	.63043 .63046	.80108 .80111	.63253 .63257	.80252 .80255	.63464	.80396 .80398	.63673	.80539 .80541	.63883	31
31	.79968	.63050	.80113	.63260	.80257	.63471	.80401	.63680	.80543	.63890	29
+ 8'	9.79971	.63053	9.80116	.63264	9.80260	.63474	9.80403	.63684	9.80546	.63591	28
33	.79973	.63057	.80118	.63267	.80262	.63478	.80405	.63687	.80548	.63897	27
34	.79976	.63060	.80120	.63271	.80264	.63481	.80408	.63691	.80551	.63901	26
35	79978	63064	80123	63274	.80267	.63485	.80410	.63694	.80553	.63904	25
$+^{9'}$	9.79980	.63067	9.80125 .80128	.63278	9.80269 .80272	.63188	9.80413 .80415	.63698	9.80555 .80558	.63905	24
38	.79985	.63074	.80130	.63285	.80274	.63495	.80417	.63705	.80560	.63915	22
39	.79988	.63078	.80132	.63288	.80276	.63499	.80420	.63708	.80562	.63918	21
+ 10'	9.79990	.63081	9.80135	.63292	9.80279	.63502	9.80422	.63712	9.80565	.63922	20
41	.79993	.63085	.80137	.63295	.80281	.63506	.80424	.63715	.80567	.63925	19
42	.79995	.63088	.80140	.63299	.80284	.63509	.80427	.63719	.80570	.63929	18
43	,79997	.63092	.80142	.63302	.80286	.63513	.80429	-63722	.80572	.63932	17
+ 11' 45	9.80000 .80002	.63095 .63099	9.80144 .80147	.63306	9.80288 .80291	.63516 .63520	9.80432 .80434	.63726 .63729	9.80574 .80577	.63939	16 15
46	.80005	.63102	.80149	.63313	.80293	,63523	.80436	.63733	.80579	.63913	14
47	.80007	.63106	.80152	.63316	.80296	.63527	.80439	.63736	.80581	.63946	13
+ 12'	9.80009	.63109	9.80154	.63320	9.80298	.63530	9.80441	.63740	9.80584	.63950	13
49	.80012	.63113	.80156	.63333	.80300	.63534	.80444	.63743	.80586	.63953	11
50	.80014	.63116	.80159 .80161	.63327	.80303 .80305	.63537	.80446	.63747	.80589 .80591	.63957	10
$\frac{-51}{+43}$	80017 9.80019	63120 $63123$	9.80164	.63334	9.80307	.63544	9.80451	.63754	9.80593	.63964	-8
$+\frac{43}{53}$	.80022	.63127	.80166	.63337	.80310	.63518	.80453	.63757	.80596	.63967	7
54	.80024	.63131	.80168	.63341	.80312	.63551	.80455	.63761	.80598	.63971	6
55	.80026	.63134	.80171	.63344	.80315		80458	.63764	.80600	63974	5
+ 11'	9.80029	.63138	9.80173	.63348	9.80317	.63558	9.80460	.63768	9.80603	.63977	4
57	.80031	.63142	.80176	.63351	.80319	.63562	.80463	.63771	.80605 .80607	.63981	3
58 59	.80034 .80036	.63145	.80178 .80180	.63355 .63358	.80322 .80324	.63565 .63569	.80465 .80467	.63778	.80607	.63988	1
+ 15'	9.80038	.63148		63362	9.80324	.63572	9.80470	.63782	9.80612	.63991	
T + 13	9.00038	.09193	3.50153	.00000			-				
	16h	59m	16h	58m	16h	57m	16h	56m	16h	55m	
			·								

Page 8961

TABLE 45.

Page	0.00				Haver-ii	1111					
	1 1	06 15	- 1	06 - 10	75.70 1		7h 8m	107° 0′	7h 9m 1	07° 15′	_
			Hir	Nat. Da	Log. H iv	N 81.11 V	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	3
		.60001	1.50754	.61201	9.80895	.64410	9.81033	.61619	9.81176	.64527	60
	1	.63995	80756	.64204	50595	.61113	810.38	.64622	.81178	.64831	59
		.63095	80759 80761	.64208	<0900 <0902	.64417 .64420	\$1040 \$1043	.64626	.81180 .81183	.61534	58 57
- 1		-64005	5 5070.1	.64215	9 80905	.64124	9 81045	64632	9.81185	.61841	56
	1	.61009	86266	.61215	80907	.64127	\$1047	.64636	81187	.61844	55
	629	.61012	\$0768 80771	.64222	\$0909 .80912	.64434	\$1050 .81052	.64639 .64643	81190 .81192	.64515	54 53
-2	1 131	.64019	9 -07773	.64229	9 50913	.64435	9 81054	.64646	9 81194	.64855	32
	- 631	.64023	80775	.64232	SIPILIS	.64111	81057	.61650	.81197	.61858	51
	~96.36 ~36.38	.64026	50775	.61236	<0919 <0923	.64445	\$1059 \$1061	.64653	.51199 81201	.64862 .64865	50 39
	9 200.11	.61033	9.507.52	.61213	1.80000	.64452	9 < 1064	.61660	9.81201	.64569	48
1	80543	.64037	807.85	.64216	80926	.61455	81066	.64664	.81206	.64872	47
1	800.35	.64040	50757 50759	.61250 .61253	509.0	.61459	\$1068 \$1071	.64667	81208 81211	.64576	36 35
- 1	11 -00 -01	.61017	9.80,92	.61257	9 80933	.64466	81073	.61674	9.81213	.61553	44
17	80652	.64051	80794	.64260	80935	.64469	81075	.64675	.81215	.64556	43
1	809,55	.64651	807.3	.64261	809.17	.61172	×1074	.64684	.51217	.61590	42
17	\$0657 9 50660	.61953 .61061	9.86801	.61267	80940 9 80942	.61476	\$1080 9 \$1082	.64655	\$1220 9 \$1222	.64893	31
- 5	S1662	.64965	50504	.61274	80911	.64453	81082	.61692	81221	.64900	39
	80661	.64065	5115116	.64277	50947	.64456	81087	.64695	81227	.64903	38
	S0607	.64072	501505	.64284	80949	.61190	\$1089	.61699	81229	.64907	57
6	9 S0659 S067 I	.61075	9 80811 80813	.61281	9 80952 80954	.61193	9 81092 81094	.64702	9 81231 81234	.64910 .64914	36 35
	80674	.64082	80815	.61291	80956	.61500	\$1096	.64709	81236	.64917	34
	80676	.61086	80818	.61295	80959	.64504	81099	.64712	.81238	.64924	33
7	9 80678 8	.64059 .64093	9 ×0×20 ×0×22	.64298	9 80961 80963	.64507 .64511	9 81101 81103	.61716	9 ×1241 ×1243	.64924	32
''	50653	.61093	50825	.64305	\$0966	.64514	S1103 S1106	.64723	\$1245 \$1245	.64934	30
17	50656	.64100	50827	.64309	80968	.61518	81108	.64726	81248	.61935	29
- 4	9.50655	.64103	9.80829	.61312	9 80970	.64524	9.51110	.64730	9.81250	.64938	28
-	S0690 S0693	.64107 .64110	80832 80834	.61316	80973 80975	.64525	\$1113 \$1115	.64733	81252 81255	.64942 .64945	27 26
	80695	.64114	50836	.61323	80977	.64532	81117	.64740	81257	.61949	25
. 9	9.50697	.64117	9.80839	.64326	9 80980	.61535	9.51120	.64744	9.81259	.64952	23
-17	80700 80702	.64124	50541	.64330	S09S2 S09S4	.61539	81122 81124	.64747 .64751	.81262 81264	.64956 .64959	23
9	80701	.64125	80846	.61337	511957	.61546	81127	.64754	.81266	.64962	21
10	9 -0707	.61131	9.80848	.64340	9.50989	.61549	9.81129	.61758	9.81269	.64966	20
1007	80709 80712	.64135	80851 80853	.64344	S0991 S0994	.61552	81131	.64761	81271 81273	.64969	19
	80713	.64138 .64142	80855	.61354	SUPPL	.64556	81134 81136	.64765	81273	.64973	18 17
- 14	9.80716	.64115	9.50555	.61351	9 80998	.64563	9 81138	647.2	9 81278	649×0	16
	80, [9]	.61115	80860	.61355	81001	.64566	81141	.64775	.81280	.64983	15
	80721 80723	.64152 .64155	80862 80865	.64364	\$1003 \$1005	.61570 .61573	81143 81145	.61778	81282 81285	.64957	13
12	9 50 9,	.64159	9 50507	.61365	9.51005	. 1577	9.51148	.647%5	9 81287	64994	12
	80728	.61162	808629	.61372	81010	.61550	81150	.64739	81289	.64997	11
	\$07.30 \$0.73	.61166	50574	.64375	\$1012 \$1015	.61584	81152 81155	.61792	\$1292 \$1294	.65001	10
1.4	1 -11	.61173	9 80876	.61352	9.81017	.61591	9.81157	.61796	9.81296	.65008	-8
***	-11 %	.61176	50579	.61355	\$1019	.61591	81159	.64503	.81299	.65011	- 7
	*(1 fr)	.61150	50551	.61389	\$10° \$10°)	.61505	51162	.61506	51301	.65011	-6
11	-00.3	.61183	9 511551	.64392	9.81026	.61601	51164 9 51166	.61813	81303 9 81306	.65015	_; _;
1.4	40	.61190	41144	.61399	51029	.61605	81169	.61813	\$1308	,65025	-3
	90 ()	.61194	-0.591	.61103	Short	.61612	81171	.64920	81310	.65028	- 2
Б	. ,	.6(197)	*(1×1)	.61106	\$103.1	.61615	81173	.61524	\$1313	65032	_1_
[]	, ,	.04.701	1 - 1-11	.61410	9.810.35	.61619	9 81176	.61527	9.51315	.65035	0
			, , , 1		10.5		1 e. h	+1 1	11, h.	um	
	,										_

	7h 10m 107° 30'		7h 11m 107° 45'		7h 12m 108° 0'		7h 13m 108° 15'		7h 14m 108° 30'		
s	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	S
$\theta$	9.81315	.65035	9.81454	.65243	9.81592	.65451	9.81729	.65658	9.81866	.65865	60
1	.81317	.65039	.81456	.65247	,81594	.65454	.81731	.65662	.81868	.65869	59
2 3	.\$1320 ,\$1322	.65042 .65046	.81458 .81460	.65250 .65254	.81596 .81598	.65458 .65461	.81733 .81736	.65665 .65668	.81870 .81872	.65872 .65876	58 57
+ 1′	9.81324	.65049	9.81463	.65257	9.81601	.65465	9.81738	.65672	9.81875	.65879	56
5	.81326	.65053	.81465	.65261	.81603	.65468	.81740	.65675	.81877	.65882	55
6	.81329	.65056	.81467	.65264	.81605	.65172	.81743	.65679	.81879	.65836	54
7	.81331	.65060	.81470	65267	.81608	.65475	.81745	.65682	.81882	.65889	53
+ 2'	9.81333	.65063	9.81472	.65271	9.81610	.65479	9.81747	.65686	9.81881	.65893	52
9 10	.81336 .81338	.65066 .65070	.81474 .81477	.65274 .65278	.81612 .81614	.65482 .65485	.81749 .81752	.65689	.81886 .81888	.65896 .65900	51 50
11	.81340	.65973	.81479	.65281	.81617	.65189	.81754	.65696	.81891	.65903	49
+ 3′	9.81343	.65077	9.81481	.65285	9.81619	.65492	9.81756	.65790	9.81893	.65907	48
1.3	.81345	.85980	.81483	.65288	.81621	.65496	.81759	.65703	.81895	.65910	47
14	.81347	.65084	.81486	.65292	.81624	.65499	.81761	.65707	.81897	.65914	46
15	.81350	.65987	181488	.65295	.81626	65503	.81763	65710	,81900	.65917	45
+ 17	9.81352 .81354	.65091 .65094	9.81490 .81493	.65299 .65302	9.81628 .81631	.65506 .65510	9.81765 .81768	.65713 .65717	9.81902 .81904	.65920 .65924	44 43
18	.81354	.65098	.81495	.65306	.81633	.65513	.81768	.65720	.81904	.65927	42
19	.81359	.65101	.81497	.65309	.81635	.65516	.81772	.65724	.81909	.65931	41
+ 5	9.81361	.65105	9.81500	.65312	9.81637	.65520	9.81775	.65727	9.81911	.65934	40
21	.81364	.65108	.81502	.65316	.81640	.65523	.81777	.65731	.81913	.65938	39
22	.81366	.65112	.81505	.65319	.81642	.65527	.81779	.65734	.81916	.65941	38 37
+ 6'	$\frac{.81368}{9.81370}$	.65115	$\frac{.81507}{9.81509}$	.65323 .65326	$\frac{.81644}{9.81647}$	.65534	.81781	.65738	$\frac{.81918}{9.81920}$	.65944	36
+ 6'	.81373	.65122	.81511	.65330	.81649	.65537	9.81784 .81786	.65741	.81922	.65951	35
26	.81375	.65125	.81513	.65333	.81651	.65541	.81788	.65748	.81925	.65955	34
27	.81377	.65129	.81516	.65337	.81653	.65544	.81791	.65751	.81927	.65958	3.3
+ 7'	9.81380	.65133	9.81518	.65340	9.81656	.65548	9.81793	.65755	9.81929	.65962	32
29	.81382	.65136	.81520	.65344	.81658	.65551	.81795	.65758	.81931	.65965	31
30 31	.81384 .81387	.65139 .65143	.81523 .81525	.65347 .65351	.81660 .81663	.65555 .65558	.81797 .81800	.65762 .65765	.81934 .81936	.65969 .65972	30 29
+ 8'	9.81389	.65146	9.81527	.65354	9.81665	.65561	9,81802	.65769	9.81938	.65976	28
33	.81391	.65150	.81530	.65357	.81667	.65565	.81804	.65772	.81941	.65979	27
34	.81394	.65153	.81532	.65361	.81669	.65568	.81806	.65776	.81943	.65982	26
35	.81396	.65157	.81534	.65364	81672	.65572	.81809	.65779	.81945	.65986	25
+ 9'	9.81398	.65160	9.81536	.65368	9.81674	.65575	9.81811	.65782	9.81947	.65989	24
37	.81400 .81403	.65164	.81539	.65372 .65375	.81676 .81679	.65579 .65582	.81813 .81816	.65786 .65789	.81950 .81952	.65993 .65996	23
38 39	.81405	.65167 .65171	.81541 .81543	.65378	.81681	.65586	.81818	.65793	.81954	.66000	21
+ 10'	9.81407	.65174	9.81546	.65382	9.81683	.65589	9.81820	.65796	9.81956	.66003	20
41	.81410	.65177	.81548	.65385	.81685	.65593	.81822	.65800	.81959	.66006	19
43	.81412	.65181	.81550	.65389	.81688	.65596	.81825	.65803	.81961	.66010	18
43	.81414	65184	.81552	.65392	.81690	.65599	.81827	.65807	.81963	.66013	17
+ 11'	9.81417 .81419	.65198 .65191	9.81555 .81557	.65396 .65399	$9.81692 \\ .81695$	.65603 .65606	.81829 .81832	.65810 .65813	9.81965 .81968	.66017	16 15
45 46	.81419	.65191	.81559	.65402	.81695	.65610	.81832	.65817	.81968	.66024	14
47	.81424	.65198	.81562	.65406	.81699	.65613	.81836	.65820	.81972	.66027	1.3
+ 12'	9.81426	.65202	9.81564	.65109	9.81701	.65617	9.81838	.65824	9.81975	.66031	12
49	.81428	.65205	.81566	.65413	.81704	.65620	.81841	.65827	.81977	.66034	11
50	.81430	.65209	.81569	.65416	.81706	.65624	.81843	.65831	.81979 .81981	.66038 .66041	10 9
51	.81433	.65212	.81571	.65420	.81708	.65627 .65630	.81845 9.81847	65834 65838	$\frac{.51851}{9.81984}$	.66044	
+ 13'	9.81435 .81437	.65216 .65219	9.81573 .81575	.65423 .65427	9.81711 .81713	.65634	.81850	.65841	.81986	.66045	8 7
54	.81440	.65222	.81578	.65430	.81715	.65637	.81852	.65845	.81988	.66051	6
55	.81442	.65226	.81580	.65434	.81717	.65641	.81854	.65818	.81990	.66055	_5
+ 14'	9.81444	.65229	9.81582	.65437	9.81720	.65641	9.81857	.65851	9.81993	.66058	4
57	.81447	.65233	.81585	.65440	.81722	.55648	.81859 .81861	.65855 .65858	.81995 .81997	.66063	3
58 59	.81449 .81451	.65236 .65240	.81587 .81589	.65444	.81724 .81727	.65651 .65655	.81861	.65862	.81997	.66068	2
+ 15'	9.81454	.65243	9.81592	.65151	9.81727	.65658	9.81866	.65865	9.82002	.56072	0
T 19	-										
	16h	49m	16h	48m	16h 4	7 m	16h	$46^{m}$	15h	4.5m	
	1 20 70			THE RESERVE	1						-

Page 898]

#### TABLE 45.

	7h 15m 10% 45'		7h 16m 109° 0'		7h 17m 109 15'		7h 18m	109° 30′	7h 19m		
. 5	Log Hav	Nat HD	Log. Hav.	Nat. Hav	Log. H c	V.: it.:	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	9
0	0.82002	.66072	9.82137	.66278	9.82272	.66455	9,52106	.66690	9.82540	.66596	60
1	,5200 £	.66079	S2139 S2142	.66252	S2274 S2277	.66455	.82409 .82411	.66694	.82542 .82544	.66993	59 58
3,	<2009 <2009	.66052	82141	.66259	\$2279	.66195	S2413	.66701	.82547	.66906	57
+ 1'	9.82011	.66056	9.82136	.66292	9 82281	.66495	9.82415	.66704	9,82549	.66910	56
5	82013	.66039	.82148		82283	.66502	.82417	.66707	.82551	.66913	55
7.	52015	.66093	82151 8215a	.66299	.×22×6	.66505	.82420 .82422	.66711	.82553 .82555	.66916	5.
+ 2	\$2018 9.82020	66096 66100	9.82155	.66306	9.82290	.66512	9.82424	.66718	9,82558	.66923	52
7 9	S2022	.66103	1335	.66309	S2292	.66515	\$2426	.66721	\$2560	.66927	51
10	.52024	.66106	82160	.66313	.82291	.66519	.82429	.66725	.52562	.66930	50
11	\$2027	.66110	S2162	.66316	\$2297	66572	_82431	.66728	.52564	.66933	49
$+\frac{3'}{B}$	9 82029 82031	.66113	9.82164 .82160	.66323	9,82299 -,82301	.66526	9.82433	.66731	9.82567 .82569	66937 66940	48
13	.82031	.66420	100 	.66327	\$2303	.66533	\$2438	.66738	82571	.66944	46
15	.82036	.66124	82171	.66330	.82306	.66536	.82440	.66742	.82573	.66947	4.5
+ 1'	9,820.38	.66427	9.52173	.66333	9,82308	.66539	9,52442	.66745	9,82575	.66951	44
17 18	. \$2040 \$2042	.66430	.52175 82178	.66337	.82310 .82312	.66546	.82444 .82446	.66749		.66954 .66957	43
10	82042	.66137	\$2180	.66314	.52315	.66550	.52140	.66755	.52582	.66961	31
+ 5	9.82047	.66114	9,82182	.66347	9 82317	.66553	9.82451	.66759	9 82584	.66964	40
21	\$2049	.66414	.82184	.66351	82319	.66557	.82453	.66762	.82587	.66965	39
- 44	\$2051 \$2054	.66151	\$2187 \$2189	.66351 .66357	. \$2321 \$2324	.66568	.82455 .82458	.66766	.82589 .82591	.66971	38 37
+ 6	9 82056	.66155	9.82191	.66361	9.82326	.66567	9.82460	.66773	9,82593	.66975	36
T	82058	.66155	\$2193	.66364	82328	.66570	.82162	.66776	.82595	.66951	35
26	S2061	.66161	\$2196	.66368	82330	.66574	.82464	.66779	82598	.66955	34
- 17	~206.3	.66165	.82198	.66371	82333	.66577	.82467	66783	.82600	.66955	33
+ ,7	9 82065	.66465 .66172	9 S2200 S2202	.66375	9.82335 .82337	.66581	9.82469 .82471	.66786	9.82602	.66993	32 31
377	\$2070	.66175	\$2205	.66352	S2339	.66587	82173	.66793	.82606	.66995	30
37	\$2072	.66179	82207	.663%	82341	.66591	.82475	.66797	.82609	.67002	29
+ $8'$	9.82074	.66482	9.82209	.66344	9 82344	.66594	9,82478	.66800	9.82611	.67005	28
34	\$2076 \$2079	.66156	82211 82214	.66393 .66395	\$23.46 .823.48	.66595	.52480 .82482	.66503	.82613 .82615	.67009 .67012	27 26
35	82081	.66492	\$2216	.66399	82350	.66605	25181	.66510	.82618	.67012	25
9	9 (20%)	.66196	9 82218	.66402	9 82353	.66605	9.82487	.66514		.67019	25
.37	\$2085	.66199	.82220	.66406	82355	.66611	.82489	.66817	,82622	.67022	23
38	×2055 ×2090	.66203	\$2003 \$0005	.66409	82357. 82359	.66615	.82491 .82493	.66521	.82624	.67026	22
10	9 52092	.66210	9 82227	.66416	9 82362	.66622	9.82495	.66527	.82627 9.82629	.67029	$\frac{21}{20}$
11	52094	.66213	\$2229	.66119	82364	.66625	JS2498	.66531	,82631	.67036	19
4.2	82097	.66217	.82232	.66123	\$2366	.66629	.82500	.66831	82633	.67039	18
[3] L 112	52094	.66230	82234	.66426	82368	.6663?	82502	.66535	82635.	.67043	17
+ <b>H</b> ′ 35	9 S2101 S2103	.66223	# 82236 82238	.66430	9.82371 82373	.66635	9,82504 82507	.66544	9 82638 82640	.67016 .67050	16 15
\$16	52106	.66230	82231	.66136	82375	.66642	.82509		.82642	.67053	13
17	82108	.66234	82244	.66410	52377	.66646	82511	.66551	.82644	.67057	18
42	9 82110 82112	.66237	9 82215	.66413	9 82380	.66649	9.82513	.66%5	9.82646	.67060	12
* '	S2112 S2115	.66244	\$2247 \$2250	.66447	\$2382 \$2384	.66653	\$2515 .82518	.66555	.82649 .82651	.67963	11 10
	Shir	.66217	82252	.66454	82386	.66659	82520	.66565	.82653	.67070	9
+ 14	9.82119	,66254	9 82251	.66457	9.82388	.66663	9 82522	.66565	9.82655	.67074	- 8
1.	\$2121 \$2124	.66254	\$2256 \$2259	.66160	82391	.66666	.82521	.66572	.82657	.67077	8
	52104 53126	.66264	\$2,261	.66164 .66467	\$2393 82395	.66678	.82527 82529	.66575	.82660 .82662	.67051	6 5
+ 11	9.52125	.66265	h 82263	.66471	9 82397	.66677	9 52531	.66552	9.82664	.67057	3
- 7	82130	.66268	82265	.66474	52 (00)	.66650	.82533	.66556	.82686	.67091	3
35	S2133 - 52135	.66272	\$ 268	.66478	\$2,000	.66683	\$2535	.66559	.82668	.67094	2
1.5	921 D 9 SJ137	.66275	822.0 9 823.2	.66454	.52404 9.52406	666%7	82538	.66892	.82671	.67095	1
1.7			1 1 1 1 1 1	.001%)	9 42 100	.66690	9.825(0	.66%96	9 82673	.67104	0
	7. 3	1 -	16h	4 (m	17.5	3 19	16h	.; 1 m	1+.h	Jr 191	
											1

	7h 20m 110° 0′		7h 21m 110° 15'		7h 22m 110° 30'		7h 23m 110° 45'		7h 24m 111° 0′		
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	S
0	9.82673	.67101	9.82805	.67306	9.82937	.67510	9.83068	.67715	9.83199	.67918	60
1	.82675 .82677	.67104 .67108	.82807	.67309	.82939	.67514	,83070	.67718	.83201	.679??	59
3	.82680	.67111	.82810 .82812	.67313	.82941 .82941	.67517 .67521	.83073 .83075	.67721 .67725	.83203 .83205	.67925 .67929	58 57
+ 1'	9.82682	67115	9.82814	.67320	9.82946	.67524	9.83077	.67725	9.83207	.67932	56
5	.82681	.67118	.82816	.67323	.82948	.67527	.83079	.67732	.83210	.67935	55
6	.82686	.67122	.82818	.67336	.82950	.67531	.83081	.67735	.83212	.67939	54
$\frac{\gamma}{+2'}$	$\frac{.82688}{9.82691}$	$\frac{.67125}{.67128}$	.82821 9.82823	67330 67333	,82952	.67534	.83083	.67738	83214	.67942	53
$+ \frac{2'}{9}$	.82693	.67133	,82823	.67337	9.82955 .82957	.67538 .67541	9,83086	.67743	9.83216 .83218	.67946	53 51
10	.82695	.67135	.82827	.67340	.82959	.67541	.83090	.67749	.83220	.67952	50
11	_,82697	.67139	.82829	67313	.82961	.67548	.83092	.67752	.83223	.67956	49
+ 3'	9.82699	.67142	9.82832	.67347	9.82963	.67551	9.83094	.67755	9.83225	.67959	48
13 14	.82702 .82704	.67145	.82834 .82836	.67350 .67354	.82966 .82968	.67555	.83097 .83099	.67759	,83227 ,83229	.67963 .67966	47
14 15	.82704	.67152	.82838	.67357	.82970	.67558 .67561	.83039	.67762	.83231	.67969	46 45
+ 4'	9.82708	.67156	9.82840	.67360	9.82972	.67565	9,83103	.67769	9,83233	.67973	44
17	82710	.67159	.82843	.67364	.82974	.67568	.83105	.67772	.83236	.67976	43
18	.82713	.67163	.82845	.67367	.82976	.67572	.83107	.67776	.83238	.67979	43
19	.82715	-67166	.82847	.67371	.82979	-67575	.83110	.67779	.83240	- 67983	41
+ 5'	9.82717 ,82719	.67169 .67173	9.82849 .82851	.67374	9.82981	.67578 .67582	9.83112 .83114	.67783 .67786	9.83242 .83244	.67986	40 39
22	.82722	.67176	.82854	.67381	.82985	.67585	.83116	.67789	.83246	.67993	38
23	.82724	.67180	.82856	.67384	.82987	.67589	.83118	.67793	.83249	.67996	37
+ 6'	9.82726	.67183	9.82858	.67358	9.82990	.67592	9.83120	.67796	9.83251	.68000	36
25	.82728	.67186	.82860	.67391	.82992	.67595	.83123	.67800	.83253	.68003	35
26 27	.82730 .82733	.67190 .67193	.82862 .82865	.67395 .67398	.82994 .82996	.67599 .67602	.83125 .83127	.67803 .67806	.83255 .83257	.68007 .68010	34 33
+ 7	9.82735	.67197	9.82867	.67401	9.82998	.67606	9.83129	.67810	9.83259	.65013	32
29	.82737	.67200	.82869	.67405	.83001	.67609	.83131	.67813	.83262	.65017	31
30	.82739	.67203	.82871	.67408	.83003	.67613	.83134	.67817	.83264	.68020	30
31	.82741	.67207	.82873	.67412	.83005	.67616	.83136	67820	.83266	.68024	29
+ 8′	9.82744 .82746	.67210 .67214	9.82876 .82878	.67415 .67418	9.83007 .83009	.67619 .67623	9.83138 .83140	.67823 .67827	9.83268 .83270	.68027 .68030	28 27
34	.82748	.67217	.82880	.67422	.83011	.67626	.83142	.67830	.83272	.68031	26
35	.82750	.67221	.82882	.67425	.83014	.67630	.83144	.67834	.83275	.68037	25
+ 9'	9.82752	.67224	9.82884	.67429	9.83016	.67633	9.83147	.67837	9.83277	.68041	24
37	.82755	.67227	.82887	.67432	.83018	.67636	.83149	.67840	.83279	.68044	23
38 39	.82757 .82759	.67231 .67234	.82889 .82891	.67435 .67439	.83020 .83022	.67640 .67643	.83151 .83153	.67844 .67847	.83281 .83283	.68047 .68051	22 21
+ 10'	9.82761	.67238	9.82893	.67443	9.83025	.67647	9.83155	.67850	9.83285	.68054	20
41	.82763	.67241	.82895	.67446	.83027	.67650	.83157	.67851	.83288	.68058	19
42	.82766	.67244	.82898	.67449	.83029	.67653	.83160	.67857	.83290	.68061	18
43	.82768	.67248	.82900	.67452	.83031	67657	.83162	.67861	.83292	.68064	17
+ 11' 45	9.82770 .82772	.67251 .67255	9.82902 .82904	.67456 .67459	9,83033	.67660 .67664	9.83164 .83166	.67864 .67868	9.83294 .83296	.68068	16 15
45 46	.82774	.67258	.82904	.67463	.83033	.67667	.83168	.67871	.83298	.68074	14
47	.82777	.67261	.82909	.67466	.83040	.67670	.83170	.67874	.83301	.68078	13
+ 12'	9.82779	.67265	9.82911	.67469	9.83042	.67674	9.83173	.67878	9.83303	.68081	12
49	.82781	.67268	.82913 .82915	.67473	.83044	.67677	.83175	.67881	.83305 .83307	.68055	11 10
50 51	.82783 .82785	.67272 .67275	.82915	.67476 .67480	.83046 .83049	.67681 .67681	.83177	.67881	,83309	.65091	9
$\frac{31}{+13'}$	9.82788	67279	9.82920	.67483	9.83051	67687	9.83151	.67891	9,83311	.68095	-8
53	.52790	.67282	.82922	.67487	.83053	67691	.83184	.67895	.83314	.68098	7
54	,82792	.67285	.82924	.67490	.83055	.67694	83186	.67898	.83316	.68102	6 5
55	.82794	.67289	.82926	67493	.83057	67698	.83188	.67901	.83318 9.83320	.68195	
+ 14'	9.82796 .82799	.67292 .67296	9.82928	.67497 .67500	9.83059	.57701 .67704	9.83190 .83192	.67905 .67908	.83320	.68108	4 3
57 58	.82799	.67299	.82933	.67504	.83064	.67708	,83194	.67912	.83324	.63115	2
<b>5</b> 9	.82803	.67302	.82935	.67507	.83066	.67711	.83197	.67915	.83327	68119	1
+ 15'	9.82805	.67306	9.82937	.67510	9.83068	.67715	9.83199	.67918	9.83329	.68122	0
	16h	.99m	16h	2Sm	16h	37 m	16h	16h 36m		,35m	
	16h 39m		16h 38m		100 07.00		10~ 00		20- 00		

	7h _ 3m 111° 15'		7h 26m 111° 30'		7h 37m 111° 45'		7h 28m 112° 0'		7h 29m 112° 15'		
											1
	Los Hay	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat, Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	S
-	4 5 24	.65122	9,83458	.65325	9,83587	.65525	9.53745	.68730	9.83842	.65332	60
1	1	.65125	.53160	,65328	83589	.68531	.83717	.65734	.83814	65936	59
1 1	5 13.33	.65129	83462	.68332	.83591		.83719	.65737	,83817	.68939	58
1	s . 1.15	.68132	.83461	.65335	,83593	.68538	.83721	.68740	.83849	.65943	57
1	9 - 1 - 17	.68135	9.83167	.6×339	9,83595	.68511	9.83723	.65744	9.83851	.65946	56
	× 539	.68139	.53469	.68312	.84547	.68515	.83725	.68747	.83853	.68919	55
1 /	1 1 L	.65142	.53471	.68345	.83500	.65515	.83728	.65751	.83855	.68953	54
1 2	-1,11	.65116	.83473	.68349	.83602	.68552	.53730	.65754	.83857	.68956	53
3	10 mm	.68149	9,84475	.65352	9.83604	.65555	9.83732	.65757	9,83859	.68959	52
9	145	.65152	.83177	.68356	.83696	.(; \.; ; \.)	.83734	.65761	.83861	.68963	51
10	< 17.10	.65156	.83480	J68359	.53605	.65562	.83736	.65761	.83864	.65966	50
11	2000	.68459	.83482	.6×36?	83610	45565	.53735	.68767	.83866	.6896a	49
3	9.8117		9.53154	.68366	9.83612	.65565	9.83740	.65771	9.83568	.65973	48
1	8.07	.65166	.53456	.65369	.83615	.68572	.83743	.65774	.53870	.65976	47
1.	S150 S150	.65169	121124	.68372	.83617	.6575	.83745	.68778	.53872	.65950	46
1+			.83490	.65376	.83619	.68579	.83747	.65751	.83874	68983	4.5
1	9,85564	.65176	9 83492 83495	.65353	9,83621 .83623	.6555	9.83749 .83751	.65754	9.83876	.68986	-5-5
1. 15	5.5565	.65153	.83197	.65356	.83623 .83625	.68589	.83753	.65755	.83878 .83881	.68990	43
12	S.i.j. ()	.65156	S3499	.65359	83627	.68592	.83755	.68794	.53553	.65996	42
5	9.83372	.68190	9 83501	.68393	9,83630	,68595	9.83757	.65795	9.83885	.69000	41
1	83.574	.68193	.83503	.68396	.83632	.68599	.83760	.68804	.83887	.69003	39
	×3.576	.65196	\$3505	6×399	.83634	.65602	.83762	.65501	83889	.69006	38
	1833.5	.68200	.83507	.65103	.83636	.68606	.83764	.65505	83891	.69010	37
. 6	9184350	.68203	9.83510	.65106	9 83638	.65609	9.83766	.68811	9.83893	.69013	36
	84384	.68207	.83512	.68110	\$3640	.65612	.83768	.68815	.83895	.69017	35
} /-	8,1485	.68210	.83511	.68413	.83642	.68616	.83770	.65515	.83897	.69020	34
	51.57	.68213	.83516	.65146	\$3644	.68619	83772	.68821	.83900	.69023	33
. 7	9 5 . 389	.68217	9.83518	.68420	9,83647	.656??	9.83774	.68825	9 83902	.69027	32
"	\$3,391	.68220		.68423	.83649	.68626	.83777	.68828	.83901	.69030	31
,()	8 3,39,3	.68224	.83522	.65127	.83651	.68629	.83779	.68831	.53906	.69033	30
= 1	53396	.68227	83525	.65430	83653	.65633	83781	.65535	.83908	.69037	29
N	9.83398	.68230	9.83527	.68433	9.83655	.65636	9.83783	.68838	9,82910	.69010	28
	\$3400 \$3402	.68234	.83529 .83531	.68137	.83657 83659	.65639	.83785	.68842	.83912	.69044	27
*	\$3401	.65210	.53533	.65443	.83662	.65616	.83787 83789	.68845	.83911 .83916	.69047	26
9	9 83400	.68244	9.83535	-,68117	9.83664	.65619	9.83791	.65552	9.83919	69050 69054	25
	.83409	.68217	\$3537	.65150	83666		.83794	.65555	.83921	.69057	24
,	\$1111	.68251	.53540	.68454	83668	.68656	.83796	.65555	.83923	.69060	23
9	53413	.68254	83542	.65457	53670	.65660	.83798	.68862	83925	.69064	21
10	9.83115	.68257	9.83511	-65460	9.839172	.68663	9.83800	.68865	9.83927	-,69067	20
+1	5117	.68264	.83546	.65161	\$3674	.65666	.83802	65569	.83929	.69070	19
111	83419	.68261	53548	.65167	83676	.65670	83804	.68872	.83931	.69074	18
	8.021	.65265	.83550	.68470	83679	.65673	83806	.68875	.83933	.69077	17
11	9 5 324	.68274	9 83552	.68171	9.83681	.68676	9.83808	.65579	9,83935	.69050	16
1	511.9	.68274	.83555	.65177	8.0683	.65650	83811	.65552	.83938	.69081	1.5
	51125	.68278	.\$3557	.65151	.83085	.65653	.83813	.63355	.83940	.69057	1.5
	\$ 11.0	.68284	,53559	.68181	.80687	.65657	83815	.65559	_53942	_,69091	1.3
12	95112	.68281	9.83561	.681-7	0.82985	.68690	9.53517	.68892	9,53944	.69091	12
	\$ 11.11	.65255	\$1563 \$3565	.65194	83691	468693	.83819	.68895	,53946	69097	11
		.68295	835.67	.68194	\$3694 \$3696	.68697	83821	.68599	.83948	.69101	10
1:1	9 - 41	.65295	9.55.70	.68501	9 5 3595	.65703	83823	.68902	.83950	.69101	.9
1-1		.65304	815.2	.65501	\$ 17100	.65703	9,53825	.68906	9 83952 83955	.69107	2
	. 11.		81171	.6505	.83701	.65710	33830	.68942	S3957	.69114	6
	1	,65305	\$1176	,68511	8 504	.65713	121213	.65916	83959	.69117	3
16		.68312	9 - 1	.68515	9 8 1 10)	.68717	9.83831	.68949	9 53961	.69424	- 3
		.68315	5 (50)	.68518	81.08	.65720	\$ 18.06	.65922	83063	.69424	1.5
		.68318	1.57	.68521	35111	68721	11115	65926	83965	.69427	
		.68322	1.10	.08525	81.11	.68727	\$3540	.559.29	S 1967	.69431	1
15	1	.08335		455%	last ,	. 57 10	0 < 1812		9 833.9	,69134	1 0
					1			-			1
1	1		1 .				1 1, 2		£ 10 .	. 1	1

	7h 30m	112° 30′	7h S1m	112° 15′	7h 32mt	113 ° 0′	7h 33m	H3° 15′	7h 34m	[13° 30′	
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hay	Log. Hav.	Nat. Hav	Log. Hav.		Log. Hav.		s
0	9.83969	.69134	9.84096	.69336	9.84221	.69537	9.84346	.69737	9.84471	.69937	60
1	.83971	.69138	.84098	.69339	.84223	.69540	.84349	.69741	.84473	.69941	59
2 3	.83974 .83976	.69141 .69144	.84100 .84102	.69342 .69346	.84226 .84228	.69543 .69547	.84354 .84353	.69744	.84475	.69914	58
+ 1'	9.83978	.69145	9.84104	.69349	9.84230	.69550	9.84355	.69747	.84477 9.84479	.69947	57
5	.83980	.69151	.84104	.69352	.84232	.69553	.84357	.69754	.84481	.69951	56 55
6	.83952	.69151	.84108	.69356	.84234	.69557	.84359	.69757	.84483	.69957	54
7	.83984	.69158	84110	.69359	.84236	.69560	.84361	.69761	.81485	.69961	53
+ 2'	9.83986	.69161	9.84112	.6936?	9.84238	.69563	9.84363	.69761	9.84488	.69964	52
10	.83990	.69164	.84114 .84117	.69366 .69369	.84240 .84242	.69567 .69570	.84365 .84367	.69767 .69771	.84490 .84492	.69967	51 50
11	.83992	.69171	.84119	.69372	.84244	.69573	.84369	.69774	.84494	.69974	49
+ 3'	9.83995	.69174	9.84121	.69376	9.84246 .84248	.69577	9.84371	.69777	9.84496	.69977	48
13	.83997	.69178	.84123	.69379	.84248	.69580	.84373	.69781	.84498	.69981	47
14	.83999	.69181	.84125	.6938?	.84251	.69583	.84376	.69781	.84500	.69984	46
+ 4'	$\frac{.84001}{9.84003}$	.69185	$\frac{.84127}{9.84129}$	.69386	.84253	-69587	.84378	.69787	.84502	.69987	4.5
+ 4'	.84005	.69191	.84131	.69389 .69393	9.84255 .84257	.69598	9.84380 .84382	.69791 .69794	9.84504	.69991 .69994	44 43
18	.84003	.69195	.84133	.69396	.84259	.69597	.84384	.69797	.84508	.69997	42
19	.84009	.69198	.84135	.69399	.84261	.69600	.84386	.69801	.84510	.70001	41
+ 5'	9.84011	.69201	9.84138	.69403	9.84263	.69603	9.84388	.69804	9.84512	.70004	40
21	.84014	.69205	.84140	.69406	.84265	.69607	.84390	.69807	.84514	.70007	39
23 23	.84016 .84018	.69208	.84142 .84144	.69409 .69413	.84267 .84269	.69610 .69611	.84392 .84394	.69811 .69814	.84517 .84519	.70011 .70014	38 37
+ 6'	9.84020	.69215	9.84146	.69416	9.84271	.69617	9.84396	.69817	9.84521	.70017	$\frac{37}{36}$
25	.84022	.69218	.84148	.69419	.84274	.69620	.84398	.69821	.84523	.70021	35
26	.84024	.69221	.84150	.69423	.84276	.69624	.84400	.69824	.84525	.70024	34
27	.84026	.69225	.84152	.69426	.84278	.69627	.84403	.69827	.84527	.70027	33
+ 7'	9.84028	.69228	9.84154	.69429	9.84280	.69630	9.84405	.69831	9.84529	.70031	32
29 30	.84030 .84033	.69232	.84156 .84159	.69433 .69436	.84282 .84284	.69634 .69637	.84407 .84409	.69834	.84531	.70034 .70037	31 30
31	.84035	.69238	.84161	.69439	84286	.69640	.84411	.69811	.84535	.70041	29
+ 8'	9.84037	.69242	9.84163	.69443	9.84288	.69644	9.84413	.69844	9.84537	.70044	28
33	.84039	.69245	.84165	.69446	.84290	.69647	.84415	.69847	.84539	.70047	27
34	.84041	.69248	.84167 .84169	.69450 .69453	.84292 .84294	.69650 .69654	.84417 .84419	.69851 .69854	.84541 .84543	.70051 .70054	26
+ 35 + 9'	.84043 9.84045	.69255	9.84171	.69456	9.84296	.69657	9.84421	.69857	9.84545	.70057	25
37	.84047	.69258	.84173	.69460	.84299	.69660	.84423	.69861	.84547	.70061	23
38	.84049	.69262	.84175	.69463	.84301	.69664	.84425	.69864	.84550	.70064	22
39	.84051	.69265	.84177	.69466	.84303	.69667	.84427	.69867	84552	.70067	21
+ 10'	9.84054	.69268	9.84179	.69470	9.84305	.69670	9.84430	.69871	9.84554	.70071	20
41 42	.84056 .84058	.69272 .69275	.84182 .84184	.69473	.84307 .84309	.69674	.84432 .84434	.69874 .69877	.84556 .84558	.70074	19 18
43	.84060	69279	.84186	.69480	.84311	.69680	.84436	.69881	.84560	.70081	17
+ 11'	9.84062	.69282	9.84188	.69483	9.84313	.69684	9.84438	.69884	9.84562	.70084	16
45	.84064	.69285	.84190	.69486	.84315	.69687	.84440	.69887	.84564	.70087	15
46	.84066 .84068	.69289	.84192 .84194	.69490 .69493	.84317 .84319	.69690 .69694	.84442 .84444	.69891 .69894	.84566 .84568	.70091 .70094	14 13
$\frac{47}{+12'}$	9.84070	.69293	9.84196	.69496	9.84321	.69697	9.84446	.69897	9.84570	.70097	13
49	.84072	.69299	.84198	.69500	.84324	.69700	.84448	.69901	.84572	.70101	11
50	.84075	.69392	.84200	.69503	.84326	.69704	.84450	.69904	.84574	.78161	10
51	.84077	.69305	.84203	.69506	.84328	.69707	.84452	.69907	.84576	.70107	9
+ 13′	9.84079	.69309	9.84205	.69510	9.84330	.69710	9.84454	.69911 .69914	9.84578 .84581	.70111	8 7
5.3 5.4	.84081 .84083	.69312 .69315	.84207 .84209	.69513	.84332 .84334	.69711	.84459	.69914	.84583	.70117	6
55	.84085	.69319	.84211	.69520	,81336	.69720	.84461	.69921	.84585	.70121	- 5
+ 14'	9.84087	.69322	9.84213	.69523	9.84338	.69724	9.84463	.69924	9.84587	.70121	3
57	.84089	.69326	.84215	.69527	.84340	.69727	.84465	.69927	.84589	.70127	3
58 50	.84091	.69329	.84217	.69530	.84342	.69731	.84467	.69931	.84591 .84593	.70131 .70134	2
+ 15'	.84093	.69332	$\frac{.84219}{9.84221}$	.69533	$\frac{.84344}{9.84346}$	.69734 .69737	.84469 9.84471	69934 69937	9,84595	.70134	$-\frac{I}{\hat{o}}$
+ 15	9.84096	•69336	9.84221	.09337	0.54546	-007434	0.03373	*035557	7. 39.130	*10791	ľ
	16h	29m	16h	28m	16h	2711	16h	2671	$16^{h}$	25m	1
					1		<u> </u>				

TABLE 45.

	7h Jijm 413 45"	75	7 h 37 m 114 - 15'	7h S8m 114° 30°	7h 39m 111 45'	
	Log Hay Nat Hay	Log. Hav. N. P. P. Hav.	Log. Hav. Not. Hav	Laz. Hav. Nat. Hav	Log. Hav. Nat. Hav	s
00	9 845/6   .70437	9.81718 .70337	9.84841 .70536		9.85085 .70933	
1	\$4597 .70111 \$4599 .70114	.84720 .70310 84722 .70343	.54543 .70539 .54545 .70543	.\$4965 .70735 .\$4967 .70741	.85087 .70936 .85089 .70940	59 58
	S 10.01 .70147	84724 .70317	81847 .78546	5 19 9 .70745	.85091 .70913	57
3	9 \$4603   .70151 \$4605   .70154	9.54726 .70350 .84729 .70353	9.54519 .70549 .84551 .70553	9.88671 .70748 .84973 .70751	9.5093 .70916 .5095 .70950	56 55
6	51007 .70457	.84731 .70357	.5455370556	.84975 .70755	.85097 .70953	54
7	.51609 .70161	.517.13 .70360	S (S55   .70539		85099 .70956	
2 2	9 8 16 11   .70161 8 16 13   .70167	9.84735 .70363	9 8 1857 .70562 8 1859 .70566		9.85101 .70959 .85103 .70963	
10	.84646 .70171	\$17.39 .70370	.54561 .70569	.84784 .70768	.85105 .70966	50
- 11 - 3	9 S10.01 .70177	8174170373 9.81743   .70377	.84863   .70572 9 84866   .70576	1	85107 .70969 9.85109 .70973	-
1	81022 .70151	\$1715 .70350	81868 .70579		.85111 .70976	
1.5	.81001 -70181	84747 .70383	\$4570 .70582		85113 .70979	
15	\$4625 .70157 9 \$1655	84749 .70387 9 84751 .70390	\$1872   .70586   9.84874   .70589		.85115 .70983 9 85117 .70986	
17	×1630 .70194	~4753 .70393	.84876 .70592	.84998 .70791	.85119 .70959	43
18	.84632 .70197	84555 .70397	.54575 .70598 .54550 .70599		.85121 .70992	42
1" 5"	8 to 34   .70201 9 8 to 34   .70201	\$4757   .70100 9 \$4759   .70103	.54550   .70599   9.84552   .70603		85123 .70996 9.85125 .70999	
1	S46.38 .70207	.84761 .70407	.51554 .70606	.85006 .70804	.85127 .71002	39
#	84640 .70211 -84642 .70214	S4763 .70110 S4765 .70113	.5455 .70609 .54555 .70612	.85008 .70807 85030 .70811	.85129 .71006 .85131 .71009	
+ 6'	9 8 16 11   .70217	9 8476770417	9.54890 -70615		9.85133 .71013	
35	54646 .70224	51770 .70120	.84892 .70619	.85014 .70817	.85135 .71016	35
26	\$1648 .70224 \$1651 .70227	84772 .70423 84774 .70126	.54894 .70622 54896 .70625		.85137 .71019 .85139 .71022	
+ 7	9 81653   .70230	9 54776 .70430	9.84895 .70629		9.85141 .71025	
30	84655 .70234	84778 .70433	.84900 .70633		.85143 .71029	31
51	.84657 .70237 84659 .70249	84780 .70436 84782 .70440	.84902 .70635 84904 .70639	.85024 .70834 .85026 .70837	.85145 .71032 .85147 .71035	
8	9 81661 .70244	9 84784 .70413	9 8 4906 7.70612	9.85028 .70510	9.85149 7.71039	
33	\$4663 .70217 \$4665 .70250	\$4786 .70446 81788 .70450	.84908 .70645 .84910 .70649		.85151 .71042	
35	81667 .70254	84790 .70153	81912 .70652		.85153 .71045 .85155 .71049	
+ _ 9"	9 84669 .70257	9 8 1792 .70156	9 84914 .70655	9.85036 .70854	9.85158 .71952	24
37	\$4671 .70260 \$4673 .70264	\$4794 .70160 \$4796 .70163	84916 .70659 84919 .70662		85160 .71055 .85162 .71058	
39	84675 .70267	54798 .79466	84921 .70665		85164 .71062	
10'	9 81677 .70270	9 84800 .70170	9 84923 .70668		9.85166 .71065	20
12	\$1679 .70274 \$1681 .70277	51502 .70473 54504 .70476	.81925 .70673 .81927 .70675		.85168 .71068 .85170 .71073	
4.3	54683 .70280	S1806 .70150	84929 .70678	.85050 .70877	85172 .71075	
4 11	9 81685 .70284	9 51505 .70 53 54510 .70456	9 84931 7 .70682		9 85174 .71078	16
16	51690 .70290	\$1812 .70490	\$4933 .70685 \$4935 .70688		.85176 .71082 .85178 .71085	15 14
47	54692 .70294	81815 .70493	84937 1 .70693	85059 .70590	.85180 .71088	1.3
7 42	9 8 3 6 9 4 7 0 2 9 7 8 4 6 9 6 7 7 0 3 0 9 1	9 84817   .70496 84819   .70499	9 84969 .70695 84941 .70698		9.85482 .71091 85484 .71095	
50	83698 .70304	\$4821 .70503	81913 .70702		85186 .71098	
51	\$4,0070307	81823 .70506	81915 .70705	85067 .70903	S5188 .7110H	. 9
33 ·	9 84502 ( .70310 84704 ( .70314	9 84825 .70509 84827 .70513	9 84947 .70708 84949 .70713		9 85190 .71105 .85192 .71108	
43	54706 .70317	\$4829 .70516	84951 .70715	85073 .70913	.85, 94 .711H	6
3.5	54708 .70320 9 8471070324	\$1831 .70519	8495370719		8519671114	
.57	9 84710 .70324 .84712 .70327	9 \$4\$.74 .70523 .84\$35 .70526	9 8495570724 .8495770725		9.85198 .71118 .85200 .71121	
1.9	.84714 .70330	.81847 .70529	S49'0   .70729	.85081 .70926	.85202 .71134	2
15	84716 .70333 9 8471870337	84839 .70533 9 84841 .70536	84961 .70731		.85201 .71128	
. 13				9.85085 .70933		0
	$f_{II}h \geq im$	$f_{E}\lambda \rightarrow jm$	16h ·	$Ie(h, I^{\bullet n})$	I6h 20m	

					Haversii	ies,					
	7h 40m	115° 0′	7h 41m	115° 15′	7h 42m	115° 30′	7h 43m	115° 45′	7h 44m	116° 0′	$\overline{}$
s	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
0	9.85206	.71131	9.85326	.71328	9.85446	.71526	9.85565	.71722	9.85684	.71919	60
1	.85208	.71134	.85328	.71332	.85448	.71529	.85567	.71726	.85686	.71922	59
~	.85210 .85212	.71138 .71141	.85330 .85332	.71335 .71338	.85450	.71532	.S5569	.71729	.85688	.71925	58
	9.85214	.71144			.85452	71535	.85571	.71732	_,85690	.71928	57
+ 1	.85214	.71147	9.85334 .85336	.71342	9.85454	.71539	9.85573	.71735	9.85692	.71932	56
1 .	.85218	.71151	.85338	.71345	.85458	.71542 .71545	.85575	.71739	.85694	.71935	55
	.85220	.71154	.85340	.71351	.85460	.71549	.85577 .85579	.71712	.85696	.71938	54
- ' 2'	9.85222	.71157	9.85342	.71355	9.85462				.85698	.71941	53
T , *	.85224	.71161	.85344	.71358	.85464	.71552 .71555	9.85581 .85583	.71748 .71752	9.85700 .85702	.71915 .71918	52
10	.85226	.71161	.85346	.71361	.85466	.71558	.85585	.71755	.85702	.71915	51 50
11	.85228	.71167	.85348	.71365	.85468	.71562	.85587	.71758	.85704	.71955	49
$+^{-37}$	9.85230	.71170	9.85350	.71368	9,85470	-,71565	9.85589	71762	9.85708	.71958	48
13	.85232	.71174	.85352	.71371	.85472	.71568	.85591	.71765	.85710	.71961	47
14	.85234	.71177	.85354	.71374	.85471	.71571	,85593	.71768	.85712	.71964	46
1.5	.85236	.71180	.85356	.71378	.85476	.71575	,85595	.71771	.85714	.71968	45
+ 1	9.85238	.71184	9.85358	.71381	9.85478	.71578	9.85597	.71775	9.85716	.71971	44
17	.85240	.71187	.85360	.71384	.85480	.71581	.85599	.71778	.85718	.71974	43
18	85242	.71190	.85362	71388	.85482	.71585	.85601	.71781	.85720	.71977	42
19	85244	.71194	.85364	.71391	.85484	.71588	.85603	.71784	.85722	.71981	41
+ 5	9.85246	.71197	9.85366	.71394	9.85486	.71591	9.85605	.71788	9.85724	.71984	40
	.85248	71200	.85368	.71397	.85488	.71594	.85607	.71791	.85726	.71987	39
21 23	.85250	.71203	.85370	.71401	.85490	.71598	.85609	.71794	.85727	71990	38
20	.85252	.71207	.85372	.71404	.85492	.71601	.85611	.71798	.85729	.71994	37
+ 6'	9.85254	.71210	9.85374	.71407	9.85494	.71604	9.85613	.71801	9.85731	.71997	36
25	.85256	.71213	.85376	.71411	.85496	.71698	.85615	71804	.85733	.72000	35
26	.85258	.71217	.85378	.71114	85498	.71611	.85617	.71807	.85735	.72003	34
27	.85260	.71220	.85380	.71117	.85500	.71014	.85619	.71811	.85737	.72007	33
+ 7'	9.85262	.71223	9.85382	.71430	9.85502	.71617	9.85621	.71814	9.85739	.72010	32
29	.85264	.71226	.85384	.71424	.85504	.71621	.85623	.71817	.85741	.72013	31
30	.85266	.71230	.85386	.71427	.85506	.71624	.85625	.71829	.85743	.72017	30
31	.85268	.71233	.85388	.71430	.85508	.71627	.85627	.71824	.85745	.72920	29
+ 5'	9.85270	.71236	9.85390	.71434	9.85510	.71631	9.85629	.71827	9.85747	.72023	28
UU	.85272	.71240	.85392	.71437	.85512	.71631	.85631	.71830	.85749	.72026	27
34	.85274	.71243	.85394	.71440	.85514	.71637	.85633	.71834	.85751	.72030	26
35	.85276	.71246	.85396	.71443	.85516	.71610	.85635	.71837	.85753	.72033	25
+ 9	9.85278	.71249	9.85398	.71447	9.85518	.71644	9.85637	.71840	9.85755	.72036	24
37	.85280	.71253	.85400	.71450	.85520	.71647	.85639	.71843	,85757	.72039	2.3
38	.85282	.71256	.85402	.71453	.85522	.71650	.85641	.71847	,85759	.72013	23
J.9	.85284	.71259	.85404	.71 56	.85524	.71653	.85643	.71850	.85761	.72016	21
+ 10'	9.85286	.71263	9.85406	.71460	9.85526	.71657	9.85645	.71853	9.85763	.72049	20

10	1 1	07001	~1101	0.00032	.71000	9.50402	.71335	9.55551	./1/45	9.85100	.71910	33
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												
+ 3												
17						.85468		.85587	.71758	.85706	.71955	49
17	+ 3'	9.85230	.71170	9.85350		9.85470	.71565	9.85589	.71762	9.85708	.71958	48
14	13	.85232	.71174	.85352	.71371	.85472	.71568	.85591	.71765		.71961	
15					.71374							
+ 1												
17         85240         71181         85360         71381         85492         71190         85362         71381         85599         71171         42           19         85241         71194         85364         71391         85482         71585         85600         71181         85702         71981         47           21         85248         71200         85368         71391         85482         71584         85603         71181         85722         71981         47           21         85248         71200         85368         71391         85606         71781         85707         71941         85409         71794         85727         71994         85727         71994         85727         71994         85727         71994         85727         71994         85727         71994         85728         71994         85729         71994         85729         71994         85729         71994         85729         71994         85729         71994         85729         71994         85729         71994         85729         71990         34         85615         7184         85729         71990         34           25         85250         71217												
18         S5242         71190         S5362         71388         S5482         71585         S5600         71781         S5720         71977         42           +         5'         9.8246         71197         9.85366         71391         9.85486         71391         9.85605         71781         85722         71981         41           21         85248         71200         85567         71397         85488         71591         85600         71791         85762         71991         9.85620         71791         85762         71871         85762         71871         85762         71991         85800         71791         85762         71991         85900         71794         85762         71991         85900         71794         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85792         71991         85902         71601         85611         71891         85731         71990         38         71811         85792         71891         85792         71891         85792         <												
19         S5244         71194         S5366         71391         S5348         71391         S5603         71781         S5722         71981         44           21         S5248         71190         S5368         71397         S5488         71591         9.85005         71788         9.8572         71991         35726         71191         35726         711931         35726         711931         35726         711931         85607         71191         85727         711901         85607         71191         85727         711901         85607         71191         85727         711901         85607         71191         85729         711991         37         711901         85617         71191         85729         711991         37         71190         85617         71191         85729         711991         36         85258         71121         85576         71141         85196         71604         8,85613         71101         85733         71101         85186         71601         8,85613         71101         85733         72003         35           27         85206         71223         85386         71121         85500         71611         85613         71811         85733												
1.										.85720		
241         S5248         71200         S5368         71397         S5488         71594         85609         71794         85726         71991         39           241         85250         71203         85370         71404         85492         71601         85609         71794         85727         71991         38           25         85256         71213         85372         71414         85492         71601         985615         71801         985731         71991         36           26         85256         71213         85376         71414         85498         71611         85615         71807         85735         72000         35           27         85260         71220         85380         7117         85502         71611         85619         71811         85737         72007         33           29         85261         71230         85388         71421         85502         71617         85619         71811         85735         72010         32           29         85261         71230         85388         71421         85502         71621         85619         71811         85735         72010         32           <												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					.71394					9.85724		40
± /         5,8525         7,1201         8,8527         7,1404         8,402         7,1604         9,85613         7,1201         9,85731         7,1997         36           ± 6 /         9,85254         7,1210         9,85374         7,1407         9,8540         7,1604         9,85613         7,1801         9,85731         7,1997         36           ± 6 /         8,5260         7,1217         8,5378         7,1414         8,5498         7,1614         8,5615         7,1804         8,5737         7,2000         35           ± 7 /         9,85262         7,1220         8,5380         7,1117         8,5508         7,1614         8,5617         7,1814         9,85739         7,2000         34           ± 7 /         9,85262         7,1230         8,5388         7,1427         8,5504         7,1624         8,5625         7,1834         9,85740         7,2013         8,5388         7,1434         8,8508         7,1631         8,8524         7,2213         8,5744         7,2013         8,3388         7,1434         8,8514         7,1631         8,8524         7,2014         8,540         7,2023         8,8           ± 7 /         9,85275         7,1240         8,5389         7,1434         9,	21	.85248				.85488	.71594	.85607	.71791	.85726	.71987	39
± /         5,85252         7,1201         8,85272         7,1404         8,5402         7,1604         9,85613         7,1281         9,85731         7,1997         36           ± 5         8,5256         7,1210         9,85374         7,1407         9,85404         7,1604         9,85613         7,1801         9,85731         7,1997         36           ± 6         8,5256         7,1217         8,5378         7,1414         8,5498         7,1614         8,5615         7,1804         8,5738         7,2000         35           ± 7         9,85262         7,1229         8,5388         7,1117         8,5509         7,1614         8,5619         7,1814         9,85739         7,2010         32           ± 7         9,85262         7,1226         8,5388         7,1427         8,5509         7,1614         8,5613         7,1814         9,85739         7,2010         32           ± 90         8,5266         7,1230         8,5388         7,1427         8,5509         7,1834         8,5524         7,1814         8,5741         7,2013         8,338         7,1434         8,5518         7,1824         8,5745         7,2023         8,34         8,5241         7,1234         8,5539         7,1434	23	.85250	.71203	.85370	.71401	.85490	.71598	.85609	.71794	.85727	.71990	38
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27 1	.85252	.71207	.85372	.71404	.85492	.71601	.85611	.71798			37
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 6'	9.85254	.71210	9.85374	.71407	9.85494	.71604	9.85613	.71801	9.85731	71997	36
26         S\$258         71217         S\$378         71414         S\$498         71614         S\$619         71811         S\$735         72007         33           +         7         9.85262         71220         S\$388         71117         S\$500         71614         S\$619         7.1814         9.85735         72007         33           29         S\$264         7.1230         S\$388         7.1424         8.5604         7.1624         8.5623         7.1814         9.85749         7.2010         32           30         S\$266         7.1230         S\$388         7.1427         8.5604         7.1624         8.5623         7.1814         9.85749         7.2013         8.388         7.1427         8.5604         7.1624         8.5625         7.1834         8.5749         7.2013         8.388         7.1427         8.5603         7.1834         8.5744         7.2023         2.8           4         9         5.270         7.1236         8.53390         7.1141         8.5514         7.1631         8.5623         7.1834         8.5744         7.2023         2.8           3         8.5270         7.1246         8.5399         7.1441         8.5514         7.1641         8.5623 <th>2.5</th> <th></th> <th></th> <th>85376</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	2.5			85376								
27         S\$260         71290         S\$380         71117         S\$500         71614         S\$619         71814         S\$737         72007         33           29         S\$264         71236         S\$384         71421         S\$504         71617         9.85621         71814         9.85739         72010         32           30         S\$266         71230         S\$384         71421         S\$506         71624         S\$623         7.1817         S\$744         7.72013         33           31         S\$268         7.1238         S\$388         71430         S\$506         7.1624         S\$627         7.1821         S\$746         7.7201         30           4         5         9.85270         7.1236         S\$399         7.1434         9.8510         7.1631         8.85631         7.1837         8.8749         7.2026         27           34         S\$274         7.1246         S\$399         7.1431         8.8516         7.1631         8.8631         7.1837         8.8753         7.2036         26         27         8.526         7.1231         8.8539         7.1441         8.8516         7.1631         8.8631         7.1831         8.8753         7.2036         2												
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	31		.71233	.85388	.71430	.85508	.71627	.85627		.85745	.72920	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 5'	9.85270	.71236	9.85390	.71434	9.85510	.71631	9.85629	.71827	9.85747		28
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	55	.85272	.71240	.85392	.71437	.85512	.71631	.85631	.71830	.85749	.72026	27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		.85274	.71243	.85394	.71440	.85514	.71637	.85633	.71834	.85751		26
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	43	.85292	.71273	.85412	.71470		.71667	.85651	.71863	.85769	.72059	17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 11'	9.85294	.71276	9.85414	.71473	9.85534	.71670	9.85653	.71866	9.85771		16
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		.85296		.85416	.71476		.71673	.85654	.71870	.85773	.72066	15
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												14
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	55	.85316	.71312	.85436	.71509	.85555						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 14'	9.85318	.71315	9.85438	.71512	9,85557	.71709	9.85676		9.85794		4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									.71909	.85796	.72105	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												2
+ 15 ⁷   9.85326   .71328   9.85446   .71526   9.85565   .71722   9.85684   .71919   9.85802   .72114   0												1
7 10 0.00120 1.1000 0.00110 1.1000												
16h 19m 16h 18m 16h 17m 16h 16m 16h 15m	+ 19	9.00026	.11345	9.39440	.11940	9.55500	./1/55	0,00019		0,00002		ľ
10. 15 10 15 10 10 10		16h	10m	16h	1 9 m	16h	17m	16h	16m	16h	1.5m	1
		10"	13"	10"	10	20"	4.1.**	10.4		1.50		

Page 904]

# TABLE 45.

5	7h 3.5m							117° 0'		117° 15′	
	t an Illan		Log. Hay.	116° 30′		116° 45′	Log. Hav.		Log. Hav.		١.
	Log. Hav.										-
$\theta$	9,85802	.72111	9 85920 85922	.72310	9 56037 .86039	.72505	9.86153	.72700	9.86269 .86271	.72594	6 5
1	.85801 85806	.72115	85924	.72316	.86041	.72511	.86157	.72706	.86271	.72900	5
3	85808	.72124	×5926	.72320	.86043		86159	.72709	.86275	.72903	3
+ 1'	9.85810	.72127	9.85928	.72323	9.86045	.72518	9.86161	.72712	9.86277	.72907	3
5	.85812	.72131	.85930	.72326	.56046	.72521	.86163	.72716	.86279	.72910	5
6	85814	.72134	85931	.72329	86048	.72524	.86165	.72719	.86281	.72913	5
7	55516	.72137	\$5933	.72333	.86050	.72528	.86167	.72722	.86282	.72916	5
+ 2	9.85818	.73111	9.85935	.72336	9.86052	.72531	9.86169	.72725	9.86284	.72920	1 5
9	.85820	.72144	.85937	.72339	.86054	.72534	.86171	.72729	.86286	.72923	3
10	.85822	.72147	.85939	.72342	.86056	.72537	.86173	.72732	.86288	.72926	
11	85824	.72150	.85941	.72316	.86058	.72541	.86174	.72735	.86290	.72929	١.
+ 3′]	9,85826	.72154	9,85943	.72349	9.86060	.72544	9.86176	.72738	9.86292	.72932	٦.
1.9	55823	.72157	85945	.72352	86062	.72517	.86178	.72742	.86294	.72936	1.
14	.85830	.72160	.85947	.72355	86064	.72550	.86180	.72745	.86296	.72939	1.
1.5	.85832	.72163	85919	.72359	.86066	.72551	86182	.72748	.86298	.72912	Ŀ
+ 4'	9.85834	.72167	9.85951	.72362	9.86068	.72557	9.86184	.72751	9.86300	.72945	1
17	.85836	.72170	85953	.72365	.86070	.72560	.86186	.72755	56302	.72949	1
18	.85838	.72173	.85955	.72368	.86072	.72563	.86188	.72758	,56304	.72953	ŀ
19	55840	.72176	85957	.72372	.86074	.72567	56190	.72761	.86306	.72955	Ŀ
+ 5'	9.85811	.72180	9.85959	.72375	9,86076	.72570	9 56192	.72764	9,86307	.72958	ŀ
21	.85843 .85845	.72153	.85963 85963	.72378	.86078 .86080	.72573	.86194	.72768	.86309	.72962	ŀ
23	.85847	.72150	85965	.72355	.86080	.72580	.86198	.72774	.86311 .86313	.72965 .72968	ŀ
+ 6'	9.85849	.72193	9.85967	.72388	9.86083	Marie Control of the Control	9.86200			man and	Ŀ
25	85851	.72196	,85969	.72391	.86085	.72583	.86200	.72777	9.86315 .86317	.72971	L
26	55853	.72199	.85971	.72394	86087	.72589	.86203	.72754	.86319	.72975	L
27	\$5\$55	.72202	.85972	.72398	86089	.72593	.86205	.72787	.56321	.72951	ı
4 T- 37	9.85857	.72206	9.85971	.72101	9,86093	.72596	9.86207	.72790	9 86323	.72954	-
.29	85859	.72209	85976	.72404	56093	.72599	\$6209	.72793	86325	.729	1
30	55861	.72212	85978	.72407	.86095	.72602	56211	.72797	86327	.72991	
-17	\$5863	.72215	85980	.72111	86097	.72506	.86213	.72500	.56329	.72994	
- S'	9.50565	.72219	9 85982	.72114	9.86099	.72609	9.86215	.72503	9.86331	.72997	1
53	55567	.72222	85984	.72417	86101	.72612	.86217	.72506	.86332	.73000	ı
24	5 551,9	.72225	.85986	.73120	.86103	.72615	.86219	.72810	.86334	.73001	ı
55	57573	.72229	4.1344	.72424	.86105	.72618	.86221	.72813	.56336	.73007	1
- 9'	98.85870	.72232	9.85950	.70127	9.86107	.72622	9.86223	.72516	9,86338	.73010	Г
37	.85875	.72235	.85992	.72130	.86109	.72625	.86225	.72819	.86310	.73013	ı
38 89	5 5577	.72235	85994	.72433	.86111	.72628	.86227	.72523	.86342	.73016	L
⊢ 10°	9.8581		S5996	.72137	.86112	.72631		.72×26	,86344	.73020	Į.
31	11 20 20 1	.72215 .72248	9 \$599\$ 86000	.72110	9.86114	.72635	9,86230	.72529	9.86346	.73023	L
47	45845	.72251	S6000 S6002	.72113	86116 86118	.72638	.86232 .86234	.72832	.86348	.73026	ı
3.8	35557	.72255	86002	.72150	.86120	.72644	.86234	.72535	.86350 .86352	.73029 73033	
111	9.55555	.72258	9 86006	.72453	9 86122	.72645	9,86268	.72842	9 86354		ŀ
3.7	.85890	.72261	51.005	.72156	86121	.73651	.86240	.73815	56355	.73036	ı
46	5 (59)	.72264	86010	.72459	s6126	.72651	86242	.72548	.86357	.73043	I
47	85894	.72265	86011	.72163	86128	.72657	.86211	.72552	.86359	.73046	L
- 12	9.83800	.72271	9.86013	.72166	9.86130	.72661	9.86216	.7255	9.86361	.73019	1-
19	× 15.45	.72274	86015	.72469	861.32	.72664	.86248	.72858	,86363	.73052	L
.41	N. (1904)	.77777	86017	.72172	.56131	.72667	,86250	.72861	.56365	.73055	П
<i>11</i>	₹B 1	.7.2254	56019	72176	50136	.72670	86252	.72565	.86367	.73055	ı
13	1 - 11 1	-7228I	0.86021	.72179	9.861.38	.72671	9,86251	.72868	9,86369	.73062	
	.S. (180)	.72257	80.0 %	.72182	56140	.72677	.86256	.72571	86.371	.73065	1
53	\$ 7008 \$ 7000	.72290	56(12)	.72155	86142	.72680	86257	.72874	.86373	.73068	1
a - 11'		.77294	\$60 .	.724 59	.80111	.72653	.86259	.72878	.86375	.73071	1.
57	9 5 7012	.72297	1.8(41.5)	.77(97	9 miles	.73687	9.86263	.72881	9.86377	.73076	1
58	8 016	.73393	500 E	77195	S6147 S6149	.72690	.86263	.72881	.86379	.73078	L
	1914	72307	10.1	.72502	861.1	.72693 .72696	86265 .86267	.72887	.86380	.73051	1
					2011	-4.1696	,80207	.72.390	.86382	.73054	1
.59 4 - <b>15</b> 7	9 5 29 94	.72310	9.800	29567	14 54 1 . 1	7197414	District.	949.144	O contract	2900	1-
	9 8 8920	.72310	9.860 7	.72595	9.861.3	.72700	9 86269	.72891	9 86384	.73057	ľ

# TABLE 45.

T	love	 

	7h 50m	117° 30′	7h 51m	117° 45′	7h 52m	118° 0′	7h 53m	118° 15′	7h 54m	[182 301	ı
s	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav	. Nat. Hav	Log, Hav.		Log. Hav.		s
0	9.86384	.73087	9.86499	.73281	9.86613	.73474	9.86727	.73666	9.86840		60
1	.86386	.73091	.86501	.73284	.86615	.73477	.86729	.73669	.86842	.73861	59
2 3	.86388 .86390	.73094	.86503 .86505	.73287 .73290	.86617	.73480	.86730	.73672	.86843	.73864	58
+ 1	9.86392	.73100	9.86507	.73294	.86619 9.86621	73483	.86732 9.86734	.73676	9.86845	.73868	$-\frac{57}{56}$
5	.86394	.73104	.86509	.73297	.86623	.73490	.86736	.73682	.86849	.73574	55
6	.86396	.73107	.86510	.73300	.86625	.73493	.86738	.73685	.86851	.73577	54
$\frac{7}{+2'}$	.86398 9.86400	.73110	$\frac{.86512}{9.86514}$	.73303	.86626 9.86628	.73496	.86740 9.86742	.73688	.86853 9.86855	.73880	53 52
7 9	.86401	.73116	.86516	.73310	.86630	.73502	.86744	.73695	.86857	.73887	51
10	.86403	.73120	.86518	.73313	.86632	.73506	.86746	.73698	.86859	.73890	50
$\frac{-11}{+3'}$	.86405	.73123	.86520	.73316	.86654	.73509	.86747	.73701	.86860	.73593	49
+ 3'	9.86407 .86409	.73126 .73129	9.86522	.73319 .73323	9.86636 .86638	.73512 .73515	9.86749 .86751	.73704 .73708	9.86862	.73896 .73899	48 47
14	.86411	.73133	.86526	.73326	.86640	.73519	.86753	.73711	.86866	.73903	46
15	.86413	.73136	.86528	73329	.86642	.73522	.86755	.73714	.86868	.73906	45
+ 4	9.86415 .86417	.73139 .73142	9.86529 .86531	.73332 .73335	9.86643 .86645	.73525 .73528	9.86757 .86759	.73717 .73720	9.86870 .86872	.73909 .73912	44 43
18	.86419	.73145	.86533	73339	.86647	.73531	.86761	.73724	.86874	.73915	42
19	.86421	.73149	.86535	.73342	.86649	.73535	.86763	.73727	.86875	.73919	41
+ 5'	9.86423	.73152	9.86537	.73345	9.86651	.73538	9.86764	.73730	9.86877	.73922	40
22	.86424 .86426	.73155 .73158	.86539 .86541	.73348 .73351	.86653 .86655	.73541 .73544	.86766 .86768	.73733 .73736	.86879 .86881	.73925 .73928	39 38
23	.86428	.73162	.86543	.73355	.86657	.73547	.86770	.73740	.86883	.73931	37
+ 6'	9.86430	.73165	9.86545	.73358	9.86659	.73551	9.86772	.73743	9.86885	.73935	36
25 26	.86432 .86434	.73168	.86547 .86569	.73361	.86661 .86662	.73554	.86774	.73746	.86887 .86889	.73938	35 34
27	.86436	.73174	.86550	.73368	.86664	.73560	.86778	.73752	.86890	.73944	33
+ 7'	9.86438	.73178	9.86552	.73371	9.86666	.73563	9.86780	.73756	9.86892	.73947	3.2
29	.86440	.73181	,86554	.73374	.86668	.73567	.86781	.73759	.86894	.73951	31 30
30 31	.86442 .86444	.73184 .73187	.86556 .86558	.73377 .73380	.86670 .86672	.73570 .73573	.86783 .86785	73762 .73765	.86896 .86898	.73954 .73957	29
+ 8'	9.86446	.73191	9.86560	.73384	9.86674	.73576	9.86787	.73768	9.86900	.73960	28
33	.86447	.73194	.86562	.73387	.86676	.73579	.86789	.73772	,86902	.73963	27
34 35	.86449 .86451	.73197 .73200	.86564 .86566	.73390	.86678 .86679	.73583 .73586	.86791 .86793	.73775	.86904 .86905	.73967	26 25
+ 9'	9,86453	.73203	9.86568	.73396	9.86681	.73589	9.86795	.73781	9.86907	.73973	24
37	.86455	.73207	.86569	.73400	.86683	.73592	.86796	.73784	.86909	.73976	23
38	.86457	.73210	.86571 .86573	.73403 .73406	.86685 .86687	.73595 .73599	.86798 .86800	.73788	.86911 .86913	.73979 .73952	22 21
39 + 10'	.86459 9.86461	.73216	9.86575	.73409	9.86689	.73602	9,86802	.73794	9.86915	.73986	20
41	.86463	.73220	.86577	.73413	.86691	.73605	.86804	.73797	.86917	.73989	19
42	.86465	.73223	.86579	.73416	.86693	.73608	.86806	.73990	.86919 .86920	.73992	18 17
+ 11'	.86467 9.86468	.73226	.86581 9.86583	.73419	.86695 9.86696	.73611	.86898 9.86810	.73804	9.86922	.73995	$\frac{17}{16}$
+ 11' 45	.86470	.73282	.86585	.73425	.86698	.73618	.86812	.73810	.86924	.74002	15
46	.86472	.73236	.86587	.73429	.86700	.73621	.86813	.73813	.86926	.74005	1.7
47	.86474	.73239	.86588	.73432	.86702	.73624	.86815 9.86817	.73516	.86928 9.86930	.74005	1.
+ 12' 49	9.86476 .86478	.73242	9.86590 .86592	.73435	9.86704 .86706	.73631	.86819	.73523	.86932	.74014	11
50	.86480	.73249	.86594	.73441	.86708	.73634	.86821	.73826	.86903	-74018	10
51	.86482	.73252	.86596	.73445	.86710	.73637	.86823	.73529	6,500,00	.74021	9
+ 13′	9.86484 .86486	.73255 .73258	9.86598 .86600	.73448	9.86712 .86713	.73640 .73644	9.86825	.73532	9.86937	.74024	8 7
54 54	.86488	.73261	.86602	.73454	.86715	.73647	.86828	.73939	.86941	.74030	6
55	.86489	.73265	.86604	.73458	.86717	.73650	.86830	.73842	.86943	.74033	5
+ 14'	9.86491	.73268	9.86606 .86607	.73461 .73464	9.86719 .86721	.73653	9.86832	.73545 .73848	9.86945 .86947	.74037 .740(0	3
57 58	.86493 .86495	.73271	.86609	.73467	.86723	.73660	.86836	.73852	.86948	.74013	1 2
59	.86497	.73278	.86611	.73470	.86725	.73663	,86838	.73855	86950	.74046	1
+ 15′	9.86499	.73281	9.86613	.73174	9.86727	.73666	9.86840	.73858	9.86952	.74049	0
	16	r gm	16	h gm	16	h 7m	167	h 6m	11,1	5.55	
	10	-			1		1				_

Page 906]

# TABLE 45.

		115 45	ş⊁ 1gm	119 0	7h 57m	110 15	7h 58m 1	19° 30′	7h 59m 1	19 45	
		No. Hay	$Lo\in \overline{Hav}.$	Not His	Let Hay.	Nat. Hav	Log. Hav.	Nat, Hav.	Log. Hav.	Nat. Hav	S
	9 - 91.	.74049	9 57061	.74240	9.87175	.74431	9.57286	.74621	9.87396	.74811	6)
1	50954	.74053	87066	.74244	.87177	.74434	.87288	.71624	.87398	.74814	59
	\$50006 \$5005	.74056 .74059	\$7068   \$7070	.71217	.87179 .87181	.71437	.87290 .87292	.74628 .74631	.87400	.74817	58 57
11	9.56960	.71063	9 57072	.71253	9.87183	.71411	9.87291	.74634	9.87401	.74823	56
5	86962	71965	\$7073	.71256	.87185	.74447	.57295	.74637	.87406	74827	55
- 6	,86963	.74089	.57075	.71260	.87187	.74450	.87297	.74610	.87407	.74830	54
7	×17:307.7	.71072	.57077	.71263	.87188	.71153	.87299	.71643	.87409	.71833	53
- 2	9.86967	.71075	9.87079	.71266	9.87190 87192	.71156	9.87301	.74616 .74650	9.87411 .87413	.74836	52
1	86989	.74075.	.57051 57053	.71269	.87194	.74460 .74463	.87303 .87305	.74653	.87415	.74842	51 50
11	56973	71044	.57055	.71275	.87196	.71166	.87306	.71656	.87417	.71846	49
3	9.86975	.71088	9.57056	.74279	9.87198	.71469	9.87308	.74659	9.87418	.74849	48
100	,56977	.74091	.57055	.74282	.87199	.74472	.87310	.74662	.87420	.74852	47
13	86978	.71091	.87090	.71285	.87201	.74175	.87312	.71665	.87422	.74855	46
11	\$6980 9.86982	.74097	87092 9.87091	.71288	,87203 9.87205	.71179	.87314 9.87316	.71669 .71672	.87424	.74858	4.5
+ 17 A'	9 86982	.74104	.87096	.74391	,87207	.74485	.87318	.71675	.87428	.74561	43
14	50,956	.71107	87098	.71298	.87209	.71188	.87319	.74674	.87429	74868	42
19	50000	.71110	87400	.74391	.87211	.71491	.87321	.74681	.87431	74871	41
~ 5	9.86990		9.87101	.74304	9.87212	.71194	9.87323	.74684	9.87433	.74574	40
1	86991 86993	.71116	.87103 .87105	.71307	.87214 .87216	.71195	.87325 .87327	.74688 .74691	.87435	.74877	39
	56995	.71123	87103	.74314	.87218	.74501	.87329	.74694	.87437 .87439	.74853	38 37
+ 6	9.86997	.74126	9.87109	.71317	9.87220	.74507	9.87330	.71697	9.87440	.74557	36
1	86999	.74129	.87111	.71320	6-000	.74510	.87332	.71700	.87442	74 > 90	35
96	57001	.74132	.87112	.71323	87221	.74514	.87334	.71703	.87411	.74593	34
7	57003	.74135	87111		87225	.74517	.87336	.71707	.87446	.74896	33
,7	9.57004	.71139	9 87116	.71329 .71333	9.87227 .87229	.74520 .74523	9 87358 .87340	.74710 .74713	9,87448 .87450	.74599	32 31
	57(00)5	.71145	\$7,120	.74336	S7231	.74526	.87341	.71716	.87450	.71903	37
100	\$7010	.71118	\$7122	.71339	87233	.74529	.87343	.74719	\$7453	.7490%	39
, , l	9,87042	.71151	9.57124		9.87235	.74533	9.87345	.71722	9.87455	.74912	28
!	87014	.71155	.87125	.74345	.87236	.74536	87347	.74726	.87457	.74915	27
	\$7016 \$7018	.71155	.57127 57129	.71319	.87238 .87240	.74539	,87349 ,87351	.74729	.57459 .87460	.74918	26
9	9.8,019	.71161	9.87131	.74355	9.87242	.74545	9,87352	.74735	9.87462	.74934	25 24
7"	87021	.74167	.57133	.71355	87244	.71548	.87354	.74738	.87464	.74928	23
ς	87023	.74170	.87135	.74361	.87246	.7455?	.87356	.74741	.87466	.74931	22
9	87025	.71171	87137	74361	87248	.71555	.57358	.74741	.87468	74934	21
10	9.87027	.71177	9.87138	.74365	9.87249	.71558	9,87360	.71714	9.87470	.74937	20
#1 #2	.87029 87031	.74153	87140 87142	.74371	.87251 .87253	.74561 .74564	.87362 .87363	.74751	.87471 .87473	.74940	19 18
13	87032	.71156	S7111	.71377	87255		.87365	.71757	.87475	.71916	17
- 11	9.8,034	.71190	9 87146	.71350	9.87257	.71571	9.87367	.74760	9.87477	.74950	16
	.57036		87148	.71383	.87259	.74571	.87369	.74763	.87479	.74953	15
	570.13 570.10	.74196 .74199	.87149 87151	.71357 .71390	87260 87262		.87371	.74767	.87481	.71956	14
. 12	9.57042	1 .74202	9 87453	.71393	9,87264	.74580	.87373 19.87374	74770	.87482 9.87484	.74959	13
, , ,	\$2011	.71205	87   55	.71396	87266		.87376	.74776	.87486	.74965	11
	~7045	.71209	87457	.71399	87268	.74590	87378	.74779	.87488	.71969	10
_	87047	71213	87159	.74402	87270	.74593	.87380	.74782	.87490	.74972	_9
- 13	9 57049 57051	.71215	9.87161	.71106	9 87271	.71596	9.87382	.71786	9,87492	.74975	8
,	\$7051 \$7053	.71215	87162 87164	.71109	\$7273 \$7275	.74599	.87384 .87385	.74789	.87493 .87495	.74974	6
	×20.5		\$7166	.74415	87277	.71605	87387	.71795	.87495	.71981	5
0.11	9.57057	.74228	9.87168	.71118	9.87279	.71609	9,87389	.74795	9.87499	71957	-4
.17	\$7059		.87170	.71122	.87281	.71612	.87391	.71501	87501	.74991	.3
100	\$7060 \$7062		\$1172 \$7174	.71125	87283		.87393	.74505	.87502	.74994	1
15	9.5,064	1.	9 87175	.71128	97254 9 57256		.87395	.74808	$\frac{.87504}{9.87506}$	.71997	$\frac{1}{0}$
			1 3010	.711.31	1 2 2 2 2 1	.71621	9.87396	.71511	3.57506	.75000	"
	17	h , .	160	h 3m	16	h = m	16	h 1m	16	h um	

	Sh~Om	120° 0′	Sh 2m 1	.20° 30′	8h 4m	121° 0′	Sh 6m 1	21° 30′	8h 8m	133° 0′	lΙ
s '	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, Hav.	Log. Hav.	Nat. Hav.	s
0 0	9.87506	0.75000	9.87724	0.75377	9.87939	0.75753	9.88153	0.76125	9.88364	0.76496	60
2	.87510	.75006	.87727	.75383	.87943	.75758	.88156	.76131	.88367	.76503	58
4+ 1	.87513	.75013	.87731	.75389	.87947	.75764	.88160	.76137	.88371	.76508	56
6	.87517	.75019	.87735	.75396	.87950	.75771	.88163	.76144	.88374	.76514	54
8+ 2	9.87521	0.75025	9.87738	0.75402	9.87954	0.75777	9.88167	0.76150	9.88378	0.76521	53
10	.87524	.75032	.87742	.75408	.87957	.75783	.88170	.76156	.88381	.76527	50
12+ 3	.57528	.75038	.87745	.75415	.87961	.75789	.88174	.76162	.88385	.76533	48
14 16+ 4	.87532 9.87535	0.75044 0.75050	.87749	.75121	.87961	.75795	.88177	.76168	.88388	.76539	46
16+ <b>4</b> 18	.87539	.75057	9.87753 .87756	0.75127 .75433	9.87968 .87971	0.75803 .75808	9.88181 .88185	0.76175 .76181	9.88392 .88395	0.76545	44
20+ 5	.87543	.75063	.87760	.75440	.87975	.75814	.88188	.76187	.88399	.76551 .76558	43 40
23	.87546	.75069	.87764	.75416	.87979	75820	.88192	.76193	.88402	.76564	38
24+ 6	9.87550	0.75075	9.87767	0.75152	9.87982	0.75827	9.88195	0.76199	9.88406	0.76570	86
26	.87553	.75082	.87771	.75458	.87986	.75833	.88199	.76205	.88409	.76576	84
28+ 7	.87557	.75088	.87774	.75465	.87989	.75839	.88202	.76212	.88413	.76582	32
30	.87561	.75094	.87778	.75171	.87993	.75845	.88206	.76218	.88416	.76588	30
32+8	9.87564	0.75101	9.87782	0.75177	9.87996	0.75852	9.88209	0.76224	9.88420	0.76595	28
84	.87568 .87572	.75107 .75113	.87785	.75183 .75190	.88000 .88004	.75858 .75864	.88213 .88216	.76230 .76236	.88423	.76601	26
36+ 9 38	.87575	.75120	.87789 .87792	.75496	.88004	.75870	.88220	.76243	.88427 .88430	.76607 .76613	24 23
40+10	9.87579	0.75126	9.87796	0.75502	9.88011	0.75876	9.88223	0.76249	9,88434	0.76619	20
42	.87583	.75132	.87800	.75508	.88014	.75883	.88227	.76255	.88437	.76625	18
44+11	.87586	.75138	.87803	.75515	.88018	.75889	.88230	.76261	.88441	.76632	16
46	.87590	.75145	.87807	.75521	.88021	.75895	.88234	.76267	.88444	.76638	14
48+12	9.87593	0.75151	9.87810	0.75527	9.88025	0.75901	9.88237	0.76274	9.88448	0.76644	12
50	.87597	.75157 .75164	.87814	.75533 .75540	.88029 .88032	.75908 .75914	.88241 .88244	.76280 .76286	.88451 .88455	.76650 .76656	10
52+13 54	.87601 .87604	.75170	.87818 .87821	.75546	.88036	.75920	.88248	.76393	.88+58	.76663	8
56+11	9.87608	0.75176	9,87825	0.75552	9.88039	0.75926	9.88252	0.76298	9.88462	0.76668	
58	9.87612	0.75182	9.87828	0.75558	9.88043	0.75932	9.88255	0.76305	9.88465	0.76675	4 2
					ļ						"
	15h	59m	$15^{h}$	57m	15h	55m	15h	53m	15h	51m	
											•
, ,	8h 1m	120° 0′	8h 3m 1	20° 30′	8h 5m	121° 0′	8h 7m 1	121° 30′	8h 9m	122° 0′	s
s ,									1		s 60
s ' 0+15	9.87615	0.75189	9.87832	0.75565	9.88046	0.75939	9.88259	0.76311 .76317	8h 9m 9.88469 .88472	122° 0′ 0.76681 .76687	60
0+15	9.87615 .87619 .87623	0.75189 .75195 .75201	9.87832 .87835 .87839	0.75565 .75571 .75577	9,88046 .88050 .88053	0.75939 .75945 .75951	9.88259 .88262 .88266	0.76311 .76317 .76323	9.88469 .88472 .88476	0.76681 .76687 .76693	60 58 56
0+15 2	9.87615 .87619	0.75189 .75195 .75201 .75208	9.87832 .87835	0.75565 .75571 .75577 .75583	9,88046 .88050 .88053 .88057	0.75939 .75945 .75951 .75957	9.88259 .88262 .88266 .88269	0.76311 .76317 .76323 .76329	9.88469 .88472 .88476 .88479	0.76681 .76687 .76693 .76699	60 58 56 54
$ \begin{array}{c c} 0+15 \\ 2 \\ 4+16 \\ 6 \\ \hline 8+17 \end{array} $	9.87615 .87619 .87623 .87626 9.87630	0.75189 .75195 .75201 .75208 0.75214	9.87832 .87835 .87839 .87843 9.87846	0.75565 .75571 .75577 .75583 0.75590	9,88046 .88050 .88053 .88057 9,88061	0.75939 .75945 .75951 .75957 0.75964	9.88259 .88262 .88266 .88269 9.88273	0.76311 .76317 .76323 .76329 0.76335	9.88469 .88472 .88476 .88479 9.88483	0.76681 .76687 .76693 .76699 0.76705	60 58 56 54 53
$ \begin{array}{c} 0+15 \\ 2 \\ 4+16 \\ 6 \\ \hline 8+17 \\ 10 \end{array} $	9.87615 .87619 .87623 .87626 9.87630 .87633	0.75189 .75195 .75201 .75208 0.75214 .75220	9.87832 .87835 .87839 .87843 9.87846 .87850	0.75565 .75571 .75577 .75583 0.75590 .75596	9.88046 .88050 .88053 .88057 9.88061 .88064	0.75939 .75945 .75951 .75957 0.75964 .75970	9.88259 .88262 .88266 .88269 9.88273 .88276	0.76311 .76317 .76323 .76329 0.76335 .76342	9.88469 .88472 .88476 .88479 9.88483 .88486	0.76681 .76687 .76693 .76699 0.76705 .76711	60 58 56 54 5₹ 50
$ \begin{array}{r} 0+15 \\ 2 \\ 4+16 \\ 6 \\ \hline 8+17 \\ 10 \\ 12+18 \end{array} $	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602	9.88046 .88050 .88053 .88057 9.88061 .88064 .88068	0.75939 .75945 .75951 .75957 0.75964 .75970 .75976	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718	60 58 56 54 52 50 48
$ \begin{array}{c} 0+15 \\ 2 \\ 4+16 \\ \hline 6 \\ \hline 8+17 \\ 10 \\ 12+18 \\ 14 \end{array} $	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87641	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608	9.88046 .88050 .88053 .88057 9.88061 .88064 .88068	0.75939 .75945 .75951 .75957 0.75964 .75970 .75976 .75983	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490 .88493	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718 .76724	58 56 54 52 50 48 46
0+15 2 4+16 6 8+17 10 12+18 14 16+19	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87641	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233 0.75239	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87861	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608 0.75615	9.88046 .88050 .88053 .88057 9.88061 .88064 .88068 .88071 9.88075	0.75939 .75945 .75951 .75957 0.75964 .75970 .75976 .75982 0.75988	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354 0.76360	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718	58 56 54 52 50 48 46 44
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18	9.87615 .87619 .87623 .87626 9.87630 .87633 .87633 .87641 9.87644 .87648	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87861 .87864 .87868	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608	9.88046 .88050 .88053 .88057 9.88061 .88064 .88068 .88071 9.88075 .88078	0.75939 .75945 .75951 .75957 0.75964 .75970 .75982 0.75988 .75995 .76001	9.88259 .88262 .88269 9.88273 .88276 .88280 .88280 .88283 9.88287 .88290 .88294	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354 0.76360 .76366 .76373	9.88469 .88472 .88476 .88479 9.88483 .88486 .88493 9.88493 9.88500 .88500	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718 .76724 0.76730 .76736 .76742	60 58 56 54 52 50 48 46 44 42 40
0+15 2 4+16 6 8+17 10 12+18 14 16+19	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87641 9.87644 .87648	0.75189 .75195 .75201 .75208 0.75214 .75220 .75233 0.75233 0.75239	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87861	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608 0.75615	9.88046 .88050 .88053 .88057 9.88061 .88064 .88078 .88071 9.88075 .88082 .88085	0.75939 .75945 .75951 .75957 0.75964 .75970 .75988 0.75988 .75995 .76001 .76007	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88287 .88297 .88294 .88294	0.76311 .76317 .76323 .76329 0.76335 .76312 .76348 .76354 0.76360 .76366 .76373 .76379	9.88469 .88472 .88479 9.88483 .88486 .88490 .88496 .88500 .88500 .88503 .88507	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718 .76724 0.76730 .76736 .76742	50 53 56 54 52 50 48 46 44 42 40 38
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21	9.87615 .87619 .87623 .87626 9.87630 .87637 .87641 9.87644 .87648 .87648 .87652 .87655	0.75189 .75195 .75201 .75208 0.75214 .75226 .75226 .75233 0.75239 .75245 .75251 .75258	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87864 .87868 .87871	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608 0.75615 .75621 .75627 .75633	9,88046 .88050 .88053 .88057 9,88061 .88064 .88071 9,88075 .88078 .88082 .88082 .88085	0.75939 .75945 .75957 0.75964 .75970 .75976 .75982 0.75988 .75995 .76001 .76007	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88294 .88294	0.76311 .76317 .76323 .76329 0.76335 .76312 .76354 0.76360 .76366 .76373 .76379	9.88469 .88472 .88479 9.88483 .88486 .88490 .88493 9.88496 .88500 .88503 .88507	0.76681 .76687 .76693 .76699 0.76705 .76711 .76718 .76724 0.76736 .76742 .76748	58 56 54 52 50 48 46 44 42 40 38 36
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26	9.87615 .87619 .87623 .87626 9.87630 .87637 .87641 9.87644 .87648 .87655 9.87655	0.75189 .75195 .75201 .75208 0.75214 .75220 .75223 0.75233 0.75239 .75245 .75258 0.75264 .75270	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87864 .87864 .87868 .87871	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608 0.75615 .75621 .75621 .75633 0.75640 .75646	9.88046 .88050 .88053 .88057 9.88061 .88064 .88064 .88071 9.88075 .88078 .88082 .88085 9.88089	0.75939 .75945 .75951 .75957 0.75964 .75976 .75976 .75988 0.75988 .75995 .76001 0.76007	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88290 .88297 9.88301 .88304	0.76311 .76317 .76323 .76329 0.76335 .76312 .76314 0.76364 0.76360 .76373 .76379 0.76385	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490 .88493 9.88496 .88500 .88507 9.88510 .88511	0.76681 .76687 .76693 .76699 0.76705 .76718 .76718 .76724 0.76730 .76748 0.76748	58 56 54 52 50 48 46 44 42 40 38 36 34
0+15 2 4+16 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22	9.87615 .87619 .87623 .87626 9.87630 .87637 .87641 9.87644 .87648 .87652 .87655 9.87659 .87666 .87662	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233 0.75239 .75245 .75251 .75258 0.75264 .75270 .75270	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87861 .87864 .87868 .87871 9.87875 .87879	0.75565 .75571 .75577 .75583 0.75596 .75596 .75602 .75608 0.75615 .75621 .75623 0.75646 .75646 .75632	9.88046 .88050 .88053 .88057 9.88061 .88068 .88071 9.88075 .88078 .88082 .88082 .88085 9.88089 .88092	0.75939 .75945 .75957 0.75961 .75970 .75976 .75982 0.75988 .75995 .76001 .76007 0.76013 .76019 .76026	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88294 .88297 9.88301 .88304	0.76311 .76317 .76323 .76329 0.76335 .76312 .76348 .76354 0.76366 .76373 .76379 0.76385 .76391 .76397	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490 .88496 .88500 .88503 .88507 9.88510 .88514 .88514	0.76681 .76697 .76693 .76699 0.76703 .76711 .76718 .76724 0.76736 .76742 .76748 0.76754 -76761 .76761	60 58 56 54 52 50 48 44 40 38 56 34 32
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30	9.87615 .87619 .87623 .87626 9.87630 .87637 .87637 .87644 .87648 .87652 .87655 9.87655 9.87662 .87666 .87670	0.75189 .75195 .75201 .75208 0.75214 .75206 .75233 0.75239 .75251 .75251 .75258 0.75364 .75277 .75277	9.87832 .87835 .87839 .87843 9.87846 .87850 .87850 9.87861 .87864 .87868 .87871 9.87875 .87879 .87882 .87888	0.75565 .75571 .75577 .75583 0.75590 .75596 .75608 0.75615 .75621 .75621 .75623 0.75640 .75646 .75658	9.88046 .88050 .88053 .88057 9.88061 .88068 .88071 9.88075 .88082 .88082 .88082 .88082 .88082 .88082 .88082	0.75939 .75945 .75957 0.75964 .75976 .75976 .75988 .75988 .75988 .75988 .75981 .76007 0.76013 .76019 .76026	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88290 .88297 9.88304 .88304 .88304 .88304 .88304	0.76311 .76317 .76323 .76329 0.76335 .76348 .76354 0.76360 .76360 .76373 .76379 0.76385 .76391 .76391	9.88469 .88472 .88476 .88479 9.88483 .88496 .88496 .88503 .88507 9.88514 .88514 .88517 .88517	0.76681 .76697 .76693 .76699 0.76701 .76718 .76724 0.76730 .76742 .76748 0.76754 .76767 .76767	60 58 56 54 52 50 48 44 40 38 56 34 40 38 50 36 34 32 30
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30 32+23	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87641 9.87648 .87648 .87652 .87655 9.87659 .87662 .87666 .87670 9.87673	0.75189 .75195 .75201 .75208 0.75211 .75220 .75226 .75239 .75245 .75251 .75258 0.75264 .75270 .75270 .75270	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87857 9.87864 .87864 .87871 9.87875 .87879 .87886 9.87886	0.75565 .75571 .75577 .75583 0.75596 .75692 .75692 .75693 0.75615 .75621 .75633 0.75646 .75652 .75658	9,88046 ,88050 ,88053 ,88057 9,88061 ,88064 ,88071 9,88075 ,88078 ,88082 ,89085 9,88089 ,88092 ,88096 ,88100 9,88103	0.75939 .75945 .75957 0.75961 .75970 .75976 .75982 0.75988 .75995 .76001 .76007 0.76013 .76019 .76026	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88294 .88297 9.88301 .88304	0.76311 .76317 .76323 .76329 0.76335 .76312 .76348 .76354 0.76366 .76373 .76379 0.76385 .76391 .76397	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490 .88496 .88500 .88503 .88507 9.88510 .88514 .88514	0.76681 .76697 .76693 .76699 0.76703 .76711 .76718 .76724 0.76736 .76742 .76748 0.76754 -76761 .76761	60 58 56 54 52 50 48 44 40 38 56 34 32
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34	9.87615 .87619 .87623 .87626 9.87630 .87637 .87637 .87644 .87648 .87652 .87655 9.87655 9.87662 .87666 .87670	0.75189 .75195 .75201 .75208 0.75214 .75206 .75233 0.75239 .75251 .75251 .75258 0.75364 .75277 .75277	9.87832 .87835 .87839 .87843 9.87846 .87850 .87850 9.87861 .87864 .87868 .87871 9.87875 .87879 .87882 .87888	0.75565 .75571 .75577 .75583 0.75590 .75596 .75608 0.75615 .75621 .75621 .75623 0.75640 .75646 .75658	9.88046 .88050 .88053 .88057 9.88061 .88068 .88071 9.88075 .88082 .88082 .88082 .88082 .88082 .88082 .88082	0.75939 .75945 .75951 .75957 0.75961 .75970 .75982 0.75988 .75995 .76001 .76007 0.76013 .76019 .76026 .76032 0.76038	9.88259 .88262 .88266 .88269 9.88273 .88276 .88280 .88283 9.88287 .88294 .88294 .88304 .88304 .88311 9.88315 .88318	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 0.76360 .76366 .76379 0.76385 .76991 .76991 .76993 0.76410 .76410	9.88469 .88472 .88479 9.88483 .88486 .88490 .88500 .88503 9.88503 .88507 9.88514 .88514 .88512 9.88524 .88528	0.76681 .76687 .76693 .76693 .76693 .766705 .76711 .76718 .76724 0.76730 .76736 .76748 0.76754 .76761 .76767 .76773 0.76779 .76773 .76778	60 58 56 54 50 46 44 40 38 54 34 36 34 36 34 36 34 36 34 36 34 36 36 36 36 36 36 36 36 36 36 36 36 36
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30 32+23	9.87615 .87619 .87623 .87626 9.87630 9.87637 .87641 9.87644 .87652 .87655 9.87655 9.87656 .87660 .87670 9.87670 9.87677	0.75189 .75195 .75208 0.75214 .75208 0.75234 .75236 .75233 0.75239 .75251 .75255 0.75264 .75277 .75289 0.75289 .75295 .75295 .75295 .75308	9.87832 .87835 .87839 .87843 9.87846 .87850 .87853 .87861 .87864 .87868 .87871 9.87875 .87879 .87882 .87886 .87893 .87893 .87893 .87896 .87893	0.75565 .75571 .75577 .75583 0.75596 .75602 .75602 0.75615 .75621 .75633 0.75640 .75652 .75652 .75655 .75671 .75671 .75673	9,88046 ,88050 ,88053 ,88057 ,9,88061 ,88064 ,88081 ,88082 ,88082 ,88085 ,88085 ,88096 ,88100 ,88103 ,88107 ,88110	0.75939 .75945 .75951 .75957 0.75964 .75970 .75976 .75976 .75978 .75978 .75995 .76007 0.76013 .76019 .76026 .76038 .76044 .76057	9,88259 .88262 .88266 .88269 9,88273 .88276 .88280 9,88283 9,88297 9,88301 .88304 .88311 9,88315 .88318 .88325	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354 0.76360 .76366 .76373 .76379 0.76352 .76391 .76410 .76416 .76416	9.88469 .88472 .88476 .88479 9.88183 .88486 .88490 9.88496 .88500 .88503 .88507 9.88514 .88517 .88524 .88528 .88535	0.76681 .76697 .76693 .76699 0.76705 .76711 .76718 .76724 0.76730 .76742 .76748 0.76754 .76767 .76773 0.76779 .76775 .76779	58 56 54 52 50 48 46 44 40 38 36 34 32 30 28 24 22
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87644 .87648 .87645 .87655 9.87656 .87666 .87670 9.87677 .87680 .87684	0.75189 .75195 .75218 .75208 0.75214 .75220 .75226 .75233 0.75239 .75251 .75258 0.75264 .75270 .75270 .75275 .75283 0.75283 0.75283 0.75285 0.75285	9.87832 .87835 .87839 .87843 .87850 .87853 .87857 9.87861 .87864 .87868 .87871 9.87875 .87879 .87886 9.87889 9.87889 .87889 9.87889 .87990 9.87990	0.75565 .75571 .75573 .75583 0.75590 .75596 .75608 0.75615 .75621 .75624 .75646 .75646 .75652 .75658 0.75665 .75677 .75677 .75677	9,88046 .88050 .88050 .88057 .88061 .88068 .88071 9,88078 .88082 .88082 .88082 .88085 .88092 .88086 .88100 9,88103 .88110 .88114	0.75939 .75945 .75951 .75957 0.75964 .75976 .75982 0.75985 .76001 .76007 0.76013 .76095 .76044 .76050 .76050 .76050 .76050	9,88259 .88262 .88266 .88269 .88263 .88283 .88283 .88283 .88294 .88297 .88304 .88304 .88311 .88304 .88311 .88315 .88315 .88315	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354 0.76366 .76373 .76379 0.76403 0.76410 .76416 .76422 .76428 0.76434	9.88469 .88472 .88472 .88479 9.88483 .88486 .88490 .88503 .88503 .88507 9.88514 .88514 .88521 9.88524 .88523 .88535 9.88535	0.76681 .76687 .76687 .76699 0.76705 .76718 .76718 .76718 .76742 .76748 0.76736 0.76751 .76761 .76767 .76773 0.76779 .76789	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 24 21 22
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25 42	9.87615 .87619 .87623 .87626 9.87630 .87633 .87637 .87641 9.87644 8.7652 .87655 9.87659 9.87662 .87666 .87670 9.87673 .87677 .87684 9.87684 9.87688 .87684	0.75189 .75195 .75218 .75208 0.75214 .75220 .75233 0.75235 0.75245 .75251 .75256 0.75264 .75270 .75270 .75283 0.75283 0.75289 .75388 0.75388 0.75388	9.87832 .87835 .87839 .87846 .87850 .87853 .87857 9.87861 .87864 .87868 .87879 .87879 .87882 .87889 .87893 .87893 .87893 .87893 .87894 .879904	0.75565 .75571 .75577 .75583 0.75596 .75596 .75608 0.75615 .75621 .75627 .75633 0.75646 .75646 .75652 .75655 0.75647 .75677 .75683 0.75683	9.88046 .88050 .88053 .88057 9.88061 .88064 .88068 .88071 9.88075 .88082 .88082 .88085 9.88085 9.88092 .88103 .88107 .88110 .88114 9.88114	0.75939 .75945 .75951 .75957 0.75964 .75970 .75976 .75976 .75978 .75995 .76001 .76070 0.76013 .76019 .76038 .76043 .76050 .76057 0.76057	9,88259 .88262 .88266 .88269 9,88273 .88276 .88283 9,88287 .88297 9,88304 .88308 .88315 .88318 .88312 .88325 9,88315	0.76311 .76317 .76323 .76329 0.76335 .76342 .76348 .76354 0.76360 .76373 .76397 .76493 0.76410 .76416 .76422 .76428 0.76434	9.88469 .88472 .88472 .88476 .88479 9.88483 .88486 .88490 .88503 .88507 9.88514 .88517 .88524 .88528 .88535 9.88528 .88535	0.76681 .76687 .76687 .76699 0.76705 .76711 .76718 .76724 0.76730 .76742 .76742 .76743 0.76754 .76761 .76773 0.76779 0.76879 .76897 0.76897	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 24 24 22 20 18
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 23+21 26 32+22 30 32+23 34 36+24 38 40+25 44 44+26	9,87615 ,87619 ,87623 ,87626 ,9,87630 ,87633 ,87637 ,87641 ,9,87648 ,87652 ,87655 ,87656 ,87650 ,87662 ,87666 ,87670 ,87680 ,87680 ,87680 ,87684 ,87680 ,87681 ,87691	0.75189 .75195 .75208 .75208 .75214 .75208 .75236 .75233 0.75239 .75245 .75251 .75258 0.75296 .75277 .75283 0.75295 .75302 .75302 .75302 .75302 .75303	9.87832 .87835 .87839 .87843 .87843 .87850 .87853 .87857 .87864 .87868 .87871 .87868 .87871 .87869 .87889 .87889 .87889 .87893 .87896 .87890 .87990 .87997	0.75565 .75571 .75573 .75583 0.75590 .75596 0.75615 .75621 .75621 .75633 0.75640 .75646 .75658 0.75658 0.75658 0.75658 0.75659 0.75690 .75690 .75690	9,88046 ,88050 ,88053 ,88057 ,98061 ,88068 ,88071 ,9,88078 ,88082 ,88085 ,88082 ,88085 ,88082 ,88085 ,88082 ,88085 ,88081 ,88100 ,88110 ,88117 ,88114 ,88114 ,88114	0.75939 .75945 .75945 .75957 0.75964 .75970 .75982 0.75983 .75995 .76001 .76007 0.76013 .76007 0.76032 0.76032 0.76032 0.76033 .76044 .76050 .76050 .76063 .76063 .76063	9,88259 .88262 .88266 .88269 9,88273 .88276 .88280 .88283 9,88287 .88294 .88294 .88294 .88304 .88304 .88308 .88311 9,88315 .88312 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .8832	0.76311 .76317 .76329 0.76335 .76312 0.76354 0.76366 .76373 0.76385 .76391 0.76493 0.76416 .7642 0.7642 0.76434 0.76434	9.88469 .88472 .88476 .88479 9.88486 .88490 .88500 .88500 .88503 .88507 9.88514 .88517 .88521 9.88528 .88531 .88531 .88531 .88531 .88531 .88531 .88532 .88542 .88542	0.76681 .76687 .76689 0.76705 .76711 .76718 .76724 0.76730 .76736 0.76754 .76748 0.76754 .76748 0.76755 .76748 0.76757 0.76773 0.76791 .76891 .76891 .76810	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 27 20 18 16
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 23+21 26 28+22 30 32+23 34 36+24 38 40+25 44 46 46	9,87615 87619 87626 9,87630 87637 87641 9,87644 87648 87652 87655 9,87659 8,7666 8,7670 9,87673 8,7677 8,7684 9,87684 9,87684 9,87684 9,87685 8,7691 8,7691 8,7695 8,7691 8,7695 8,7695	0.75189 .75195 .75201 .75208 0.75214 .75226 .75226 .75226 .75226 .75226 .75258 0.75245 .75258 0.75264 .75277 .75283 0.75289 .75295 .75308 0.75314 .75321 .75327 .75338	9.87832 \$7835 \$7839 \$7846 \$7850 \$7850 \$7850 \$7850 \$7861 \$7864 \$7864 \$7868 \$7871 9.87875 \$7882 \$7882 \$7893 \$7893 \$7890 \$7907 \$7911 \$7911	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75608 0.75615 .75621 .75640 .75640 .75652 .75652 .75653 0.75665 .75677 .75683 0.75665 .75677 .75683 0.75665 .75677 .75683	9,88046 88050 88053 9,88057 9,88061 88068 88071 9,88075 88082 88085 9,88085 9,88086 88100 9,88103 88107 88114 9,88117 88114 9,88117 88121 88124	0.75939 .75945 .75951 .75951 .75957 0.75964 .75976 0.75988 .75995 .76001 .76007 0.76038 .76019 .76038 .76038 .76044 .76057 0.76069 .76069 .76069 .76067 .76067	9.88259 88262 88266 88269 9.88273 88276 88280 88283 9.88287 88290 9.88287 88290 9.88281 9.88281 9.88315 88318 9.88315 9.88325 9.88325	0.76311 .76317 .76329 0.76335 .76342 .76354 0.76366 .76373 .76379 0.76385 .76397 .76410 0.76416 .76428 0.76428 0.76434 0.76447 .76447	9.88469 88472 .88476 9.88476 9.88483 .88490 .88493 9.88496 .88500 .88500 .88507 9.88517 .88524 .88523 .88535 9.88524 .88535 9.88542 .88545 .88545 .88545	0.76681 .76687 .76699 0.76705 .76718 .76718 .76724 0.76736 .76748 0.76754 .76767 .76779 0.76779 .76779 .76779 .7678 0.7679 0.76897	60 58 56 54 52 50 48 46 44 42 40 38 38 36 34 32 30 28 26 24 22 10 11 11
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 32+22 30 32+23 34 36+24 38 40+25 44 46 48+27	9,87615 ,87619 ,87623 ,87626 ,9,87630 ,87637 ,87641 ,9,87644 ,87655 ,87655 ,87656 ,87670 ,87670 ,87684 ,9,87688 ,57684 ,87695 ,87695 ,87695 ,87695	0.75189 .75195 .75201 1.75208 0.75214 .75226 .75233 0.75239 .75245 .75251 0.75258 0.75264 .75277 .75283 0.75295 0.75295 0.75295 0.75297 .75295 0.75297 .75293 0.753314 .753317 .75333	9.87832 .87835 .87839 .87843 .87850 .87853 .87857 .87864 .87868 .87871 .9.87865 .87871 .87886 .87871 .87896 .87890 .87890 .87890 .87890 .87990 .87990 .87991 .87991 .87911 .87911	0.75565 .75571 .75573 .75583 0.75596 .75596 .75605 0.75615 .75621 .75621 .75633 0.75640 .75646 .75658 0.75658 .75677 .75673 .75690 .757690 .75709 .75708	9,88046 ,88050 ,8053 ,88057 ,98061 ,88068 ,88071 ,9,88075 ,88082 ,88082 ,88082 ,88082 ,88083 ,88096 ,88100 ,88110 ,88111 ,88117 ,88124 ,88128	0.75939 .75945 .75945 .75957 0.75964 .75976 .75982 0.75988 .75995 .76001 .76007 0.76032 0.76038 .76044 .76057 0.76063 .76057 0.76063 .76057 0.76063 .76057 0.76063	9,88259 .88262 .88266 .88269 9,88273 .88276 .88280 .88283 9,88287 .88294 .88294 .88294 .88304 .88304 .88308 .88311 9,88315 .88312 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .88325 .8832	0.76311 .76317 .76329 0.76335 .76312 0.76354 0.76366 .76373 0.76385 .76391 0.76493 0.76416 .7642 0.7642 0.76434 0.76434	9.88469 .88472 .88476 .88479 9.88486 .88490 .88500 .88500 .88503 .88507 9.88514 .88517 .88521 9.88528 .88531 .88531 .88531 .88531 .88531 .88531 .88532 .88542 .88542	0.76681 .76687 .76689 0.76705 .76711 .76718 .76724 0.76730 .76736 0.76754 .76748 0.76754 .76748 0.76755 .76748 0.76757 0.76773 0.76791 .76891 .76891 .76810	58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 27 20 20 21 21 21 21 21 21 21 21 21 21
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25 44 46 48+27 50	9,87615 87619 87626 9,87630 87633 87637 87641 9,87644 9,87648 87655 9,87659 9,87659 9,87673 8,7657 8,7684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87684 9,87762 8,87691 9,87702 8,87702	0.75189 .75195 .75201 .75208 0.75211 .75208 0.75233 0.75233 0.75251 .75251 .75253 0.75246 .75233 0.75289 .75283 0.75289 .75283 0.75289 .75283 0.75380 0.75381 0.75381 0.75383	9.87832 \$7835 \$7839 \$87846 \$7850 \$7857 \$7857 \$7857 \$7864 \$7864 \$7868 \$7871 9.87875 \$7882 \$7889 \$7890 \$7990 \$7997 \$7911 \$7911 9.87918 \$7991	0.75565 .75571 .75577 .75583 0.75590 .75596 .75602 .75696 0.75615 .75621 .75627 .75633 0.75640 .75652 .75652 .75658 0.75665 .7567 .7567 .75683 0.75696 .75769 0.75790 0.75714 .75721	9,88046 88050 88050 9,88053 9,88061 88061 88071 9,88075 88082 88082 88085 9,88082 88096 88100 9,88103 88114 9,88117 9,88117 9,88117 88121 88124 88128 9,88131	0.75939 .75945 .75951 .75951 .75956 .75996 .75996 .75995 .76001 .76007 0.76013 .76019 .76050 .76057 0.76657 0.76669 .76082 0.76082 0.76082 0.76082 0.76082	9,88259 .88262 .88266 .88269 9,88273 .88276 .88283 9,88283 9,88287 9,88308 .88311 9,88315 .88312 5,88329 .88325 9,88329 .88326 .88338	0.76311 .76317 .76329 0.76335 .76348 .76354 0.76360 .76366 .76379 0.76385 .76397 .76403 0.76416 .76422 .76428 0.76434 .76434 .76447 .76453	9.88469 .88472 .88476 .88479 9.88183 .88486 .88490 .88500 .88500 .88507 9.88514 .88512 9.88524 .88523 9.88524 .88542 .88542 .88542 .88549	0.76681 .76687 .76687 .76699 0.76705 .76711 .76724 0.76730 .76736 0.76734 0.76754 .76767 .76773 0.76779 .76785 .76797 0.76891 .76801 .76816 .76816 .76816	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 21 22 21 21 11
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 32+22 30 32+23 34 36+24 38 40+25 42 44+26 48+27	9,87615 ,87619 ,87623 ,87626 ,9,87630 ,87637 ,87641 ,9,87644 ,87655 ,87655 ,87656 ,87670 ,87670 ,87684 ,9,87688 ,57684 ,87695 ,87695 ,87695 ,87695	0.75189 .75195 .75201 1.75208 0.75214 .75226 .75233 0.75239 .75245 .75251 0.75258 0.75264 .75277 .75283 0.75295 0.75295 0.75295 0.75297 .75295 0.75297 .75293 0.753314 .753317 .75333	9.87832 .87835 .87839 .87843 .87850 .87853 .87857 .87864 .87868 .87871 .9.87865 .87871 .87886 .87871 .87896 .87890 .87890 .87890 .87890 .87990 .87990 .87991 .87991 .87911 .87911	0.75565 .75571 .75573 .75583 0.75596 .75596 .75605 0.75615 .75621 .75621 .75633 0.75640 .75646 .75658 0.75658 .75677 .75673 .75690 .757690 .75709 .75708	9,88046 ,88050 ,8053 ,88057 ,98061 ,88068 ,88071 ,9,88075 ,88082 ,88082 ,88082 ,88082 ,88083 ,88096 ,88100 ,88110 ,88111 ,88117 ,88124 ,88128	0.75939 .75945 .75945 .75957 0.75964 .75976 .75982 0.75988 .75995 .76001 .76007 0.76032 0.76038 .76044 .76057 0.76063 .76057 0.76063 .76057 0.76063 .76057 0.76063	9,88259 88262 88266 88269 9,88273 88276 88280 88283 9,88283 9,88283 9,88287 88290 9,88291 9,88308 88311 9,88315 88312 9,88325 9,88325 9,88329 9,88323 88339 9,88333	0.76311 .76317 .76323 .76329 0.76335 .76314 0.76366 .76379 0.76385 .76391 .76391 .76393 0.76410 .76412 0.76428 0.76428 0.76438 0.76440 0.76440 0.76459 0.76459	9.88469 .88472 .88476 .88479 9.88483 .88486 .88490 .88500 .88507 9.88514 .88517 .88524 .88528 .88531 .88535 9.88542 .88542 .88545 .88519 9.88556 .88565	0.76681 .76697 .76693 .76699 0.76705 .76718 .76718 .76724 0.76730 .76748 0.76748 0.76754 .76761 .76767 0.76779 0.76779 0.76891 .76810 .76810 .76810 .76810 .76810 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811 .76811	60 58 56 54 52 50 48 46 44 42 40 38 86 34 32 30 28 26 22 20 18 16 11 11
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25 44+26 48+27 50 52+28	9,87615 87619 87623 9,87623 9,87630 8,7637 8,7641 9,87648 8,7655 9,87659 8,7666 8,7670 9,87673 8,7677 8,7688 8,7689 8,7689 8,7695 8,7695 8,7702 8,7702 8,7702 8,7702 8,7702 8,7702 8,7702 8,7702	0.75189 .75195 .75201 .75208 0.75214 .75226 .75233 0.75239 .75245 .75258 0.75264 .75277 .75258 0.75295 .75308 0.75314 .75327 .75333 0.75339 .75339 .75339	9.87832 .87835 .87839 .87846 .87850 .87853 .87857 .87864 .87864 .87864 .87864 .87864 .87867 .87879 .87882 .87879 .87882 .87893 .87893 .87890 .87997 .87911 .87911 .87912 .87912 .87925 .87925 .87929 .87929 .87929	0.75565 7.5571 7.7577 7.75583 0.75590 7.75608 7.75608 0.75616 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75696 7.75702 7.75702 7.75702 7.75702 7.75714 7.75727 7.75733	9,88046 88050 88053 9,88051 9,88061 88068 88071 9,88075 88082 88085 9,88089 88107 88107 88114 9,88117 88121 88124 88124 88124 88124 88124 9,88131 88125 9,88131 88125 9,88131	0.75939 .75945 .75951 .75951 .75957 0.75964 .75976 0.75988 .75995 .76001 .76007 0.76013 .76019 .76026 .76038 .76044 .76057 0.76069 .76075 .76069 .76075 .76088 .76094 .76076 .76076 .76076 .76088 .76094 .76076 .76088 .76094 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .760	9.88259 88262 88268 88269 9.88273 88276 88280 88283 9.88287 88290 9.88287 88290 9.88381 9.88315 9.88325 9.88325 9.88325 9.88325 9.88336 9.88336 9.88336 9.88336 9.88336 9.88336	0.76311 .76317 .76323 .76329 0.76335 .76342 .76354 0.76366 .76373 .76379 0.76385 .76397 .76403 0.76410 .76412 0.76428 0.76428 0.76459 .76459 .76459	9.88469 88472 .88476 9.88476 9.88483 88493 9.88493 9.88500 88500 88500 88507 9.88510 88517 88524 88535 9.88525 9.88535 9.88536 88542 88542 88545 88545 88545 88545 88545 88545 88545 88555 88545 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 885	0.76681 .76687 .76699 0.76705 .76718 .76718 .76724 0.76736 .76748 0.76754 .76767 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .767816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816	60 58 56 56 52 50 48 44 42 40 38 36 34 32 30 28 24 22 21 11 11 11 11
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 32+22 30 32+23 34 36+24 38 40+25 44 48+27 50 52+28 52+28 54+29 56+29 58	9.87615 87619 87623 9.87630 87633 87637 87631 9.87644 87648 87655 9.87655 9.87655 9.87662 8.7660 8.87670 9.8763 8.7691 9.87688 8.7691 9.87706 8.7709 9.87706 8.7709 9.87706 8.7709 9.87706 8.7709 9.87717 8.7717 8.7717 8.7717 8.7717 8.7717 8.7717	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233 0.75239 .75251 .75251 .75251 .75253 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75308 0.753802 0.75302 0.75303 0.753564 0.753584 0.753584 0.753584	9,87832 87835 9,87846 9,87846 87850 87850 87853 87857 9,87861 8,7868 8,7879 9,87879 8,7889 8,7896 9,87899 8,7990 9,87904 8,7907 8,7911 8,7911 8,7911 8,7921 8,7921 8,7921 8,7921 8,7921 8,7929 9,87929 9,87929	0.75565 .75571 .75577 .75573 .75573 .75583 0.755890 .75586 0.75615 .75621 .75627 .75633 0.75616 .75646 .75652 0.756652 0.756652 0.756653 0.75666 0.75690 .75690 .75798 0.75714 .75721 .75723 0.75733 0.75733	9,88046 88050 88053 .88057 9,88061 88068 88071 9,88075 .88085 9,88085 9,88085 9,88085 9,88086 9,88103 8,8107 8,8117 8,81121 8,8124 8,8135 8,8135 8,8135 8,8135 8,8135	0.75939 .75945 .75951 .75957 0.75964 .75976 .75982 0.75988 .75982 0.76007 0.76019 .76003 0.76032 0.76032 0.76032 0.76050 .76075 .76094 0.76050 0.76113 .76113	9,88259 88262 88269 9,88263 88269 9,88283 88276 88290 88297 9,88297 9,88304 88304 88301 9,88315 9,88315 9,88322 88325 9,88323 9,88323 9,88339 9,88338 9,88339 9,88339 9,88339	0.76311 .76317 .76323 .76329 0.76335 .76342 0.76360 .76360 .76360 .76373 .76373 .76373 .76391 .76397 .76410 .76410 .76412 .76422 .76428 0.76434 .76440 .76453 0.76455 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7	9,88469 88472 88476 88479 9,88183 88486 88490 88590 88590 9,88590 9,88514 88512 9,88524 88524 88525 9,88528 88542 9,88566 88569 9,88566	0.76681 .76693 .76699 0.76703 .76671 .76718 .76718 .76718 .76714 0.76730 .76748 .76744 .76741 .76747 .76748 .76749 .76749 .76749 .76749 .76801 .76810 .76810 .76811 .76691 .76811 .76810 .76812 .76811 .76810 .76811 .76811	60 58 56 56 52 50 48 44 42 40 38 36 32 30 28 26 22 21 21 11 11 11 11 11 11 11
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25 44+26 48+27 50 50 50 50 50 50 50 50 50 50	9,87615 \$7619 \$7626 9,87630 \$7637 \$7637 \$7641 9,87644 \$7648 \$7652 \$7655 9,87659 \$7666 \$7670 9,87673 \$7077 \$78684 9,87684 9,87684 9,87684 9,87691 \$77696 \$77706 \$77706 \$77709 \$77713 \$77713	0.75189 .75195 .75201 .75208 0.75214 .75226 .75239 0.75245 .75255 0.75245 .75253 0.75289 0.75289 0.75289 0.75289 0.75289 0.75281 0.75289 0.75289 0.75289 0.75314 0.75399 0.75316 0.75316 0.75316 0.75316 0.75339 0.75339	9.87832 .87835 .87839 .87846 .87850 .87853 .87857 .87864 .87864 .87864 .87864 .87864 .87867 .87879 .87882 .87879 .87882 .87893 .87893 .87890 .87997 .87911 .87911 .87912 .87912 .87925 .87925 .87929 .87929 .87929	0.75565 7.5571 7.7577 7.75583 0.75590 7.75608 7.75608 0.75616 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75640 7.75633 0.75696 7.75702 7.75702 7.75702 7.75702 7.75714 7.75727 7.75733	9,88046 88050 88053 9,88051 9,88061 88068 88071 9,88075 88082 88085 9,88089 88107 88107 88114 9,88117 88121 88124 88124 88124 88124 88124 9,88131 88125 9,88131 88125 9,88131	0.75939 .75945 .75951 .75951 .75957 0.75964 .75976 0.75988 .75995 .76001 .76007 0.76013 .76019 .76026 .76038 .76044 .76057 0.76069 .76075 .76069 .76075 .76088 .76094 .76076 .76076 .76076 .76088 .76094 .76076 .76088 .76094 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .76096 .760	9.88259 88262 88268 88269 9.88273 88276 88280 88283 9.88287 88290 9.88287 88290 9.88381 9.88315 9.88325 9.88325 9.88325 9.88325 9.88336 9.88336 9.88336 9.88336 9.88336 9.88336	0.76311 .76317 .76323 .76329 0.76335 .76342 .76354 0.76366 .76373 .76379 0.76385 .76397 .76403 0.76410 .76412 0.76428 0.76428 0.76459 .76459 .76459	9.88469 88472 .88476 9.88476 9.88483 88493 9.88493 9.88500 88500 88500 88507 9.88510 88517 88524 88535 9.88525 9.88535 9.88536 88542 88542 88545 88545 88545 88545 88545 88545 88545 88555 88545 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 88555 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 8855 885	0.76681 .76687 .76699 0.76705 .76718 .76718 .76724 0.76736 .76748 0.76754 .76767 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .76779 .767816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816 .76816	60 58 56 54 52 50 48 44 42 40 38 36 34 32 30 28 24 22 21 21 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 32+22 30 32+23 34 36+24 38 40+25 44 48+27 50 52+28 52+28 54+26 56+29 58	9,87615 87619 87623 9,87623 9,87630 8,7637 8,7641 9,87648 8,7655 9,87659 8,7666 8,7670 9,87673 8,7677 8,7688 8,7684 9,87688 8,7695 8,7695 8,7709 9,87702 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,7709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709 8,709	0.75189 .75195 .75201 .75208 0.75214 .75220 .75226 .75233 0.75239 .75251 .75251 .75251 .75253 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75289 0.75308 0.753802 0.75302 0.75303 0.753564 0.753584 0.753584 0.753584	9.87832 .87835 .87839 .87846 .87850 .87853 .87857 .87864 .87864 .87868 .87871 .87875 .87882 .87882 .87889 .87890 .87990 .87990 .87991 .87911 .87914 .87907 .87918 .87929 .87893 .87929 .87929 .87929 .87929 .87929 .87929 .87929 .87939	0.75565 .75571 .75577 .75573 .75573 .75583 0.755890 .75586 0.75615 .75621 .75627 .75633 0.75616 .75646 .75652 0.756652 0.756652 0.756653 0.75666 0.75690 .75690 .75798 0.75714 .75721 .75723 0.75733 0.75733	9,88046 88050 88053 9,88061 88068 88071 9,88075 88082 88082 88085 9,88089 88096 88100 9,81103 88114 9,88131 88124 88124 88124 88124 88124 9,88131 88135 88129 9,88131 88136 88149 9,88131	0.75939 .75945 .75951 .75957 0.75964 .75976 .75982 0.75988 .75982 0.76007 0.76019 .76003 0.76032 0.76032 0.76032 0.76050 .76075 .76094 0.76050 0.76113 .76113	9,88259 88262 88266 88269 9,88273 88276 88280 9,88287 88290 9,88287 9,88301 9,88315 88311 9,88315 88318 88311 9,88315 9,88329 9,88336 9,88336 9,88336 9,88336 9,88336 9,88336	0.76311 .76317 .76323 .76329 0.76335 .76342 0.76360 .76360 .76360 .76373 .76373 .76373 .76391 .76397 .76410 .76410 .76412 .76422 .76428 0.76434 .76440 .76453 0.76455 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7647 .7	9,88469 88472 88476 88479 9,88483 88486 88490 88593 9,88496 88503 88507 9,88514 88511 9,88524 88531 88531 9,88528 88542 9,88528 88549 9,88566 9,88560 9,88573	0.76681 .76693 .76699 0.76703 .76671 .76718 .76718 .76718 .76714 0.76730 .76748 .76744 .76741 .76747 .76748 .76749 .76749 .76749 .76749 .76801 .76810 .76810 .76811 .76691 .76811 .76810 .76812 .76811 .76810 .76811 .76811	60 58 56 56 52 50 48 44 42 40 38 36 32 30 28 26 22 21 21 11 11 11 11 11 11 11

Page 908]

# TABLE 45.

							1			
ĺ	Oh jun 122 30'	8' 12"	1535 0.	Sh 1:m	133, 30,	gh 17m	134, 0,	Sh Ism	124° 30′	l
	tor flav Schill	Lance III or	St. Hav	Let, Hav	No. buy	tor. Hav	Nat, Hav.	Log. Hay	Nat. Hav	s
0 0	9 55 573 0.76865	9,88,80	0.77232		0.77597	9,59157	0.77960	9,59357	0.75320	
2 "	SS-76 .76871	. *****	.77235	45958	.77603	.59190	.77966	,59391	.78326	1.05
4-4-1	SS (SO .76877		.77214	5×991	.77609	.89194 .89197	.77972	.89394 .89397	75332	56
-6	88788 .76883		.77250	9 - 59 -			0.77978	9,89400	0.75344	37
5 - 2	9.88587 0.76890 58590 .76896		0.77256	.89001	0.77621	9,89200	.77990	.89404	.78350	50
10	\$\$190 .76896 \$\$194 .76903		.77769	8 (10)	.77633	89207	77996	.89407	78356	48
111	\$\$5.97 .76908		.77275	59008	.77639	.89210	.78002	.89411	.75362	46
16 - 1	9 88600 : 0.76914	9 55507	0.77281	9.59012	0.77645	9,89214	0.75005	9.89414	0.75305	44
15	88604 .76900		.77257	.89015	.77651	.89217	.75011	.89417	.78371	43
Jun å	S-007 .769.6		.17293 .17299	80018 ,80022	.77657	.89221 .89224	.75026	.89424 .89424	.75350	40 38
l	88611 .76483		0.77305	9 890 %	0.77670	9.89227	0.75032	9.89427	0.78392	36
6	9 88614 .076939		.77311	5/1025	.77676	89231	75035	.89431	.78395	3.5
10.7	88621 .76951		.77317	890.12	.77652	89234	.78011	.59134	.75101	32
,0	88625 .76957	555.31	.77323	80035	.77654	.89237	.75050	.89437	.75110	30
	9.88-28 0.76963		0.77329	9.85039	0.77694	9.59241	0.75056	9 89441	0.78416	28
	88632 .76969		.17336	.89042 89045	.77700	.89244 .89247	.75062	.89444 .89447	.75422	26 24
r. ÷ 9	SSG5 .76975 SSG 7 .76981		.77342	59045	.77706	189247 189251	.75065	.89450	.75431	23
1.0	0.76955	1	0.77351	9,89052	0.77718	0.80254	0.75050	9.89154	0.75410	20
10	85 17 .76991		.77369	5,0056	.77724	50257	.75056	89457	.75116	18
11.11	· 19 .770a0		.77366	.89059	.77730	.89261	75092	.59466	.78452	16
	.77000	and a	.77372	,89062	.77736	.89264	.78098	.89461	.75155	1.5
12	0.77012		0.77375	9 89066	0.77742	9,89267	0.75104	9,59467	0.75464	12
1.00	77918		.17854	89069 .89072	.77748	.89271 .89274	.75110 .75116	. \$9470 \$9474	.78170	10
3 × 13		1	.77390 .77396	.89076	.77754	89277	.78122	59477	.78482	6
56 - 11	9 55070 9,47036			9.59079	0.77766	0.89281	0.78128		0.78188	4
36.7.11	9 8865B 0.77043			9.89083	0.77773	9.89284	0.78134		0.78191	2
										!
	15h ga t	154	4710	15h	\$5m	15h	.ş.şm	157	$J^{m}$	1
				<u> </u>						<del></del>
. /	8h 11= 122 30'	Sh 1m	123 0'	Sh 15m	123° 30′	8h 17m	124° 0'	8h 190	154 2 30,	в
	-		123 0' 0.77415	Sh 15m 9,89086	123° 30′ 0.77779	$\frac{8^{h} 17^{m}}{9.89287}$	0.75110	8h 190 9,89487	124° 30′ 0.78500	60
15	9 886.7 <b>0.77019</b> 88680 <b>.770</b> 53	9	0.77415	9,89086 89089	0.77779	9.89287 89291	0.75110	9,89487 ,89490	0.78500 .78506	60 58
	9 886,7 0.77049 88680 .77055 88683 .77061	4444 9 4444 1 4444	0.77415	9,×90×6 ×90×9 ×9093	0.77779 .77785 .77791	9.89287 .89291 .89294	0.78110 .78146 .78152	9,89487 ,89490 ,89493	0.78500 .78506 .78512	60 58 56
15 16	9 886.7 0.77049 88680 .77055 88683 .77061 88687 .77067	9 4449	0.77415 .77412 .77427 .77433	9,89086 89089 89093 89096	0.77779 .77785 .77791 .77797	9.89287 .89291 .89294 .89298	0.75140 .75146 .75152 .75158	9,89487 ,89490 ,89493 ,89497	0.78500 .78506 .78512 .78518	60 58 56 54
15	9 886,7 0,77049 8869 .77055 8863 .77061 8868 .77067 9 8869 0,77073	9 4446 4446 4446 4446 9 4496	0.77415 .77412 .77427 .77433 0.77139	9,89086 89089 89093 89096 9,89099	0.77779 .77785 .77791 .77797 0.77801	9,89287 89291 89294 89298 9,89301	0.75140 .78146 .78152 .78158 0.78164	9,89487 ,89490 ,89493 ,89497 9,89500	0.7×500 .7×506 .7×512 .7×51× 0.7×524	60 58 56 54 52
15 16 7	9 ×6,7 0,77049 ×680 ,77055 ×683 ,77061 ×687 ,77067 9 ×600 0,77073 ×614 ,77079	0 4440 4440 4440 4440 4440 4440	0.77415 .77412 .77427 .77433 0.77439 .77445	9,89086 89089 89093 89096 9,89099 89102	0.77779 .77785 .77791 .77797 0.77801 .77809	9,89287 89291 89294 89298 9,89301 89304	0.7×110 .7×146 .7×152 .7×158 0.7×164 .7×170	9,89487 ,89490 ,89493 ,89497 9,89500 89503	0.7×500 .7×506 .7×512 .7×51× 0.7×524 .7×530	60 58 56 54 52 50
15 16	9 886,7 0,77049 88680 ,77055 88683 ,77065 88687 ,77067 9 88690 0,77073 886 4 ,77049 88697 ,77085 88701 ,77085	9 4440 4440 4440 9 4440 4440 4440 4440 4	0.77415 .77412 .77427 .77427 .77433 0.77139 .77445 .77451	9,89086 89089 89093 89096 9,89099 89102 89106 89110	0.77779 .77785 .77791 .77797 .77797 0.77803 .77809 .77815	9,89287 ,89291 ,89294 ,89298 9,89301 ,89304 ,89308 89311	0.75140 .78146 .78152 .78158 0.78164 .78170 .78176	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×512	60 58 56 54 52 50 48 46
15 16 7 17 18 18 16 16 18	9 886,7 0,77049 88680 .77055 88683 .77061 88687 .77063 9 88690 0,77073 886,14 .77073 886,07 .77085 8701 0,77092	9 4443 4446 4446 4446 9 4496 4496 4496 4496 9 4496	0.77415 .77412 .77427 .77423 0.77439 .77445 .77451 .77457 0.77163	9,89086 89089 89093 89096 9,89099 89102 89106 89110 9,89113	0.77779 .77785 .77791 .77797 0.77803 .77809 .77815 .77821 0.77821	9.89287 .89291 .89294 .89298 9.89301 .89304 .89308 .89311 9.89314	0.75140 .78146 .78152 .78158 0.78164 .78170 .78176 .78182 0.78188	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510 9,89513	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×542 0.7×548	60 58 56 54 53 50 48 46 44
15 16 7 17 18 15 16 19 18	9 886,7 0,77049 88680 .77055 88683 .77061 88687 .77063 9 88690 0,77073 886,1 .77073 886,0 0,77073 88701 0,77093 9 88701 0,77094 88708 .77104	9 xxxx3 xxxx6 xxxx1 xxxx1 9 xxxx0 xxxx0 xxxx0 xxx0 0 xxx0 xxx0 xx	0.77415 .77412 .77427 .77433 0.77433 .77445 .77457 0.77457 0.77463	9,89086 89089 89093 89093 89099 9,80099 89102 89106 89110 9,89113 89116	0.77779 .777%5 .77791 .77797 0.77803 .77809 .77815 .77821 0.77827	9,89287 ,89291 ,89294 ,89298 9,89304 ,89308 ,89314 9,89314 ,89318	0.7×110 .7×146 .7×152 .7×158 0.7×164 .7×170 .7×176 0.7×182 0.7×188 .7×194	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510 9,89513 ,89517	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×5412 0.7×548	60 58 56 54 52 50 48 46 44 42
15 16 7 17 18 18 16 16 18	9 886,7 0,77049 88690 177035 88680 177035 88683 177067 9 88600 0,77035 886,4 177035 886,4 177035 88701 177035 9 88701 0,77035 88708 177104	9 xxx6 xxx6 xxx6 yxx96 xxx96 xxx96 xxx96 xx903 xx916 xx913 xx916	0.77415 .77412 .77427 .77433 0.77433 .77445 .77457 0.77457 0.77460 .77460 .77175	9,89086 89089 89093 89096 9,89099 89102 89100 58110 9,89113 89116 89120	0.77779 .777%5 .77791 .77791 .777803 .77809 .77815 .77821 0.77827 0.77827	9,89287 89291 89294 89298 9,89304 89308 89311 9,89314 89318 89321	0.7×110 .7×146 .7×152 .7×158 0.7×164 .7×170 .7×176 0.7×182 0.7×184 7×194 .7×200	9,89487 89490 89493 89497 9,89500 89503 89507 89510 9,89513 89517 89520	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 0.7×512 0.7×518 .7×551	60 58 56 54 52 50 48 44 42 40
15 16 7 17 18 18 16 16 19 16 19 20	9 886,7 0,77048 88680 1,77055 88683 1,77065 88683 7,77066 9 88690 0,77073 88691 1,77093 88691 1,77093 88701 1,77093 88708 1,77094 88708 1,77104 88 11 1,77110	9 xxx6 xxx6 xxx6 9 xxx6 xx90 xx90 xx90 xx910 xx113 xx16 xx916 xx916 xx916	0.77415 .77412 .77427 .77433 0.77439 .77445 .77451 .77457 0.77163 .77169 .77175	9,89086 89089 89093 89099 89102 89106 ,89110 9,89113 89116 89120 89123	0.77779 .77785 .77791 .77797 0.77803 .77815 .77821 0.77821 0.77821 .77833 .77839	9.89287 89291 89294 89298 9.89301 89304 89308 89311 9.89314 89318 89321 89324	0.7×140 .7×146 .7×152 .7×158 0.7×164 .7×170 .7×176 .7×188 0.7×188 .7×194 .7×200	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510 9,89513 ,89517 ,89520 ,89523	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×512 0.7×518 .7×554 .7×560	58 56 54 53 50 48 46 44 42 40 88
15 16 7 17 18 15 16 19 18	0 886.7 0.77049 88680 .77055 88683 .77065 8683 .77066 9 88690 0.77073 88641 .77073 88601 .77073 88701 0.77075 88701 0.77075 88701 0.77074 88708 .77104 88708 .77104	9 xxx6 xxx6 xxx9 xxx9 yxx96 xx90 xx906 yx916 xx913 xx916 xx920	0.77415 .77412 .77427 .77433 0.77439 .77445 .77451 .77457 0.77169 .77174 .77152	9,89086 89089 89093 89093 89096 9,80099 89102 89110 9,89113 89113 89120 89123	0.77779 .77785 .77791 .77797 0.77803 .77815 .77821 0.77821 0.77823 .77839 .77839 .77845	9.89287 .89291 .89298 9.89301 .89304 .89308 89311 9.89314 .89318 .89324 9.89324	0.7×140 .7×146 .7×152 .7×158 0.7×164 .7×170 .7×176 0.7×189 .7×194 .7×206 0.7×212	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510 9,89513 ,89517 ,89520 ,89523	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×512 0.7×514 .7×551 .7×560 .7×560	60 58 56 54 52 50 48 44 42 40
15 16 7 17 18 18 16 16 19 16 19 20	0 886.7 0.77049 88680 .77055 88683 .77065 88683 .77066 9 88600 0.77073 88641 .77087 9 88701 0.77079 9 88701 0.77099 88708 .77190 88 11 .77110 88 11 .77114 9 88.18 0.77177 88.21 .77144	9 xxx6 xxx6 xxx9 xxx9 yxx96 xx90 xx90 xx90 xx90 xx91 xx91 xx91 xx91	0.77415 .77412 .77427 .77433 0.77439 .77445 .77451 .77457 0.77163 .77169 .77175	9,89086 89089 89093 89099 89102 89106 ,89110 9,89113 89116 89120 89123	0.77779 .77785 .77791 .77797 0.77803 .77815 .77821 0.77821 0.77821 .77833 .77839	9.89287 89291 89294 89298 9.89301 89304 89308 89311 9.89314 89318 89321 89324	0.7×140 .7×146 .7×152 .7×158 0.7×164 .7×170 .7×176 .7×182 0.7×198 .7×200 .7×206 0.7×212 .7×218 .7×218	9,89487 ,89490 ,89493 ,89497 9,89500 ,89503 ,89507 ,89510 9,89513 ,89517 ,89520 ,89523	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×536 .7×512 0.7×514 .7×551 .7×560 .7×560	60 58 56 54 53 50 48 46 44 42 40 88 86
15   16   7   17   18   17   19   18   19   18   19   18   19   20   24   22	9 886,7 0.77048 88680 1.77053 88683 2.7061 88683 2.7064 88683 2.7064 88690 0.77073 88691 1.77078 88701 1.77078 88701 1.77078 88708 1.77107 8811 7.7714 9 881 0.77179 881 0.77179 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114 881 1.77114	9 ×××2 ×××6 ×××6 ×××9 9 ××90 6 ××90 9 ××91 9 ××91 6 ××92 9 ××91 5 ××92 1 ××92 1 ××92 1 ××93 1 ××93	0.77415 .77417 .77427 .77433 0.77437 0.77457 0.77457 0.77163 .77169 .77182 0.77182 0.77183 .77506	9,89086 89089 80093 89096 9,89099 89102 89100 9,89113 89116 89120 89123 4,89126 89133 89133	0.77779 .77785 .77791 .77797 0.77803 .77803 .7781 0.77827 .7783 .7783 .77845 0.77851 .77869	9,89287 89291 89294 89298 9,89301 89304 89318 89311 9,89318 89324 9,80328 89331 89334 89334 89338	0.78140 7.8152 7.8158 0.78164 7.8158 0.78164 7.8170 0.78188 0.78188 7.8206 7.8206 0.78212 7.8212 7.8224 7.8224	9,89487 89490 89493 89497 9,89500 89503 89507 89510 9,80513 89527 89523 9,80527 89530 89530 89536	0.7×500 .7×506 .7×518 .7×518 0.7×524 .7×530 .7×536 .7×519 0.7×5560 .7×566 0.7×572 .7×577 .7×587 .7×587	50 58 56 54 50 48 46 44 42 40 88 36 34 32 50
15 16 7 17 18 15 16 15 19 15 19 15 12 20 24	9 886,7 0,77048 88680 1,77055 88683 1,77065 88683 1,77066 9 88600 0,77073 88.04 1,7703 88.04 1,7703 88.07 1,7703 88.70 1,7703 88.70 1,7703 88.70 1,7704 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144 9 88.70 1,77144	9 xxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	0.77415 .77412 .77438 0.77438 0.77139 .77457 .77457 0.7769 .77169 .77175 0.77182 0.77182 0.77500 0.77500 0.77512	9,89086 89089 89093 89093 89096 9,89092 89106 89113 9,89133 89120 89120 89120 89130 89137 9,89137	0.77779 .77785 .77791 .77797 0.77803 .77815 .77821 0.77821 .77839 .77845 0.77847 .77863 .77863 .77869	9,89287 89291 89294 89298 9,89301 89308 89318 89318 89324 9,89328 89331 89334 89338 9,89318	0.78140 .78146 .78152 .78158 0.78168 0.78168 .78176 .78176 0.78182 0.78188 0.78188 .78200 0.78212 .78218 .78214 .78224 .78224 .78224 .78224 .78224 .78224 .78224 .78224 .78224	9,89487 89490 89493 89497 9,89500 89503 89507 89517 89520 89523 9,80527 89530 89530 89536 9,80533	0.7×500 .7×512 .7×518 0.7×524 .7×536 .7×536 .7×536 .7×551 .7×560 0.7×572 .7×560 0.7×572 .7×583 .7×589 0.7×572	50 58 56 54 50 48 46 44 42 40 88 36 34 32 30 28
15 16 17 18 18 18 19 18 18 19 18 19 18 20 24 22 23	9 886,7 0.77048 88680 1.77053 88681 2.77067 88683 2.77067 88687 2.77067 9 88704 0.77073 9 88704 0.77073 9 88704 0.77079 88708 2.77107 9 88704 0.77107 9 88704 0.77107 9 88704 0.77107 9 88704 0.77107 9 88704 0.77107 88705 2.77157 9 88705 0.77107 9 88705 0.77107 9 88705 0.77107 9 88705 0.77107	9 8883 9 8896 9 8896 8897 8897 8897 8897 8897 9 8893 9 8893 1 8893 1 8893 9 8893 1 8893 1 8893 1 8893	0.77415 .77192 .77192 .77493 0.77493 0.77493 .77457 .77151 .77169 .77169 .77182 0.77188 .77187 0.77506 0.77506 0.77518	9,80086 80089 80093 80096 9,80099 89102 89100 9,89113 89120 89123 9,80123 9,80137 9,80137 9,80130 80133	0.77779 .77785 .77791 .77797 0.77803 .77805 .77815 .77821 0.77823 .77839 .77845 0.77857 .77863 .77869 0.77875 .77863	9,89287 89291 89294 89298 9,89301 89304 89311 9,89314 89324 9,89328 89331 89334 89334 89334 89344 89344	0.78140 .78146 .78152 .78158 0.78164 .78170 .78176 0.78188 .78194 .78206 .78212 0.78212 0.78214 0.78214 0.78214 0.78214 0.78214 0.78214 0.78214 0.78214	9,89487 ,89490 ,89493 ,89497 ,985030 ,89503 ,89517 ,89520 ,89523 ,89527 ,89530 ,80536 ,80536 ,80536 ,80540 ,80540	0.7×500 .7×506 .7×512 .7×513 0.7×524 .7×530 .7×512 0.7×514 .7×554 .7×566 0.7×572 .7×572 .7×572 .7×573 .7×573 .7×573 .7×573 .7×573 .7×573 .7×573 .7×573 .7×573	60 58 56 54 52 50 48 46 44 42 40 38 36 36 37 30 28 26
15   16   7   17   18   17   19   18   19   18   19   18   19   20   24   22	9 886,7 0,77048 88680 1,77055 88683 1,77065 88683 1,77066 9 88600 0,77073 88601 1,77049 88701 1,77049 88701 1,77049 88708 1,77140 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144 9 88718 1,77144	9 8886 8886 9 8890 8890 8890 8890 9 8890 9 8890 9 8890 9 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8890 1 8800 1 8	0.77415 .77192 .77192 .77433 0.77139 .77145 .77151 .77163 .77163 .77163 .77165 0.77185 0.77185 0.77185 .77506 0.77506	9,80086 80089 80093 80093 80096 9,80090 89100 9,80110 9,80110 80120 80120 80130 80137 9,80140 80143	0,77779 ,77785 ,77791 ,77791 ,77807 ,77815 ,77815 ,77815 ,77839 ,77839 ,77839 ,77851 ,77851 ,77869 0,77875 ,77869	9,89287 89294 80298 9,89301 89304 89318 89318 89321 89324 9,89328 89338 89338 9,89341 89341 89341 89341	0.75140 .75146 .75152 .75158 0.75164 .75170 .75170 .75186 .75194 .75200 0.75212 0.75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214 .75214	9,89487 ,89490 ,89493 ,89497 ,9,89500 ,89510 ,89510 ,89517 ,89520 ,89527 ,89530 ,89536 ,89536 ,89543 ,89543 ,89543	0.7×500 .7×512 .7×512 0.7×524 .7×530 .7×536 .7×536 .7×554 .7×554 .7×566 0.7×572 .7×577 .7×577 .7×572 .7×579 .7×595 .7×601 .7×601	60 58 56 54 52 50 48 46 44 42 40 88 36 84 32 28 20 28
15 16 16 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	9 886,7 0,77049 88680 177055 88683 177065 88683 177066 88690 0,77073 88644 177033 88691 177035 88701 177035 88701 177035 88701 177035 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104 88708 177104	9 8886 8886 9 8890 8890 8890 8890 8890 9 890 8893 8893 9 8903 8893 9 8903 9 8903 9 8903 9 8903 9 8903 9 8903	0.77415 .77412 .77412 .77427 .77439 .77445 .77457 0.77163 .77165 .77165 0.77184 .77500 .77500 0.77518 .77502 .77502	9,80086 80089 80093 80093 89102 89106 9,80113 89116 89120 89123 9,8124 89133 89137 9,8143 89143 89143 89143	0,77779 ,77785 ,77791 ,77797 0,77803 ,77803 ,77815 ,77821 0,77827 ,77839 ,77845 0,77857 ,77863 ,77863 ,77863 ,77863 ,77863 ,77881 ,77881 ,77881	9,89287 , 89294 , 89298 , 89304 , 89308 , 89314 , 89318 , 89324 , 89324 , 89328 , 89334 , 89338 , 89334 , 89338 , 89334 , 89348 , 89344 , 89348 , 89344 , 89348 , 89344 , 89348 , 89344 , 89348 , 89344 , 8934	0.78140 .78146 .78152 .78158 0.78164 .78170 .78176 0.78188 .78194 .78200 0.78212 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .78214 .7821	9,89487 ,89490 ,89493 ,89493 ,89503 ,89503 ,89517 ,89510 ,89527 ,89533 ,89533 ,89536 ,89546 ,89546 ,89546	0.7×500 .7×506 .7×512 .7×518 0.7×524 .7×530 .7×542 0.7×548 .7×560 0.7×566 0.7×577 .7×577 .7×577 .7×573 .7×595 0.7×577 .7×601 .7×601	60 58 56 54 52 50 48 46 44 42 40 88 86 84 82 80 80 28
15 16 17 18 18 18 19 18 18 19 18 19 18 20 24 22 23	9 886,7 0,77048 88680 1,77055 88683 1,77065 88683 1,77066 88690 0,77073 88644 1,77033 88690 1,77073 88704 1,77085 88705 1,77085 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144 9 88708 1,77144	9 88893 9 8890 9 8890 8 8900 9 8910 9 8910 9 8910 1 8803 1 880	0.77415 .77412 .77412 .77427 .77439 .77445 .77457 0.77163 .77165 .77165 0.77184 .77500 .77500 0.77518 .77502 .77502	9,80086 80089 80093 80093 80096 9,80090 89100 9,80110 9,80110 80120 80120 80130 80137 9,80140 80143	0,77779 ,77787 ,77791 ,77797 0,77809 ,77809 ,77817 0,77827 ,77837 ,77845 0,77851 ,77869 0,77851 ,77889 0,77889 ,77889	9,89287 89294 80298 9,89301 89304 89318 89318 89321 89324 9,89328 89338 89338 9,89341 89341 89341 89341	0.78140 78146 78152 78158 0.78164 78170 78170 78188 0.78188 78290 0.78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218	9,89487 ,89490 ,89493 ,89497 ,9,89500 ,89510 ,89510 ,89517 ,89520 ,89527 ,89530 ,89536 ,89536 ,89543 ,89543 ,89543	0.7×500 .7×512 .7×512 0.7×524 .7×530 .7×536 .7×536 .7×554 .7×554 .7×566 0.7×572 .7×577 .7×577 .7×572 .7×579 .7×595 .7×601 .7×601	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 36 32 36 32 36 32 36 32 36 32 36 36 36 36 36 36 36 36 36 36 36 36 36
15 16 16 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	9 886,7 0.77048 88680 1.77053 88681 2.77061 88683 2.77061 88683 2.77061 88684 1.77062 9 88704 0.77073 9 88704 0.77073 9 88704 0.77073 9 88704 0.77073 9 88704 0.77089 88708 2.77107 88714 2.77108 88715 2.77108 88715 2.77108 88715 2.77108 88715 2.77108 88715 0.77117 88715 0.77117 88715 0.77117 88715 0.77117 88715 0.77117 88715 0.77117 88715 0.77117	9 \$889, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$990, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890, \$890	0.77415 .77412 .77412 .77423 .77433 0.77439 0.77437 .77457 0.7763 .77169 .77169 .77188 .77506 0.77506 0.77518 .77524 .77524 .77536 0.77536 .77536 .77536 .77536	9,80086 90089 80089 80093 80096 9,80102 9,89133 9,89120 80120 80120 80123 9,89123 9,89123 9,89124 80137 9,89133 9,89133 9,89133 9,89133 8,89137 8,8143 8,8147 8,8143 8,8147 8,8143	0.77779 .77787 .77791 .77797 0.77803 .77809 .77841 0.77821 0.77821 0.7783 0.77851 0.77851 .77869 0.77881 .77881 0.77881 0.77881 .77882 0.77881 .77883 0.77881 .77883	9.89287 89291 89294 80298 9.89301 89304 89308 89311 89324 9.89328 89333 89334 89334 89334 89344 9.8934 89344 89348 89354 89354 89354 89354 89354	0.78140 78146 78152 78158 0.78164 78170 78170 78182 0.78182 0.78184 78200 0.78212 78218 0.78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218 78218	9,89487 89490 89493 89497 9,89500 80503 80503 89517 89517 80520 80530 9,89527 80530 89543 89543 89546 89556 9,89556 89556 89556	0.7×500 .7×506 .7×512 .7×513 0.7×524 .7×530 .7×516 0.7×518 .7×516 0.7×518 .7×560 0.7×577 .7×577 .7×577 .7×577 .7×607 .7×607 .7×619 0.7×619 .7×619 .7×619	60 58 56 54 52 52 50 48 46 44 42 40 88 36 36 28 26 21 21 21 21 21 21 21 21 21 21 21 21 21
15 16 7 17 18 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	9 886,7 0,77048 88680 177055 88683 177067 88683 177067 9 88600 0,77073 88601 177038 88601 177038 88601 177039 9 88701 177039 88708 177039 88708 177144 88.11 177144 9 88.12 0,77147 9 88.13 177149 9 88.14 0,77147 9 88.14 0,77147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147 18 88.15 177147	9 \$580, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 5890, 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8143 8143	0.77779 .77787 .77791 .77797 0.77803 .77803 .77801 .77821 0.77827 .77839 .77839 0.77857 .77869 0.7787 .77869 0.77893 0.77893 0.77893 0.77893 0.77893 0.77893	9,89287 89291 89294 80298 9,80301 89308 89318 89324 9,80328 89334 89333 9,80341 89334 89338 89334 89338 89341 89343 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 89358 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8935 8935 8935	0.78140 7.8146 7.8152 7.8158 0.78164 7.8176 0.78188 0.78188 0.78188 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 0.78216 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9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,89530 9,8953	0.75500 .75506 .75518 0.75518 0.75524 .75530 .7556 0.7556 0.7556 0.7556 0.7557 .7557 .7557 .7557 .7569 0.7572 .7569 0.7572 .7569 0.7572 .7569 0.7572 .7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 0.7569 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	8h 20m	125° 0′	Sh gym	125° 30′	Sh 24m	126° 0′	8h 26m	126° 30′	8h 28m	127° 0′	1
s '	Log. Hav	Nat. Hav	Log. Hav.	Nat. Hav	Log, Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	Log. Hav.	Nat, if av	S
0 0	9.89586	0.78679	9.89782	0.79035	9.89976	0.79389	9.90168	0.79741	9.90358	0.80091	60
2 4+ 1	.89589 .89592	.78685 .78691	.89785 .89789	.79041 .79047	.89979 .89983	.79395	.90171	.79747	.90361	.50097	58
6	.89596	.75097	.89792	.79053	.89986	.79401	.90175	.79753	.90365	.80102	56 54
8+ 2	9.89599	0.78703	9.89795	0.79059	9.89989	0.79413	9,90181	0.79765	9.90371		57
10	.89602	.78709	.89798	.79965	,89992	.79419	.90184	.79770	.90374	.80120	50
12+ 3 14	.89606 .89609	.78715	.89802 .89805	.79071	.89995 .89999	.79425	.90187 .90191	.79773	.90377 .90380	.30126	48
16+4	9.89612	0.78726	9.89808	0.79082	9.90002	0.79136	9.90191	0.79758	9.90383		44
18	.89615	.78732	.89811	.79088	.90005	.79442	.90197	.79794	.90387	.80143	43
20+ <b>5</b>	.89619 .89622	.78739	.89815 .89818	.79094	.90008	.79448	.90200	.78800	.90390	.80149 .80155	40 38
24+ 6	9.89625	0.78750	9.89821	0.79106	9.90015	0.79160	9.90206	0.79311	9.90396	0.80160	36
26	.89628	.78756	.89824	.79112	.90018	.79166	.90210	.79817	.90399	.80166	34
28+ 7 30	.89632 .89635	.78762	.89828	.79118	.90021	.79471	.90213	.79823	.90402	.80172	33
32+8	9.89638	.78768 0.78774	.89831 9.89834	.79124 0.79130	.90024 9.90028	.79477 0.79483	.90216 9.90219	0.79835	.90405 9.90409	.80175 0.80184	30 38
34	.89642	.78780	.89837	.79136	.96031	.79489	.90222	.79340	.90412	.80189	26
36+ 9	.89645	.78786	.89840	.79142	.90034	.79495	.99225	.70846	.90415	.80195	~4
38 40+ <b>10</b>	.89648	.78799 0.78798	.\$9844 9.\$9847	.79148 0.79153	.90037 9.90040	.79501 0.79507	.90229 9.90232	79852 0.79858	90418 9.90421	80201 80207	20
42	.89655	.78804	.89850	.79153	.90044	.79513	.90235	.79864	.90425	.80213	18
44+11	.89658	.78810	.89853	.79165	.90047	.79519	.90238	.79870	.90428	.80218	16
46 48+ <b>12</b>	0.89661 $0.89665$	0.78816 0.78822	.89857 9.89860	.79171 0.79177	.90050 9.90053	.79524 0.79530	0.90241 $0.90244$	.79875 0.79881	.90431 9,90434	.80224 0.80230	14 12
50	.89668	.78828	.89863	.79183	.90056	.79536	.90248	.79857	.90437	.80236	10
52+ <b>13</b>	.89671	.78834	.89866	.79189	.90060	.79542	.90251	.79899	.90440	.80213	8
54	.89674	.78839	.89870	.79195	.90063	.79548	.90254	.79893	.90443	.80047	6
56+ <b>14</b> 58	9.89678 9.89681	0.78845 0.78851	9.89873 9.89876	0.79201 0.79207	9.90066	0.79554 0.79560	9.90257 9.90260	0.79905 0.79910	9.90446 .9.90449	0.80253 0.80259	4 2
			l				j	-			_
		39m	<del>'</del>	137m	15h		<u> </u>	ззт	<u> </u>	31m	
e ′	Sh 21m	125° 0′	Sh 23m	125° 30′	8h 25m	126° 0′	8h 27m	126° 30′	Sh 29m	127° 0′	9
0+15	9.89684	0.78857	9.89879	0.79212	.9.90072	0.79565	9.90264	0.79916	9.90452	0.80265	60
2 4+16	.89687 .89691	.78863 .78869	.89883 .89886	.79218	.90076 .90079	.79571 .79577	.90267	.79922 .79928	.90456 .90459	.80270 .80276	58 56
6	.89694	.78875	.59889	.79230	.90082	.79583	.90273	.79934	.90462	.80282	54
8+17	9.89697	0.78881		0.79236	9.90085	0.79589	9.90276	0.79940	9.90465	0.80288	52
10	.89701 .89704	.78887	.89896	.79242 .79248	.90088 .90092	.79595 .79601	.90279 .90282	.79945 .79951	.90468	.80294 .80299	50 48
12+ <b>18</b> 14	.89707	.78899	.89902	.79254	.90095	.79607	.90286	.79957	.90475	.80305	46
16+ <b>19</b>	9.89710	0.78905	9.89905	0.79260	9.90098	0.79612	9.90289	0.79963	9.90478	0.80311	44
18	.89714	.78911	.89908 .89912	.79266 .79271	.90101 .90104	.79618 .79624	.90292	.79969	.90481	.80317 .80323	42 40
20 <b>+20</b> 22	.89717 .89720	.78917 .78923	.89915	.79277	.90108	.79630	.90298	.79980	.90487	.80328	38
24+21	9.89723	0.78928	-	0.73283	9.90111	0.79636	9.90301	0.79986	9.90490	0.80334	36
26	.89727	.78934	.89921	.79289	.90114	.79612	.90305	.79992	.90493	.80340	34
28+22 30	.89730 .89733	.78940 .78946	.89925 .89928	.79295 .79301	.90117	.79618 .79653	.90308 .90311	.79998 .80001	.90496 .90499	.80346 .80351	33 50
32+23	9.89736	0.78952		0.79307	9.90124	0.79659	9.90314	0.50909	9.90503	0.80357	28
84	.89740	.78958	.89934	.79313	.90127	.79665	.90317	.80015	.90506	.80363	26
36 <b>+24</b> 38	.89743	.78964	.89938 .89941	.79319 .79325	.90130 .90133	.79671 .79677	.90320 .90324	.80021 .80027	.90509 .90512	.80369 .80375	3
40+15	9.89749	0.78976	9.89944	0.79330	9.90136		0.90327	0.80033			20
42	.89753	.78982	.89947	.79336	.90140	.79688	.90330	.80038	.90518	.50386	18
44+26	.89756	.78988	.89950	.79342	.90143	.79694	.90333	.30044 .80050	.90521 .90524	.80393	16 14
46 48 <b>+27</b>	,89759 9.89763	.78991 0.79000	.89954 .9.89957	0.79354	0.90146 $0.90149$	.79700 0.79706	9,90339	0.80056	9.90527	0.80403	$\frac{I_{q}}{I_{c}^{2}}$
50	.89766	.79006	.89960	.79366	.90152	.79712	.90342	.80062	.90531	.80409	10
52+ <b>28</b>	.89769	.79011 .79017	.89963	.79366	.90356	.79718	.90346 .90349	.80069	.90534 .90537	.80415 .80421	8 6
			.89966	.79372	.90159	.79721	Chemis.	*400049		*1904.41	
54	.89772				6.00169	0.79799	9 Girt5 5	0.30029	9 90540	0.80427	
56+29	9.89776	0.79023	9.89970 .89973	0.79317	9.90162 .90165	0.79729 .79735	9,60052 -0075	0.80079 .80085	9,90540	0.80427 .80132	4 2
			9.89970 ,89973	0.79377	.90165		9,50352 .4 07.5 9,90358				0

TABLE 45.

			1								•
	34 30m	127 30'	55.	128° 0′	8h 34m	125° 30′	8h 36m	129° 0′	8h 38m	129° 30′	1
1	1 (11.3	513 11	lar Hav	Nat. Hay	Log. Hav.	Nat. Has	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav.	s
0	0.546		0.90732	0.50733	9.90916	0.51126	9.91098	0.81466	9.91277	0.81804	60
	19549	.50141	.90735	.50759	.90919	.51131	.91101	.81172	.91280	.81810	58
-, ÷ 1	10552	,50150	90738	.50795	.90922	.81137	.91104 .91107	.81477 .81483	91283	.81815	56
1 '	#1°c'ds	.50155	,907.11	.80500	.90925	.51113				more a	54
. :	0.554		9 907 14	0.50506	9,90928 .90931	0.51118	9.91110	0.81489 .81491	9.91289 .91292	0.81526 .51832	52 50
1	90565	.50167 .50173	.90747 .90751	.50512	90934	.51154	.91116	.81500	.91295	,81838	48
1 3	90565	.50175	90751	,50523	90937	.51165	.91119	.81506	.91298	.81843	46
10 = 1	250.71	0.50151	9,90757	0.50529	9.90910	0.51171	9,91122	0.81511	9.91301	0.81819	44
1	0571	.50190	.90760	,50835	.90943	.81177	.91125	.81517	.91304	.81854	42
5	90577	.50196	90763	.50510	.90946	.81183	.91128	.81523	.91307	.81860	40
	50550	.80502	.90766	.50546	.90949	.51188	.91131	.81528	.91310	.81866	38
- 6	9,90581	0.50597	9.90769	0 50552	9.90952	0.51191	9.91134	0.81534	9.91313	0.81871	36
	.90587	.80513	90772	.40454	.90955	.51200	.91137	.81539	.91316	.81877	34
~- 7	,90590	.80519	.90775	.50563	.90958	.81205	.91140	.81545	.91319	.81882	33
80	,96593	.80525	.90778	.50569	.90962	.81211	.91143	.51551	.91322	.51555	30
d 8	9 90596	0.50530	9,90781	0 50575	9,90965	0.81217 .81222	9.91146	0 81556	9,91325 .91328	0.81894	28 26
∂) 369	.90599 90602	.80536	.90781	.50550	.9096S .90971	.81228	.91152	.81562 .81568	.91331	.81905	24
36 3	90605	.50545	.90790	.40492	,90971	.81234	.91155	.81573	.91331	.81910	22
10	1 2011/18	0.50553	9.90794	0 50595	9.90977	0.81239	9.91158	0.81579	9.91337	0.81916	20
10	90611	*0559	.90797	.50903	90980	.81245	.91161	.81585	.91340	.81922	18
4. 11	.90615	\$0565	.90800	.80909	.90983	.81251	.91164	.81590	.91343	.81927	16
40	,906[8	,50571	90803	.50915	.90986	.81256	.91167	.81596	.91346	.81933	14
., 12	9.90621	0.80576	9,90806	0.50920	9.90989	0.81262	9.91170	0.81601	9.91349	0.81938	12
100	90623	.80582	.90809	.80926	.90992	.81268	.91173	.81607	.91352	.81944	10
n13	.90627	. 50.555	.90812	.80932	.90995	.51273	.91176	.81613	91355	.81950	8
0.00	90630	.80594	.90815	.50938	90998	.51279	.91179	.81618	91358	.81955	- 6
$\Delta t = 11$	9-90633	0.80599	9.90818	0.80943	9.91001	0.81285	9.91182	0.81621	9.91361	0.81961	4
35	9,90636	0.80605	9.90821	0 50919	9,91004	0 51291	9.91185	0.81630	9.91364	0.81966	2
	106	29m	e:h	27m	1 5 h	25™	154	2.3m	15h	21m	
	7.5"	2:4111	1.10	27 114	1.,,		7.5"		100	" I	
									_		-
	shjm	127° 30'	sh ggm	128° 0′	Sh 35m	128° 30′	Sh S7m	129° 0′	Sh 39m	129° 30′	
8		127 3 30'		128° 0′		128° 30′					8
s v+15	9 90639	0.80611	9,90824	0.80955	9.91007	0.81296	9.91188	0.81635	9.91367	0.81972	60
<i>0</i> +15	9 90639 90642	0.80611 .80617	9,90824 90827	0.50955	9.91007	0.81296 .81302	9.91188 .91191	0.81635 .81641	9.91367 .91369	0.81972 .81978	60 58
0+15 2 3+16	9 90639 90642 90646	0.80611 .80617 .80622	9,90824 90827 ,90830	0.80955 .80960 .80966	9,91007 ,91010 ,91013	0.81296 .81302 .81308	9.91188 .91191 .91194	0.81635 .81641 .81647	9.91367 .91369 .91372	0.81972 .81978 .81983	60 58 56
0+15 2 3+16 6	9 90639 90642 90646 90646	0.80611 .80617 .80622 .80628	9,90824 90827 ,90830 90833	0.80955 .80960 .80966 .80972	9,91007 ,91010 ,91013 ,91016	0.81296 .81302 .81308 .81313	9.91188 .91191 .91194 .91197	0.81635 .81641 .81647 .81652	9.91367 .91369 .91372 .91375	0.81972 .81978 .81983 .81989	60 58 56 54
$ \begin{array}{c c}  & 0+15 \\  & 3+16 \\  & 8+17 \end{array} $	9 90639 90642 90646 90646 9 90652	0.80611 .80617 .80622 .80628 0.80634	9,90824 90827 ,90830 90833 9,908.56	0.50955 .50960 .50966 .50972	9,91007 ,91010 ,91013 ,91016 9,91019	0.81296 .81302 .81308 .81313 0.81319	9.91188 .91191 .91194 .91197 9.91200	0.81635 .81641 .81647 .81652 0.81658	9.91367 .91369 .91372 .91375 9.91378	0.81972 .81978 .81983 .81989 0.81994	60 58 56 54 5₹
$ \begin{array}{c} 0+15 \\ 2 \\ 3+16 \\ 6 \\ \hline 8+17 \\ 10 \end{array} $	9 90639 90642 90646 90646 9 90652 90655	0.80611 .80617 .80622 .80628 0.80634 .80610	9,90824 90827 ,90830 90833 9,90836 ,90840	0.80955 .80960 .80966 .80972 0.80978 .80983	9.91007 .91010 .91013 .91016 9.91019 .91022	0.81296 .81302 .81308 .81313 0.81319 .81325	9.91188 .91191 .91194 .91197 9.91200 .91203	0.81635 .81641 .81647 .81652 0.81658 .81663	9.91367 .91369 .91372 .91375 9.91378 .91381	0.81972 .81978 .81983 .81989 0.81994 .82000	60 58 56 54 53 50
$ \begin{array}{c} 0+15 \\ 2 \\ 3+16 \\ 6 \\ \hline 8+17 \\ 10 \\ 1/+15 \end{array} $	9 90639 90642 90646 90646 9 90652	0.80611 .80617 .80622 .80628 0.80634	9,90824 90827 ,90830 90833 9,908.56	0.50955 .50960 .50966 .50972	9,91007 ,91010 ,91013 ,91016 9,91019	0.81296 .81302 .81308 .81313 0.81319	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206	0.81635 .81641 .81647 .81652 0.81658	9.91367 .91369 .91372 .91375 9.91378	0.81972 .81978 .81983 .81989 0.81994	60 58 56 54 5₹
$ \begin{array}{c} 0+15 \\ 2 \\ 3+16 \\ 6 \\ \hline 8+17 \\ 10 \end{array} $	9 90639 90642 90646 90646 9 90652 90655 90668 9 90664	0.80611 .80617 .80622 .80628 0.80634 .80640 .80645 .80651	9,90824 90827 90830 90833 9,90836 90840 90846 9,90849	0.80955 .80960 .80966 .80972 0.80978 .80983 .80989	9.91007 .91010 .91013 .91016 .91019 .91022 .91025	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81336	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206 .91209 9.91212	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669	9.91367 .91369 .91372 .91375 9.91378 .91381 .91384 .91387 9.91390	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017	58 56 54 52 50 48 46 44
0+15 2 3+16 6 8+17 10 11+18 11 16+19 18	9 90639 90642 90646 90646 9 90652 90655 90658 90661 9 90661	0.80611 .80617 .80622 .80628 0.80634 .80640 .80645 0.80657 .80663	9,90824 90827 ,90830 9,90836 ,90840 ,90840 ,90852	0.50955 .50960 .50966 .50972 0.50973 .50953 .50950 0.51000 .51006	9.91007 .91010 .91013 .91019 9.91019 .91022 .91025 .91028 9.91031	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81336 0.81342 .81347	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206 .91209 9.91212 .91215	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81675 0.81680	9.91367 .91369 .91372 .91373 9.91378 .91381 .91381 .91387 9.91390	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022	56 56 54 55 50 48 46 44 42
0+15 3+16 6 8+17 10 17+15 13 16+19	9 90639 90642 90646 90646 9 90652 90655 90661 9 90661 90667	0.80611 .80617 .80622 .80628 0.80614 .80610 .80615 .80657 .80663 .80668	9,90824 90827 ,90830 90833 9,90836 ,90840 ,90849 ,90852 ,90852	0.50955 .50960 .50966 .50972 0.50973 .50983 .50995 0.51000 .51006	9.91007 .91010 .91013 .91019 .91019 .91022 .91025 .91028 .91031 .91031	0.81296 .81302 .81308 .81313 0.81319 .81325 .81336 0.81342 .81347 .81353	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206 .91209 9.91212 .91215 .91218	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81675 0.81680 .81686	9.91367 .91369 .91372 .91373 9.91378 .91381 .91381 .91384 .91390 .91393	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028	50 58 56 54 52 50 48 46 44 42 40
0+15 3+16 6 8+17 10 17+18 13 16+19 18 2 - 20	9 90639 90642 90646 90646 9 90652 90655 90661 9 90661 90667 90673	0.80611 .80617 .80622 .80628 0.80614 .80610 .80657 .80663 .80663 .80668 .80664	9,90824 90827 90830 90833 9,90840 ,90849 9,90849 ,90852 ,90852 90855	0.50955 .50960 .50966 .50972 0.50975 .50983 .50995 0.51000 .51006 .51012	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91025 .91031 .91037 .91037	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81342 .81347 .81353 .81359	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206 .91209 9.91212 .91215 .91218 .91221	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81670 .81686 .81692 .81697	9.91367 .91369 .91372 .91375 .91375 .91381 .91381 .91383 .91390 .91390 .91393 .91396	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028	60 58 56 54 52 50 48 46 44 42 40 88
0+15 2 3+16 6 8+17 10 11+18 11 16+19 18	9 90639 90642 90646 90646 9 90652 90658 90661 9 90661 90667 90673	0.80611 .80617 .80622 .80628 0.80614 .80610 .80657 .80663 .80663 .80664 0.80680	9,90824 90827 ,90830 90833 9,90840 ,90840 ,90846 9,90849 ,90855 90858 9,90866	0.80955 .80960 .80966 .80972 0.80978 .80989 .80995 0.81000 .81012 .81017	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91025 .91034 .91034 .91037 .91010 .91010	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81336 0.81342 .81317 .81353 81359 0.81361	9.91188 .91191 .91194 .91197 9.91200 .91203 .91206 .91209 9.91212 .91215 .91218 .91221	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81675 0.81680 .81692 .81697 0.81703	9.91367 .91369 .91372 .91375 .91378 .91381 .91384 .91390 .91390 .91390 .91399 .91399	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028 .82033 0.82039	50 58 56 54 52 50 48 46 44 42 40 88
0+15 2 3+16 6 8+17 10 11+18 11 16+19 18 2 + 20	9 90639 90642 90646 90646 9 90652 90655 90661 9 90661 90667 90673 9 90676	0.80611 .80617 .80628 .80628 0.80614 .80610 .80657 .80663 .80663 .80674 0.80680 .80686	9,90824 90827 90830 90833 9,90846 ,90840 9,90849 ,90852 ,90852 ,90858 9,90864 9,90858	0.80955 .80960 .80966 .80972 0.80978 .80989 .80995 0.81000 .81006 .81017 0.81017	9.91007 .91010 .91013 .91016 .91019 .91025 .91025 .91031 .91031 .91037 .91040 .91040	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81336 0.81342 .81347 .81359 8.81369	9.91188 .91191 .91194 .91197 9.91200 .91203 .91209 9.91212 .91215 .91218 9.91221 9.91221 .91221	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81675 0.81680 .81692 .81697 0.81703	9.91367 .91369 .91372 .91375 .91378 .91381 .91381 .91387 9.91390 .91393 .91399 .91399 .91405	0.81972 .81978 .81983 .81989 0.81994 .82005 .82017 .82022 .82023 .82033 0.82039 .82015	50 58 56 54 52 50 48 46 44 42 40 88 36 34
0+15 3+16 6 8+17 10 17+18 13 16+19 18 2 - 20	9 90639 90642 90646 90646 9 90652 90655 90665 9 90667 9 90673 9 90670 90680 90680	0.89611 .80617 .80622 .80628 0.80616 .80615 .80651 0.80657 .80668 .80684 .80686 .80686 .80686	9,90824 90827 ,90830 90833 9,90836 ,90840 ,90849 ,90852 ,90852 ,90855 9,90861 9,90861 9,90861	0.80955 .80960 .80966 .80972 0.80973 .80983 .80995 0.81000 .81006 .81012 .81017 0.81023 .81029 .81035	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91025 .91037 .91037 .91040 .91040 .91040 .91040 .91040	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81347 .81353 .81359 0.81361 .81369 0.81361 .81369	9.91188 .91191 .91194 .91197 9.91203 .91206 .91209 9.91212 .91215 .91221 9.91221 .91221 .91221 .91221	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81675 0.81680 .81692 .81697 0.81703 .81708	9.91367 .91369 .91372 .91375 9.91378 .91384 .91387 9.91390 .91393 .91396 .91399 9.91402 .91405 91408	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028 .82033 0.82039 .82045 .82030	50 58 56 54 52 50 48 46 44 42 40 88 88 86 84 82
0+15 2+16 6 8+17 10 17+18 13 16+19 18 20 21 -22	9 90639 90642 90646 90646 9 90652 90655 90661 9 90661 90667 90673 9 90676	0.80611 .80617 .80622 .80628 0.806614 .80610 .80657 .80653 .80663 .80664 .80686 .80686 .80686 .80686 .80686	9,90824 90827 ,90830 90833 9,00836 ,90840 ,90840 ,90855 90855 90856 9,90861 90861 90867	0.80955 .80960 .80966 .80972 0.80978 .80983 .80995 0.81000 .81002 .81012 .81017 0.81023 .81039 .81035 .81040	9,91007 ,91010 ,91013 ,91016 ,91019 ,91025 ,91025 ,91031 ,91031 ,91037 ,91037 ,91046 ,91049 ,91049 ,910452	0.81296 .81302 .81308 .81313 0.81319 .81336 .81336 0.81342 .81347 .81353 .81359 0.81364 .81370 .81370	9.91188 .91191 .91194 .91197 9.91200 .91206 .91209 9.91212 .91218 .91221 9.91221 .91227 .91230 .91230	0.81635 .81641 .81647 .81652 0.81658 .81663 .81675 0.81680 .81692 .81697 0.81703 .81708 .81708	9.91367 .91369 .91372 .91375 9.91378 .91381 .91384 .91387 9.91390 .91393 9.91402 .91405 .91405 .91411	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82028 .82033 0.82039 .82015 .82050	60 58 56 54 52 50 48 46 44 40 88 86 84 82 80
0+15 2 3+16 6 8+17 10 11+18 11 16+19 18 2 + 20	9 90639 90642 90646 90646 9 90652 9 90653 9 90661 9 90667 9 90676 9 90680 9 90680	0.89611 .80617 .80622 .80628 0.80616 .80615 .80651 0.80657 .80668 .80684 .80686 .80686 .80686	9,90824 90827 ,90830 90833 9,90836 9,90849 ,90849 ,90855 90858 9,90861 90861 90867	0.80955 .80960 .80966 .80972 0.80978 .80983 .80989 .80995 0.81006 .81012 .81017 .81017 .81029 .81035 .81040 .81040	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91025 .91037 .91037 .91040 .91040 .91040 .91040 .91040	0.81296 .81302 .81308 .81313 0.81313 0.81312 .81325 .81336 .81347 .81353 .81359 0.81342 .81347 .81353 .81350	9.91188 .91191 .91194 .91197 9.91203 .91206 .91209 9.91212 .91215 .91221 9.91221 .91221 .91221 .91221	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81696 .81697 0.81703 .81708 .81708 .81708	9.91367 .91369 .91372 .91375 9.91378 .91384 .91387 9.91390 .91393 .91396 .91399 9.91402 .91405 91408	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028 .82033 0.82039 .82045 .82030	50 58 56 54 52 50 48 46 44 42 40 88 88 86 84 82
0+15 2+16 6 8+17 10 17+18 13 16+19 18 20 21 -22	9 90639 90642 90646 9 90655 9 90655 9 90657 9 90676 9 90676 9 90676 9 90680 9 90680 9 90680 9 90680 9 90680	0.80611 .80617 .80622 .80628 0.80634 .80610 .80615 .80651 0.80668 .80674 0.80680 .80680 .80680 .80691 .80697	9,90824 90827 90830 90833 9,90836 90813 90816 90852 90852 90858 90861 90867 90867 90870 90870	0.80955 .80960 .80966 .80972 0.80978 .80983 .80995 0.81000 .81002 .81012 .81017 0.81023 .81039 .81035 .81040	9.91007 .91010 .91013 .91016 .9.91019 .91022 .91025 .91034 .91034 .91037 .91016 .91019 .91015 .91052 .91052	0.81296 .81302 .81308 .81313 0.81319 .81336 .81336 0.81342 .81347 .81353 .81359 0.81364 .81370 .81370	9,91188 ,91191 ,91194 ,91197 ,91200 ,91203 ,91206 ,91215 ,91215 ,91218 ,91221 ,91227 ,91230 ,91230 ,91233 ,91233	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81686 .81692 .81697 0.81703 .81708 .81711 .81720 0.81725 .81721	9.91367 .91369 .91372 .91375 .91375 .91381 .91381 .91383 .91390 .91393 .91396 .91405 .91405 .91405 .91411 .91411	0.81972 .81978 .81983 .81989 0.81994 .82005 .82017 .82022 .82028 .82033 0.82037 .82045 .82050 .82056 0.82061	60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28
$\begin{array}{c} \theta + 15 \\ \frac{2}{3} + 16 \\ 6 \\ 8 + 17 \\ 10 \\ 1/+ 18 \\ 1/ \\ 1/+ 18 \\ 2 \\ 2 \\ 21 \\ -22 \\ 23 \\ \end{array}$	9 90639 90642 90646 9 90652 9 90652 9 90651 9 90667 9 90667 9 90650 9 90680 9 90680 9 90680 9 90680	0.80611 .80617 .80622 .80628 0.80610 .80615 .80657 .80653 .80668 .80674 0.80690 .80691 .80697 0.8079 0.80799 .80719	9,90824 90827 90830 90833 9,90836 9,90840 9,90849 9,90849 9,90858 9,90861 90867 90867 90870 90873	0.80955 .80960 .80966 .80978 .80978 .80983 .80995 0.81000 .81002 .81017 0.81023 .81029 .81036 .81016 .81016 .81016	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91031 .91031 .91037 .91010 .91013 .91046 .91049 .91052 .91052 .91053	0.81296 .81302 .81308 .81308 .81313 0.81319 .81325 .81320 .81342 .81317 .81353 .81359 0.81364 .81376 .81376 .81387 .81389	9.91188 .91191 .91194 .91197 .91203 .91203 .91206 .91212 .91215 .91221 .91221 .91221 .91221 .91233 .91233 .91236 .91236	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81696 .81697 0.81703 .81708 .81708 .81708	9.91367 91369 91372 91375 9.91378 9.91381 91381 91387 9.91390 9.91390 9.91405 91405 91401 9.91411 9.91414	0.81972 .81978 .81983 .81989 0.81906 .82006 .82017 .82022 .82028 .82033 0.82013 .82050 .82050 .82050 .82050 .82050	60 58 56 54 52 50 48 46 43 42 40 88 86 84 82 80 28 26
$\begin{array}{c} \theta + 15 \\ \frac{2}{3} + 16 \\ 6 \\ 8 + 17 \\ 10 \\ 1/+ 18 \\ 1/ \\ 1/+ 18 \\ 2 \\ 2 \\ 21 \\ -22 \\ 23 \\ \end{array}$	9 90639 90642 90646 9 90652 90655 90655 90657 9 90667 9 90676 9 90676 9 90686 9 90686 9 90686 9 90686 9 90686 9 90686 9 90686 9 90686 9 90686	0.80611 .80617 .80622 .80628 0.80636 0.80636 .80651 0.80653 .80668 .80668 .80697 0.80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .80703 .807	9,90824 90827 90830 90833 9,90836 90840 9,90849 9,90849 9,90849 9,90855 90856 9,90861 90867 90870 90870 90870 90870 90870	0.80955 .80960 .80966 .80972 0.80978 .80983 .80989 .81000 .81000 .81012 .81017 0.81023 .81029 .81035 .81040 0.81046 .81052 .81057	9,91007 ,91010 ,91013 ,91016 ,91019 ,91022 ,91025 ,91028 ,91037 ,91037 ,91046 ,91049 ,91052 ,91055 ,91061 ,91061 ,91061 ,91061 ,91061 ,91061	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 0.81342 .81347 .81347 .81349 0.81364 .81370 .81370 .81381 0.81387	9,91188 ,91191 ,91194 ,91197 ,91203 ,91206 ,91209 ,91215 ,91215 ,91218 ,91221 ,91227 ,91230 ,91233 ,91233	0.81635 .81641 .81647 .81652 0.81658 .81663 .81669 .81676 0.81680 .81697 0.81703 .81708 .81711 .81720 0.81725 .81731	9.91367 .91369 .91372 .91375 .91378 .91381 .91384 .91387 .91399 .91399 .91405 .91405 .91405 .91411 .91117 .91117 .91117 .91117 .91120 .91123	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82028 .82033 0.82039 .82056 0.82061 .82056 0.82061 .82056 0.82056 .82056 0.82056 0.82056 0.82056 0.82056	60 58 56 54 52 50 48 44 40 88 86 84 82 80 28 24 22 20
0+15 2 3+16 6 8+17 10 17+18 17 18+19 18 21 21 22 23 4 24 25	9 90639 90642 90646 9 90656 9 90652 9 90651 9 90661 9 90673 9 90673 9 90676 9 90680 9 90680	0.80611 80617 80622 90628 0.80615 80615 9.80651 0.80651 0.80656 80674 0.80690 80691 80690 80709 80711 80729 80711 80720 80731	9,90824 90827 90830 90833 9,90836 9,90849 9,00849 90852 90855 90858 9,90861 90867 90873 90873 90873	0.80955 .80960 .80966 .80978 .80983 .80989 .80995 0.81000 .81012 .81017 0.81029 .81035 .81040 0.81046 .81057 .81063 .81063 .81064 .81057 .81063 .81064 .81057 .81063	9.91007 .91010 .91013 .91016 .91019 .91022 .91025 .91028 .91031 .91031 .91046 .91019 .91015 .91055 .91061 .91061 .91061 .91067	0.81296 .81302 .81308 .81313 0.81319 .81325 .81330 .81336 0.81342 .81347 .81353 .81359 .81364 .81370 .81370 .81387 .81392 .81393 .81101 0.81481 .81410 .81410	9,91188 ,91191 ,91194 ,91197 ,91197 ,91200 ,91203 ,91206 ,91215 ,91215 ,91215 ,91221 ,91227 ,91230 ,91233 ,91236 ,91239 ,91245 ,91245 ,91245	0.81635 .81641 .81647 .81652 0.81658 .81663 .81675 0.81680 .81692 .81697 0.81703 .81708 .81711 .81720 0.81725 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731 .81731	9.91367 .91369 .91372 .91375 .91378 .91381 .91384 .91383 .91390 .91390 .91390 .91405 .91405 .91405 .91414 .91117 .91120 .91123 .91126 .91126 .91126	0.81972 .81978 .81983 .81989 0.81994 .82000 .82005 .82011 0.82017 .82022 .82033 0.82039 .82045 .82050 0.82061 .82067 .82072 .82078 .82078 .82078 .82078 .82078	60 58 56 54 52 50 48 46 43 42 40 88 86 84 82 80 28 20 18
0+15 2 3+16 6 8+17 10 17+18 17 18+19 18 2 - 20 21 22 23 24 25	9 90639 90642 90646 90646 9 90652 90655 90667 9 90667 9 90676 9 90680 9 90680 9 90680 9 90680 9 90680 9 90680 9 90680	0.80611 .80617 .80627 .80628 0.80604 .80610 .80651 .80657 .80668 .80680 .80680 .80680 .80697 0.80709 .80710 .80709 .80711 .80720 .80720 .80720 .80720 .80720 .80720 .80720 .80721 .80721 .80721 .80721 .80721 .80721 .80721	9,90824 90827 90830 90833 9,90836 90840 90852 90858 9,90849 90852 90858 9,90861 90850 90850 90850 90850 90850 90850 90850 90850	0.80955 .80960 .80967 0.80978 0.80978 0.80978 0.80983 .80995 0.81006 .81012 .81017 0.81023 .81029 .81035 .81040 0.81046 .81057 .81057 .81068 .81071 .81080	9.91007 .91010 .91013 .91016 .91019 .91025 .91025 .91034 .91034 .91034 .91046 .91019 .91052 .91053 .91064 .91064 .91064 .91067 .91064 .91067 .91067	0.81296 .81302 .81308 .81313 0.81319 .81325 .81336 .81347 .81353 .81347 .81370 .81346 .81347 .81370 .81370 .81370 .81370 .81370 .81370 .81370 .81393 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401 .81401	9,91188 ,91191 ,91194 ,91197 ,91200 ,91203 ,91206 ,91215 ,91215 ,91221 ,91221 ,91221 ,91233 ,91233 ,91236 ,91239 ,91236 ,91238 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,91236 ,	0.81635 .81641 .81647 .81652 0.81658 .81663 .81692 .81692 .81692 .81692 .81703 .81703 .81703 .81713 .81713 .81731 .81737 .81737 .81731 .81753 .81753	9.91367 .91369 .91372 .91375 .91378 .91381 .91383 .91387 .9.91390 .91405 .91405 .91405 .91411 .91117 .91120 .91423 .91429 .91429 .91429	0.81972 .81978 .81983 .81989 0.81994 .82000 .82007 .82022 .82023 .82039 .82015 .82056 0.82067 .82056 0.82067 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .82072 .8207	60 58 56 54 52 50 48 46 44 40 88 86 84 82 80 28 20 18 16
0+15 2 3+16 6 8+17 10 17+18 17 18+19 18 21 21 22 23 23 24 25 11 26	9 90639 90642 90646 90646 9 90652 90652 90661 9 90661 9 90676 90680 9 90680 9 90680 9 90680 9 90684 9 90684 9 90684 9 90684 9 90684	0.80611 .50617 .50622 .50628 0.50624 0.50645 .50640 0.50651 0.50650 .50674 0.50650 .50691 .50697 0.50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703 .50703	9,90824 90827 90830 90833 9,90836 90813 90816 90812 90852 90858 9,90859 90858 9,90861 90867 90873 40876 90873 40884 40888 408884 40888	0.80955 .80960 .80966 .80972 0.80978 .80983 .80989 .81006 .81012 .81017 0.81016 .81052 .81057 .81063 .81052 .81056 .81052 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 .81056 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.81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81717 .81	9,91367 9,91372 9,91373 9,91378 9,91378 9,91383 9,91393 9,91393 9,91402 9,91402 9,91402 9,91403 9,91102 9,91403 9,91123 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 9,91432 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1 1	Sh 40m	130° 0′	8h 42m	130° 30′	Sh 44m	131° 0′	8h 46m	131° 30′	8h 48m	132° 0′	
s '	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat, Hav	s
0 0	9.91455	0.82139	9.91631	0.82472	9.91805	0.82803	9.91976	0.83131	9.92146	0.83457	60
2 4+ 1	.91458	.82145 .82151	.91634 .91637	.82478 .82483	.91807 .91810	.82808 .82814	.91979	.83136 .83142	.92149	.83462	58
6	.91464	.52156	.91640	.82489	.91813	.82819	.91985	.83147	.92152 .92154	.83467	56 54
8+ 2	9.91467	0.82162	$9.9164\overline{3}$	0.82495	9.91816	0.82825	9.91988	0.83153	9.92157	0.83478	53
10	.91470	.82167	.91645	.82500	.91819	.82830	.91991	.83158	.92160	.83184	50
12+ 4 14	.91473 .91476	.82173 .82178	.91648 .91651	.82506 .82511	.91822 .91825	.82836 .82841	.91993 .91996	.83164 .83169	.92163 .92166	.83489 .83494	48 46
16+ 4	9.91479	0.82184	9.91654	0.82517	9.91828	0.82847	9.91999	0.83175	9.92169	0.83500	44
18 20+ 5	.91482	.82189	.91657	.82522	.91830	.82852	.92002	.83180	.92171	.83505	42
20+ 5	.91485 .91488	.82195	.91660	.82528	.91833 .91836	.82858 .82863	.92005 .92008	.83185 .83191	.92174	.83511 .83516	40 38
24+ 6	9.91490	0.82206	9.91666	0.82539	9.91839	0.82569	9.92010	0.83196	9.92180	0.83521	36
26	.91493	.82212	.91669	.82544	.91842	.82874	.92013	.83202	.92183	.83527	34
28+ 7 30	.91496 .91499	.82217	.91672 .91674	.82550 .82555	.91845 .91848	.82880 .82885	.92016 .92019	.83207	.92185 .92188	.83532 .83538	32 30
32+ 8	9.91502	0.82228	9.91677	0.82561	9.91851	0.82891	9.92022	0.83218	9.92191	0.83543	28
34	.91505	.82234	.91680	.82566	.91853	.82896	,92025	.83224	.92194	.83548	26
36+ 9 38	.91508	.82240 .82245	.91683 .91686	.82572 .82577	.91856 .91859	.82902 .82907	.92027 .92030	.83229	.92197 .92199	.83554 .83559	24 22
40+10	9.91514	0.82251	9.91689	0.82583	$\frac{.91862}{9.91862}$	0.82913	9.92033	0.83240	9.92202	0.83564	20
42	.91517	.82256	.91692	.82588	.91865	.82918	.92036	.83245	,92205	.83570	18
44+11	.91520	.82262	.91695	.82591	.91868	.82924	.92039	.83251	.92208	.83575	16
46 48+12	0.91523 $0.91526$	.82267 0.82273	.91698 9.91701	.82599 0.82605	.91871 9,91874	.82929 0.82934	.92042 9.92044	.83256 0.83262	.92211 9.92213	.83581 0.83586	14 12
50	.91529	.82278	.91703	.82610	.91876	.82940	.92047	.83267	.92216	.83591	10
52+13 54	.91532 .91534	.82284 .82290	.91706 .91709	.82616 .82621	.91879 .91882	.82945 .82951	.92050 ,92053	.83272	.92219	.83597	8 6
56+14	9.91537	0.52295	$9.9\overline{1709}$	0.82627	9.91885	0.82956	9,92056	0.83283	9.92225	0.83608	
58	9.91540	0.82301	9.91715	0.82632	9.91888	0.82962	9.92059	0.83289	9.92227	0.83613	4 2
	15h	19m	15h	17m	15h	1.5m	15h	13m	15h	11m	
<u> </u>			-				!		Sh 49m	132° 0′	
s ,	8h 41m	130° 0′	8h 43m	130° 30′	8h 45m	131° 0′	8h 47m	131° 30:		132° 0′ 0.8361\$	s 60
s , 0+15			8h 43m 9.91718 ,91721	130° 30′ 0.82638 .82644	8h 45m 9.91891 .91894	131° 0′ 0.82967 .82973	!	131° 30: 0.83294 .83300	9.92230 .92233	0.83618 .83624	s 60 58
0+15 2 4+16	8h 41m 9.91543 .91546 .91549	130° 0′ 0.82306 .82312 .82317	8h 43m 9.91718 .91721 .91724	0.82638 .82644 .82649	8h 45m 9.91891 .91894 .91896	131° 0′ 0.82967 .82973 .82978	8h 47m 9.92061 .92064 .92067	131° 30: 0.83294 .83300 .83305	9.92230 .92233 .92236	0.8361\$ .83624 .83629	60 58 56
0+15 2 4+16 6	8h 41m 9.91543 .91546 .91549 .91552	130° 0′ 0.82306 .82312 .82317 .82323	8h 43m 9.91718 .91721 .91724 .91727	130° 30′ 0.82638 .82644 .82649 .82655	8h 45m 9.91891 .91894 .91896 .91899	131° 0′ 0.82967 .82973 .82978 .82984	8h 47m 9.92061 .92064 .92067 .92070	131° 30: 0.83294 .83300 .83305 .83310	9.92230 .92233 .92236 .92239	0.83618 .83624 .83629 .83635	60 58 56 54
0+15 2 4+16	8h 41m 9.91543 .91546 .91549	130° 0′ 0.82306 .82312 .82317	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732	0.82638 .82644 .82649	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91905	131° 0′ 0.82967 .82973 .82978 .82984 0.82989 .82995	8h 47m 9.92061 .92064 .92067	131° 30: 0.83294 .83300 .83305	9.92230 .92233 .92236 .92239 9.92241 .92244	0.83618 .83624 .83629 .83635 0.83640 .83645	60 58 56
0+15 2 4+16 6 8+17 10 12+18	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91558 .91561	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735	130° 30′ 0.82638 .82644 .82649 .82655 0.82660 .82666 .82671	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91905 .91908	131° 0′ 0.82967 .82973 .82978 .82984 0.82989 .82995 .83000	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92078	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83327	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651	58 56 54 53 50 48
0+15 2 4+16 6 8+17 10 12+18 14	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91564	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82345	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738	130° 30′ 0.82638 .82644 .82649 .82655 0.82660 .82660 .82671 .82677	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91905 .91908 .91911	131° 0′ 0.82967 .82973 .82978 .82984 0.82989 .82995 .83000 .83006	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92078 .92081	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83327 .83332	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651 .83656	58 56 54 53 50 48 46
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91558 .91561	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738 9.91741 .91744	0.82638 .82644 .82649 .82655 0.82660 .82666 .82677 0.82682 .82688	8h 45m 9.91891 .91896 .91896 .91899 9.91902 .91905 .91911 9.91914 .91916	0.82967 .82967 .82973 .82978 .82984 0.82989 .82995 .83006 0.83011 .83016	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92078 .92081 9.92084 .92087	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83321 .83327 .83332 0.83337	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247 .92250 9.92253 .92255	0.83618 .83624 .83629 .83635 0.83645 .83645 .83651 .83656 0.83661	60 58 56 54 53 50 48 46 44 42
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91568 .91564 9.91567 .91570 .91573	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82345 0.82351 .82366 .82362	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738 9.91741 .91744 .91747	130° 30′ 0.82638 .82644 .82649 .82655 0.82660 .82671 .82677 0.82682 .82682 .82683	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91905 .91908 .91911 9.91914 .91916 .91919	0.82967 .82967 .82973 .82978 .82984 0.82989 .83000 .83000 0.83011 .83016 .83022	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92078 .92084 .92084 .92087 .92090	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83327 .83332 0.83337 .83348	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247 .92250 9.92253 .92255	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651 .83656 0.83661 .83667	60 58 56 54 50 48 44 40 40
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91558 .91561 .91564 9.91567 .91573 .91573	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82331 .82336 .82362 .82362	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738 9.91741 .91744 .91747	0.82638 .82644 .82649 .82650 0.82660 .82671 .82677 0.82682 .82688 .82693 .82693	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91905 .91908 .91911 9.91914 .91919 .91919 .91922	0.82967 .82973 .82978 .82984 0.82989 .82995 .83000 .83006 0.83011 .83016 .83022 .83027	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92084 9.92084 9.92084 .92087 .92090 .92090	0.83294 .83300 .83305 .83310 0.83316 0.83321 .83327 .83332 0.83337 .83348 .83354	9.92230 .92233 .92236 .92239 9.92241 .92247 .92250 9.92253 .92255 .92258	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651 .83656 0.83661 .83667 .83672	60 58 56 54 53 50 48 46 44 42 40 38
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91568 .91564 9.91567 .91570 .91573	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82345 0.82351 .82366 .82362	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738 9.91741 .91744 .91747	130° 30′ 0.82638 .82644 .82649 .82650 0.82660 .82671 .82671 .82678 .82688 .82693 .82693 .82693 .82730	8h 45m 9.91891 .91894 .91899 9.91905 .91905 .91908 .91911 .91916 .91919 .91922 9.91925 .91928	131° 0′ 0.82967 .82973 .82978 .82984 0.82989 .83000 .83001 .83016 .83022 .83027 0.83033 .83038	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92078 .92081 9.92084 .92087 .92090 .92093 .92093 .92093 .92098	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83327 .83327 .83332 0.83337 .83348 .83354 0.83359 0.83354	9.92230 .92233 .92236 .92239 9.92241 .92244 .92250 9.92253 .92255 .92258 .92264 .92264	0.83618 .83624 .83629 .83635 0.83640 .83645 .83656 0.83661 .83667 .83672 .83678 .83683 .83683	60 58 56 53 50 48 44 42 40 38 36 34
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22	8h 41m 9.91543 9.91546 9.91552 9.91555 9.91566 9.91567 9.91573 9.91573 9.91573 9.91578	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82345 0.82351 .82356 .82362 .82367 0.82373 .82378	8h 4,3m 9.91718 9.91721 9.91727 9.91730 9.91732 9.91735 9.91744 9.91747 9.91747 9.91747 9.91753 9.91753 9.91753	130° 30′ 0.82638 .82644 .82649 .82650 0.82660 .82677 0.82682 .82683 .82693 .82693 .82704 .82710 .82710	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91903 .91911 9.91914 .91919 .91919 .91922 9.01925 .91928 .91938	131° 0′ 0.82967 .82973 .82984 0.82989 .82995 .83006 0.83011 .83016 .83022 .83027 0.83033 .83038	8h 47m 9.92061 .92064 .92067 9.92070 9.92073 .92076 .92084 .92081 9.92084 .92087 .92093 9.92093 9.92095 .92093	131° 30: 0.83294 .83300 .83310 0.83316 .83321 .83322 .83332 0.83337 .83313 .83348 .83354 0.83359 .83354	9.92230 .92233 .92236 .92239 9.92241 .92247 .92250 9.92253 .92255 .92261 9.92264 .92264	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651 .83656 0.83667 .83672 .83678 0.83883 .83694	60 58 54 50 46 44 40 38 34 33 34 32
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30	8h 41m 9.91543 .91546 .91549 .91552 9.91555 .91556 .91561 .91567 .91570 .91573 .91573 .91581 .91581 .91581	130° 0′ 0.52306 .82312 .52317 .82323 0.52328 .52334 .52335 .52356 .52362 .52367 0.52273 .52378 .52354	8h 43m 9.91718 .91721 .91727 .91727 9.91730 .91732 .91735 .91738 9.91741 .91744 .91747 .91750 9.91753 .91756 .91758	130° 30′  0.82638 .82644 .82655  0.82660 .82667 .82667 .82688 .82693 .82693 0.82704 .82710 .82710	8h 45m 9.91891 .91894 .91896 .91899 9.91902 .91908 .91911 9.91914 .91916 .91919 .91925 .91928 .91931 .91931	131° 0′ 0.82967 .82973 .82978 .82984 0.82989 .83006 0.83011 .83016 .83022 .83027 .83033 .83034 .83014	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92078 .92081 9.92084 .92087 .92090 .92090 9.92093 9.92098 9.92098 9.92098 9.92098 9.92098 9.92098 9.92098	131° 30: 0.83294 .83305 .83305 .83310 0.83316 .83327 .83332 0.83337 .83348 .83359 .83365 .83370	9,92230 ,92233 ,92236 ,92239 9,92241 ,92244 ,92250 9,92253 ,92258 ,92261 9,92264 ,92266 ,92269 ,92272	0.83618 .83624 .83629 .83635 0.83640 .83645 .83651 .83656 0.83661 .83667 .83678 .83688 .83688 .83688 .83688	60 58 54 50 44 44 40 8 34 32 8
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34	8h 41m 9.91543 9.91546 9.91552 9.91555 9.91566 9.91567 9.91573 9.91573 9.91573 9.91578	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82339 .82345 0.82351 .82356 .82362 .82367 0.82373 .82378	8h 43m 9.91718 .91721 .91724 .91727 9.91730 .91732 .91735 .91738 .91744 .91747 .91750 9.91753 .91756 .91758 .91761 9.91764	130° 30′ 0.82638 .82644 .82649 .82650 0.82660 .82677 0.82682 .82683 .82693 .82693 .82704 .82710 .82710	8h 45m 9.91891 .91896 .91896 .91899 9.91902 .91905 .91901 .91919 .91919 .91922 9.91925 .91931 .91931 .91934	0.82967 .82973 .82973 .82978 .82984 0.82989 .83006 .83006 .83006 .83016 .83022 0.83013 .83038 .83049 0.83053 .83049	8h 47m 9.92061 .92064 .92067 .92070 9.92073 .92076 .92078 .92081 9.92084 9.92084 9.92093 9.92093 9.92094 9.92104 9.92107 9.92107	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83327 .83327 .83328 0.83359 .83359 .83359 .83359 .83359 .83359 .83359 .83359 .83359 .83359 .83359 .83359	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247 .92255 .92255 .92258 .92261 9.92264 .92266 .92269 .92272 9.02275	0.83618 .83624 .83629 .83635 0.83645 .83645 .83651 .83667 .83678 0.83683 .83684 .83694 .83699 0.83704	60 58 56 57 50 46 44 42 43 36 34 37 38 38 38 38 38 38 38 38 38 38 38 38 38
$\begin{array}{c} 0+15\\ 2\\ 4+16\\ 6\\ \hline 8+17\\ 10\\ 12+18\\ 14\\ 16+19\\ 18\\ 20+20\\ 22\\ \hline 24+21\\ 26\\ 28+22\\ 30\\ 32+23\\ 34\\ 36+24\\ \end{array}$	8h 41m 9.91543 9.91549 9.91559 9.91555 9.91567 9.91567 9.91573 9.91573 9.91578 9.91581 9.91584 9.91593 9.91593	130° 0′ 0.82306 82312 82317 82323 0.82324 82339 82345 82367 0.82325 82367 0.82325 82367 0.82325 82367 0.82325 82367 0.82325 82367 82378 82284 82289 0.82395 82100	8h 43m 9.91718 91721 91727 9.91730 91732 91735 9.91736 91741 91747 91753 91756 91758 91761 91767 91767 91767	130° 30′ 0.82638 82644 82649 82655 0.82660 82671 82677 0.82682 82688 82693 82693 82710 82710 82710 82710 82710 82715 82712 82713 82713 82713 82713	8h 45m 9.91891 9.1894 9.1896 9.1905 9.1905 9.1906 9.1916 9.1919 9.1922 9.1925 9.1928 9.1931 9.1931 9.1938 9.1939 9.1939 9.1939 9.1939	0.82967 .82973 .82973 .82978 .82984 0.82989 0.82989 .83006 0.83011 .83016 .83022 .83027 0.83033 .83014 .83019 0.83055 .83060 .83060	8h 47m 9.92064 92064 92067 92073 9.92073 9.92078 9.92084 9.92087 9.2090 9.2093 9.2101 9.2101 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107	131° 30: 0.83294 .83300 .83305 .83305 .83310 0.83316 .83327 .83337 .83348 .83354 0.83355 0.83356 .83370 .83370 .83386 .83386	9.92230 .92233 .92236 .92239 9.92241 .92247 .92250 .92255 .92258 .92261 9.92264 .92269 .92272 9.92273 .92273 .92278	0.83618 .83624 .83629 .83635 0.83645 .83645 .83656 .83667 .83672 .83678 .83688 .83688 .83688 .83699 0.83704 .83710	60 58 56 57 50 46 44 44 40 48 54 53 54 53 54 54 54 54 54 54 54 54 54 54 54 54 54
0+15 2 4+16 6 8+17 10 12+18 14+19 18 20+20 23 24+21 26 28+22 30 32+3 34 36+24 38	8h 41m 9.91543 .91549 .91552 9.91555 .91558 .91561 .91570 .91573 .91573 .91575 9.01578 .91584 .91584 .91583 .91584 .91584 .91584 .91583 .91593	130° 0′ 0.52306 5.2312 5.2317 5.2323 0.52328 5.2334 5.2336 5.2356 5.2367 0.52373 5.2378 5.2384 5.2369 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400 5.2400	8h 43m 9.91718 91721 91724 91727 9.91730 91732 91732 91735 9.91741 91744 91747 91750 9.91753 9.91761 9.91764 9.91767 9.91769 9.91761 9.91767 9.91770 9.91770	130° 30′ 0.82638 .82644 .82649 .82655 0.82666 .82671 .82682 .82683 .82693 .82716 .82716 .82717 .82717 .82713 .82732 .82732 .82733 .82737 .82737	8h 45m 9.91891 .91896 .91896 .91899 9.91902 .91905 .91911 9.91914 .91919 .91922 9.01925 .91931 .91931 .91931 .91931 .91939 .91939 .91939 .91939 .91939	0.82967 .82973 .82978 .82984 0.82989 0.82989 .83000 0.83011 .83016 0.83027 0.83033 .83014 .83049 0.83055 .83049 0.83055 .83049 0.83055 .83069 .83069	8h 47m 9.92064 92064 92067 92070 9.92073 9.92078 92081 9.92084 92087 92093 92095 92101 92104 92109 92109 92112 92112	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83327 .83329 0.83337 .83348 .83354 0.83359 .83375 .83375 .83375 .83386 .83386 .83397	9.92230 .92233 .92236 .92239 9.92241 .92244 .92247 .92253 .92255 .92261 9.92264 .92266 .92269 .92272 9.92275 .92278 .92278 .92280	0.83618 .83624 .83629 .83635 0.83645 .83651 .83656 0.83661 .83667 .83678 0.83688 .83694 .83694 .83710 .83710 .83715	58 56 54 53 50 48 44 42 40 38 36 34 32 36 34 32 36 34 32 36 37 38 36 37 37 38 38 36 37 37 38 38 38 38 38 38 38 38 38 38
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 36+24 38 40+25	8h 41m 9.91543 9.91546 9.91559 9.91555 9.91567 9.91567 9.91573 9.91573 9.91573 9.91581 9.91587 9.91589 9.91599 9.91599	130° 0′ 0.82306 82312 82317 82323 0.82324 82339 82345 82367 0.82325 82367 0.82325 82367 0.82325 82367 0.82325 82367 0.82325 82367 82378 82284 82289 0.82395 82100	8h 43m 9.91718 91721 91727 9.91730 91732 91735 9.91736 91741 91747 91753 91756 91758 91761 91767 91767 91767	130° 30′ 0.82638 82644 82649 82655 0.82660 82671 82677 0.82682 82688 82693 82693 82710 82710 82710 82710 82710 82715 82712 82713 82713 82713 82713	8h 45m 9.91891 9.1894 9.1896 9.1905 9.1905 9.1906 9.1916 9.1919 9.1922 9.1925 9.1928 9.1931 9.1931 9.1938 9.1939 9.1939 9.1939 9.1939	0.82967 .82973 .82973 .82978 .82984 0.82989 0.82989 .83006 0.83011 .83016 .83022 .83027 0.83033 .83014 .83019 0.83055 .83060 .83060	8h 47m 9.92064 92064 92067 92073 9.92073 9.92078 9.92084 9.92087 9.2090 9.2093 9.2101 9.2101 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107 9.2107	131° 30: 0.83294 .83300 .83305 .83310 0.83316 0.83321 .83327 .83337 0.83354 0.83354 0.83355 0.83370 .83370 .83386 .83386	9.92230 .92233 .92236 .92236 .92234 .92244 .92244 .92250 .92253 .92255 .92266 .92266 .92269 .92275 .92275 .92278 .92288 .92283 .92288	0.83618 .83624 .83629 .83635 0.83645 .83645 .83656 .83667 .83672 .83678 .83688 .83688 .83688 .83699 0.83704 .83710	60 58 56 57 50 46 44 44 40 48 54 53 54 53 54 54 54 54 54 54 54 54 54 54 54 54 54
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 22 24+21 26 28+22 30 32+3 34 36+24 38 49+25 42 44+26	8h 41m 9.91543 9.91549 9.91552 9.91555 9.91564 9.91566 9.91567 9.91573 9.91578 9.91581 9.91581 9.91593 9.91596 9.91596 9.91692 9.91602	130° 0′ 0.82306 82312 82317 82323 0.82328 82334 82339 82345 0.82351 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82362 82406 82406 82417 82423 0.82417	8h 43m 9.91718 9.91721 91724 91727 9.91730 91732 91735 91738 9.91741 91747 91756 91758 91761 9.91761 9.91761 9.91767 91770 91777 91777	130° 30′  0.82638 .82644 .82649 .82650 0.82660 .82667 0.82688 .82693 .82693 .82710 .82716 .82710 0.82726 .82737 .82713 0.82748 .82737	8h 45m 9.91891 91894 91896 91899 9.91905 91905 91908 91911 9.91914 91925 9.91925 9.91934 9.91936 9.91936 9.91942 9.91945 9.91945 9.91945 9.91948 9.91948 9.91948	0.82967 .82973 .82973 .82978 .82984 0.82989 .83006 0.83011 .83016 .83022 .83027 0.83038 .83049 0.83055 .83049 0.83055 .83066 .83066 .83077 .83087 .83087	8h 47m  9.92061 9.92064 9.92067 9.92070 9.92078 9.92078 9.92081 9.92084 9.92087 9.92090 9.92098 9.92098 9.92098 9.92104 9.92107 9.92109 9.92112 9.92118 9.92118 9.92118	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83327 .83332 0.83337 0.83359 .83365 .83365 .83365 .83375 0.83375 0.8348 .8348 .8348 .8348 .8348 .8348 .8348 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8340 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380 .8380	9.92230 .92233 .92236 .92239 9.92241 .92244 .92255 .92255 .92258 .92266 .92269 .92272 9.92275 .92280 .92280 .92280 .92280 .92280 .92280	0.83618 .83624 .83629 .83635 0.83640 .83645 .83656 0.83661 .83667 .83672 .83678 .83688 .83688 .83689 0.83710 .83710 .83710 .83713 .83726	58 56 54 52 50 48 46 44 42 40 38 56 54 42 40 38 56 54 42 40 50 50 50 50 50 50 50 50 50 5
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 28+22 30 32+23 34 40+25 44 44 46	8h 41m 9.91543 9.91549 9.91552 9.91555 9.91556 9.91567 9.91567 9.91570 9.91575 9.91575 9.91578 9.91584 9.91593 9.91593 9.91593 9.91605 9.91605 9.91608	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82334 .82356 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82100 .82107 .82100 .82107 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102 .82102	8h 43m 9.9178 9.91781 9.1721 9.1724 9.1727 9.91730 9.1732 9.91744 9.1744 9.1747 9.1750 9.1756 9.1758 9.1761 9.1766 9.1767 9.1779 9.1779 9.1779 9.1779	130° 30′ 0.82638 .82644 .82649 .82656 0.82660 .82660 .82667 0.82682 .82693 0.82704 .82715 .82713 0.82732 .82733 .82733 0.82748 .82733 .82733 0.82748 .82733 .82733 0.82748	\$\frac{8h}{45m}\$  9.91891 9.91894 9.91896 9.1899 9.91902 9.1905 9.1911 9.1916 9.1919 9.1922 9.1925 9.1925 9.1931 9.1934 9.1934 9.1939 9.1945 9.1945 9.1945 9.1945 9.1945 9.1945 9.1945	131° 0′ 0.82967 .82973 .82973 .82989 0.82989 .83906 0.83011 .83016 .83027 0.83033 .83014 .83015 .83060 .83071 0.83073 0.83087 .83087	8h 47m 9.92061 9.92064 9.92067 9.92073 9.92078 9.92087 9.92084 9.92087 9.92084 9.92089 9.92084 9.92087 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 9.92081 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0.83294 .83300 .83305 .83310 0.83316 .83321 .83327 .83332 0.83337 .83354 0.83359 .83365 .83386 .83386 .83397 0.83381 .83483 .83483	9.92230 .02233 .92236 .92234 .92244 .92247 .92250 .92255 .92258 .92261 .92266 .92269 .92275 .92278 .92283 .92283 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286 .92286	0.83618 .3624 .83629 .83636 0.83640 .83651 .83656 0.83661 .83656 0.83661 .8367 .83672 .83678 0.83701 .83710 .83710 .83720 0.83721 .83737	58 56 54 50 50 48 46 44 42 40 48 36 34 32 36 34 32 36 34 37 38 36 34 37 38 36 34 37 38 36 36 37 38 38 38 38 38 38 38 38 38 38
0+15 2 4+16 6 8+17 10 112+18 14 16+19 18 20+20 22 23 24+21 26 30 32+23 34 36+24 38 40+25 44+26 48+27	8h 41m 9.91548 9.91549 9.91552 9.91555 9.91558 9.91564 9.91567 9.91570 9.91573 9.91578 9.91581 9.91596 9.91596 9.91590 9.91590 9.91608 9.91608 9.91610 9.91610	130° 0′ 0.82306 8.82312 8.2317 8.2328 8.2334 8.2339 8.2345 0.82351 8.2356 8.2362 8.2367 0.82373 8.2378 8.2289 0.82410 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 8.24102 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$\begin{array}{c} 0+15\\ z\\ 4+16\\ 6\\ \\ 8+17\\ 10\\ 12+18\\ 14\\ 16+19\\ 18\\ 20+20\\ 22\\ 24+21\\ 26\\ 22+23\\ 30\\ 32+23\\ 30\\ 34\\ 36+24\\ 38\\ 40+25\\ 5\\ 42+26\\ 44+26\\ 48+27\\ 50\\ 55+28\\ 5\\ 5\\ 56+28\\ \end{array}$	8h 41m 9.91548 9.91549 9.91552 9.91555 9.91556 9.91567 9.91567 9.91567 9.91575 9.91575 9.91575 9.91584 9.91589 9.91593 9.91605 9.91608 9.91608 9.91608 9.91613 9.91619 9.91622 9.91622	130° 0′ 0.82306 .82312 .82317 .82323 0.82328 .82334 .82356 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82367 0.82357 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460 .82460	8h 43m 9.91718 9.91718 9.1721 9.1724 9.1727 9.91730 9.91731 9.91744 9.91744 9.1747 9.1750 9.91753 9.1756 9.1758 9.1761 9.91767 9.91779 9.91779 9.91782 9.91784 9.91787 9.91787 9.91782 9.91784 9.91787 9.91789	130° 30′ 0.82638 .82644 .82649 .82666 .82660 .82660 .82668 .82688 .82693 0.82704 .82715 .82713 0.82726 .82732 .82737 .82713 0.82748 .82754 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756 .82756	\$\frac{sh}{45m}\$  9.91891 9.91894 9.91896 9.19902 9.91902 9.19905 9.1911 9.1916 9.1919 9.1922 9.1925 9.1925 9.1931 9.1934 9.1934 9.1934 9.1934 9.1935 9.1945 9.1945 9.1945 9.1946 9.19166 9.19166 9.19166	131° 0′ 0.82967 .82973 .82973 .82989 0.82989 .83996 .83006 0.83011 .83016 .83027 0.83033 .83048 .83049 0.83053 0.83051 0.83077 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087 .83087	8h 47m 9.92061 9.92064 9.92067 9.92073 9.92078 9.92087 9.92087 9.92089 9.92087 9.92089 9.92101 9.92104 9.92107 9.92109 9.92115 9.92115 9.92124 9.92124 9.92124 9.92125 9.92135 9.92138	131° 30: 0.83294 .83300 .83305 .83310 0.83316 .83321 .83329 0.83333 0.83348 .83359 .83359 .83370 0.83370 0.83370 0.83402 .83392 .83394 .83394 .83394 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83397 .83402 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83396 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .83496 .8349	9.9230 9.9233 9.2236 9.92241 9.2244 9.2247 9.9255 9.9255 9.9255 9.9266 9.9266 9.9269 9.9272 9.9272 9.9283 9.9283 9.9280 9.9283 9.9292 9.9292 9.9292 9.9292 9.9297 9.9297 9.9297 9.9297 9.9297 9.9297 9.9297 9.9297 9.9297 9.9297	0.83618 .3624 .83629 .83629 .83630 0.83640 .83645 .83656 0.83661 .83657 0.83690 0.83710 .83710 .83720 0.83726 0.83737 .83737 .83737 .83737	60 58 56 54 50 48 46 42 40 40 48 50 48 44 42 50 50 48 50 48 50 50 50 50 50 50 50 50 50 50
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40 40 40 40 40
0+15 2 4+16 6 8+17 10 12+18 14 16+19 18 20+20 22 24+21 26 32+23 34 36+24 38 40+25 44+26 48+27 50 52+28 52 55 55 55 58	8h 41m  9.91548 9.91549 9.91555 9.91555 9.91557 9.91570 9.91573 9.91577 9.91577 9.91578 9.91584 9.91587 9.91580 9.91602 9.91608 9.91608 9.91608 9.91608 9.91608 9.91608 9.91608 9.91608	130° 0′ 0.82306 .82312 .82317 .82328 .82334 .82339 .82345 0.82356 .82362 .82367 0.82373 .8278 .82384 .82389 .82100 .82406 .82407 .82428 .82428 .82428 .82428 .82428 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406 .82406	8h 43m 9.91718 9.91721 9.1724 9.1727 9.91730 9.91735 9.91735 9.91744 9.91753 9.91753 9.91754 9.91753 9.91761 9.91764 9.91776 9.91776 9.91776 9.91776 9.91776 9.91776 9.91776 9.91776 9.91779 9.91782 9.91784 9.91787 9.91789 9.91789 9.91790 9.91790 9.91895	130° 30′  0.82638 .82644 .82649 .82666 .82666 .82667 0.82688 .82693 .82693 0.82704 .82710 .82710 .82712 .82713 .82713 .82714 .82714 .82759 .82765 .82766 .82786 .82787 .82714 .82756 .82787 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788 .82788	\$\frac{8h}{45m}\$  9.91891 .91894 .91896 .91899 9.91902 .91905 .91908 .91911 9.91916 .91919 .91925 .91925 .91928 .91931 .91931 .91931 .91931 .91948 .91951 .91954 .91955 .91968 .91968 9.91971 .91973 .91973	131° 0′ 0.82967 .82973 .82973 .82989 .82995 .83006 0.83011 .83016 .83022 .83027 0.83033 .83038 .83019 0.83051 0.83017 0.83077 .83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093 0.83093	8h 47m  9.92064 9.92067 9.92073 9.92076 9.92078 9.92081 9.92087 9.92087 9.92087 9.92087 9.92087 9.92089 9.92189 9.92101 9.92104 9.92169 9.92182 9.92183 9.92183 9.92183 9.92184 9.92183 9.92184 9.92183 9.92184 9.92183 9.92184 9.92184 9.92184 9.92185 9.92184 9.92184 9.92184 9.92184 9.92184 9.92185 9.92185 9.92184 9.92184 9.92184 9.92185 9.92184 9.92184 9.92185 9.92184	131° 30:  0.83294 .83300 .83305 .83310 0.83316 .83321 .83327 .83313 .83348 .83348 .83348 .83359 .83365 .83375 0.83375 0.83381 .83397 0.83402 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408 .83408	9,9230 92233 92236 9,92241 92244 92247 92255 9,92255 92261 9,92266 92269 92266 92269 92286 92286 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92280 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92380 92	0.83618 .3624 .83629 .83636 0.83640 .83645 .83656 0.83661 .83656 0.83661 .83657 0.83699 0.83716 .83720 0.83737 .83737 .83737 .83737 .83737 .83737 .83747 .83753 .83763 0.83763	60 58 56 56 50 48 50 44 42 42 42 43 50 50 50 50 50 50 50 50 50 50 50 50 50

Page 912]

# TABLE 45.

		Sh Sim	139 307	84 1.15	133 0'	×h ,53m	133 30	sh 56m	134° 0′	8h 58m	131° 30′	
		Log Hay		Log. Hav	Not Hay	Log. Has	Ny Hay	Log. Hav	Net. Hay	Log. Hav.	Nat. Hav	s
-		9.92363	0.53750	9 92180	0.54100	9,92643	0.51115	9,92805	0.54733	9.92965	0.85045	60
	0	92317	.53755	92382	.51105	.1(2)(46)	. 4423	.92505	.51738	.92968	.55051	58
., ÷	- 1	15, 119	.83790 .83796	.92485 92488	.54111	.92649	.51425	.92811 .92813	.81713	.92970 .92973	.85056 .85061	56
*.	9	1.5	0.83801	9 92191	0.84121	9.92654	0.51139	9,92816	0.84751	9.92975	0.85066	5.2
10		0.028	.83806	.52493	.54127	.92657	.5444	502819	.84759	.92978 .92981	.85071	50
1	-3	5 1, 13	.51517	.92 196	.84132	.92660 .92662	.84449	.92821 .92824	.84764 .84770	.92981	.85077	48 46
16	- 1	0.002336	0.83822	9.92502	0.81142	9 92665	0.51460	9.92827	0.84775	9.92986	0.85087	44
1:	5	1218 1218	.43424	.92504 92507	.84118	.92668	.81165	.92829 .92832	.81780	.92989	.85092 .85097	42 40
		92311	,53535	92510	.81158	92673	.54176	.92835	.84790	.92994	.55102	38
٠,	6	0.92337 92350	0.83844	9 92512 92515	0.84164	9.92676 .92679	0.84481	9.92837 .92840	0.84796 .84801	9.92997	0.85108 .85113	36 34
Α.	7	92.153	.83855	.92518	.51174	.92681	.51492	.92543	.51506	.93002	.85118	.52
		92355	0.53565	.92521 9.92523	0.84185	92684 $9.92687$	.51497 0.84502	.92845 9.92848	.54811 0.54817	.93005 9.93007	.85123 0.85128	30 28
	,	92361	.53571	92526	.54190	.92689		.92851	.54522	.93010	.85134	26
10	9	.92364 92366	.53576	92529 92532	.54196 .54201	.92692 .92695	.84513 .84518	.92853 .92856	.84827	.93013	.85139 .85144	24
.,	10	55 ML 1678	0.5355	9.92.63	9.81300	9.92698		9.92859	0.51537	9.93018	0.85149	20
		92,172	53503	92537	.54211	.92700	.84528	.92861	.81813	.93021	.85151	18
	11	92,173 92,173	.83897 .83903	92540 92543	.51217	92703 92706	.54534	.92864	.81853	.93023 .93026	.85159 .85165	16 14
	1;	9.92,380	0.83908	9.92515	0.51227	9.92708	0.51514	9,92569	0.84858	9,93029	0.85170	12
	13	90,184 90,186	.83913	92548	.51233 .54235	.92711 .92714	.54549 .84555	.92872 .92875	.81863	.93034	.55175 .55180	10
7		92,189	.83921	92.54	.84243	.92716	.54560	.92877	. \$1874	.93036	.85185	-6
9	11	9 92 70 L 9 92 91 E	0.83929	9 92556 9 92559	0.81249	9-92719 9.92722	0.84565	9,92880	0.81879	9,93039	0.85190	4
								-	1			,
		75	71	153	7	15	155	15	5.70	157	1 Jm	<u> </u>
		17.0	132 39	. h _	133 0	· 55m	t33 30'	84.57%	134 0	8h 39m	134 30'	8
l	15	9.92.297	0.53940	9.9_562	0.51259	9,92725	0.84576	9.92885		9,93044	0.55201	60
ı		9.90,297 - 12300 - 12302	.83945	92564	.84264	392727	.81581	9-92885 -,92884 -,92891	.54895	9,93044 ,93047 ,93050	.55206	60 58 56
	16	92405 92405	.83945 .83951 .83956	92564 92567 92570	.84264 .84270 .84275	3/2727 3/2730 3/2733	.84584 .84586 .81591	.92884 .92891 .92893	.54895 .54900 .54905	.93047 .9305 <b>0</b> .93052	.85206 .85211 .85216	58 56 54
		12400 12402 12405 12405	.83945 .83951 .83956 0.84961	92564 92567 92570 932773	.84264 .84270 .84275 0.84280	392727 392730 92733 932735	.81581 .81586 .81591 0.84597	.92888 .92891 .92893 9.92896	.54895 .54900 .54905 0.54910	.93017 .93050 .93052 9.93055	.85206 .85211 .85216 0.85221	58 56 54 52
7	16	9200 92102 92105 9216 9214 9244 9243	.83945 .83954 .83956 0.84964 .83967 .83972	92564 73659 93550 93553 9355 9355	.54261 .54276 .54275 .54250 .54256 .54291	92727 92730 92733 93733 92738 92741	.×15×1 .×15×6 .×1591 .×1597 .×1602 .×1607	.92884 .92891 .92893 9.92896 .92899 .92901	.54895 .54900 .54905 0.54940 .54946 .54921	.93017 .93050 .93052 9.93055 .93057 .93060	.85206 .85211 .85216 0.85221 .85227 .85232	58 56 54 52 50 48
	16 17 18	22 100 22 102 22 105 22 10 1 22 10 1 22 10 1 23 10 1	.83945 .83954 .83956 0.84364 .83967 .83972 .84977	92564 92567 92570 932575 92575 92581	.54264 .54276 .54275 0.54250 .54294 .54294 .54296	92727 92730 92733 92735 92738 92741 92743	.×15×1 .×15×6 .×1591 0.×1597 .×1602 .×1607 .×1612	.92884 .92891 .92893 9.92896 .92899 .92904 .92904	.\$4895 .\$4900 .\$4905 0.\$4910 .\$4916 .\$4921 .\$4926	.93017 .93050 .93052 9.93055 .93057 .93060 .93063	.\$5206 .\$5211 .\$5216 0.\$5221 .\$5227 .\$5232 .\$5237	58 56 54 52 50 48 46
	16 17 18 19	12 800 10 102 10 105 10 2 105 10 2 105 10 11 11 10 11 10 10 11 10 10 11 12	.3045 .3951 .3956 .3956 0.3366 .3967 .3977 0.3953	92564 92567 92570 93573 92575 92584 92584 92584 92586	.54264 .54276 .54275 0.54250 .54294 .54294 .54296 0.84302 .54307	92727 92733 92733 9 92735 92735 92741 9 92746 92749	.415×1 .415×6 .51591 0.×4597 .×1602 .51607 .×1612 0.×1613 .54623	.92888 .92893 .92896 .92896 .92904 .92904 .92907 .92909	.54895 .54900 .54905 0.54910 .54916 .54921 .54926 0.54931 .54936	93047 93050 93052 9.93055 93067 93063 9.93065 94068	.55206 .55211 .55216 0.85221 .55227 .55232 .55237 0.85212 .85217	58 56 54 52 50 48 46 44 42
8	16 17 18	12 800 12 102 52 105 62 105 62 11 1 52 116 62 116 62 126 62 126 62 126	.80945 .80951 .80956 0.84967 .83967 .83973 .84977 0.84980 .83988 .83994	92564 92567 92570 93573 92575 92584 92584 92586 92586	.84264 .84276 .84275 0.84286 .84286 .84294 .84296 0.84302 .84307 .84307	92727 92730 92733 9 92735 92738 92733 9 92736 92749 92754	.×45×1 .×45×6 .×4591 0.×4597 .×4602 .×4607 .×4612 0.×4618 .×4623 .×4623	.9258 .92591 .92593 9.92596 .92501 .92904 .92904 .92907 .92909 .92912	.54595 .54900 .54905 0.54910 .54914 .54924 0.54934 .54936 .54936	.93017 .93050 .93052 9.93055 .93060 .93063 9.93065 .94068 .93071	. \$5206 . \$5211 . \$5216 0. \$5221 . \$5227 . \$5232 . \$5237 0. \$5217 . \$5247 . \$5252	58 56 54 52 50 48 46 44 42 40
1	16 17 18 19	12 800 10 102 10 105 10 2 105 10 2 105 10 11 11 10 11 10 10 11 10 10 11 12	.3045 .3951 .3956 .3956 0.3366 .3967 .3977 0.3953	92564 92567 92570 93573 92575 92584 92584 92584 92586	.54264 .54276 .54275 0.54250 .54294 .54294 .54296 0.84302 .54307	92727 92733 92733 9 92735 92735 92741 9 92746 92749	.415×1 .415×6 .51591 0.×4597 .×1602 .51607 .×1612 0.×1613 .54623	.92888 .92893 .92896 .92896 .92904 .92904 .92907 .92909	.54895 .54900 .54905 0.54910 .54916 .54921 .54926 0.54931 .54936	93047 93050 93052 9.93055 93067 93063 9.93065 94068	.55206 .55211 .55216 0.85221 .55227 .55232 .55237 0.85212 .85217	58 56 54 52 50 48 46 44 42
	16 47 48 49 20 24	12 400 12 102 12 105 10 2 105 10 2 108 10 4 11 10 4116 10 112 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 12 10 12 10 12 10 12 10 12 10 12 10 10 10 1	.83945 .83951 .83956 0.83361 .83967 .83972 0.84983 .83988 .83998 .83999 0.84002 .84000	92564 92567 92570 93573 93575 92581 93584 92586 92589 92592 93594	.\$4261 .\$4276 .\$4275 0.\$4280 .\$4291 .\$4296 0.\$4302 .\$4307 .\$4317 0.\$4347 0.\$4347 0.\$4343	92727 92730 92733 9 92735 92738 92741 92743 92749 92751 92751 92751 92757	,×15×1 ,×15×6 ,×1591 0,×1597 ,×1602 ,×1607 ,×1618 ,×1623 ,×1623 ,×1639 0,×1639 ,×1644	.92888 .92891 .92893 9.92896 .92904 .92904 9.92907 .92909 .92915 9.92917 .92920	.54895 .51900 .51900 .51916 .51916 .51916 .51931 .51936 .51947 .51947 0.81952	.93047 .93050 .93052 9.93055 .93057 .93060 .93063 9.93065 .93074 .93073 9.93076	. \$5206 . \$5211 . \$5216 0. \$5227 . \$5232 . \$5237 0. \$5212 . \$5212 . \$5252 . \$5252 0. \$5263 . \$5268	58 54 52 50 48 46 44 42 40 88 36 84
	16 17 18 19 20	12 000 12 102 52 105 702 108 704 14 74 113 72 113 72 122 72 122 72 123 9 02 130	.83945 .83951 .83956 0.83964 .83967 .83973 .84977 0.84983 .83988 .83998 .83999 0.84002	92564 92567 92570 92573 92575 92575 92584 92586 92586 92586 92580	.84261 .84276 .84275 0.84286 .84281 .84296 0.84392 .84397 .84347 0.84342 .84347 0.84323 .84343	92727 92730 92733 9 92733 9 92735 9 92749 92749 92754 9 92757 92757 92760	.×15×1 .×15×6 .×1591 0.×1597 .×1602 .×1602 .×1612 0.×1613 .×1628 .×1633 0.×1633 0.×1641 .×1641	.9288 .92891 .92893 9.92896 .928,09 .92904 9.92907 .92909 .92912 9.92912	.54895 .51900 .54905 .54910 .54916 .54921 .54926 .54936 .54942 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .54947 .5	.93047 .93050 .93052 9.93055 .93067 .93063 9.93065 .93068 .93074 .93073	. \$5206 . \$5211 . \$5216 0. \$5221 . \$5227 . \$5232 . \$5237 0. \$5217 . \$5247 . \$5252 . \$5258 0. \$5258	58 56 54 52 50 48 46 44 42 40 38 36
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0 9 9.9123			Loz. Hav.	Nu. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hay.	Nat. Hay.	1
1	0			0.85355	9.93433	0.85967	9.93736	0.86568	9.94030	0.87157	9.94348		60
Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   R		1	.93128	85366	.93438	.85977	.93741	.86578	.94035				
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S												-87793	2 .
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							0.00775					.57863	
49   10   9.3175   S\$148   S\$908   9.3175   S\$665   9.4075   S\$725   9.3305   S\$737   7.40   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60   7.60													
44   11   9.03181   8.55168   9.3489   8.6078   9.9379   8.6672   9.94084   8.5224   9.9399   8.58160   5.213   9.03191   8.55189   9.03499   8.6008   9.9350   8.6666   9.4093   8.7223   9.9353   8.7580   9.0008   9.0008   9.0008   8.7223   9.9353   8.7580   9.0008   9.0008   9.0008   9.0008   8.7223   9.9353   8.7580   9.0008   9.0008   9.0008   9.0008   8.7223   9.9435   8.7580   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   8.7223   9.9435   8.7580   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.0008   9.													
48   12   9,9318s   0,85479   9,93494   0,8608s   9,9375   0,8668s   9,94085   0,87271   9,94371   0,87850   566   14   9,93194   0,85499   9,93504   0,86198   9,93850   0,86696   9,94093   0,87293   9,94383   0,87850   3,87850   4   0,94198   0,94198   0,87293   0,94383   0,87860   4   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,94198   0,941										.87254			
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect										.87264			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $										0.87371			
												.87859	
S	56	14	9.93196	0.85499	9.93504	0.86108	9.93805	0.86706	9.94098	0.87293	9.94383	0.87869	4
S	i		1.4h	50m	14h	55m	1.4h	51m	14h	47 m	7.4h	4.3m	
0   15   9.93201   0.85509   9.93509   0.86118   9.93101   0.86716   9.94103   0.87303   9.94388   0.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.87818   6.878		<del></del>	ah in	1950	uh sm	1960	1 oh um	1030				100)	<del>.</del> -
4   16         93210         .85320         .96315         .86128         .98815         .86736         .94112         .37321         .98380         .86736         .94112         .37321         .98380         .87876         .94117         .37321         .98402         .87876         .94117         .37321         .94102         .87907         .62         .94117         .37332         .94102         .87907         .62         .94117         .37332         .94102         .87907         .62         .94107         .87806         .94117         .37332         .94102         .87910         .48         .94117         .37332         .94102         .87910         .48         .94117         .93323         .86168         .98383         .866785         .94117         .87331         .94112         .87910         .48         .94112         .87910         .48         .94112         .87910         .48         .94112         .87331         .94112         .87910         .87910         .48         .94127         .87331         .94112         .87910         .87910         .48         .94127         .87331         .94112         .87910         .87910         .87910         .87910         .87910         .87910         .87910         .88910         .88810								_	1		1		
Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   Record   R											9.94388	0.87878	60
12   15   93217   .85540   .93525   .86148   .93825   .86746   .94117   .87332   .94402   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .87907   .													56
16   19   9.93222   0.85550   9.94530   0.86188   9.98830   0.86756   9.94122   0.87312   9.94407   0.87916   44     24   21   9.9322   8.55560   9.95555   8.6168   9.98830   8.6565   9.94127   \$73351   9.94416   \$7395   36     25   27   9.93238   8.5581   9.3545   8.6188   9.9884   8.6775   9.9412   \$7391   9.9416   \$7395   36     26   27   9.93238   8.5581   9.3555   8.6168   9.9884   8.6775   9.9412   \$7391   9.9416   \$7395   36     27   28   29   9.9323   8.5561   9.93550   8.6219   9.9884   8.6805   9.9414   \$7390   9.9442   \$7901   34     26   29   9.9223   8.5562   9.9355   8.6219   9.9886   8.6805   9.9414   \$7390   9.9441   \$7902   2.8804     27   9.9224   8.5637   9.9357   8.6249   9.9886   8.6805   9.9415   8.7409   9.9414   \$7902   2.8804     28   9.9224   8.5563   9.9355   8.6229   9.9886   8.6805   9.9415   8.7409   9.9414   \$7902   2.8804     28   9.9224   8.5563   9.9355   8.6249   9.9887   8.6844   9.9415   8.7409   9.9444   \$7902   2.8804     38   9.9224   8.5563   9.9355   8.6229   9.9889   8.6864   9.9415   8.7409   9.9444   8.7809   2.8804     4   1   9.9326   8.5663   9.9355   8.6229   9.9889   8.6864   9.9415   8.7409   9.9444   8.7809   2.8804     4   1   9.9326   8.5663   9.9355   8.6229   9.9889   8.6864   9.9415   8.7409   9.9446   8.8809   8.8804     4   1   9.9326   8.5663   9.9355   8.6229   9.9889   8.6864   9.9415   8.7407   8.7408   8.8809   8.8804     4   1   9.9330   8.5663   9.9355   8.6229   9.9889   8.6864   9.9415   8.7407   9.9416   8.8809   8.8804   8.9415   8.7407   9.9416   8.8809   8.8804   9.9415   8.7407   9.9416   8.8809   8.8804   9.9415   8.7407   9.9416   8.8809   8.8804   9.9415   8.7407   9.9418   8.8809   8.8804   9.9415   8.7408   9.9415   8.8809   8.8804   9.9415   8.7408   9.9415   8.8809   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415   8.8804   9.9415			.93212										52
16   19   9.93227   0.85556   9.95550   9.95585   5.6168   9.9835   0.86756   9.94122   0.87312   9.94102   5.7926   24   21   9.9322   8.5571   9.9540   5.6178   9.9840   8.6775   9.4132   8.7301   9.4416   8.7925   36   22   23   9.9323   8.5581   9.3545   8.6184   9.9846   8.6775   9.4132   8.7301   9.4416   8.7925   36   24   9.9324   8.5501   9.93550   0.6199   9.9849   0.86785   9.4141   0.87320   9.94426   0.87951   28   28   29   9.9323   8.5501   9.93550   6.6199   9.9849   0.86785   9.4141   0.87320   9.94426   0.87951   28   24   9.9235   8.5502   9.9550   6.6239   9.9886   0.86785   9.4146   0.8749   9.4440   8.7930   9.4440   8.7931   24   24   24   9.9235   8.5502   9.5505   5.6229   9.9886   0.86385   9.94151   8.7409   9.4440   8.7932   24   8.6288   9.9229   8.5642   9.9575   8.6249   9.9874   8.8583   9.9416   0.87479   9.4441   0.87329   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.6588   7.658								.86746				.87907	48
20			9.93222		9.93530			0.86756	9.94122		9,94407		
24 21 93228			,93227	.85560	.93535			.86765	.94127	.87351	.94412		
28         22         9.93238         0.85591         9.93550         0.86189         9.93849         0.86795         9.94131         0.87320         9.94126         0.87954         22           36         24         9.93248         0.85601         9.93550         0.86199         9.93849         0.86795         9.94146         8.7390         9.9426         0.87934         22           40         25         9.92535         8.5612         9.93505         8.6219         9.93859         8.6815         9.94151         8.7390         9.9440         9.9373           48         27         9.9264         0.85632         9.93570         0.86239         9.93869         8.6825         9.94161         8.73419         9.94440         8.7932         f.6           56         29         9.92274         0.55632         9.93570         0.86239         9.93870         0.86834         9.94161         0.87448         9.94464         0.88001         8           5         9.9         7.7         0.85622         9.93584         0.86841         9.94175         0.87488         9.94464         0.88011         4           4         31         9.93279         0.85663         9.93589         0.86279	24		.93232		.93540			.86775	.94132	.87361	.94416		
32         23         9.93248         0.55591         9.93550         0.86199         9.93859         0.86095         9.94141         0.87380         9.94120         0.87501         24           40         25         9.92248         5.8612         9.93550         8.6219         9.93851         8.8605         9.94151         8.7400         9.94355         8.75021         24           42         26         9.93254         0.85632         9.93570         0.86233         9.93861         8.6815         9.94161         8.8740         9.94161         8.7400         9.94140         8.7932         2.6           52         28         9.92274         0.85632         9.93850         0.86239         9.98879         0.85834         9.94161         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87492         9.94141         0.87494         9.94141         0.87493         9.94141         0.87493         9.94141         0.87493         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.94141         0.87494         9.9	28	22	.93238										
36         24         9.93248         8.5601         9.93556         8.6209         9.93551         8.6805         9.94150         8.7409         9.4430         8.7903         20           44         26         9.9253         8.5622         9.93565         8.6229         9.93864         8.6825         9.9156         8.7409         9.9440         8.7923         20           56         29         9.9269         8.6642         9.9577         8.8249         9.9827         8.6841         9.9377         8.8249         9.9827         8.6841         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9416         8.8728         9.9417         9.8428         8.8623         9.9417         9.8428         8.9428		23	9.93243										
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 0	30											
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			9,93279	0.85663	9.93585	0.00203	9.93884	0.86864	9.94175	0.87448	9.94458	0.88020	60
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	31	9.93279 .93284	0.85663 .85673	9.935 <u>85</u> .93590	.86279	9.93884 .93889	0.86864 .86874	9.94175 .94180	0.87448 .87457	9.94458 .94163	0.88020 .88030	60 56
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8	31 32	9,93279 .93284 .93289	0.85663 .85673 .85683	9.93585 .93590 .93595	.86279 .86289	9.93884 .93889 .93894	0.86864 .86874 .86884	9.94175 .94180 .94184	0.87448 .87457 .57467	9.94458 .94468 .94468	0.88020 .88030 .88039	60 56 53
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12	31 32 33	9.93279 .93284 .93289 .93295	0.85663 .85673 .85683 .85693	9.93585 ,93590 ,93595 ,93600	.86279 .86289 .86299	9.93884 .93889 .93894 .93899	0.86864 .86874 .86884 .86893	9.94175 ,94180 ,94184 ,94189	0.87448 .87457 .87467 .87477	9.94458 .94463 .94468 .94472	0.88020 .88030 .88039 .88049	60 56 53 48
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16	31 32 33 34	9,93279 .93284 .93289 .93295 9,93300	0.85663 .85683 .85683 .85693 0.85703	9.93585 .93590 .93595 .93600 9.93605	.86279 .86289 .86289 .86299 0.86309	9.93884 .93889 .93894 .93899 9.93904	0.86864 .86874 .86884 .86893 0.86903	9.94175 .94180 .94184 .94189 9.94194	0.87448 .87457 .57467 .87177 0.87186	9.94458 .94163 .94468 .94472 9.94477	0.88020 .88030 .88039 .88049 0.88058	60 56 53 48 44
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20	31 32 33 34 35	9,93279 .93284 .93289 .93295 9,93300 .93305	0.85662 .85673 .85683 .85693 0.85703 .85713	9.93585 .93590 .93595 .93600 9.93605 .93611	.86279 .86289 .86299 0.86309 .86319	9.93884 .93889 .93894 .93899 9.93904 .93908	0.86864 .86884 .86893 0.86903 .86913	9.94175 .94180 .94184 .94189 9.94194 .94199	0.87448 .87457 .87467 .87177 0.87186 .87496	9.94458 .94463 .94468 .94472 9.94477 .94482	0.88020 .88030 .88039 .88049 0.88058 .88068	60 56 53 48 44 40
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24	31 32 33 34 35 36	9,93279 .93284 .93289 .93295 9,93300 .93305 .93310	0.85663 .85683 .85683 .85693 0.85703 .85713	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616	0.56279 .86289 .86289 .86289 0.86309 .86319 .86329	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913	0.86864 .86884 .86893 0.86903 .86913 .86923	9.94175 .94180 .94184 .94189 9.94194 .94199 .94204	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486	0.88020 .88030 .88039 .88049 0.88058 .88068 .88077	60 56 53 48 44 40 36
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28	31 32 33 34 35 36 37	9,93279 .93284 .93289 .93295 9,93300 .93305 .93310 .93315	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93621	0.30273 .86279 .86289 .86299 0.86309 .86319 .86329 .86339	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918	0.86864 .86884 .86893 0.86903 .86913 .86923 .86933	9.94175 .94180 .94184 .94189 9.94194 .94199 .94204 .94208	0.87448 .87457 .87467 .87177 0.87189 .87496 .87505 .87515	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486 .94491	0.88020 .88030 .88039 .88049 0.88058 .88068 .88077 .88086	60 56 53 48 44 40 36
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32	31 32 33 34 35 36 37 38	9,93279 ,93284 ,93289 ,93295 9,93300 ,93305 ,93310 ,93315 9,93320	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93621 9.93626	0.30233 .86279 .86289 .86299 0.86309 .86319 .86329 .86339 0.86349	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923	0.86864 .86884 .86893 0.86903 .86913 .86923 .86933 0.86912	9.94175 .94180 .94184 .94189 9.94194 .94199 .94204 .94208 9.94213	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486 .94491 9.94496	0.88020 .88030 .88039 .88049 0.88058 .38068 .88077 .88086 0.88096	56 52 48 44 40 36 32 28
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36	31 32 33 34 35 36 37 38 39	9.93279 .93284 .93289 .93295 9.93300 .93305 .93310 .93315 9.93320 .93326	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734 0.85744	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93621 9.93626 .93631	0.4228 .86279 .86289 .86299 0.86309 .86319 .86329 .86339 0.86349 .86359	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928	0.86864 .86874 .86884 .86893 0.86903 .86913 .86923 .86933 0.86912 .86952	9.94175 .94180 .94184 .94189 9.94194 .94204 .94208 9.94213 .94218	0.87448 .87457 .87467 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486 .94491 9.94496 .94500	0.88020 .88030 .88039 .88049 0.88058 .88068 .88077 .88086 0.88096	56 52 48 44 40 36 32 28 24
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40	31 32 33 34 35 36 37 38 39 40	9,93279 .93284 .93289 .93295 9,93300 .93315 .93315 9,93320 .93326 .93331	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734 .85754 .85764	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93621 9.93626 .93631	.86279 .86259 .86259 .86299 0.86309 .86319 .86339 0.86349 .86359 .86369	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93933	0.86864 .86884 .86883 0.86903 .86913 .86933 .86933 0.86912 .86932 .86962	9.94175 .94184 .94184 .94189 9.94194 .94204 .94208 9.94213 .94213 .94223	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525 .87534	9.94158 .94163 .94468 .94472 9.94477 .94482 .94491 9.94491 9.94500 .94505	0.88020 .88039 .88039 .88049 0.88058 .88068 .88077 .88086 0.88096 .88105	56 52 48 44 40 36 32 28 24 20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44	31 32 33 34 35 36 37 38 39 40 41	9.93279 .93284 .93289 .93295 9.93300 .93305 .93310 .93316 .93326 .93331 .93336	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734 .85754 .85764	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93626 .93626 .93631 .93636	0.46279 .86279 .86289 .86299 0.86309 .86319 .86339 0.86339 0.86359 .86359	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93933	0.86864 .86884 .86893 0.86903 .86913 .86923 .86932 .86912 .86952 .86962	9.94175 .94184 .94184 .94189 9.94194 .94204 .94208 9.94213 .94213 .94223	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525 .87534 .87544	9.94558 .94463 .94468 .94472 9.94477 .94486 .94491 9.94496 .94500 .94505 .94509	0.88020 .88039 .88039 .88049 0.88058 .88068 .88077 .88086 0.88096 .88105 .88115	56 52 48 44 40 36 32 28 24 20 16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 86 40 44 48	31 32 33 34 35 36 37 38 39 40 41 42	9.93279 .93284 .93289 .93295 .93300 .93305 .93315 9.93320 .93326 .93331 .93336	0.85663 .85693 .85693 .85693 0.85703 .85713 .85734 0.85744 .85754 .85764	9,93585 ,93590 ,93595 ,93696 9,93605 ,93611 ,93616 ,93621 9,93636 ,93631 ,93636 ,93644 9,93646	0.4328 .86279 .86289 .86299 0.86309 .86319 .86339 0.8349 .86359 .86369 .86369	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93933 9.9393 9.93943	0.86864 .86874 .86884 .86993 0.86903 .86913 .86933 0.86912 .86952 .86962 .86962 0.86982	9.94175 .94180 .94184 .94189 9.94194 .94204 .94208 9.94213 .94213 .94223 .94223	0.87448 .87457 .87467 .87177 0.87186 .87496 .87505 .87515 0.87525 .87534 .87554 .87563	9.94158 .94163 .94468 .94472 9.94477 .94486 .94491 9.94496 .94500 .94505 .94509 9.94514	0.88020 .88039 .88039 .88049 0.88058 .88068 .88077 .88086 0.88996 .88105 .88115	60 56 52 48 44 40 36 32 28 24 20 16
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52	31 32 33 34 35 36 37 38 39 40 41 42 43	9.93279 .93284 .93289 .93295 9.93306 .93305 .93316 .93315 9.93320 .93326 .93336 .93336 .93341 .93346	0.85663 .85673 .85683 .85693 0.85703 .85713 .85724 .85734 .85764 .85764 .85774 0.85785	9.93585 .93590 .93595 .93690 9.93605 .93611 .93616 .93621 9.93636 .93631 .93636 .93641 9.93646 .93651	0.4328 .56279 .86259 .86259 0.86309 0.86319 .86339 0.86359 .86369 .86379 0.86389	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93938 9.93943 .93948	0.86864 .86874 .86884 .86893 0.86903 .86913 .86923 .86933 0.86912 .86962 .86962 .86972 0.86982	9.94175 .94180 .94184 .94189 9.94194 .94199 .94204 .94208 9.94213 .94223 .94223 .94223 .94232 .94232 .94232	0.87448 .87457 .87467 .87427 0.87486 .87496 .87505 .87515 0.87525 .87534 .87544 .87554 0.87563	9.94158 .94163 .94468 .94472 9.94477 .94482 .94486 .94491 9.94500 .94505 .94509 9.94514 .94519	0.88020 .88030 .88039 .88049 0.88058 .38068 .88077 .88086 0.88096 .88105 .88115 .88114 0.88133	60 56 52 48 44 40 36 32 28 24 20 16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52	31 32 33 34 35 36 37 38 39 40 41 42 43	9.93279 .93284 .93289 .93295 9.93300 .93305 .93310 .93315 9.93320 .93326 .93331 .93336 9.93341 .93346 9.93351	0.85663 .85683 .85683 .85693 .85713 .85713 .85724 .85734 .85764 .85764 .85774 0.85785 0.85785	9,93585 ,93590 ,93595 ,93695 ,93605 ,93611 ,93616 ,93626 ,93631 ,93636 ,93641 9,93646 ,93651 9,93656	.86279 .86279 .86289 .86299 .86339 .86339 .86339 .86359 .86369 .86379 0.86389 0.86409	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93933 .93938 9.93943 9.93945 9.93952	0.86864 .86874 .86884 .86893 .86993 .86913 .86933 .86932 .86952 .86962 .86962 .86982 0.86981 0.86981	9.94175 .94180 .94184 .94189 9.94194 .94199 .94204 .94208 9.94213 .94218 .94223 .94227 9.94232 .94237 9.94232	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525 .87534 .87544 .87554 0.87563 0.87563	9.94158 .94163 .94468 .94472 9.94477 .94482 .94486 .94491 9.94500 .94505 .94506 .94509 9.94519 9.94519	0.88020 .88030 .88039 .88049 0.88058 .88068 .88077 .88086 0.88996 .88105 .88115 .88124 0.88133 0.88143	60 56 52 48 44 40 36 32 28 24 20 16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52	31 32 33 34 35 36 37 38 39 40 41 42 43	9.93279 .93284 .93289 .93295 9.93300 .93305 .93310 .93315 9.93320 .93326 .93331 .93336 9.93341 .93346 9.93351	0.85663 .85683 .85683 .85693 .85713 .85713 .85724 .85734 .85764 .85764 .85774 0.85785 0.85785	9,93585 ,93590 ,93595 ,93695 ,93605 ,93611 ,93616 ,93626 ,93631 ,93636 ,93641 9,93646 ,93651 9,93656	.86279 .86279 .86289 .86299 .86339 .86339 .86339 .86359 .86369 .86379 0.86389 0.86409	9.93884 .93889 .93894 .93899 9.93904 .93908 .93913 .93918 9.93923 .93928 .93933 .93938 9.93943 9.93945 9.93952	0.86864 .86874 .86884 .86893 .86993 .86913 .86933 .86932 .86952 .86962 .86962 .86982 0.86981 0.86981	9.94175 .94180 .94184 .94189 9.94194 .94204 .94208 9.94213 .94223 .94227 9.94232 .94237 9.94242 .94242	0.87448 .87457 .87467 .87477 0.87486 .87496 .87505 .87515 0.87525 .87534 .87544 .87554 0.87563 0.87563	9.94158 .94163 .94468 .94472 9.94477 .94482 .94486 .94491 9.94500 .94505 .94506 .94509 9.94519 9.94519	0.88020 .88030 .88039 .88049 0.88058 .88068 .88077 .88086 0.88996 .88105 .88115 .88124 0.88133 0.88143	60 56 52 48 44 40 36 32 28 24 20 16
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 43 44	9,93279 93284 93289 93289 9,93200 9,3305 9,93310 9,3315 9,93320 9,9331 9,9331 9,93341 9,93351 1,44	0.85663 .85683 .85683 .85693 0.85703 .85713 .85724 .85734 0.83744 .85754 .85764 .85774 0.85785 0.85885 0.85885	9.93585 .93590 .93595 .93600 9.93605 .93611 .93616 .93621 9.93636 .93641 9.93646 9.93656 9.93656	0.4628 .86279 .86289 .86299 .86319 .86319 .86339 0.86339 0.86359 .86379 0.86389 0.86399 0.86409	9,93884 ,93889 ,93894 ,93899 9,93904 ,93918 9,93918 9,93923 ,93928 ,93933 9,93938 9,93943 9,93943 9,93952	0.86864 .86874 .86884 .86893 0.86903 .86913 .86933 0.86912 .86952 0.86962 0.86962 0.86982 0.86984 0.86984	9.94175 .94180 .94184 .94189 9.94194 .94204 .94208 9.94213 .94223 .94227 9.94232 .94237 9.94242 .94242	0.87448 .87457 .57467 .87477 0.87186 .87496 .57505 .87515 0.87531 .87534 .87554 .87554 0.87555 0.875573 0.87582	9.94458 .94463 .94463 .94462 9.94477 .94482 .94486 .94491 9.94500 .94500 .94505 .94509 9.94519 9.94519 9.94523 .44h	0.88020 .88030 .88049 0.88058 .88068 .88067 .88066 .88105 .88115 .88124 0.85133 0.85133 0.85133	60 56 52 48 44 40 36 32 28 24 20 16 12 8
8         17         9,93367         5,8535         93671         86438         9,9967         ×7630         9,4266         .87621         9,9437         8,8180         5.2           16         49         9,93377         0,8586         9,3681         0,8648         9,39372         0,87030         9,9426         0,87621         9,94346         0,88190         48           20         50         1,93387         8,5366         9,3681         0,86488         9,3992         8,7000         9,94250         8,7640         9,94516         0,88199         4           24         51         9,3387         8,5876         9,3361         86418         9,3982         8,7000         9,94270         8,7640         9,9450         8,88190         40           23         52         9,3392         8,5876         9,3691         86488         9,3991         8,7079         9,4250         8,7649         9,4550         8,8819         40           24         51         9,3392         8,5896         9,666         86488         9,3991         8,7079         9,4250         8,7659         9,4560         8,8827         32           25         33         9,93397         0,5556         9,9370	4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 40 41 42 43 44	9,93279 93284 93289 93295 9,93300 9,3305 9,93310 9,93315 9,93320 9,93331 9,93336 9,93341 9,93351 1,4h	0.85662 .85683 .85683 .85683 .85693 .85703 .85713 .85714 .85754 .85754 .85754 .85754 .85785 .85785	9.93585 9.93590 9.93595 9.93605 9.93605 9.93611 9.93626 9.93621 9.93626 9.93631 9.93646 9.93651 9.93656 14h	0.46288 .86279 .86299 0.86309 .86309 .86339 0.86349 .86359 .86359 .86379 0.86389 0.86499 0.86499	9,93884 ,93889 ,93894 ,93899 9,93904 ,93918 ,93918 9,93923 ,93928 ,93938 9,93943 ,93943 ,93943 ,93945 2	0.86864 .86584 .86584 .86593 .86903 .86912 .86952 .86962 .86972 0.86982 .869691 0.57001	9.94175 94180 .94184 .94189 9.94194 .94199 .94204 .94203 .94213 .94223 .94227 9.94232 .94237 9.94243 <i>Ith</i>	0.87448 .87457 .87457 .87457 .87457 0.87486 .87505 .87515 0.87525 .87534 .87554 0.87553 0.87582 4.7m	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486 .94491 9.94450 .94500 .94500 .94509 9.94514 .94519 9.94523 <i>I.j.h</i>	0.88020 .88030 .88030 .88045 .88068 .88068 .88077 .88105 .88105 .88115 .88115 .88124 0.88133 .88143	60 56 52 48 44 40 36 32 28 24 20 16 12 8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 43 44	9.93279 9.93284 9.93289 9.93295 9.93300 9.93301 9.93315 9.93320 9.93341 9.93320 9.93341 9.93351 14th 9h 3m 9.93356	0.85663 .85683 .85683 .85683 0.85703 0.85713 .85714 .85744 .85754 .85754 .85774 0.85785 0.85805 5774 0.85805	9,93585 ,93590 ,93590 ,93595 ,93601 ,93611 ,93626 ,93631 ,93636 ,93641 ,93651 ,93656 ,93651 ,93656 ,93656 ,93656 ,93656	0.46298 .86279 .86299 0.86309 .86319 .86329 .86339 0.86349 .86379 0.86389 0.86409 5.377	9.93884 .93889 .93894 .93899 9.93904 .93908 9.93913 .93918 9.93923 .93938 9.93948 9.93943 9.93948 9.93949 9.93949 9.93949	0.56864 .56574 .86584 .86584 .86903 0.56903 .86913 .86933 0.56912 .86952 0.66972 0.7691 0.7001 4970 0.57011	9.94175 .94180 .94184 .94189 9.94194 .94208 9.94213 .94223 .94223 .94237 9.94242 1.45 9.94242 9.94242 9.94242	0.87448 .87457 .87467 .87467 .87186 .87496 .87595 .87515 0.87525 .87544 .87554 .87554 .87573 0.87582 4.77	9.94458 94463 .94468 .94472 9.94477 .94486 .94496 .94506 .94506 .94509 .94509 9.94514 .94519 9.94523 .94599 9.9454 .94519 9.94523	0.88020 .88030 .88030 .88040 0.88058 .88068 .88067 .88105 .88105 .88115 .88124 0.88133 .88143 0.88152 4177	60 56 52 48 44 40 36 32 28 24 20 16 12 8 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 30 40 44 48 52 56 8	31 32 33 34 35 36 37 39 40 41 42 43 44	9.93279 9.3284 9.93289 9.93295 9.93300 9.3305 9.93310 9.3316 9.93311 9.93336 9.93351 14h 9h sm 9.93362 9.93362	0.85663 .85683 .85683 .85683 .85703 0.85713 .85714 .85734 0.83744 .85764 .85774 0.85785 0.85805 577 0.85805	9,93585 93590 93590 9,93605 9,93605 9,93611 9,93626 9,93631 9,93636 9,93636 9,93656 1,4h 9,93666 9,93666	0.46298 .56279 .56299 0.56309 .56319 .56329 .56339 0.56349 .56359 0.56359 0.56409 5.377 0.86419	9,93884 ,93889 ,93894 ,93899 9,93904 ,93908 ,93913 ,93918 9,93933 ,93938 9,93943 9,93943 1,4h 9h 11m 9,93952 1,93962	0.86864 .86874 .86884 .86983 0.86903 .86912 .86932 .86962 0.86962 0.86972 0.86991 0.87001 3377 0.87011	9,94175 94180 ,94184 ,94189 9,94194 ,94199 9,94208 9,94213 ,94223 ,94227 9,94237 9,94242 14h 9,15m 9,94246 ,94246 ,9426	0.87448 .87457 .87467 .87467 .87467 .87496 .87505 .87515 0.87525 .87514 .87544 .87554 .87554 0.87563 0.87582 .77m 138°	9,94458 94463 94468 94472 9,94477 94482 94496 94490 94505 94505 94509 9,94514 9,94523 1,46 94 19m 9,94528 9,94528	0.88020 .88030 .88039 0.88058 .88068 .88068 .88077 .88086 0.88966 .88105 .88115 .88124 0.88133 0.88152 4177 0.88152	56 52 48 44 40 36 28 22 24 20 16 12 8 4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 36 40 44 48 52 56 8	31 32 33 34 35 36 37 38 39 40 41 42 43 44 44	9.93279 9.93284 9.3289 9.3295 9.93300 9.3310 9.3315 9.93326 9.93341 9.93346 9.93341 14h 9h gm 9.93356 9.93367	0.85663 .85673 .85693 .85693 0.85703 .85713 .85734 0.85754 .85754 .85764 .85776 0.85855 57m 135° 0.85815 .85815 .85833	9,93585 ,93590 ,93590 9,93605 ,93616 ,93616 ,93631 ,93636 ,93631 9,93646 ,93651 9,93666 <i>14h</i> 9,93661 9,93661 9,93661	0.46298 .56279 .56259 .66299 0.56309 .56319 0.56319 0.56359 0.56359 0.56399 0.56409 5.37 0.56419 0.56419 0.56419 0.56419	9.93884 .93889 .93899 .93894 .93998 .93913 .93918 .93928 .93933 .93948 .93948 .93948 .93948 .93957 .93957 .93957 .93967	0.56864 .56574 .86584 .66903 0.66903 .86933 .86933 0.86942 .86952 0.86962 0.86982 .86970 0.57001 \$200 \$200 \$200 \$200 \$200 \$200 \$200 \$	9.94175 .94180 .94184 .94189 9.94194 .94204 .94208 9.94218 .94223 .94227 9.94232 .94237 9.94242 .13h .94256 .94256 .94256 .94256	0.87448 .87457 .87467 .87467 .87477 0.87186 .87505 .87505 .87531 .87534 .87534 .87563 0.87582 .97573 0.87582 .97573 .87663 .87663 .87663 .87663 .87663	9.94458 .94463 .94463 .94462 .94472 9.94477 .94482 .94491 .94500 .94505 .94505 .94514 .94519 .94519 .94528 .94533 .94533	0.88020 .88030 .88039 .88049 0.88058 .88077 .88086 0.88105 .88115 .88114 0.88152 41m 139° 0.88162 .88171	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   4   5   5   5   5   5   5   5   5   5   5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 56 40 44 48 52 56 8 12	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	9,93279 93284 93289 93289 93289 9,3295 9,3300 93310 93312 93326 9,93321 14h 9,93351 14h 9,93356 9,93362 93362 93367 93367	0.85662 .35673 .85683 .85683 .85703 .85713 .85724 .85754 .85754 .85754 .85757 0.85785 0.85805 0.85805 0.85805	9.93585 .93590 9.3590 9.3590 9.3600 9.3601 9.3616 9.3621 9.3631 9.3646 9.3646 9.3656 14h 9.93656 1.94 9.93656 9.93656 9.93656 9.93656	0.4628 .56279 .56259 .56299 .56309 .56319 .56339 0.53349 .56359 .56359 .56359 0.56409 0.56409 0.56419 0.56419 .86429 .86438	9.93884 .93889 .93894 .93899 .93998 .93913 .93918 .93918 .93918 .93938 .93938 .93938 .93938 .93938 .93943 .93952 	0.86864 .86874 .86884 .86893 .86993 .86993 .86933 0.86932 .86952 .86952 .86972 0.86982 .86970 0.857001 3.77001 3.77001 .87001 .87001 .87001	9.94175 .94180 .94184 .94189 9.94194 .94208 9.94218 .94227 9.94232 .94227 9.94242 .14h .9456 .94251 .94251 .94251 .94251 .94255	0.87448 .87457 .87467 .87477 .87477 0.87186 .87505 .87515 0.87515 .87553 0.87563 .87553 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582 .7788 0.87582	9.94458 .94163 .94468 .94472 .9.94477 .94486 .94491 .94500 .94500 .94500 .94509 .94509 .94509 .94509 .94509 .94503 .94503 .94533 .94533 .94533 .94537 .94537	0.88020 .88030 .88039 .88049 0.88058 .88068 .88066 .88105 .88115 .88124 0.88133 .88143 0.88152 41m 0.88162 .88171 .88180	60   56   52   48   44   40   26   28   24   20   16   12   8   4   5   5   5   5   5   5   5   5   5   5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 24 28 32 30 40 44 48 52 56 8 0 4 4 8 12 16 16 16 16 16 16 16 16 16 16 16 16 16	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	9,93279 93284 93289 93289 93295 9,93300 93310 93315 9,93326 9,93331 1,4h 9,93351 9,93362 9,93362 9,93367 9,93372	0.85663 .85673 .85693 .85693 .85703 .85713 .85714 .85754 .85764 .85785 .85795 0.85855 .85995 0.85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885	9,93585 ,93590 ,93590 ,93600 9,93605 ,93616 ,93621 9,93636 ,93646 ,93646 ,93656 ,93646 ,93656 ,93666 ,93666 ,93666 ,93666 ,93667 ,93667 ,93667 ,93667 ,93667	0.4629 .56279 .56299 .56299 .56399 .56329 .56339 .56359 .56359 .56369 0.56499 5.37 0.86499 .56418 0.86418	9.93884 .93889 .93899 .93896 .93998 .93913 .93918 .93928 .93933 .93943 .93943 .93945 .944 .956 .93952 .93952 .93967 .93967 .93967 .93972 .93972 .93972	0.86864 .86874 .86893 .86993 .86993 .86933 .86933 .86932 .86962 .86962 .86972 0.57001 .57001 .57011 .57030 .57040	9.94175 .94180 .94184 .94189 9.94194 .94208 9.94213 .94223 .94237 9.94240 -94237 9.94240 9.94240 9.94240 9.94240 9.94240 9.94240 9.94240 9.94240 9.94261 9.94261	0.87448 .87457 .87467 .87477 0.87486 .87505 .87505 .87515 0.87525 .87534 .87554 .875563 .87573 0.87582 47m 188° 0.87592 .87611 .87611 0.87692 .87611	9.94458 .94463 .94463 .94472 9.94477 .94486 .94491 9.94496 .94500 .94500 .94501 9.94519 9.94523 .14h .94523 .94528 .94537 .94542 .94542	0.88020 .88039 .88049 .88049 .88049 0.88058 .88068 .88105 .88105 .88115 .88124 0.88152 41m 139° 0.88162 .88171 .88171 .88171 .88171 .88171 .88171	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   56   57   56   57   57   57   57   57   57   57   57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 8 12 16 20 44 48 52 56 40 44 48 8 12 16 20	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	9.93279 9.93284 9.93289 9.92295 9.93305 9.93310 9.93312 9.93326 9.93331 9.93336 9.93341 9.93351 14h 9h 3m 9.93352 9.93362 9.93362 9.93367 9.93377	0.85662 .83673 .85693 .85693 .85703 .85703 .85724 .85754 .85754 .85754 .85757 0.85805 .777 0.85805 .777 0.85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .85805 .8	9.93585 .93590 9.35905 9.9500 9.93601 9.93616 9.93621 9.93626 9.93631 9.93641 9.93656 9.93651 9.93666 9.93661 9.93666 9.93666 9.93666 9.93666 9.93666 9.93666	0.86299 .86299 .86299 .86309 .86309 .86319 .86329 .86339 .86359 .86379 0.86389 .86389 .86409 .86419 .86429 .86423 .86418 0.86458 .86468	9.93884 .93889 9.93894 .93898 9.93993 9.93993 9.93923 9.9393 9.93943 9.93943 9.93952 19.93957 9.93962 9.93962 9.93962 9.93962 9.93967 9.93967 9.93967	0.86864 .86874 .86893 .86903 .86903 .86912 .86952 .869672 0.86982 .869672 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86982 .86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.86973 0.8	9.94175 .94184 .94184 .94184 .94194 .94194 .94204 .94213 .94213 .94227 .94237 .94237 .94242 .94251 .94251 .94256 .94265 .94265	0.87448 .87457 .87467 .87467 .87486 .87505 .87505 .87505 .87505 .87515 0.87525 .87534 .87554 0.875582 4.77 0.87582 .87602 .87602 .87602 .87602 .87630 .87630 .87630 .87630	9.94458 .94468 .94468 .94472 9.94477 9.94486 .94500 .94500 .94500 .94509 9.94514 .94523 .94523 .94533 .94533 .94533 .94534 .94542 .94542 .94542 .94542 .94542 .94542 .94546 .94546 .94546 .94546 .94546 .94546 .94546 .94546 .94546 .94546 .94554	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88105 .88115 .88124 0.88133 0.88152 4177 0.88162 .88171 .88180 .88190	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   4   56   56   52   28   24   20   36   52   52   52   52   52   52   52   52
86         54         9.3403         8.5906         9.9306         8.8508         9.4001         8.7099         9.4289         8.7678         9.4370         8.8216         2.4           4.5         55         9.3408         8.5916         9.3711         8.6518         9.4006         8.7109         9.4294         8.7688         9.4574         8.8255         20           4.7         56         9.93113         8.5926         9.93716         8.6528         9.9011         8.7118         9.4299         8.7697         9.4579         8.8265         16           4.8         57         9.93418         0.85937         9.9271         0.86538         9.94016         0.87128         9.9133         0.87707         9.94583         0.88244         1.2           5.2         58         9.34283         8.53947         9.92726         8.6518         9.94021         8.7138         9.4308         8.7716         9.4588         8.8284         8           66         59         9.93428         8.53537         9.93726         0.86568         9.9420         0.87157         9.94318         0.8735         9.94597         0.88302         0	\$\frac{4}{8}\$\frac{1}{16}\$\frac{20}{24}\$\frac{28}{32}\$\frac{32}{56}\$\frac{40}{44}\$\frac{44}{48}\$\frac{52}{56}\$\frac{5}{8}\$\frac{1}{16}\$\frac{20}{24}\$	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	9.93279 9.93284 9.93289 9.93295 9.93300 9.93310 9.93311 9.93336 9.93331 14h 99.93351 14h 99.93357 9.93356 9.93367 9.93357 9.93372 9.93377	0.85662 .35673 .35683 .55693 0.85713 .55713 .55724 .85754 .85764 .85774 .85775 .85795 0.85855 .5788 0.85855 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85895 .85896 .85896	9.93585 .93590 9.3590 9.93605 9.93601 9.93611 9.93626 9.93631 9.93641 9.93640 9.93641 9.93661 14h 9.7m 9.93661 9.93661 9.93661 9.93681 9.93681	0.46298 .56279 .56299 .56299 0.56309 0.56319 .56339 0.56359 0.56359 0.56419 .56419 .56418 0.56418 0.56418	9,93884 ,93889 9,93894 9,93908 ,93908 9,93933 9,9393 9,9393 9,9395 1,4h 9h 11m 9,93952 1,2h 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952 9,93952	0.56864 .56874 .56884 .86893 .86913 .86913 .86912 .86952 .86962 .86962 .86962 .86972 0.57001 .57001 .57001 .57001 .57000 .57000 .57000 .57000 .57000 .57000	9.94175 .94184 .94189 9.94194 .94199 .94204 .94203 .94223 .94223 .94223 .94237 .94240 .94237 .94240 .94256 .94256 .94270 .94270	0.87448 .87457 .87467 .87496 .87496 .87505 .87505 .87505 .87505 .87554 .87554 .87554 .875582 .87573 .87582 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692	9.94458 .94463 .94468 .94472 9.94477 .94482 .94486 .94491 9.94506 .94506 .94506 .94506 .94507 .94519 .94519 .94528 .94528 .94537 .94537 .94537 .94537 .94537 .94537 .94551 .94551 .94551 .94551 .94551	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88068 .88105 .88115 .88124 0.88185 41m 130° 0.88162 41m 130° 0.88162 .88171 .88171 .88171 .88171 .88180 .88199 .88209	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   4   5   5   5   5   5   5   5   5   5   5
40         55         9.93408         8.85916         9.93711         8.8518         9.94006         8.7109         9.94294         8.7688         9.94574         8.8255         20           44         56         9.93413         8.5926         9.93710         8.6528         9.94010         8.7118         9.94299         8.7697         9.94570         8.88265         16           48         57         9.93418         0.85937         9.93721         0.86588         9.94010         0.87128         9.94303         0.87707         9.94583         0.88271         12           52         58         9.93428         8.85957         9.9371         8.8558         9.9021         8.7188         9.94308         8.7716         9.94588         8.8284         8           60         60         9.93433         0.8367         9.93736         0.86568         9.94020         0.87157         9.94318         0.87735         9.94597         0.88302         0	\$\frac{4}{8}\$ 12 16 20 44 48 52 56 \$\frac{1}{2}\$ 25 60 20 42 42 28	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 45 45 50 50 50 50 50 50 50 50 50 50 50 50 50	9.93279 9.93284 9.93289 9.93295 9.93300 9.3305 9.93310 9.93315 9.93320 9.93331 14h 9.93356 9.93362 9.93362 9.93372 9.93372 9.93372 9.93372 9.93372 9.93372	0.85662 .85673 .85683 .85683 .85703 .85703 .85772 .85772 .85734 .85754 .85754 .85754 .85756 .85805 .7777 0.85805 .7777 0.85805 .85805 .85805 .85805 .85806 .85885 .85886 .85886	9.93585 .93590 .93595 .93600 .93601 .93611 .93626 .93631 .93636 .93631 .93646 .93651 .947 m .93666 .93671 .93666 .93671 .93666 .93671 .93666 .93671 .93666 .93671 .93666 .93671 .93666 .93671 .93666 .93671 .93676 .93676 .93686 .93691 .93686 .93691	0.46295 .86279 .86299 .86299 .86399 .86339 .86339 .86339 .86369 .86399 .86399 0.86419 .86419 .86419 .86419 .86419 .86418 .86418 .86418 .86418 .86418 .86418	9,93884 ,93889 ,93894 ,93998 ,93918 ,93918 ,93918 ,93923 ,93928 ,93943 ,93948 ,93948 ,93948 ,93948 ,93948 ,93948 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,93962 ,	0.86864 .86874 .86884 .86893 0.86903 .86913 .86933 0.86912 .86952 0.86972 0.87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87001 .87000 .87000 .87000 .87000 .87000	9.94175 9.94180 9.94184 9.94194 9.94208 9.94213 9.94223 9.94237 9.94232 14h 9.94256 9.94256 9.94256 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266 9.94266	0.87448 .87457 .87467 .87486 .87486 .87505 .87505 .87505 .87505 .87573 .87573 .87573 .875782 .87602 .87602 .87602 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87693 .87693 .87693 .87694 .87649 .87659	9.94458 .94463 .94463 .94463 .94472 .9.94477 .9.4482 .94486 .94491 .94505 .94503 .94505 .94504 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503	0.88020 .88030 .88039 .88049 0.88058 .88067 .88066 0.88996 .88105 .88115 .88115 .88143 0.88152 41m 139° 0.88162 .88171 .881819 0.88169 .88190 .88190 .88190 .88190 .88190	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   56   57   56   57   56   57   56   57   56   57   56   57   57   57   57   57   57   57   57
44         56         9.93118         0.55926         9.93716         0.86528         9.9010         8.7118         9.4299         8.7697         9.4579         8.88265         16           48         57         9.93118         0.85837         9.92721         0.86538         9.94016         0.87128         9.9303         0.87707         9.4537         0.88265         16           52         58         9.93128         8.55941         9.9726         86518         9.91021         87138         9.94808         8.7716         9.9588         8.88284         8           56         59         9.9428         8.53957         9.95726         9.9588         9.99020         8.77148         9.94318         0.87736         9.94508         8.8293         4           60         60         9.93432         0.93506         9.93726         0.9688         9.99020         0.7157         9.94318         0.87736         9.94508         9.99020         0.87157         9.94318         0.87332         9.94508         9.99020         0.87157         9.94318         0.87736         0.85302         0	\$ 12 20 24 40 44 48 52 56 \$ 0 4 8 8 12 16 20 24 8 8 12 16 20 24 8 8 32 32	31 32 33 34 35 36 37 38 39 41 42 43 44 45 45 46 47 48 49 50 50 50 50 50 50 50 50 50 50 50 50 50	9.93279 9.93284 9.93289 9.93295 9.93300 9.93305 9.93310 9.93351 1.4h 99.93351 9.93362 9.93362 9.93377 9.93387 9.93387 9.93387 9.93387	0.85662 .83673 .85683 .85683 .85783 .85713 .85714 .85754 .85744 .85764 .85774 .85785 .85785 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85885 .85886 .85886 .85886 .85886	9.93585 .93590 9.3590 9.93605 9.93601 9.93616 .93621 9.93636 9.93641 9.93650 14h 9.93650 9.93650 9.93651 9.93650 9.93651 9.93651 9.93651 9.93651 9.93696 9.93696	0.46208 .56279 .56299 .56299 0.56319 .56319 .56339 0.56349 .56359 0.56359 0.56458 0.56429 .56438 0.56458 0.56458 0.56458	9,93884 ,93889 ,93891 ,93908 ,93918 ,93918 ,93918 ,93918 ,93948 ,93948 ,93948 ,93952 ,14h ,96 H Im ,93967 ,93967 ,93977 ,93967 ,93977 ,93978 ,93987 ,93987	0.56864 .56574 .56584 .66593 .66903 .86913 .86933 .86912 .86952 .86962 .86962 .86972 .86972 .86972 .86972 .86972 .86973 .8701 .8701 .8701 .8701 .8701 .8701 .87050 .87050 .87070 .87070 .87070	9.94175 .94184 .94189 9.94194 .94199 .94204 .94204 .94223 .94223 .94227 .9.94242 .9.94242 .9.94242 .9.94246 .9.94265 .9.94265 .9.94265 .9.94265 .9.94265 .9.94275 .9.94280 .9.94280 .9.91288	0.87448 .37457 .37467 .37467 .87197 0.87186 .37305 .37305 .37305 .375325 .37534 .875544 .875544 .875544 .875544 .875573 0.87582 4.70 188° 0.87582 .37602 .37602 .37610 .37630 .37649 .37649 .37649 .37649 .37659	9.94458 .94463 .94468 .94472 9.94477 .94486 .94491 9.94496 94500 94500 9.94501 9.94510 9.94523 1.4h 9h Igm 9.94528 .94537 .94537 .94537 .945466 .94566 .94566 .94566	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88105 .88105 .88124 0.88182 41m 133° 0.88182 41m 133° 0.88182 .88199 .88209 .88218 .88227 0.88228	60   56   52   48   44   40   36   32   28   24   20   16   12   8   4   56   52   8   4   4   56   52   52   52   52   52   52   52   52
48         57         9.93418 <b>0.85937</b> 9.93721 <b>0.86538</b> 9.94016 <b>0.87128</b> 9.9330 <b>0.87707</b> 9.94833 <b>0.88271</b> 1.2           52         58         9.9423 <b>8.85947</b> 9.93726 <b>8.86518</b> 9.94021 <b>8.7138</b> 9.9438 <b>8.87716</b> 9.9458 <b>8.88284</b> 8           66 <b>59</b> 9.9323 <b>8.85957</b> 9.93731 <b>8.8558</b> 9.94620 <b>8.7118</b> 9.94318 <b>8.7726</b> 9.4593 <b>8.88293</b> 4           60 <b>60 9.93433 0.85967 9.93726 0.86568 9.94020 0.87157 9.9438 0.87735 9.94597 0.88302</b> 0	\$\frac{4}{8}\frac{1}{16}\frac{20}{24}\frac{24}{48}\frac{32}{32}\frac{56}{56}\frac{5}{20}\frac{4}{28}\frac{20}{24}\frac{23}{23}\frac{23}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}{36}\frac{36}	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 50 51 52 53 53 54	9.93279 9.93284 9.93289 9.93289 9.93305 9.93305 9.93316 9.93326 9.93321 14h 9.93351 14h 9.93356 9.93362 9.93362 9.93377 9.93382 9.93377 9.93382 9.93387 9.93397 9.93397	0.85662 .33673 .35683 .55693 .557693 .55713 .57714 .57744 .55774 .857764 .857764 .857764 .857765 .85805 .777 0.85805 .85805 .85805 .85805 .85806 .85806 .85806 .85806 .85806 .85806	9.93585 .93590 9.3590 9.93605 9.93605 9.93616 9.9361 9.93636 9.93641 9.93656 14h 9.93666 9.93671 9.93661 9.93676 9.93676 9.93676 9.93676 9.93676 9.93676 9.93676 9.93676 9.93676 9.93676 9.93696 9.93701	0.46295 .86279 .86299 .86299 .86399 .86319 .86339 .86339 0.86349 .86389 0.86409 0.86419 .86429 .86429 .86429 .86488 .86488 .86488 .86488 .86488	9,93884 ,93889 ,93891 ,93898 ,93918 ,93918 ,93918 ,93923 ,93928 ,93943 ,93943 ,93945 ,93945 ,93962 ,93962 ,93962 ,93962 ,93967 ,93962 ,93967 ,93967 ,93967 ,93969 ,93996	0.86864 .86874 .86884 .86893 .86933 .86933 .86933 .86932 .86962 .86972 .86982 .86970 0.87001 .37001 .37001 .37001 .37001 .37001 .37001 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 .37000 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.94184 .94184 .94184 .94189 .94194 .94208 .94213 .94223 .94227 .94223 .94227 .94232 .94257 .94256 .94256 .94256 .94276 .94275 .94275 .94275 .94288 .94275 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94278 .94288	0.87448 .374437 .74467 .75177 .0.87186 .87596 .87515 .87515 .87515 .87515 .875163 .87563 .87582 .77602 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692 .87692	9.94458 .94463 .94463 .94472 .9.94477 .9.4486 .94491 .9.94505 .94505 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 .94503 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32   28   22   24   20   16   12   8   4   56   57   56   57   44   40   56   57   56   57   56   57   56   57   57   57   57   57   57   57   57
52         58         9.93428         8.5947         9.9726         8.85185         9.1021         87138         9.94308         8.7716         9.1588         8.85284         8           66         60         9.93433         0.8567         9.93726         0.96588         9.99020         0.87148         9.94313         0.87726         9.94503         8.88293         4           60         60         9.93433         0.8566         9.92726         0.94508         9.99020         0.87157         9.94318         0.87735         9.94507         0.88302         0	\$\frac{4}{8}\$\frac{1}{12}\$\frac{1}{16}\$\frac{20}{24}\$\frac{28}{8}\$\frac{3}{12}\$\frac{1}{16}\$\frac{20}{24}\$\frac{28}{28}\$\frac{32}{36}\$\frac{20}{24}\$\frac{28}{28}\$\frac{32}{40}\$\frac{24}{40}\$\frac{28}{40}\$\frac{32}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$\frac{40}{40}\$40	31 32 33 34 35 36 37 38 40 41 42 43 44 45 45 45 45 50 55 55 55 55	9.93279 9.93284 9.93289 9.93295 9.93305 9.93305 9.93315 9.93311 9.93351 1.4h 9.93351 9.93362 9.93367 9.93367 9.93377 9.93379 9.93377 9.33897 9.93397 9.3389397 9.3389397 9.3389397 9.3389397	0.\$5662 .\$3673 .\$5683 .\$5683 .\$57693 .\$5713 .\$5724 .\$5734 .\$5734 .\$5734 .\$5764 .\$5755 .\$5795 0.\$5805 .55805 .55805 .55805 .55805 .55805 .55805 .85806 .85806 .85806 .85806 .85896 .85896	9.93585 .93590 9.3590 9.93605 9.93611 9.93616 9.93626 9.93631 9.93636 9.93611 9.93656 1.4h 9.93666 9.93671 9.93681 9.93681 9.93691 9.93696 9.93701 9.93701	0.46298 .56279 .56299 .56299 .56319 .56329 .56339 .56359 .56399 0.56439 .56419 .56438 .56418 .56458 .56458 .56458 .56458 .56458 .56458 .56458 .56458 .56458 .56458 .56458	9,93884 ,93889 ,93894 ,93998 ,93918 ,93918 ,93918 ,93918 ,93918 ,93948 ,93948 ,93948 ,93952 ,14h ,9411m ,93967 ,93977 ,93972 ,93972 ,93973 ,93987 ,93987 ,93987 ,93987 ,93987 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,93999 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9399 ,9	0.56864 .56574 .56584 .66593 0.66903 .69913 .86932 .86952 .86962 0.57001 .57011 .57030 .57011 .57030 .57040 0.57050 .57060 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 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.94280 9.91284 .94289 .94289	0.87448 .37457 .37467 .87197 0.87186 .57505 .57505 .57505 .57503 .57514 .57544 .57544 .57544 .57554 .575592 .57602 .57602 .57602 .57602 .57602 .57649 .57649 .57669 .57669 .57678 .57678	9.94458 .94463 .94468 .94472 9.94477 9.94486 .94496 9.94505 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504 9.94504	0.88020 .88030 .88039 .88049 0.88058 .88068 .88067 .88105 .88105 .88143 0.88152 41m 139° 0.88162 .88162 .88199 .88218 .88227 0.88237 .882216 .882216	60   56   52   48   44   40   16   12   8   4   40   16   15   16   16   16   16   16   16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$ 12 16 20 24 48 52 56 \$ 0 4 44 48 52 56 \$ 24 28 28 28 28 28 28 28 28 28 28 28 28 28	31 32 33 34 35 36 37 38 39 41 42 43 44 45 45 45 55 55 55 56	9.93279 9.93284 9.93289 9.32295 9.93300 9.93310 9.93311 9.93314 9.93346 9.93356 9.93356 9.93357 9.93357 9.93377 9.93372 9.93377 9.93372 9.93377 9.93403 9.93403 9.93403	0.85662 .35673 .35683 .55693 0.85703 .85713 .85724 .85754 .85764 .85774 .85775 0.85855 57m 135° 0.85815 .85895 .85895 .85896 .85896 .85896 .85896 .85896 .85896 .85896	9.93585 93590 93595 93600 9.93601 9.93611 9.93626 9.93631 9.93636 9.93641 9.93666 9.93691 9.93666 134 9.93666 9.93691 9.93686 9.93691 9.93696 9.93711 9.93716	0.46298 .56279 .56299 .56299 0.56309 0.56309 0.56379 0.56379 0.56379 0.56419 .56419 .56419 .56418 0.56458 .56458 .56458 .56458 .56458 .56458 .56508	9.93884 .93889 9.93894 9.93908 9.93908 9.93933 9.9393 9.9393 9.93952 14h 9h 11m 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.93952 9.9395	0.56864 .56574 .56584 .66593 .66903 .86913 .86933 .86932 .869672 .869672 .869672 .869672 .769697 .76970 .77011 .77011 .77011 .77011 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010 .77010	9.94175 .94180 .94184 .94189 9.94189 9.94194 .94204 .94223 .94223 .94227 9.94240 .94256 .94275 .94256 .94270 .94256 .94270 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280 .94280	0.87448 .37457 .37467 .37467 .87496 .37505 .37505 .37505 .37505 .37534 .37534 .37534 .37537 .375392 .37692 .37692 .37610 .37630 .37640 .37640 .37659 .37640 .37659 .37640 .37640 .37640 .37659 .37648 .37658 .37688 .37688	9.94458 9.94463 9.94463 9.94472 9.94472 9.94486 9.94491 9.94496 9.94506 9.94506 9.94507 9.94514 9.94519 9.94528 9.94528 9.94537 9.94528 9.94566 9.94566 9.94567 9.94574 9.94574	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88105 .88115 .88124 0.88135 .88143 0.88152 41m 139° 0.88162 .88171 .88171 .88171 .88171 .88171 .88180 0.88189 .88209 .88209 .88216 .88235 .88216 .88235 .88216	60   56   52   48   44   40   36   28   24   20   16   55   55   56   57   48   44   43   65   65   65   65   65   65   65   6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$ 12 16 20 24 48 32 56 40 44 48 48 48	31 32 33 34 35 36 37 38 40 41 42 43 44 45 50 55 55 55 56 57	9.93279 9.93284 9.93289 9.93295 9.93305 9.93305 9.93315 9.93315 14h 9.93351 14h 9.93362 9.93362 9.93362 9.9337 9.93372 9.93372 9.93372 9.93387 9.93413 9.93413 9.93413	0.\$5662 .53673 .53683 .55683 .55683 .55713 .57714 .57734 .57744 .5774 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .5785 .5785 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 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.86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418	9,93884 ,93889 ,93894 ,93998 ,93918 ,93918 ,93918 ,93918 ,93948 ,93948 ,93948 ,93948 ,93948 ,93948 ,93952 ,14h ,94111 ,93962 ,93962 ,93962 ,93987 ,93987 ,93987 ,93996 ,94001 ,94001 ,94001 ,94001	0.56864 .56574 .56584 .66593 0.56903 .56913 .56932 .56952 .56952 0.56982 .56972 0.57011 .57021 .57030 .57040 0.57050 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 .57070 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.9.94294 .9.94294	0.87448 .37457 .37467 .37197 .0.87186 .57496 .57505 .57505 .57505 .57503 .57552 .57532 .57532 .57532 .57532 .57602 .57630 .57630 .57649 .57649 .57649 .57659 .57659 .57659 .57659 .57659 .57659 .57659 .57659 .57659 .57659	9.94458 .94463 .94463 .94463 .94472 9.94477 9.4482 .94486 .94496 9.94505 .94506 9.94505 .15h .94519 9.94528 .94533 .94533 .94534 .94556 .94565 .94570 .94570 .94579 .94579 .94579 .94579 .94579 .94579	0.88020 .88030 .88039 .88049 0.88058 .8968 .88077 .88068 0.88595 .88105 .88143 0.88152 41m 139° 0.88162 .88171 .88190 .88218 .88218 .88227 .88218 .88227 .88218 .88237 .88237 .88263	60 56 52 48 44 40 36 32 28 24 20 12 8 4 4 40 56 57 56 57 48 48 40 56 57 48 48 40 56 56 57 56 57 57 58 58 58 58 58 58 58 58 58 58
60 60 9.93433 0.85967 9.93736 0.86568 9.94030 0.87157 9.94318 0.87735 9.94597 0.88302 0	\$ 12 16 20 24 48 32 56 40 44 48 48 48	31 32 33 34 35 36 37 38 40 41 42 43 44 45 50 55 55 55 56 57	9.93279 9.93284 9.93289 9.93295 9.93300 9.93310 9.93310 9.93311 14h 9h 3m 9.93351 9.93362 9.93367 9.93362 9.93377 9.93382 9.93387 9.93483 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493	0.\$5662 .53673 .53683 .55683 .55683 .55713 .57714 .57734 .57744 .5774 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .57764 .5785 .5785 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 .58825 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.57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57150 .57	9.94175 .94180 .94184 .94189 9.94194 .94204 .94204 .94223 .94227 .94227 .94237 .94237 .94246 .94256 .94265 .94265 .94265 .94275 .94275 .94280 .94280 .94280 .94280 .94280 .94299 .9 .91303 .94299 .9 .94308	0.87448 .37457 .37467 .37467 .87197 0.87186 0.87395 0.87595 0.87592 4.77 188° 0.87592 4.77 188° 0.87592 4.77 188° 0.87690 0.87690 0.87690 0.87690 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 0.87699 8.87697 0.87707 8.87797	9.94458 .94468 .94468 .94472 .94486 .94486 .94491 9.94506 .94506 .94506 .94506 .94507 .94519 .94519 .94528 .94537 .94537 .94537 .94537 .94537 .94537 .94560 .94560 .94560 .94560 .94560 .94560 .94570 .94570 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .94579 .945	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88105 .88105 .88124 0.88182 41m 133° 0.88182 41m 133° 0.88182 .88171 .88171 .88180 .88199 .88208 .88255 .88255 .88255 .88255 .88255	60   56   56   48   44   40   36   32   28   24   20   16   12   8   4   40   56   57   56   57   48   44   40   56   57   57   48   48   48   48   48   48   48   48
	## 48	31 32 33 34 35 36 37 39 40 41 42 43 44 45 45 55 55 55 56 57 58	9.93279 9.93284 9.93289 9.93295 9.93300 9.93310 9.93310 9.93311 14h 9h 3m 9.93351 9.93362 9.93367 9.93362 9.93377 9.93382 9.93387 9.93483 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493 9.93493	0.85662 .83673 .83683 .85683 0.85703 .85713 .85714 .85744 .85744 .85744 .85795 0.85855 .5778 0.85855 .85896 .85896 .85896 .85896 .85896 .85996 .85996 .85996 .85996 .85996	9.93585 9.3590 9.3595 9.93605 9.93611 9.93695 9.93613 9.93696 9.93691 9.93696 14h 9.93696 9.93696 9.93696 9.93696 9.93691 9.93691 9.93691 9.93691 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701 9.93701	0.46298 .86279 .86299 .86299 .86399 .86339 .86339 .86359 .86369 .86369 0.86419 .86419 .86419 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418 .86418	9,93884 ,93889 ,93894 ,93998 ,93918 ,93918 ,93918 ,93923 ,93943 ,93943 ,93943 ,93945 ,93947 ,93962 ,93967 ,93962 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,93967 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 ,94067 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Agreement Land Agreement Land Land Land Land Land Land Land Land	\$\\ \frac{4}{8}\\ \frac{1}{2}\\ \frac{1}{6}\\ \frac{20}{24}\\ \frac{2}{32}\\ \frac{5}{6}\\ \frac{4}{8}\\ \frac{8}{20}\\ \frac{24}{28}\\ \frac{3}{26}\\ \frac{4}{16}\\ \frac{20}{24}\\ \frac{20}{36}\\ \frac{40}{44}\\ \frac{48}{48}\\ \frac{25}{56}\\ \frac{5}{6}\\ \frac{6}{16}\\ \frac{1}{6}\\ 1	31 32 33 34 35 36 37 38 40 41 42 43 44 45 45 55 56 57 58 59	9.93279 9.93284 9.93289 9.93289 9.93305 9.93305 9.93315 9.93315 14h 9.93351 14h 9.93356 9.93387 9.93372 9.93372 9.93373 9.93387 9.93387 9.93387 9.93387 9.93397 9.93397 9.93403 9.93413 9.93413 9.93418	0.\$5662 .53673 .53683 .53683 .53763 .53713 .53714 .53734 .53744 .53754 .53764 .53765 .53765 .53835 .53835 .53835 .53835 .53835 .53835 .53835 .53835 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 .53836 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.57070 .57070 .57070 .57070 .57070 .57070 .57070 .5	9.94175 9.94180 9.94184 9.94189 9.94194 9.94208 9.94213 9.94237 9.94237 9.94237 9.94256 9.94251 9.94256 9.94269 9.94269 9.94269 9.94269 9.94269 9.94269 9.94269 9.94269 9.94269 9.94269	0.87448 .37457 .7467 .75177 .0.87186 .7496 .87505 .87515 .75544 .875563 .875563 .875563 .875582 .7700 .87582 .7601 .87621 .87621 .87640 .87640 .87640 .87640 .87688 .87688 .87688 .87688	$\begin{array}{c} 9.94458\\ .94463\\ .94463\\ .94468\\ .94472\\ 9.94472\\ .94486\\ .94491\\ 9.94496\\ .94505\\ .94505\\ .94509\\ .94505\\ .94509\\ .94508\\ .94509\\ .94519\\ .94523\\ .94533\\ .94533\\ .94537\\ .94542\\ .94565\\ .94566\\ .94566\\ .94566\\ .94569\\ .94574\\ .94573\\ .94573\\ .94573\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ 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.94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .94588\\ .945$	0.88020 .88030 .88039 .88049 0.88058 .88068 .88075 .88105 .88105 .88115 .84143 0.88152 41m 0.88152 41m 0.88162 .88171 .88180 .88190 .88218 .88221 .88221 .88221 .88225 .88261 .88255	60   56   48   44   40   36   52   48   44   40   56   57   56   57   57   57   57   57
	\$\\ \frac{4}{8}\\ \frac{1}{2}\\ \frac{1}{6}\\ \frac{20}{24}\\ \frac{2}{32}\\ \frac{5}{6}\\ \frac{4}{8}\\ \frac{8}{20}\\ \frac{24}{28}\\ \frac{3}{26}\\ \frac{4}{16}\\ \frac{20}{24}\\ \frac{20}{36}\\ \frac{40}{44}\\ \frac{48}{48}\\ \frac{25}{56}\\ \frac{5}{6}\\ \frac{6}{16}\\ \frac{1}{6}\\ 1	31 32 33 34 35 36 37 38 40 41 42 43 44 45 45 55 56 57 58 59	9,93279 93284 93289 93289 9,93305 9,93305 9,93315 9,93311 9,93351 1,1h 9,93356 9,93362 9,93362 9,93367 9,93377 9,93372 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387 9,93387	0.\$5662 .\$3673 .\$5683 .\$5683 .\$5683 .\$5713 .\$5724 .\$5774 .\$5774 .\$5774 .\$5776 .\$5785 .\$5785 .\$5785 .\$5785 .\$5885 .\$5885 .\$5885 .\$5885 .\$5885 .\$5886 .\$5886 .\$5896 .\$5996 .\$5996 .\$5996 .\$5996 .\$5996 .\$5996	9.93585 9.3590 9.3595 9.3600 9.93611 93616 9.3626 9.3631 9.3636 9.3641 9.93646 9.3651 9.93656 14h 9.93666 9.93671 9.93681 9.93691 9.93706 9.93711 9.93716	0.46208 .56279 .56299 .56299 .56319 .56329 .56329 .56339 0.56339 0.56339 0.56439 0.56419 0.86419 0.86419 0.86419 0.86458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458 0.6458	9,93884 ,93889 ,93894 ,93998 ,93913 ,93918 ,93918 ,93918 ,93948 ,93948 ,93948 ,93952 ,14h ,94111 ,93962 ,93967 ,93972 ,93972 ,93972 ,93972 ,93973 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,93987 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94087 ,94	0.56864 .56574 .56584 .66593 0.66903 .69913 .86932 .86952 .86962 0.57061 0.57061 .57070 0.57061 0.57060 .57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57070 0.57080 .57070 0.57080 .57070 0.57080 .57175 0.57185 .57185 .57185 .57185 .57185	9,94175 ,94180 ,94184 ,94189 ,94194 ,94204 ,94203 ,94213 ,94237 ,94237 ,94237 ,94237 ,94256 ,94256 ,94265 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94275 ,94280 ,94280 ,94280 ,94308 ,94308 ,94308	0.87448 .37447 .37467 .37147 0.87186 .87496 .87505 .87505 .875523 0.87523 0.87523 0.87523 0.875892 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630 0.87630	9.94458 .94463 .94463 .94472 9.94477 9.94486 .94491 9.94505 9.94505 9.94504 9.94509 9.94514 .94519 9.94523 .94537 .94537 .94537 .94537 .94536 .94536 .94537 .94537 .94533 .94537 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94556 .94570 .94570 .94570 .94570 .94570 .94574 .94574 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94533 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94534 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .945444 .94544 .94544 .94544 .94544 .94544 .94544 .94544 .945	0.88020 .88030 .88039 .88049 0.88058 .88068 .88068 .88105 .88115 .88143 0.88152 4177 1392 0.88162 .88171 .88171 .88180 .88199 .88218 .88225 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 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.88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .88237 .8	60   56   56   48   44   40   36   32   28   24   20   56   57   58   44   40   56   56   56   56   56   56   56   56

Page 914]

# TABLE 45.

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		9h 20m	140°	9h 25m	141°	9h 28m	1430	$9h  s_{\odot}m$	143°	9h 86m	144°	1
ı		Log. Hav.		Log. Hav.	Nat. Hay	Log. Hav.	Nat. Hav.	Log. Hay.	Nat. Hav.	Log. Hav.	Nat. Hav.	s
								9.95391	0.59932	9,95641	0.90451	
- 0	0	9.94597	0.88303	9.91569	0.55557	9.95134	0.89401					60
4	1	.94602	.88312	.94871	. 35566	.95138	.59109	.95396	.89941	.95645	.90459	56
8	2	.94606	151:46.	.94878	.44476	.95143	.59418	.95400	.99949	.95649	.90468	52
12	3	.94611	.55330	.94883	. 4444.5	.95147	.89127	.95404	.89958	.95654	.90176	48
			0.55310	9.94887	0.85594	9.95151	0.59136	9,95408	0.59967	9.95658	0.90485	44
16	4	9.94616										
20	5	94620	.55319	.94802	.53903	.95156	.89145	95412	.59976	.95662	.90494	40
24	6	94625	.45354	.94896	.58912	.95160	.89451	.95417	.89984	.95666	.90502	36
28	7	.94629	.44364	.94901	.55921	.95164	.89163	.95421	.89993	.95670	.90511	32
32		9.94634	0.55377	9.94905	0.55930	9.95169	0.89472	9.95425	0.90003	9.95674	0.90519	28
	9			.94909	.54910	.95173	.89151	.95429	.90010	.95678	.90528	24
36		.94638	.44346						.90019	.95682	.90537	20
40	10	94613	.55396	.94914	.58919	.95177	.89490	.95433				
44	11	.94648	. 45105	.94918	.88958	.95182	.59499	.95438	.90028	95686	.90545	16
48	12	9.94652	0.55114	9.94923	0.55967	9,95186	0.59508	9.95442	0.90037	9.95690	0.90553	12
5:	13	.94657	.88423	.94927	.55976	95190	.59517	.95446	.90045	.95694	.90562	- 8
	11	9.94661	0.55133	9.94932	0.55955	9,95195	0.89526	9,95450	0.90054	9.95699	0.90570	-\$
56	"	5 3 100 L	0. 771.3-3									7
		134	29m	1.4h	.5m	13h	31m	14h	27m	1.5h	23m	
-			4.40			tab man	4.4.3.3	(-2) C 100	9.414.3	1 (.8 22.00	1442	_
9		9h .1m	140	9h 25m	111	9h 29m	1425	9h SSm	143	94.37 m	144"	S
0	15	9.94666	0.55112	9.94936	0.55994	9.95199	0.89534	9.95454	0.90063	9.95703	0.90579	60
4	16	.94670	.88151	.94941	.59003	.95203	.59543	,95459	.90071	.97507	.90588	56
8	17	.94675	.55161	.94915	89012	.95208	.89552	.95463	.90080	.95711	.90596	52
										.95715	.90604	
12	13	.94680	.55170	.94950	.×9022	.95212	.59561	.95467	.90059			48
16	19	9.94654	0.55479	9,94954	0.89031	9.95216	0.89570	9.95471	0.90097	9.95719	0.90613	44
20	20	.94689	. **1*9	.94958	.89010	.95221 .95225	.89579	.95175	.90106	.95723	.90621	40
24	21	94693	.55195	.94963	.59019	.95225	.89588	.95480	90115	.95727	.90630	36
38	5.3	.94698	38507	94967	.59058	.95229	.59597	.95484	.90124	.95731	.90635	32
32	23	9 94702	0.88516	9,94972	0.89067	0.95234	0,59606	9.95488	0.90133	9.95735	0.90647	28
36	54	94707	.89526	.94976	.89076	.95238	.89614	.95492	.90111	.95739	.90655	24
40	2.5	94711	. 44.53.5	94951	.59085	.95242	.59623	.95496	.90150	.95743	.90664	20
44	36	.94716	.55511	94985	.59091	.95246	.59632	.95501	.90158	.95747	.90672	16
4.5	27	9.94721	0.5553	9.91989	0.59103	9,95251	0.89611	9,95505	0.90167	9.95751	0.90680	12
	25	.94725	.55563	94994	.59112	.95255	.89650	95509	.90176	.95755	.90659	8
- ú						0.05050				0.05750		
56	29	9.94720	0.48573	9.94998	0.89121	9,95259	0.89659	9 95513	0.90184	9 95759	0.90697	4
		1;4	5879	115	.;m	1.14	SOM	14h	26m	144	, m	1
_												<del></del>
		gh m	110	94.26	111	9h Sum	112	94.,;m	143	9ħ 38m	144	s
8	30	9h -m 9-94781	110	9h 26m 9.95003	0,89130			9,95 117	143± 0.90193		0.90706	s 60
- 0		9 94731	0.88581	9,95003	0.89130	9h 30m 9.95264	112 0.89668	9.95317	0.90193	94.88m 9.95763	0.90706	60
4	31	9 9 <b>17</b> 81 .94739	0.54551	9,95003 ,95007	0.89130 .89139	9h som 9.95264 .95268	112 0.89668 .89677	9,95317	0.90193 .90201	9h 38m 9,95763 ,95768	0.90706 .90711	60 56
- 0 - 3 - 8	31 32	9 94731 -94739 -94743	0.5554 .5590 .5500	9,95003 ,95007 ,95011	0.89130 .89139 .89119	9h som 9.95264 .95268 .95272	112 0.89668 .89677 .89685	9,95517 .95521 .95526	0.90193 .90201 .90210	98.88m 9.95763 .95768 .95772	0.90706 .90711 .90723	60 56 50
0 3 8 1'	31 32 33	9 94731 -94739 -94743 -94748	0,88581 .88590 .88600 .88609	9,95003 ,95007 ,95011 ,95016	0,89130 .89139 .89149 .89158	9h sum 9.95264 .95268 .95272 .95276	112 0.89668 .89677 .89685 .89694	9,95517 .95521 .95526 .95530	0.90193 .90201 .90210 .90219	98.38m 9.95763 .95768 .95772 .95776	0.90706 .90714 .90723 .90731	60 56 50 50 53
- 0 - 3 - 8 - 17 - 16	31 32 34 34	9 94731 94739 - 94743 - 94748 - 9 94752	0.5551 .5590 .5600 .5609 9.5615	9,95003 ,95007 ,95011 ,95016 9,95020	0.89130 .89139 .89149 .89158 0.89167	95.254 9.95268 .95268 .95272 .95276	0.89668 .89677 .89685 .89694 0.89703	9,95517 .95521 .95526 .95530 9,95531	0.90193 .90201 .90210 .90219 0.90227	98.58m 9.95763 .95768 .95772 .95776 9.95780	0.90706 .90714 .90723 .90731 0.90710	60 56 50 50 45 44
0 3 8 1'	31 32 33	9 94731 -94739 -94743 -94748	0,88581 .88590 .88600 .88609	9,9500.3 ,95007 ,95011 ,95016 9 95020 ,95025	0,89130 .89139 .89149 .89158	9h sum 9.95264 .95268 .95272 .95276 9.95281 .95285	112 0.89668 .89677 .89685 .89694	9,95517 ,95521 ,95526 ,95530 9,95534 ,95538	0.90193 .90201 .90210 .90219	98.58m 9.95763 .95768 .95772 .95776 9.95780	0.90706 .90714 .90723 .90731	60 56 50 50 53
- 0 - 3 - 8 - 17 - 16	31 32 34 34	9 94731 94739 - 94743 - 94748 - 9 94752 94757	0,5551 ,5590 ,5600 ,5609 0,5619 ,5627	9,95003 ,95007 ,95011 ,95016 9,95020	0.89430 .89439 .89449 .89458 0.89467 .89176	9h sum 9.95264 .95268 .95272 .95276 9.95281 .95285	0.89668 .89677 .59685 .89694 0.89703 .89712	9,95517 ,95521 ,95526 ,95530 9,95534 ,95538	0.90193 .90201 .90210 .90219 0.90227 .90236	98.58m 9.95763 .95768 .95772 .95776 9.95780	0.90706 .90714 .90723 .90731 0.90710	56 55 55 48 44 40
6 4 8 1' 16 0	31 32 33 34 35 36	9 94731 -94739 -94743 -94748 -94752 -94757 -94761	0.88581 .88590 .8600 .8609 0.8618 .8627 .88637	9,95003 ,95007 ,95011 ,95016 9,95020 ,95025	0.89430 .89439 .89449 .89458 0.89467 .89176	9h Som 9,95264 ,95268 ,95272 ,95276 9,95281 ,95285 ,95289	142 0.89668 .89677 .89685 .89694 0.89703 .89712 .89724	9,95517 .95521 .95526 .95530 9,95531 .95538 .95542	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215	94.88m 9.95768 .95772 .95776 9.95780 .95784 .95788	0.90706 .90714 .90723 .90731 0.90710 .90715	60 56 50 44 40 86
6 4 8 1' 76	31 32 33 34 35 36 37	9 94731 -94739 -94743 -94748 -94752 -94757 -94764 -94766	0.88581 .88590 .8600 .8609 0.8618 .8627 .88637 .88616	9,95003 ,95007 ,95014 ,95016 9,95020 ,95025 ,95029 ,95033	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185	9h som 9.95264 .95268 .95272 .95276 9.95281 .95285 .95289 .95294	142 0.89668 .89677 .89685 .89694 0.89703 .89712 .89724 .89730	9,95517 ,95521 ,95526 ,95530 9,95534 ,95538 ,95542 ,95546	0.90193 .90301 .90310 .90319 0.90227 .90236 .90215 .90253	98.88m 9.95763 .95768 .95772 .95776 9.95780 .95784 .95788 .95788	0.90706 .90714 .90723 .90731 0.90710 .90715 .90756	56 55 44 40 36 8
0 4 8 1 16 0 9 8 C	31 32 34 34 35 36 37 38	9 91731 -94739 -94743 -94748 -94752 -94764 -94766 -94770	0.88581 .88590 .88600 .88609 0.88618 .88627 .88637 .88616 0.88655	9,95003 ,95003 ,95011 ,95016 9,95020 ,95029 ,95029 ,95033 9,95038	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185 .89494 0.89203	9h som 9.95264 .95268 .95272 .95276 9.95281 .95284 .95284 .95294 9.95298	0.89668 .89677 .89685 .89694 0.89703 .89712 .89724 .89730 0.89738	9.95517 .95521 .95526 .95530 9.95531 .95538 .95542 .95546 9.95530	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262	9h 88m 9.95768 .95768 .95772 .95776 9.95780 .95784 .95784 .95784 .95784 .95784 .95784 .95784	0.90706 .90714 .90723 .90731 0.90710 .90748 .90756 .90765	60 56 52 44 40 36 8.
0 4 8 F 16 7 7 8 7 16	31 32 31 33 36 37 38 39	9 94781 -94739 -94748 -94748 -94752 -94757 -94764 -94770 -94774	0.88581 .88590 .8600 .8609 8.8618 .8627 .88616 0.88655 .88616	9,95003 ,95016 ,95016 ,95016 9,95020 ,95029 ,95033 9,95038 ,95012	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185 .89494 0.89203 .89242	9h som 9.95264 .95268 .95272 .95276 9.95281 .95281 .95289 .95294 9.05298 9.5302	112 0.59665 .89677 .59685 .89694 0.89703 .89712 .89724 .89730 0.89735 .89747	9,95347 ,95521 ,95526 ,95530 9,95534 ,95542 ,95546 9,95550 ,95555	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271	9.6 88 m 9.95768 9.95768 9.9576 9.95780 9.95780 9.95784 9.95784 9.95792 9.95792 9.95790	0.90706 .90714 .90723 .90731 0.90710 .90715 .90756 .90765 0.90773	60 56 50 44 40 86 88 24
10 4 8 12 16 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	31 32 31 35 36 37 38 39	9 94781 -94739 -94743 -94748 -94752 -94767 -94766 -94770 -94770 -94770	0,88581 ,8860 ,8860 ,8869 0,8618 ,88618 ,88637 ,88616 0,8655 ,8661 ,8674	9.95003 .95007 .95016 .95016 9.95020 .95025 .97028 .97038 9.97038 .97012 .97012	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185 .89494 0.89203 .89242	9h som 9.05.264 .95268 .95272 .95276 9.95281 .95284 .95284 .95294 .95294 .95302 .95306	0.89668 .89677 .59685 .89694 0.89703 .89712 .89724 .89730 0.89738 .89747 .89756	9,95317 ,95521 ,95526 ,95530 9,95531 ,95536 ,95546 9,95536 ,95555	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271	9.6 88 m 9.95763 9.95768 9.95769 9.95780 9.95780 9.95784 9.95792 9.95792 9.95796 9.95800 9.95801	0.90706 .90714 .90723 .90731 0.90710 .90715 .90765 0.90773 .90792	60 56 50 44 40 36 80 80 80 27 20
0 4 8 F 16 7 7 8 7 16	31 32 31 34 35 36 37 38 39 40	9 94734 -94739 -94743 -94748 -94752 -94757 -94766 -94770 -94774 -94754	0.88581 .88600 .88609 0.8869 0.88618 .88627 .88636 0.88655 .8864 .88674 .88683	9.95003 .95007 .95016 .95016 9.95020 .95025 .97029 .97033 9.95035 .95017 .95034	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185 .89494 0.89203 .89242 .89234 .89234	9h som 9.95264 .95268 .95272 .95276 9.95281 .95281 .95289 .95294 9.05298 9.5302	112 0.59665 .89677 .59685 .89694 0.89703 .89712 .89724 .89730 0.89735 .89747	9,95347 ,95521 ,95526 ,95530 9,95534 ,95542 ,95546 9,95550 ,95555	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279	9.6 88 m 9.95768 9.95768 9.9576 9.95780 9.95780 9.95784 9.95784 9.95792 9.95792 9.95790	0.90706 .90714 .90723 .90731 0.90710 .90715 .90756 .90765 0.90773	60 56 50 44 40 86 88 24
10 4 8 12 16 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	31 32 31 35 36 37 38 39	9 94781 -94739 -94743 -94748 -94752 -94767 -94766 -94770 -94770 -94770	0,88581 ,8860 ,8860 ,8869 0,8618 ,88618 ,88637 ,88616 0,8655 ,8661 ,8674	9.95003 .95007 .95016 .95016 9.95020 .95025 .97028 9.7038 9.7038 .97012 .97012	0.89430 .89439 .89449 .89458 0.89467 .89176 .89185 .89494 0.89203 .89242	9h som 9.05.264 .95268 .95272 .95276 9.95281 .95284 .95284 .95294 .95294 .95302 .95306	0.89668 .89677 .59685 .89694 0.89703 .89712 .89724 .89730 0.89738 .89747 .89756	9,95317 ,95521 ,95526 ,95530 9,95531 ,95536 ,95546 9,95536 ,95555 ,95559	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271	9.6 88 m 9.95763 9.95768 9.95769 9.95780 9.95780 9.95784 9.95792 9.95792 9.95796 9.95800 9.95801	0.90706 .90714 .90723 .90731 0.90710 .90715 .90765 0.90773 .90792	60 56 50 44 40 36 80 80 80 27 20
8 P 18 C 18 C 18 40 S 1	31 32 31 34 35 36 37 38 39 40	9 94734 -94739 -94743 -94748 -94752 -94757 -94766 -94770 -94774 -94754	0.88584 .88590 .8600 .8609 0.8618 .8627 .8637 .8616 0.8655 .8664 .8674 .8683 0.8683	9.95003 .95007 .95016 .95016 9.95020 .95025 .97029 .97033 9.95035 .95017 .95034	0.89430 .89439 .89449 .89458 0.89467 .89156 .89185 .89494 0.89203 .89242 .89224 .89230 0.80209	9h som 9.95268 .95268 .95272 .95276 9.95281 .95283 .95294 9.95294 9.95298 .95302 .95302	142 0.89668 .89677 .89685 .89694 0.89703 .89712 .89724 .89730 0.89738 .89747 .89765 0.89774	9,95517 ,95521 ,95526 ,95530 9,95538 ,95542 ,95546 9,95536 ,95555 ,95559 ,95563	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .90279	9h 88m 9.95763 .95768 .95772 .95776 9.95784 .95784 .95785 .95792 9.95790 .95800 .95801 .95808	0.90706 .90714 .90723 .90731 0.90740 .90745 .90765 0.90773 .90792 .90799 .90799	60 56 57 44 40 86 87 28 29 20 16
8 12 16 28 27 36 40 48 5	31 32 34 35 36 37 38 39 40 41 42 43	9 94784 .94739 94743 94748 9 94752 .94764 9 94766 9 94774 947.9 947.9 947.9 947.9 947.9	0,88581 ,88590 ,88690 ,88699 0,88637 ,88637 ,88646 0,88557 ,88646 ,88674 ,88674 ,88683 0,88692 ,88791	9.95003 .95007 .95011 .95016 9.95025 .95025 .95029 .97023 .97012 .97011 .97074 .95060	0.89430 .89439 .89149 .89146 0.89467 .89176 .89185 .89194 0.89203 .89242 .89230 0.89230 0.89248	9h sam 9,95,264 .95268 .95272 .95276 9.95281 .95283 .95298 .95298 .95302 .95306 .95315 .95315	142* 0.89668 .89677 .89685 .89694 0.89703 .89712 .89724 .89736 .89747 .89766 .89766 .89774 .89784	9,95517 ,95521 ,95526 ,95530 9,95538 ,95545 ,95546 9,95556 ,95555 ,95563 9,95563 9,95567	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .90288 0.90286 0.90286	9.6.58m 9.95763 .95768 .95776 .95776 9.95784 .95784 .95785 .95796 .95800 .95801 .95808 9.95812 .95818	0.90706 .90714 .90723 .90731 0.90740 .90745 .90756 .90765 0.90773 .90792 .90790 0.90798	56 55 55 55 55 56 56 58 28 24 20 16 12 8
8 P 16 9 9 8 1 16 16 16 16 16 16 16 16 16 16 16 16 1	31 32 31 34 35 36 37 38 39 40 41 42	9 94784 .94739 91743 91743 9 94752 .94757 94764 9 94770 94770 94774 94779 94779 94784 94785 94787	0,88581 .88590 .88600 .88600 B.8618 .88627 .88616 0,86635 .88614 .8673 .88630 0,86692 .88701 0,88710	9.95003 .95007 .95016 .95016 9.95020 .95025 .95023 .95033 9.95012 .95017 .95055 9.95050 9.95064	0.89430 .89439 .89449 .89458 0.89467 .89156 .89185 .89494 0.89203 .89242 .89224 .89230 0.80209	9h gam 9,95264 ,95268 ,95272 ,95276 9,95281 ,95285 ,95294 9,95298 95302 95306 ,95311 9,95319 9,95319 9,95319	142" 0.89668 .89677 .89685 .89687 .89685 .89703 .89712 .89724 .89730 .89738 .89747 .8756 .89765 0.89763 0.89783	9.95517 .95521 .95526 .95530 .95533 .95538 .95542 .95546 .95555 .95559 .95567 .95567 .95571	0.90193 .90201 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .90288 0.90296 .90305 0.90314	9.5 8.5 m 9.05763 9.5768 9.5772 9.5776 9.95780 9.5784 9.5782 9.9580 9.5800 9.5804 9.5808 9.95816 9.95816 9.95820	0.90706 .90714 .90723 .90731 0.90740 .90748 .90765 0.90763 .90792 .90792 .90798 .90807 .90815 0.90824	60 56 57 44 40 86 87 28 29 20 16
8 12 16 28 27 36 40 48 5	31 32 34 35 36 37 38 39 40 41 42 43	9 94784 .94739 94743 94748 9 94752 .94764 9 94766 9 94774 947.9 947.9 947.9 947.9 947.9	0,88581 ,88590 ,88690 ,88699 0,88637 ,88637 ,88646 0,88557 ,88646 ,88674 ,88674 ,88683 0,88692 ,88791	9.95003 .95007 .95011 .95016 9.95025 .95025 .95029 .97023 .97012 .97011 .97074 .95060	0.89430 .89439 .89149 .89146 0.89467 .89176 .89185 .89194 0.89203 .89242 .89230 0.89230 0.89248	9h sam 9,95,264 .95268 .95272 .95276 9.95281 .95283 .95298 .95298 .95302 .95306 .95315 .95315	142* 0.89668 .89677 .89685 .89694 0.89703 .89712 .89724 .89736 .89747 .89766 .89766 .89774 .89784	9,95517 ,95521 ,95526 ,95530 9,95538 ,95545 ,95546 9,95556 ,95555 ,95563 9,95563 9,95567	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .90288 0.90286 0.90286	9.6.58m 9.95763 .95768 .95776 .95776 9.95784 .95784 .95785 .95796 .95800 .95801 .95808 9.95812 .95818	0.90706 .90714 .90723 .90731 0.90740 .90745 .90756 .90765 0.90773 .90792 .90790 0.90798	56 55 55 55 55 56 56 58 28 24 20 16 12 8
8 12 16 28 27 36 40 48 5	31 32 34 35 36 37 38 39 40 41 42 43	9 94784 .94739 91743 91743 9 94752 .94757 94764 9 94770 94770 94774 94779 94779 94784 94785 94787	0,5554 ,5590 ,5600 ,5609 8,5619 ,5627 ,5616 0,5655 ,5664 ,5674 ,5674 ,5674 ,5701 0,5710	9,95003 ,95007 ,95011 9,95016 9,95025 ,95025 ,95029 ,95013 9,95013 9,95017 9,95014 9,95054 9,95060 9,95064	0,89430 .89439 .89449 .89458 0,9467 .89176 .89185 .8944 .89242 .89224 .89224 .89230 0,80230 0,80230	9h gam 9,95264 ,95268 ,95272 ,95276 9,95281 ,95285 ,95294 9,95298 95302 95306 ,95311 9,95319 9,95319 9,95319	112" 0.89668 89677 59685 89685 89685 89703 0.89703 89712 89724 89730 0.89738 89717 89736 89765 989765	9.05517 .95526 .95526 .95530 .95536 .95542 .95546 .95556 .95556 .95576 .95571 .95775	0.90193 .90201 .90210 .90219 .90219 .90227 .90236 .90215 .90253 .90271 .90279 .90279 .9028 0.90305 0.90305	9.6.58m 9.95768 .95768 .95772 .95776 9.95780 .95784 .95784 .95784 .95782 .95801 .95808 9.95812 .95812 .95820 .95820	0.90706 .90714 .90723 .90731 0.90710 .90756 .90756 0.90773 .90792 .90792 .90790 .90790	60 56 57 44 40 86 8. 24 20 16 12 8 4
8 17 16 29 28 27 36 40 33 48 5 5 6	31 32 31 34 35 36 37 38 39 40 41 42 43	9 91731 91739 91743 91743 9 91752 9 91752 9 91756 9 91770 91774 91784 9 91788 9 91788 9 91789 9 1779 9 1789 9 1788	0,8554 ,8590 ,8500 ,8509 0,8618 ,8627 ,8637 ,8646 0,8655 ,8664 ,8674 ,8674 ,8674 ,8704 0,8709 0,8710	9,95003 95007 95011 95016 9,95020 95025 95025 95013 9,95013 9,95014 9,95014 9,95054 9,95064 7,78	0,89430 89439 89449 89458 0,89467 89158 0,89467 89154 0,89203 89224 89230 0,89239 89248 0,89257	9h som 9.05264 95268 95272 95281 95281 95285 95294 95302 95302 95301 95315 95315 95315	112" 0.89668 89677 89685 89694 0.89703 89712 89721 99730 0.89738 89747 89756 89765 0.89774 89786	9,95517 95521 ,95526 ,95530 9,95531 ,95536 9,95546 9,95556 ,95567 ,95567 ,95773 1448	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90279 .90279 .90279 .90305 0.90304 0.90314	9.6.58m 9.95763 .95768 .95776 .95776 9.95780 .95784 .95784 .95784 .95800 .95801 .95801 .95806 .95816 9.95816 9.95816 9.95816 9.95816	0.90706 .90714 .90723 .90731 0.90710 .90745 .90765 0.90773 .90790 .90798 0.90807 .90824	60 56 57 44 40 86 8. 24 20 16 12 8
8 12 16 28 27 36 40 48 5	31 32 31 31 35 36 37 38 39 40 41 42 41 42	9 91731 91739 91743 9 91743 9 91752 9 91756 9 91766 9 91770 91771 91751 9 91781 9 9179 9 179 9 179 9 179 178 1 9 178 1 9 178 1 9 178	0,88584 ,88590 ,88609 8,8618 ,8627 ,8637 ,8646 0,8655 ,8674 ,8674 ,8674 ,8701 0,88710	$\begin{array}{c} 9.95003\\ 9.5007\\ 9.5017\\ 9.5016\\ 9.95020\\ 9.5020\\ 9.5025\\ 9.5032\\ 9.5032\\ 9.5043\\ 9.95048\\ 9.95047\\ 9.95044\\ 9.95064\\ \frac{1}{f/\hbar}\\ 9.5064\\ \frac{1}{f/\hbar}\\ 9.95064\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ \frac{1}{f/\hbar}\\ 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8 17 16 29 28 27 36 40 33 48 5 5 6	31 32 31 31 35 36 37 38 39 40 41 42 41 41	9 91731 91739 91743 91743 9 91752 9 91752 9 91756 9 91770 91774 91784 9 91788 9 91788 9 91789 9 1779 9 1789 9 1788	0,88584 ,88600 ,88600 0,88618 ,88618 ,88618 ,88616 ,88616 0,88655 ,88616 ,88674 ,88674 ,88710 -88710	9,95003 95007 95011 95016 9,95020 95025 95025 95038 9,9503 9,95017 9,95074 9,95064 7,76 9,95064 9,95064 9,95064 9,95064	0,89130 ,89139 ,89149 ,89158 0,89467 ,89185 ,89194 0,89203 ,89214 ,89230 0,89230 0,89237 111 0,89266 ,89275	9h som 9.05264 9.05268 9.5276 9.6281 9.5285 9.5289 9.5294 9.5294 9.5528 9.5302 9.5306 9.5315 9.5315 9.5328 9.5315 9.5315 9.5328 9.5315 9.5328	112" 0.89668 89677 89685 89694 0.89703 89712 89721 99730 0.89738 89747 89756 89765 0.89774 89786	9,95517 95521 ,95526 ,95530 9,95531 ,95536 9,95546 9,95556 ,95567 ,95567 ,95773 1448	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90279 .90279 .90279 .90305 0.90304 0.90314	9.6.58m 9.95768 9.95768 9.95776 9.95780 9.95784 9.95792 9.95800 9.95800 9.95812 9.95820 14h 9.05821 9.95824 9.95824 9.95824	0.90706 .90714 .90723 .90731 0.90710 .90745 .90765 0.90773 .90790 .90798 0.90807 .90824	60 56 57 44 40 86 8. 24 20 16 12 8
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8 17 16 29 28 27 36 40 33 48 5 5 6	31 32 33 34 35 36 37 38 39 40 41 42 43 44	9 91731 91739 91743 91743 9 91752 9 91757 91761 91766 9 91774 91774 91784 9 91784 9 91784 9 91784 9 91784 9 9188 9 9188 9 9188 9 9188 9 9188 9 9188 9 9188 9 9188 9 9188	0,88581 ,88690 ,88690 ,88697 ,88637 ,88637 ,88637 ,88636 ,88636 ,88630 ,88692 ,88701 0,88710 ,88710 ,88710 ,887210	9,95003 95007 95011 95016 9 95020 95029 95029 9 95018 95012 95017 9 95055 95060 9 95063 778 9 9507 9 9507	0,89130 .89139 .89158 0,9167 .89185 .89185 .89185 .89212 .89212 .89221 .89224 0,80239 .89248 0,80257	9h yam 9195264 95268 95272 95281 95285 95281 95285 95294 95306 95306 95415 95415 95415 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 95416 954	112" 0.89668 .89677 .89685 .89694 0.89703 .89714 .89730 0.89738 .89747 .89756 0.89774 .99783 0.89791 442 0.89800 .88800 .88800 .88880	9,95517 ,95521 ,95526 ,95530 9,95531 ,95542 ,95546 ,95550 ,95557 ,95571 9,95571 9,9577 ,9577 ,9577 ,9578	0.90193 .90201 .90210 .90219 0.90227 .90215 .90215 .90253 0.90262 .90271 .90279 .90296 .90305 0.90305 0.90302 .90303 0.90302 .90303	9.6.58m 9.95763 9.95763 9.95768 9.95786 9.95786 9.95786 9.95786 9.95796 9.5801 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820 9.95820	0.90706 .90711 .90723 .90731 .90731 .90756 .90756 .90763 .90792 .90792 .90790 .90815 0.90824 /m 141 0.30832 .90849	60 56 52 48 40 86 82 28 24 20 16 12 8 4
# # # # # # # # # # # # # # # # # # #	31 32 31 34 35 36 37 38 39 40 41 42 43 44	9 91731 91739 91741 91748 9 91757 91761 91756 9 91770 91771 9 91770 9 91770 9 91770 9 91784 9 9180 9 9180 9 9180 9 9180 9 91811 9 91811	0,88581 88690 88690 88697 88697 88656 6,88656 6,88656 88674 88710 6,88720 6,88720 6,88720 88727 88738 88738	9,95003 ,95007 ,95011 9,95016 9,95020 ,95025 ,95029 ,95025 ,95042 ,95043 9,95043 9,9504 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,95044 ,9	0,89130 .89139 .89149 .89158 0,90167 .89185 .89185 .89241 .89230 0,89239 .89242 0,89257 111 0,89266 .89275 .89284 .89284	9h 80m 9.05264 .05268 .95276 9.95281 15285 .05289 9.5302 9.5302 9.5302 9.5302 9.5315 9.5315 9.5315 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342 9.5342	142 0.89668 .89677 .89685 .89694 0.89703 .89712 .89721 .89730 0.89738 .89747 .89765 0.89794 .9983 0.89794 .9983 0.89899 .88809 .88848 .88825	9,95517 ,95521 ,95526 ,95530 9,95531 ,95542 ,95546 ,95563 ,95563 ,95563 ,95567 ,9577 ,9577 ,9577 ,9577 ,9577 ,9577 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9578 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788 ,9788	0.90193 .90201 .90210 .90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .9028 0.90305 0.90314 2577 1432 0.904022 .90331 .90331 .90333	9.6.58m 9.95763 9.95763 9.95763 9.95772 9.95780 9.95780 9.95800 9.95812 9.95820 710 9.95820 9.95820 9.95820 9.95820 9.95828 9.95828 9.95828 9.95828	0.90706 .90714 .90723 .90723 .90731 .90716 .90756 .90757 .90759 .90790 .90807 .90807 .90814 .90814 .90814 .90819 .90819	60 56 57 48 40 86 88 24 20 16 12 86 60 52 48
# # # # # # # # # # # # # # # # # # #	31 32 31 34 35 36 37 38 40 41 42 43 44 41 42 43 44	9 91731 91739 91741 91748 9 91752 9 91761 9 91766 9 91776 9 91777 9 91774 9 91788 9 91788 9 9178 9 91788 9 91788 9 9180 9 9180 9 9181 9 9181 9 9181	0,88581 ,88690 ,88690 ,88697 ,88637 ,88637 ,88637 ,88646 ,88692 ,88692 ,88701 0,88720 ,88720 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 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,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730 ,88730	9,95003 95007 95016 9 95020 9 95020 9 95029 9 95038 9 95017 9 95057 9 95064 778 9 95063 9 95063	0,89130 .89139 .89149 .89158 0.9167 .89155 .89242 .89242 .89242 .89224 .89230 0,89239 .89245 .89257 .89257 .89284 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 .89285 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,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575	0.90193 .90201 .90219 0.90219 0.90227 .90236 .90215 .90253 0.90262 .90271 .90279 .90305 0.90304 2.57 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 0.90304 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# # # # # # # # # # # # # # # # # # #	31 32 31 31 35 36 37 39 40 41 42 43 41 42 43 44 45 46 47 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	9 91731 91739 91743 91743 91748 9 91757 91761 917761 917761 91777 91778 91779 91779 91779 91781 91879 918806 918806 918814 918814 918814	0,88581 ,88590 ,8609 8,8618 ,88637 ,88637 ,88636 ,88655 ,8674 ,88710 0,88674 0,88720 ,887210 0,88720 ,887210 ,887210 ,887210 ,887210 ,887210 ,887210 ,887210 ,887210 ,887210 ,887210	9,95003 95007 95011 95016 9,95020 9,95020 9,5029 9,5029 9,5017 9,5014 9,95014 1,150 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 9,95014 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.95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.43 .95.	112 0.88668 .89677 .9685 .89694 0.89763 .89712 .89724 .89724 .89725 0.89738 .97177 .82756 0.89767 0.89767 0.89767 0.89800 .88800 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# # # # # # # # # # # # # # # # # # #	31 32 31 31 35 36 37 38 39 40 41 42 43 44 41 42 43 44 45 46 56 66 77 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 86 78 78 78 78 78 78 78 78 78 78 78 78 78	9 91731 91739 917413 917148 9 91757 91761 91766 9 94770 91774 91778 91778 91779 9179 9179 9180 9180 9180 9181 9181 9181 9181 918	0,88581 .88590 .88690 9,8618 .88637 .88637 .88646 0,88655 .8864 .88710 0,88720 .88721 0,88720 .88721 0,88720 .88721 .88736 .88721 .88736 .88721 .88736 .88721 .88736 .88736 .88736 .88736 .88736 .88736 .88736 .88736 .88736 .88736 .88736	9,95003 ,95007 ,95011 9,95016 9,95029 ,95029 ,95033 9,9503 9,9503 9,9503 9,9503 9,9503 9,9503 9,9503 9,9503 9,9503 9,9503 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442 0.89890 .89888 .89889 .89888 .89889 .89888	9,95517 ,95521 ,95526 ,95530 9,95531 ,95542 ,95542 ,95565 ,95567 ,95567 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 ,9575 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.898800	9,95177 ,95221 ,95526 ,95530 ,95538 ,95542 ,95542 ,95559 ,95559 ,95567 ,95571 ,95571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 ,97571 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,89149 ,89145 ,89146 ,89187 ,9116 ,89203 ,89221 ,89239 ,89248 ,89248 ,89248 ,89280 ,89288 ,89281 ,89280 ,89281 ,89280 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388 ,89390 ,89388	9/k s/om 9/95/26/4 9/95/26/4 9/95/27/2 9/95/27/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/28/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/95/2 9/9	112 0.58667 -5685 -5685 -5685 -56694 0.59703 -59712 -59724 -59730 0.59736 -59765 0.59774 -59765 0.59774 -59765 0.59784 -598800 -58890 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880 -58880	9,95517 ,95521 ,95526 ,95530 ,95531 ,95542 ,95546 ,95556 ,95556 ,95556 ,95556 ,95557 ,95571 ,97574 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 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,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,9757 ,97	0.90193 .90201 .90210 .90219 0.90217 .90236 .90215 .90236 .90217 .90236 .90217 .90239 .90279 .90288 .90305 0.90305 0.90314 25m 143° 0.90319 .90319 .90319 .90318 0.90357 .90365 .90371 .90390 .904108	9.6.58m 9.95763 9.5768 9.5772 9.5776 9.95781 9.95781 9.95782 9.95796 9.8500 9.95810 9.95820 1.6888 9.95820 1.6888 9.95820 9.95816 9.95836 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 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9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841 9.95841	0.90706 90714 90713 90723 90731 90731 90745 90765 90765 90777 90815 0.9084 7m 111 0.90832 90884 7m 111 0.90832 90887 0.90886 90871 90887 90887	60 56 55 48 44 40 86 28 24 20 16 112 8 4 40 56 52 48 40 56 52 48 40 56 52 48 40 56 52 48 40 56 56 56 56 56 56 56 56 56 56 56 56 56
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.95530 .95530 .95538 .95538 .95546 .95559 .95559 .95567 .95757 .95759 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 .95781 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.95781 .95781 .95781 .9	0.90193 .90201 .90219 .90219 .90219 .902236 .90236 .90253 .90279 .90279 .90279 .90279 .90305 .90301 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 .90303 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28 28 28 28 40 40 40 40 40 40 40 40 40 40 40 40 40

ľ					,	$\Gamma \Lambda B L E$					[Page 9	15
						Haversi	nes.					
		9h 40m	145°	9h 44m	146°	9h 48m	147°	9h 52m	148°	9h 56m	149	1
_s	0	Log. Hav.	Nat. Hav		Nat. Hav.	Log. Hav.	Nat. Hav.	Log, Hav.	Nat. Hav.	Log. Hav.	Set. Hav.	S
0	1	9.95884	0.90958 .90966	9.96119 $.96123$	0.91452 .91469	$9.96347 \\ .96351$	0.91934 .91941	9,96568	0.93402	9.96782	0.92858 .92866	60
- 8	5	.95892	.90974	.96127	.91468	,96355	.91949	.96576	.92118	.96789	.92573	56 52
12	3	.95896	.90983	.96131	.91476	.96359	.91957	.96579	.92126	.96793	.92881	48
16 20	5	9.95900	.90991	9.96135	0.91484 .91493	9.96362 .96366	0.91965 .91973	9.96583 .96586	0.92433	9.96796	0.92588 .92596	44
24	6	.95908	.91008	.96142	.91501	.96370	.91973	.96590	.92449	.96800 .96803	.92903	40 36
28	7	.95912	.91016	.96146	.91599	.96374	.91989	.96594	.92456	.96807	.92911	25
32 36	8	9.95916	0.91024 .91033	9,96150 ,96154	0.91517	9.96377	0.91997	9.96597	0.93464	9,96810	0.92918	28
40	10	.95924	.91941	.96158	.91525 .91533	.96381 .96385	.92005	.96601 .96604	.92472	.96814 .96817	.92926 .92933	24 20
44	11	.95928	.91049	.96162	.91541	.96388	.92020	.96608	.92487	.96821	.92941	16
48 52	12 13	9.95932	0.91057	9.96165	0.91549	9.96392	0.92028	9.96612	0.92495	9.96824	0.92948	12
56 56	14	9.95939	.91066 0.91074.	.96169 9.96173	.91557 0.91565	.96396 9.96400	.92936 0.92044	9.96615	.92502 0.92510	.96827 9.96831	.92955 0.92963	8
0.0		14h	19m	14h	15m	14h	11m	14h			3m	7
_	,	9h 41m	145°	9h 45m	146°	9h 49m	147°	9h 53m	148°	9h 57m	149°	<del> </del>
s 0	15	9.95943	0.91082	9.96177	0.91574	9.96403	0.92052	9.96622	0.92518	9.96834	0.92970	8 60
4 8	16	.95947	.91091	.96181	.91582	.96407	.92060	.96626	.92525	.96837	.92978	56
8 12	17	.95951	.91099	.96185	.91590	.96411	.92068	.96630	.92533	.96841	.92985	52
16	18 19	.95955 9.95959	.91107 0.91115	.96188 9.96192	.91598 0.91606	.96412 9.96418	.92076 0.92083	.96633 9.96637	.92541 0.92548	.96845 9.96848	.92993	48 44
20	20	.95963	.91124	.96196	.91614	.96422	.92091	.96640	.92556	.96852	.93007	40
24	21	.95967	.91132	.96200	.91622	.96426	.92099	.96644	.92563	.96855	.93015	36
28 32	22 23	.95971 9.95975	.91140 0.91149	.96204 9.96208	.91630 0.91638	.96429 9.96433	.92107 0.92115	.96648 9.96651	.92571 0.92579	.96859 9.96862	.93922	32 28
36	24	.95979	.91157	.96211	.91646	.96437	.92123	.96655	.92586	.96866	.93037	24
40	25	.95983	.91165	.96215	.91654	.96440	.92130	.96658	.92594	.96869	.93015	20
44	26 27	.95987 9.95991	.91173 0.91182	•96219 9.96223	91662 0.91670	.96444 9.96448	.92138 0.92146	.96662 9.96665	.92602 0.92609	.96873 9.96876	.93052 0,93959	16
48 52	28	.95995	.91190	.96223	.91678	.96451	.92154	.96669	.92617	.96879	.93067	12
56	29	9,95999	0.91198	9.96230	0.91686	9.96455	0.92162	9.96673	9.92624	9.96883	0.93074	4
		4 1 1										
		14h	18 ^m	14h	$14^m$	14h	10m	14h		14h		
s	,	9h 42m	145°	9h 46m	146°	9h 50m	147°	9h 54m	148°	9h 58m	149°	s
0	30 31	9h 42m 9.96002	145° 0.91206	9h 46m 9.96234	146° 0.91694	9h 50m 9,96459	147° 0.92179	9h 5.4m 9.96676	148° 0.92632	9h 58m 9.96886	149° 0.93081	60
0	30 31 32	9h 42m 9.96002 .96006	145° 0.91206 .91215	9h 46m 9.96234 .96238	146° 0.91694 .91702	9h 50m 9.96459 .96462	147° 0.92170 .92177	9h 54m 9.96676 .96680	148° 0.92632 .92640	9h 58m 9.96886 .96890	149°	60 56
0 4 8 12	$\frac{31}{32}$	9h 42m 9.96002 .96006 .96010 .96014	145° 0.91206 .91215 .91223 .91231	9h 46m 9.96234 .96238 .96242 .96246	146° 0.91694 .91702 .91710 .91718	9h 50m 9.96459 .96462 .96466 .96470	147° 0.92170 .92177 .92185 .92193	9h 54m 9.96676 .96680 .96683 .96687	148° 0.92632 .92640 .92647 .92655	9h 58m 9,96886 .96890 .96894 .96897	149° 0.93081 .93089 .93096 .93104	60 56 52 48
0 4 8 12 16	31 32 33 34	9h 42m 9.96002 .96006 .96010 .96014 9.96018	145° 0.91206 .91215 .91223 .91231 0.91239	9h 46m 9,96234 ,96238 ,96242 ,96246 9,96249	146° 0.91694 .91702 .91710 .91718 0.91726	9h 5()m 9,96459 .96462 .96466 .96470 9.96473	147° 0.92179 .92177 .92185 .92193 0.92201	9h 54m 9.96676 .96680 .96683 .96687 9.96690	148° 0.92632 .92640 .92647 .92655 0.92662	9h 58m 9,96886 ,96890 ,96894 ,96897 9,96900	149° 0.93081 .93989 .93096 .93104 0.93111	60 56 52 48 44
0 4 8 12 16 20	$\frac{31}{32}$	9h 42m 9.96002 .96006 .96010 .96014 9.96018 .96022	145° 0.91206 .91215 .91223 .91231 0.91239 .91247	9h 46m 9.96234 .96238 .96242 .96246 9.96249 .96253	146° 0.91694 .91702 .91710 .91718 0.91726 .91734	9h 50m 9.96459 .96462 .96466 .96470 9.96473 .96477	147° 0.92170 .92177 .92185 .92193	9h 54m 9.96676 .96680 .96683 .96687	148° 0.92632 .92640 .92647 .92655	9h 58m 9,96886 .96890 .96894 .96897	149° 0.93081 .93089 .93096 .93104	60 56 52 48
0 4 8 12 16 20 24 28	31 32 33 34 35 36 37	9h 42m 9.96002 .96006 .96010 .96014 9.96018 .96022 .96026 .96030	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264	9h 46m 9.96234 .96238 .96242 .96246 9.96249 .96253 .96257 .96261	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750	9h 50m 9.96459 .96462 .96466 .96470 9.96473 .96477 .96481	147° 0.92170 .92177 .92185 .92193 0.92201 .92209 .92216	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .96994 .96697 .96701	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92678	9h 58m 9.96886 .96890 .96894 .96897 9.96900 .96904 .96907 .96910	149° 0.93081 .93089 .93096 .93104 0.93111 .93118 .93126 .93133	60 56 52 48 44 40 36 32
0 4 8 12 16 20 24 28 32	31 32 33 34 35 36 37 38	9h 42m 9.96002 .96006 .96010 .96014 9.96018 .96022 .96026 .96030 9.96034	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 0.91272	9h 46m 9.96234 .96238 .96242 .96246 9.96249 .96253 .96257 .96261 9.96265	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758	9h 50m 9.96459 .96462 .96460 .96470 9.96473 .96477 .96481 .96484 9.96488	147° 0.92170 .92177 .92185 .92185 .92193 0.92201 .92209 .92216 .92221 0.92232	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .96994 .96697 .96701 9.96705	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92678 .92685 0.92693	9h 58m 9.96886 .96890 .96894 .96897 9.96900 .96904 .96907 .96910 9.96914	149° 0.93081 .93089 .93096 .93104 0.93111 .93118 .93126 .93133 0.93140	60 56 52 48 44 40 36 32 28
0 4 8 12 16 20 24 28 32 36	31 32 33 34 35 36 37 38 39	9h 42m 9.96002 -96006 -96010 -96014 9.96018 -96022 -96026 -96030 9.96034 -96038	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 0.91272 .91280	9h 46m 9.96234 .96238 .96242 .96246 9.96249 .96253 .96257 .96261 9.96265 .96268	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758 .91766	9h 50m 9.96459 .96462 .96460 .96470 9.96473 .96477 .96481 .96484 9.96488 .96492	147° 0.92170 .92177 .92185 .92185 .92193 0.92201 .92209 .92216 .92221 0.92232 .92249	9h 54m 9.96676 .96680 .96687 9.96690 .96690 .96697 .96701 9.96705 .96708	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92678 .92685 0.92693 .92700	9h 58m 9.96886 .96890 .96894 .96897 9.96900 .96904 .96907 .96910 9.96914 .96917	149° 0.93081 .93089 .93096 .93104 0.93111 .93118 .93133 0.93140 .93118	60 56 52 48 44 40 36 32 28 44
0 4 8 12 16 20 24 28 32	31 32 33 34 35 36 37 38 39 40 41	9h 42m 9.96002 .96006 .96010 .96014 9.96018 .96022 .96026 .96030 9.96034 .96038 .96042 .96046	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 0.91272	9h 46m 9.96234 .96238 .96242 .96249 9.96249 .96253 .96257 .96261 9.96265 .96268 .96272 .96276	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758 .91766 .91774 .91782	9h 50m 9.96459 .96462 .96466 .96470 9.96473 .96481 .96484 9.96488 .96492 .96495 .96499	147° 0.92170 .92177 .92185 .92193 0.92201 .92216 .92216 .92232 .92249 .92248 .92248 .92255	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .96994 .96697 .96701 9.96705 .96708 .96712 .96712	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92678 .92685 0.92693 .92708	9h 58m 9.96886 .96890 .96894 .96897 9.96904 .96907 .96910 9.96914 .96917 .96921 .96924	149° 0.93081 .93089 .93096 .93104 0.93111 .93118 .93126 .93133 0.93140 .93118 .93155	60 56 52 48 44 40 36 32 28 24 20 16
0 4 8 12 16 20 24 28 32 36 40 44 48	31 32 33 34 35 36 37 38 39 40 41 42	9h 42m 9.96002 96006 96010 96014 9.96018 96022 96026 96030 9.96034 96038 96042 96046 9.96049	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 0.91272 .91280 .91289 .91297 0.91305	9h 46m 9.96234 .96238 .96242 .96246 9.96249 .96257 .96261 9.96265 .96268 .96272 .96276 9.96280	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758 .91766 .91774 .91782 0.91790	9h 50m 9.96459 .96462 .96466 .96470 9.96473 .96481 .96484 9.96488 .96492 .96499 9.96503	147° 0.92179 .92177 .92185 .92193 0.92201 .92206 .92216 0.92232 .92249 .92249 .92248 .92255 0.92263	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .96994 .96697 .96701 9.96705 .96715 .96715 9.96715	148° 0.92632 .92640 .92647 .92655 0.926672 .92670 .92678 .92685 0.92693 .92708 .92708 .92715	9h 58m 9.96886 .96890 .96894 .96897 9.96904 .96907 .96910 9.96914 .96917 .96924 9.96928	149° 0.93081 .93089 .93096 .93104 0.93111 .93118 .93126 .93133 0.93140 .93155 .93162 0.93170	60 56 52 48 44 40 36 32 28 24 20 16
0 4 8 12 16 20 24 28 32 36 40 44 48 52	31 32 33 34 35 36 37 38 39 40 41 42 44	9h 42m 9.96002 .96006 .96010 .96014 9.96018 .96022 .96026 .96030 9.96034 .96038 .96042 .96046 9.96049 .96053	145° 0.91206 .91215 .91223 .91231 .91239 .91247 .91256 .91264 0.91272 .91280 .91289 .91297 .91313	9h 46m 9.96234 .96238 .96242 .96249 .96253 .96257 .96265 .96268 .96272 .96276 9.96280 .96283	146° 0.91694 .91702 .91710 .91718 .91718 .91726 .91734 .91742 .91750 .91758 .91766 .91774 .91182 0.91790	9h 50m 9.96459 .96462 .96466 .96473 9.96473 .96481 .96488 9.96488 .96492 .96499 .96499 .96503 .96506	147° 0.92170 .92177 .92185 .92193 0.92201 .92209 .92216 .92221 0.92232 .92249 .92248 .92255 0.92263	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .96994 .96697 .96705 .96708 .96712 .96715 9.96719 9.96719 9.96722	148° 0.92632 .92640 .92647 .92652 0.92662 .92670 .92678 .92685 0.92693 .92708 .92718 .92713	9.6886 9.96886 9.96890 9.96897 9.96900 9.96904 9.96910 9.96914 9.96921 9.96924 9.96928 9.96931	149° 0.93081 .93089 .93096 .93104 0.93111 .93126 .93133 0.93140 .93140 .93162 0.93170	60 56 52 48 44 40 36 32 28 20 16 12 8
0 4 8 12 16 20 24 28 32 36 40 44 48	31 32 33 34 35 36 37 38 39 40 41 42	9h 42m 9.96002 96006 .96010 9.96018 9.96022 9.96034 9.96034 9.96042 9.96049 9.96049 9.96049 9.96057	145° 0.91206 .91215 .91223 .91231 .91237 .91247 .91256 .91264 .91264 .91289 .91289 .91297 .91280 .91395 .91313	9h 46m 9.96234 96238 96242 9.96246 9.96243 9.96253 96257 9.96257 9.96265 9.9627 9.9627 9.96283 9.96283 9.96287	146° 0.91694 .91702 .91710 .91718 0.91734 .91742 .91750 0.91758 .91766 .91774 .91782 0.91798	9.650m 9.96459 9.96462 9.6466 9.96470 9.96477 9.96481 9.96484 9.96488 9.96489 9.96503 9.96503 9.96503 9.96510	147° 0.92170 .92177 .92185 .92193 0.92201 .92209 .92216 .92221 0.92232 .92248 .92248 .92255 0.92255 0.92257	96.54m 9.96676 9.96680 9.96687 9.96690 9.96701 9.96705 9.96708 9.96712 9.96715 9.96715 9.96715 9.96715 9.96715 9.96719	148° 0.92632 .92640 .92647 .92655 0.92678 .92678 .92685 0.92693 .92708 .92708 .92715 0.92731	9h 58m 9.96886 .96890 .96894 .96897 9.96904 .96907 .96910 9.96914 .96917 .96924 9.96928	149° 0,93081 .93089 .93096 .93096 0,93111 .93118 .93126 .93133 .93140 .93155 .93162 0,93177 0,93184	60 56 52 48 44 40 36 32 28 24 20 16
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44	9h 42m 9.96002 96006 .96010 9.96018 9.96022 9.96034 9.96034 9.96042 9.96049 9.96049 9.96057 14h	145° 0.91206 91215 91215 91231 0.91239 91247 91264 0.91272 91289 91297 0.91305 91305 91313	9h 46m 9.96234 .96238 .96242 .96249 9.96249 .96257 .96261 9.96265 .96272 .96272 .96276 9.96283 9.96287 1.4h	146° 0.91694 91702 91710 91710 91718 0.91726 91734 91742 91750 0.91758 91766 91774 91782 0.91790 91798	9h 50m 9.96459 96462 96466 9.96470 9.96473 96487 96481 96484 9.96488 96492 96495 96499 9.96503 96503 96500 1,3 ³ h	147° 0.92170 92177 92187 92187 92187 92193 0.92201 92206 92221 0.92232 92248 92255 0.92268 92267 0.92279	9.65.4m 9.96676 9.6680 9.6683 9.6687 9.96690 9.96994 9.96705 9.96705 9.96712 9.96715 9.96712 9.96722 9.96722	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92685 0.92693 .92708 .92708 .92715 0.92723 .92738	96.58m 9.96886 .96894 .96897 9.96900 .96904 .96914 .96917 .96914 .96924 9.96928 .96931 9.96934	149° 0.93081 .93089 .93089 .93096 .93104 0.93111 .9318 .93133 0.93140 .93148 .93155 .93162 0.93170 .93184	60 56 52 48 43 40 36 32 28 24 20 16 12 8
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44	9h 42m 9.96002 9.96006 9.96014 9.96014 9.96012 9.96024 9.96034 9.96034 9.96042 9.96049 9.96057 14h 9h 43m	145° 0.91206 91215 91225 91231 0.91239 91247 91256 0.91264 0.91272 9.91280 91297 0.91305 91301 0.91321 77m	9h 46m 9.96234 96238 96242 96246 9.96249 9.6253 96257 96266 9.96265 96272 96276 9.96280 9.66283 9.96287 14h 9h 47m	146° 0.91694 .91702 .91710 .91718 0.91726 .91742 .91742 .91750 0.91758 .91766 .91774 .91782 0.91798 .91786	9h 5µm 9.96459 .96462 .96466 .96470 9.06473 .96481 .96484 9.06488 .96492 .96495 .96495 .96506 .96506 9.96510 .44 ^h	147° 0.92170 92177 92187 92187 92187 92193 0.92201 92209 92216 92222 0.92232 92248 92255 0.92263 9.92269 0.92279	9h 54m 9.96676 .96680 .96683 .96687 9.96690 .9697 .96701 .96708 .96712 .96715 9.96705 9.96705 1.40 9h 55m	148° 0.92632 .92640 .92647 .92655 0.92662 .92670 .92685 0.92693 .92709 .92715 0.92723 .92738	9.658m 9.96886 9.6890 9.6894 9.9690 9.9690 9.96914 9.6917 9.6921 9.96924 9.96938 9.96934 1.478	149° 0,93081 .93089 .93096 .93096 0,93111 .93118 .93126 .93133 .93140 .93155 .93162 0,93177 0,93184	60 56 52 48 44 40 36 32 28 20 16 12 8
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44 44	9h 42m 9.96002 9.96006 9.96014 9.96018 9.96018 9.96038 9.96038 9.96049 9.96049 9.96057 14h 9h 43m 9.96065	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 .91264 .91280 .91297 .91297 .91297 .91297 .91297 .91297 .91297 .91305 .91313	9h 46m 9.96234 .96238 .96242 .96249 .96257 .96261 .96268 .96276 .96268 .96276 .96280 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .96287 .9628	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758 .91766 .91774 .91782 0.91780 0.91806 13m 146° 0.91814 .91891	9h 50m 9.96459 .96462 .96466 .96470 9.96473 .96477 .96481 .96484 .96488 .96492 .96495 .96499 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .965	147° 0.92170 .92177 .92187 .92185 .92193 0.92201 .92216 .92216 .92221 .92249 .92249 .92255 0.92263 .92279 .9279 147°	9h 5.4m 9.96676 .96680 .96683 .96687 9.96690 .96971 .96701 9.96708 .96715 .96715 .96715 9.96729 .96729 .96729 .96729 .96729	148° 0.92632 .92640 .92647 .92655 0.92662 .92678 .92685 .92685 .92708 .92708 .92715 0.92723 .92738 .92738 .92736 .92738	9h 58m 9.96886 .96890 .96890 .96890 .96890 .96907 .96900 .96901 .96914 .96914 .96928 .96934 .74h .96 59m 9.96934 .96941 .96941	149° 0.93081 .93089 .93096 .93104 0.93111 .93126 .93134 .93118 .93162 .93167 0.93170 0.93184 ////////////////////////////////////	60 56 52 48 44 40 36 32 28 24 20 16 12 8 4
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44 44	9h 42m 9.96002 96006 96010 96014 9.96018 9.96018 9.96026 9.96030 9.96034 9.96046 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9.96049 9	145° 0.91206 .91215 .91213 .91231 0.91239 .91247 .91256 .91264 0.91272 .91280 .91289 .91289 .91305 .91313 .91317 77m .91329 .91338 .91338	9h 46m 9.96234 .96238 .96242 .96249 .96253 .96257 .96265 .96265 .96265 .96272 .96272 .96276 .96283 .96287 .14h .947m .947m .947m .96291 .96295 .96295	146° 0.91894 .91702 .91710 .91718 0.91726 .91734 .91742 .91742 .91758 .91764 .91782 0.91806 .91806 .91806 .91814 .91822	9h 50m 9.96459 .96466 .96466 .96470 9.96473 .96481 .96492 .96495 .96499 .9.96503 .96506 9.96510 .1370 9 h 51m 9.96511 .96517 .96517	147° 0.92170 92187 92187 92187 92193 0.92201 92216 92221 92240 92249 92255 0.92263 92270 977 147° 0.92286	9h 5.4m 9.96676 .96680 .96687 9.96687 9.96690 9.96705 .96705 .96715 9.96715 9.96719 .96715 9.96729 9.96726 .143 9h 5.5m 9.96720 .96723 .96723 .96723	148° 0.92632 .92640 .92647 .92655 0.92662 .92678 .92685 .92686 .92700 .92708 .92715 0.92723 .92731 0.92738 5m 148° 0.92746 .92753 .92753	9h 58m 9.96886 .96890 .96894 .96897 9.96900 .96914 .96907 .96911 .96921 .96924 .96934 .74h 9h 59m 9.96988 .96931 .96934 .96935 .96945 .96945	149° 0.92081 .93089 .93096 .93104 0.93111 .93118 .93126 .93131 .93140 .93140 .93162 .93162 0.93177 0.93184 /m 149° 0.93192 .93193	60 56 52 48 44 40 36 32 28 24 20 16 12 8 4
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44 44 44	9h 42m 9.96002 .96006 .96010 9.6014 9.96018 .96022 .96026 .96030 9.96034 .96038 .96042 .96049 .96049 .96057 14h 9.96055 .96066 .96069 .96066	145° 0.91206 .91215 .91223 .91231 0.91239 .91247 .91256 0.91272 .91280 .91297 0.91305 .91303 0.91331 0.91331 0.91331 0.91331 0.91335 .91346	9 h 46m 9.96234 .96238 .96246 9.96246 9.96253 .96257 .96265 .96265 .96268 .96272 .96276 .96280 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96283 .96293 .96393 .96393	146° 0.91694 .91702 .91710 .91718 0.91726 .91730 .91742 .91742 .91758 .91766 .91774 .91782 0.91790 .91780 .91806 .91806 .91806 .91806 .91806 .91806	9h 50m  9.96459 9.96462 9.96466 9.96473 9.96473 9.96477 9.96481 9.96488 9.96492 9.46499 9.96503 9.96510 14 ³ h 9.96511 9.96517 9.96517 9.96517	147° 0.92170 92177 92187 92187 92183 0.92201 92216 92221 0.92232 92249 92255 0.92263 92271 0.92279 977	9h 54m 9.96676 .96680 .96680 .96683 .96687 9.96690 .969705 .96708 .96715 9.96715 9.96719 .96715 9.96726 .96726 .96733 .96736 .96736 .96736 .96736 .96736	148° 0.92632 .92640 .92647 .92655 0.92678 .92678 .92678 .92700 .92708 .92715 0.92733 .92735 .92738 .92736 .92738 .92746 .92753 .92761	9h 58m 9.96886 .96890 .96894 .96897 9.96907 .96907 .96914 .96914 .96931 9.96934 .747 9.96938 .96931 9.96934 .96931 .96941 .96945 .96941 .96945 .96945	149° 0.93081 .93089 .93096 .93104 0.93111 .93126 .93134 .93118 .93162 .93167 0.93170 0.93184 ////////////////////////////////////	60 56 52 48 44 40 36 32 28 44 20 16 12 8 4
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 8 12 16 16 16 16 16 16 16 16 16 16 16 16 16	31 32 33 34 35 36 37 38 39 40 41 42 44 44 45 46 47 50	9h 42m 9.96002 96006 96010 96014 9.96018 966022 966030 9.96034 9.96034 9.96049 9.96057 14h 9h 43m 9.96057 9.96073 9.96073 9.96077 9.96077	145° 0.91206 .91216 .91223 .91231 .91237 .91247 .91266 .91264 .9127 .91280 .91289 .91287 .91305 .91301 .91313 .91321 .77m .91356 .91329 .91388 .91396 .91397 .91338 .91316 .91336	9h 46m 9.96234 96238 96242 96246 9.96249 9.96253 96253 96257 96265 96272 96272 96272 96272 96273 96283 9,96287 14h 9 h 47m 9 h 29 h 29 h 29 h 29 h 29 h 29 h 29 h	146° 0.91694 .91702 .91710 .91718 0.91718 0.91734 .91742 .91750 0.91758 .91766 .91774 .91782 0.91806 .91806 .91806 .9198 0.91806 .9198 0.91806 .9198 0.91806 .9198 0.91806 .9198 0.91806	9h.50m 9.96459 .96466 .96466 .96470 .90477 .96481 .96488 .96492 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .96503 .9650	147° 0.92179 .92179 .92185 .92193 0.9201 .92209 .92216 .92246 .92248 .92248 .92248 .92248 .92249 .92249 .92249 .92239 .92210 .922310 .922310 .923310 .923317	9.6.5.4m 9.96676 9.6683 9.6683 9.6683 9.96694 9.96690 9.96705 9.96705 9.96719 9.96726 1.4% 9.96726 9.96726 9.96733 9.96733 9.96736 9.96743 9.96743 9.96743	148° 0.92632 .92647 .92655 0.92662 .92670 .92685 0.92693 .92708 .92708 .92708 .92713 0.92738 .92731 0.92738 .92768 .92753 .92768 .92753 .92768 .92753	9.6.58m 9.96886 9.6890 9.6891 9.6897 9.96904 9.96910 9.96914 9.96913 9.96934 1,789 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934	149° 0.93081 9.3089 9.3096 9.3104 0.93111 93318 9.3155 9.3155 9.3157 0.93184 ////////////////////////////////////	60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 4 57 57 48 44 40
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56	31 32 33 34 35 36 37 38 39 40 41 42 44 44 45 46 47 48 50 51	9h 42m 9.96002 9.96016 96010 96014 9.96018 96022 96030 9.9603 9.9603 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.960	145° 0.91206 .91215 .91223 .91231 .91237 .91247 .91264 .91264 .91289 .91289 .91289 .91289 .91289 .91305 .91305 .91313 .91346 .91338 .91346 .91362 .91370 .91370	9h 46m 9.96234 96238 96242 96246 9.96249 9.96253 96257 96261 9.96265 96272 96276 9.96280 96283 9.96287 14h 9h 47m 9.96291 96299 96306 96310 96310	146° 0.91694 .91702 .91710 .91718 0.91718 0.91726 .91734 .91742 .91742 .91758 .91766 .91774 .91782 .9180 .9180 .9188 .9188 .91888 .91888 .91888	9h.50m 9.96459 9.96465 9.96466 9.96470 9.96477 9.96481 9.96488 9.96495 9.96503 9.96500 14 ³ 9 h.51m 9.96511 9.96528 9.96532 9.96532 9.96532 9.96532	147° 0.92170 .92177 .92185 .92193 0.92201 .92209 .92216 .92232 .92248 .92255 0.92263 .92270 0.92286 .92279 0.92286 .92280 .92310 .92302 .92310 .92302	9h 5.4m 9.96676 9.6683 9.6683 9.6687 9.96690 9.96994 9.96705 9.96705 9.96715 9.96715 9.96729 9.96729 9.96729 9.96729 9.96736 9.96736 9.96736 9.96736 9.96736 9.96743 9.96743	148° 0.92632 .92647 .92647 .92655 0.92669 .92670 .92708 .92708 .92713 0.92733 0.92734 0.92746 .92753 .92761 .92768 0.92753	9.6.58m 9.96886 9.6890 9.6894 9.96897 9.96904 9.96910 9.96914 9.6917 9.6928 9.96931 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598 9.4598	149° 0.93081 9.93089 9.93096 9.93104 0.93111 9.9318 9.93188 9.93155 9.93162 0.93170 0.93184 /m 149° 0.93192 9.93206 9.93214 0.93221 9.93221 9.93228	60 56 52 48 44 40 36 32 28 24 20 16 12 8 4
0 4 8 12 16 20 24 28 8 32 56 S 0 4 8 12 16 6 20 24 28 28	31 32 33 34 35 36 37 38 39 40 41 44 44 45 46 47 45 50 50 50 50 50 50 50 50 50 50 50 50 50	9h 42m 9.96002 96006 96010 96014 96014 96022 96030 9.9603 9.9603 9.9603 9.9604 9.9604 9.9605 14h 9.6065 9.6065 9.6065 9.6065 9.6068 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607 9.9607	145° 0.91206 .91215 .91223 .91231 .91237 .91247 .91256 .91264 0.91272 .91280 .91280 .91280 .91281 145° 0.91305 .91301 .91301 .91301 .91301 .91301 .91303 .91301 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303 .91303	9h 46m 9.96234 96238 96242 96246 9.96246 9.96246 9.96253 96257 96268 96272 996276 996276 996287 14h 94.47m 9.96291 96295 96302 9.96302 9.96300 9.96301 9.96310 9.96314 9.96314	146° 0.91694 .91702 .91710 .91718 0.91718 0.91734 .91742 .91750 0.91758 .91766 .91774 .91789 0.91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806	9h.50m 9.96459 .96466 .96466 .96470 .96481 .96481 .96488 .96492 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96495 .96503 .96503 .96536 .96536 .96536 .96536	147° 0.92177 92185 92187 92185 92193 0.9201 92209 92214 0.9224 92248 92255 0.92263 92276 0.92279 977 0.92296 92310 0.92317 0.92315 0.92315 0.92313 0.92313	9.6.5.4m 9.96676 9.6683 9.6683 9.6683 9.9687 9.96690 9.96994 9.96701 9.96708 9.96712 9.96715 9.96718 9.96726 1.430 9.96733 9.96733 9.96743 9.96743 9.96747 9.96756	148° 0.92632 .92647 .92655 0.92662 .92670 .92685 0.92693 .92708 .92708 .92708 .92713 0.92738 .92731 0.92738 .92768 .92753 .92768 .92753 .92768 .92753	9.6.58m 9.96886 9.6890 9.6891 9.6897 9.96904 9.96910 9.96914 9.96913 9.96934 1,789 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934 9.96934	149° 0.93081 9.3089 9.3096 9.3104 0.93111 93318 9.3155 9.3155 9.3157 0.93184 ////////////////////////////////////	60 56 52 48 44 20 60 56 57 48 44 40 56 57 48 44 40 56 57 48 44 40 57 40 57 48 44 40 57 48 44 40 40 40 40 40 40 40 40 40 40 40 40
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0 4 4 8 12 16 20 24 48 52 56 20 4 28 32 36 32 36 40 44 48 48 52 56 6	31 32 33 34 35 36 37 38 39 40 41 42 44 44 45 46 47 48 55 55 55 54 55	9h 42m 9.96002 96006 96010 96014 9.96018 96022 96030 9.96034 9.96034 9.96049 9.96057 14h 9h 43m 9.96069 9.96077 9.06061 9.96074 9.96074 9.96074 9.96074 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084 9.96084	145° 0.91206 .91215 .91223 .91231 .91237 .91247 .91256 .91264 .91280 .91289 .91287 .91305 .91305 .91313 .91313 .91347 .91362 .91395 .91397 .91362 .91379 .91379 .91379 .91387 .91362 .91379 .91379 .91387 .91368	9h 46m 9.96234 9.96238 96242 9.96246 9.96249 9.96253 9.96257 98261 9.96265 9.96272 9.96276 9.96280 9.6283 9.96287 13h 9h 47m 9.96295 9.96302 9.96302 9.96302 9.96306 9.96302 9.96306 9.96307 9.96306 9.96306	146° 0.91694 .91702 .91710 .91718 0.91718 0.91734 .91734 .91755 .91756 .91774 .91782 0.91758 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806	9h.50m 9.96459 9.96466 9.96466 9.96470 9.96481 9.96481 9.96482 9.96492 9.96503 9.96503 9.96510 1,3% 9h.57m 9.96481 9.96517 9.96517 9.96517 9.96513 9.96536 9.96539 9.96538	147° 0.92179 .92179 .92179 .92185 .92193 0.92201 .92209 .92216 .92232 .92245 .92245 .92246 .92246 .92246 .92247 .92286 .92271 .92292 .9233 .92271 .92392 .92310 .92317 .92316 .92317 .92333 .92311 .923356 .923356	9h 5.4m 9.96676 9.6683 9.6683 9.6683 9.96690 9.96994 9.96708 9.96708 9.96719 9.96719 9.96729 9.96729 9.96726 9.96726 9.96733 9.96733 9.96736 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96743 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.96759 9.9675	148° 0.92632 .92647 .92647 .92655 0.92662 .92670 .92685 0.92693 .92708 .92708 .92718 .92731 .92731 .92731 .92753 .92761 .92766 .92753 .92761 .92786 .92786 .92786 .92786 .92786 .92786 .92786 .92786 .92786 .92786 .92881 .928813	9.6.58m 9.96886 96890 96894 90897 9.96904 9.96910 9.96914 9.96914 9.96928 9.96934 1.78 9.96934 1.78 9.96941 9.96945 9.96955 9.96955 9.96958 9.96965 9.96968 9.96968 9.96968 9.96968	149° 0.93081 9.3089 9.3096 9.3104 0.93111 93118 93133 0.93140 9.3155 9.3162 0.93170 0.93184 ////////////////////////////////////	60 56 56 52 48 44 40 36 32 28 20 16 12 4 40 56 57 48 40 56 57 48 40 56 57 48 40 57 40 40 40 40 40 40 40 40 40 40 40 40 40
0 4 4 8 8 12 16 20 24 4 8 8 52 56 6	31 32 33 34 35 36 37 38 39 41 42 44 44 45 55 55 55 56	9h 42m 9.96002 9.96016 96014 9.96018 96022 9.96036 9.96030 9.96038 96042 9.96049 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96053 9.96077 9.96061 9.96081 9.96088 9.96088 9.96096 9.96096 9.96096 9.96096 9.96096	145° 0.91206 .91215 .91215 .91223 .91231 0.91239 .91247 .91256 .91264 0.91272 .91289 .91289 .91287 0.91305 .91313 .91313 .91315 0.91329 .91397 .91397 .91398 .91346 .91362 .91370 .91387 0.91362 .91370 .91387 0.91363 .91411 .91419	9h 46m 9.16634 96238 96242 96246 9.96249 96253 96267 96261 90268 90272 96276 9.16280 9.6283 9.96287 7.06281 9.6283 9.96287 9.96295 9.6302 9.96302 9.96302 9.96310 96310 96317 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631 9.9631	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91758 .91766 .91774 .91782 .91789 .91788 .91886 .91886 .91886 .91886 .91886 .91886 .91886 .91886 .91886 .91888	9h.50m 9.96459 9.96466 9.96466 9.96470 9.96473 9.96481 9.96488 9.96495 9.96503 9.96506 9.96510 9.96511 9.96528 9.96528 9.96528 9.96539 9.96530 9.96550 9.96550 9.96550 9.96550	147° 0.92170 9.92170 9.92170 9.92170 9.92185 9.92193 0.92201 9.92216 9.92248 9.92248 9.92255 0.92263 9.92271 0.92263 9.92271 0.92263 9.92310 0.92291 9.93302 9.93310 0.92317 9.9333 9.93311 9.93356 9.93364 9.93366	9.6.54m 9.96676 9.6683 9.6683 9.6683 9.6687 9.96690 9.96701 9.96705 9.96705 9.96715 9.96729 9.96729 9.96733 9.96740 9.96733 9.96740 9.96740 9.96754 9.96754 9.96754 9.96754 9.96754 9.96754 9.96754 9.96755 9.96754 9.96754 9.96755 9.96754 9.96754 9.96754 9.96755 9.96754 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96755 9.96765 9.96765	148° 0.92632 .92640 .92647 .92655 .92670 .92685 .92708 .92708 .92708 .92708 .92715 0.92723 .92713 0.92738 .92738 .92731 148° 0.92746 .92753 .92768 .92768 .92768 .92768 .92783 .92781 .92988	9h.58m 9.96886 96890 96890 96894 96907 9.96900 9.96910 9.96914 9.96924 9.96931 9.96934 1.7h 9.9693 9.9693 9.9694 9.9695 9.9695 9.9695 9.9695 9.9695 9.9695 9.9695 9.9696 9.9697 9.9697 9.9697	149° 0.93081 9.3096 9.3096 9.3096 9.3111 93118 93118 93133 0.93140 93148 93155 1.93167 0.93170 0.93184 7m 149° 0.93192 9.3192 9.3193 9.3206 9.3224 9.3228 9.3228 9.32254 9.32254 9.32254	600 566 524 444 400 366 322 28 24 200 162 844 400 566 572 48 444 400 362 322 48 444 400 566 48 444 400 566 48 444 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 666 400 400
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0 4 8 12 166 20 0 24 28 32 366 44 48 8 52 566 20 24 28 32 366 40 44 45 25 366 40 44 45 55 50	31 32 33 34 35 36 37 38 39 40 41 44 44 44 45 55 55 56 57 57 57 57	9h 42m 9.96002 9.96016 9.96016 9.96018 9.96018 9.96030 9.96034 9.96038 9.96049 9.96038 9.96057 14h 9.4661 9.9605 9.96057 9.96057 9.96057 9.96057 9.96057 9.96059 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 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.91223 .91231 .91237 .91247 .91256 .91264 0.91272 .91280 .91280 .91280 .91305 .91313 0.91321 .77m .91338 .91316 .91367 .91370 .91370 .91370 .91411 .91419 .91436	9h 46m 9.16634 9.16634 9.16638 9.16638 9.16642 9.166246 9.166253 9.166253 9.16626 9.16626 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16628 9.16629 9.16629 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636 9.16636	146° 0.91694 .91702 .91710 .91718 0.91726 .91734 .91742 .91750 0.91758 .91766 .91774 .91789 0.91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 .91806 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0 4 8 12 166 20 42 28 32 366 44 48 32 24 28 36 36 40 44 48 55 25 66	31 32 33 34 35 36 37 38 40 41 41 41 41 41 41 41 41 41 41 41 41 41	9h 42m 9.96002 9.96016 9.96016 9.96018 9.96018 9.96030 9.96034 9.96038 9.96049 9.96038 9.96057 14h 9.4661 9.9605 9.96057 9.96057 9.96057 9.96057 9.96057 9.96059 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 9.96078 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91266 91266 91280 91280 91280 91280 91281 177m 145° 0.91329 91338 9,91321 177m 145° 0.91329 91388 91346 91351 0.91362 91363 91311 91419 91436 91436 91446 91446 91446	9h 46m 9.96234 9.96238 96242 9.96240 9.96249 9.96253 9.6257 9.96265 9.96272 9.96276 9.96272 9.96276 9.96280 9.96287 14h 9.96287 9.96302 9.96302 9.96302 9.96303 9.96314 9.96311 9.96325 9.96329 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332 9.96332	146° 0.91694 .91702 .91710 .91718 0.91716 .91718 0.91726 .91734 .91750 0.91758 .91766 .91774 .91782 0.91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896 .91896	9h.50m 9.96459 9.96466 9.96466 9.96470 9.96477 9.96481 9.96488 9.96492 9.96503 9.96503 9.96510 1349 9.96517 9.96511 9.96517 9.96514 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536 9.96536	147° 0.92170 .92177 .92185 .92193 0.9201 .92209 .92216 .92246 .92245 .92245 .92246 .92246 .92247 .92248 .92250 .92271 .9230 .92271 .9230 .92317 .92310 0.92317 .92356 .92316 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318 .92318	9.6.5.4m 9.96676 9.6683 9.6683 9.6683 9.96687 9.96690 9.96994 9.96708 9.96708 9.96719 9.96708 9.96726 1.4M 9.96726 9.96733 9.96733 9.96736 9.96743 9.96743 9.96744 9.96758 9.96775 9.967759 9.967759	148° 0.92632 .92647 .92647 .92655 0.92669 .92670 .92708 .92708 .92708 .92731 0.92731 0.92731 0.92731 .92753 .92751 .92761 .92764 .92753 .92761 .92766 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9278 .9288 .9288 .9288	9.6.58m 9.96886 9.6890 9.6894 9.6987 9.6980 9.96914 9.6917 9.6911 9.6913 9.96914 9.96934 12,6983 9.96934 9.96935 9.96935 9.96935 9.9695 9.9695 9.9695 9.9695 9.9695 9.9695	149° 0.93081 93096 93104 0.93111 93118 93133 0.93140 93155 93155 93162 0.93170 0.93184 /m 149° 0.93192 93206 93221 0.93221 0.93221 93225 93225 93236 93236	600 564 524 444 400 366 322 884 420 566 567 486 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 .666 328 440 440 .666 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 328 440 440 440 440 440 440 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Page 916]

TABLE 45.

1	1		150	116,	151	10:	452	104 1.	153-	100 1	151	
ļ				11.	4.1	Jos. Ly	int. His	1 . 11	S. t. Hay	Lo. Ha	Nat. 11a	s
1	13	9 4 1	0.93361	9 6.55	0.93751	1	0.91147	9.55 Son	0.94550	9.17745	0.94540	60
ĺ	;	196	.93309	97192	.93738	.97. 5.	.94154	97.569	.95557	.97745	.94946	56
1.0	- 2	105.196	.93316	9"   95	.93745	.97.387	.94161	97579	.91564	.97751	.94952	52
1	3	96999	.93323	97195	.9375?	.97390	.94165	75779. 9 97778	.94570 0.94577	.97754	.94959	48
11	1	9 5002	0.93330	# 57201 7205	0.93759 .93766	9,97393	0.94175	0.055	.94583	9.97756	0.91965	44
1	5 6	11,000 97009	.93345	97.08	.93773	.97 (00)	.94155	1,22	.94590	397762	.91975	36
	3	97012	.93352	97211	.93750	97 (0.)	94195	97587	.91596	97765	.94951	33
1	- ;	9 (5010)	0.53359	9 97214	0.93787	9 97 106	0.94202	9.97591	0.94603	9,97768	0.94991	28
1	9	C019	.93367	.97218	.93794	.97 (09)	.91209	.97594	.91610	.97771	.91997	24
	10	602	.93371	.97221	.93501	.97412	.91215	. (7597)	.94616	.97774	.95003	20
	11	60.6	.93354	97224	.93505	.97415	.91222	9,7500	.91623	.97777	.95010	16
1.2	12	9 970g9 970d3	0.93355 .93395	9 97227	0.93815	9 97 H S 97-122	0.91779	9 97603 - 97606	0 94629 .94636	9.97780	0.95016 .95022	12
	14	9.97056	0.93103	9 972 1	0.93529	9 97425	0.91213	9 97609	0.91643	9 97785	0.95029	4
		- '	1000	134	; ; m	134	51m	1.1h	37m	13h	43m	"
		1 .	7									<del>' -</del>
1			150	10h 5m	151	Inh 9m	152	107-1.0		10h 17t		s
1	15	9.9 39	0.93410	9 97237	0.93536	9,97428	0.91249	9.97612	0.94649	9.97788	0.95035	60
	16	2014	.93117	.07240 57244	.93543	.97431 .97434	.94256	.97615 .97618	.91655	.97791 .97794	.95041	56 52
	15	11111	.93432	972 17	.93557	.97437	.91270	.97621	.91669	.97797	.95051	48
1	19	.a. 97052	0.93439	9 97250	0.93561	9.97440	0.91276	9 97624	0.94675	9.97800	0.95060	44
	20	9,77,756	.93+46	97253	.93571	.97143	.94283	.97627	.94652	.97803	.95066	-j()
	24	971.59	.93453	.97257	.93575	.97417	.91290	.97650	.91688	.97806	.95073	36
	22	9706.1	.93160	.97260	.93×55	.97450	.94297	.97633	.91695	97808	.95079	32
	23 24	9 CO66 20069	93465	9,97263 97266	0.93599	9,97,153 .97,456	.94303	9,97636	0.91701	9.97814	0.95085 .95092	28 24
	25	970.3	.93152	4531.9	.93006	.97 159	.94317	97642	.94714	97817	.95098	20
	26	9,0,6	.93459	97,71	.93913	57462	.94324	97645	.91724	.97 52.0	.95104	16
1	27	3.9,3179	0,93496	9 972,6	0.93920	9 97 16%	0.91339	9,97647	0.94727	9.65%23	0.95111	12
	25	1,118.)	.93.703	17. 2	.93927	97.465	.94337	.900010	.94734	.97826	.95117	8
ì	29	9.970.59	0.93541	11.00	0.93934	9 97 17 1	0.94344	9.90856	0.91710	9.97829	0.95123	-5
				7.1	) (	1 7 7	To a	$I \circ h$	-	1 7 h	* 100	1
			450	1 1 .	151	1.00	152	105 1.	153	1 18	154	S
	30	9.1.9	0.93518	144	0.93944	9 1	0.91351	9,976 %	0.91747	9 57831	0.95129	60
	31	100,	0.93518 .93525	97.1 1	0.93944 .93948	97,178	0.91351	9,976 m 97659	0.94747 84753	9 53831	0.95129 .95136	60 56
	31 32	9 (19)	0,93518 ,93525 ,93532	977 1	0.93944 .93948 .93955	207.051	0.94354 .94357 .94364	9,976 % 97659 97662	0.91747 .91753 .91766	9 × 831 5 × 54 5 × 57	0.95129 .95136 .95142	60 56 52
	31 32 33	9 (19) 9 (19) 1,012)	0,93518 ,93525 ,93532 ,93539	977 1 973 0 973 0 973 0	0.93944 .93948 .93955 .93962	10 10 8 207 6 8 1 90 1 8 4	0.91351 .91357 .91361 .91371	9,976 in 97679 97662 97663	0.91747 84758 96719, 66749,	9 +3831 -53534 -57837 -57830	0.95129 .95136 .95142 .95148	60 58 52 48
1	31 32	9 (19)	0,93518 ,93525 ,93532	977 1 972 92 972 95 9 97 298	0.93944 .93948 .93955 .94962 0.93969	97478 97481 97484 997487	0.91351 .91357 .91361 .91321 0.91377	9,976 % 97679 97662 ,97665 9,97668	0.91747 E6759 .91766 .94766 .0.94773	9 53831 82584 75787 97810 97846	0.95129 .95136 .95142 .95148 0.95154	60 55 48 44 44 44
1	31 32 33 34 34 35 36	095 9 0 06 0 0 09 9 07 105 9 7 106 9 7 109	0,93518 493525 493532 493539 0,93546	972 9 97292 97295 97298 97391 97301	0.93944 .93948 .93955 .93962	97478 297481 97484 937487 97490 97493	0.91351 .91357 .91361 .91371	9,976 % 97659 97662 ,97665 9 97668 ,97674	0.91747 84758 96719, 66749,	9 +3831 -53534 -57837 -57830	0.95129 .95136 .95142 .95148	60 58 52 48
	31 32 33 34 35 35 36 37	090, 9 000, 0,009 9 07503 97506 97509 9 153	0,93518 ,93525 ,93532 ,93539 0,93546 ,93554 ,93564	972 4 972 92 972 92 972 98 973 91 973 95 973 08	0,93944 ,93948 ,93955 ,93962 0,93969 +,93976 ,93982 ,93989	97178 97384 97384 97487 97490 97493 97496	0.91351 .91357 .91361 .91371 8.91377 .91381 .91394	9,976 % 97659 97662 ,97665 97668 ,97674 ,97674	24716. 83716. 94766. 94766. 94773.	9 + 2831 - 2724 - 2726 - 97810 - 97846 - 97849 - 97851	0,95129 ,95136 ,95142 ,95148 0,95154 ,95161	60 58 52 48 40
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	31 32 33 34 35 36 37 38 39	004. 4 004. 4,004. 4,004. 1076. 1076. 1076. 1076. 1076. 1076. 1076.	0.93518 .93525 .93532 .93539 0.93546 .93564 .93564 .93568 0.93575 .93582	972.0 972.02 972.03 972.03 973.01 973.05 973.08 973.11	0.93944 .9394× .93955 .93962 0.93969 • .93976 .93989 0.93996	97178 97381 97384 97387 97490 97493 97494 97502	0.91354 .91257 .91364 .91371 0.91377 .91384 .91394 .91397 0.94401	9,976 % 97659 97662 ,97665 9,97664 ,97674 ,97677 9,97680 ,9768	0.91747 .91753 .91766 .94766 0.94773 .94719 .94786 .91792 0.94789	9 97831 97834 97840 9 97843 97846 97849 97854 907854 907854	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95173 0.95179	60 58 52 48 44 40 58 28 24
	31 32 33 34 35 36 37 38 39	096 9 096 6 0706 9 1706 9 116 9 116 9 116 9 116 9 116	0.93518 .93525 .93532 .93539 0.93546 .93554 .93564 .93568 0.94575 .93582	972-9 972-92 972-93 9-97-98 97-901 97-905 97-308 9-7-314 97-314 97-314	0.93344 .9394s .93955 .93962 0.93969 • .93976 .93989 0.93999 0.93999 .94063	97.178 97.481 97.484 9.97.487 97.490 97.496 97.496 97.502 97.505	0.94354 .94357 .94364 .94377 .94384 .94394 0.94404 .94444 .94444	9,976 m 97659 97662 ,97665 9,9766 ,9767 ,9767 9,97680 ,9768 ,9768 ,97686	0.91747 .91753 .91766 .94766 0.94773 .94776 .94786 .91792 0.94805	9 97831 97834 97846 97846 9 97846 97846 97854 9.07854 97854 97856	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95173 0.95179 .95185	60 58 52 44 40 53 28 40 53 28 24 90
	31 32 33 34 35 36 37 38 39	004. 4 004. 4,004. 4,004. 1076. 1076. 1076. 1076. 1076. 1076.	0.93518 .93525 .93532 .93539 0.93546 .93564 .93564 .93568 0.93575 .93582	97.1 0 97.292 9.295 9.2758 9.2750 9.2305 9.7308 9.97314 9.7314 9.7317 9.7317	0.93344 .93948 .93955 .93962 0.93969 *.93976 .93989 0.93996 .94063 .91010	97.178 97.481 97.184 9.7.187 97.490 97.490 97.490 97.502 97.502 97.503	0.94354 .94357 .91364 .91371 0.94377 .94384 .94397 0.94401 .94144 .94144 .94144	9,976 m 97659 97665 97665 9 97668 ,9767 ,97677 9,97680 ,9768 ,97686 97689	0.91747 .91753 .91766 .94766 0.94779 .94776 .94786 .91792 0.94799 .94805 .94814	9 97831 97834 97840 9 97843 97846 97849 97854 97854 97860 97860	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95179 .95179 .95185	60 58 52 48 44 40 58 28 24 20 16
	31 32 33 34 35 36 37 38 39 40 41 42 43	09, 500, 500, 500, 500, 500, 500, 500, 5	0.93518 .93525 .93532 .93539 0.93546 .93564 .93568 0.94575 .93582 .93589 0.93693	97.00 97.92 9.205 9.708 9.700 97.005 97.05 9.7311 97.311 97.321 9.97.321	0.93944 .93948 .93952 0.93962 0.93969 .93976 .93989 0.93996 0.93996 .94003 .94017 0.94024	97478 97381 97487 97487 97490 97490 97502 97508 97508 9 97514 97514	0.91351 .91357 .91366 .91571 8.91377 .91381 .91397 0.94401 .94114 .94114 .94114 .94134	9,976 % 97659 97662 97665 9 97664 1 97677 9,97680 97688 97689 97689 9,97689 9,97689 9,97689	0.91747 .91753 .91766 .94766 0.94773 .94779 .94799 .94805 .94815 0.94841 0.94848	9 97831 97834 97840 9 97846 97846 97849 97854 97854 97854 97860 97868	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95173 0.95179 .95185 .95192 .95204 .95210	60 58 52 44 40 53 28 40 53 28 24 90
	31 32 33 34 35 36 37 38 39 40 41 42	900, 900, 900, 900, 900, 901, 901, 901,	0,93518 ,93525 ,93532 ,93539 0,93546 ,93564 ,93568 0,93575 ,93582 ,93582 ,93582	97.1 0 97.292 9.295 9.798 97.301 97.305 9.7314 97.314 97.314 97.321 9.7321 9.7321 9.7321 9.7321	0.93944 .93948 .93952 0.93962 0.93969 · .93976 .93989 0.93996 0.93996 .94003 .94017 0.94024 .94034 0.94034	97.178 97.481 97.484 9.7.487 97.490 97.490 97.490 97.502 97.502 97.503 9.7503	0.91351 .91357 .91366 .91371 8.91377 .91381 .91394 .91397 0.94401 .94111 .94114 .94144	9,976 % 97659 97665 9 97665 1 ,97674 ,97677 9,97680 ,97689 97689 9,97689 9,97689	0.91747 .91753 .91766 .91766 0.94773 .91719 .91786 .91792 0.94805 .94805 .94811 .94845 0.94821	9 97831 97834 97840 9 97846 97849 97854 97854 97854 97853 97863 97863 97863	0.95129 .95136 .95142 .95143 0.95154 .95167 .95167 .95173 0.95179 .95185 .95192 .95192	60 58 52 48 44 40 56 32 84 20 16 12
	31 32 33 34 35 36 37 38 39 40 41 42 43	09, 500, 500, 500, 500, 500, 500, 500, 5	0.93518 .93525 .93532 .93539 0.93546 .93564 .93568 0.94575 .93582 .93589 0.93693	97.00 97.92 9.205 9.708 9.700 97.005 97.05 9.7311 97.311 97.321 9.97.321	0.93944 .93948 .93952 0.93962 0.93969 · .93976 .93989 0.93996 0.93996 .94003 .94017 0.94024 .94034 0.94034	97478 97381 97487 97487 97490 97490 97502 97508 97508 9 97514 97514	0.91351 .91357 .91366 .91321 8.91377 .94381 .94394 0.94401 .94111 .94114 .94144 0.94434	9,976 % 97659 97662 97665 9 97664 1 97677 9,97680 97688 97689 97689 9,97689 9,97689 9,97689	0.91747 .91753 .91766 .94766 0.94779 .94779 .94779 .94895 .94805 .94811 .94814 .94814 .94834 0.94834	9 97831 97834 97840 9 97846 97846 97849 97854 97854 97854 97860 97868	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95173 0.95179 .95185 .95192 .95204 .95210	60 56 52 48 40 56 28 29 16 12 8
	31 32 33 34 35 36 37 38 39 40 41 42 43	09, 500, 500, 500, 500, 500, 500, 500, 5	0.93518 .93525 .93532 .93539 0.93546 .93564 .93568 0.94575 .93582 .93589 0.93693	97.1 0 97.292 9.295 9.798 97.301 97.305 9.7314 97.314 97.314 97.321 9.7321 9.7321 9.7321 9.7321	0.93944 .93948 .93952 0.93962 0.93969 · .93976 .93989 0.93996 0.93996 .94003 .94017 0.94024 .94034 0.94034	97.178 97.481 9.7187 97.187 97.190 97.496 9.7199 97.502 97.502 97.508 9.7514 9.7514 9.7518	0.91351 .91357 .91361 .91371 .91381 .91381 .91394 .91397 .94141 .94145 .94141 .94148 .94144 .94138	9,976 % 97659 97659 97668 ,976 1 ,97674 ,97674 ,97680 ,97680 ,97680 9,97680 9,97680 9,97680 9,97692	0.91747 .91753 .91766 .94766 0.94773 .91719 .91786 0.91786 .91841 .94805 .94841 .94834 0.94837	9 9/831 9/834 9/837 9/846 9/846 9/846 9/849 9/857 9/857 9/860 9/863 9/97866 9/863 9/97866	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95167 .95192 .95192 .95192 .95204 .95210 0.95217	60 56 52 48 44 40 56 32 24 20 16 12 8
	31 32 33 34 35 36 37 38 39 40 41 42 43 43	09, 500, 500, 500, 500, 500, 500, 500, 5	0,93518 ,93525 ,93532 0,93536 0,93546 ,93564 ,93564 0,93582 ,93582 ,93582 0,93693 ,93614 0,93618	972. 0 972.92 9. 205 9.	0.93944 .93948 .93955 0.93969 93976 .93989 0.93996 .94003 .91010 .94014 .94034 .94038	97.478 97.484 9.7187 9.7187 97.490 97.490 97.490 97.502 97.502 97.503 9.97.514 9.97.514 9.97.518	0.91351 .91357 .91386 .91371 .91381 .91371 .94381 .94394 .94397 .94111 .94118 .94118 .94124 .94138	9,976 at 97759 at 75759 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 7575 at 757	0.91747 .91753 .91766 .94766 0.94773 .91719 .91786 0.91786 .91841 .94805 .94841 .94834 0.94837	9 5:831 9:834 9:837 9:7840 9:7840 9:7849 9:7854 9:7854 9:7857 9:7863 9:7863 9:7868 9:7868 9:7868	0.95129 .95136 .95142 .95148 0.95154 .95161 .95167 .95167 .95192 .95192 .95192 .95204 .95210 0.95217	60 56 52 48 40 56 28 29 16 12 8
	31 32 33 34 35 36 37 38 39 40 41 42 43 33	09, 500, 500, 500, 500, 500, 500, 500, 5	0,93518 ,93525 ,93532 ,93532 0,93546 ,93554 ,93568 ,93568 ,93589 ,93589 ,93644 0,93648 150 0,93648	972 0 97202 2 97202 2 97202 2 97201 2 97201 2 97201 2 97201 2 97201 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 97202 2 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.9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .9404 .94	9,178 27,81 9,781 9,784 9,97,87 9,799 9,799 9,700 9,700 9,700 9,701 9,97514 9,97518 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	0.91351 .91257 .91361 .91371 .91371 .91381 .91397 0.94401 .9411 .94114 .94114 .94124 .94134 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .9414 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .9414 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94	9,976 ab 97759 g 7762 g 7762 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97768 g 97761 g 97761 g 97761 g 97761	0,91747 ,91753 ,91766 0,94773 ,91766 0,94773 ,91792 0,94799 0,94805 ,94815 0,94818 0,94818 0,94837 7 1537	9 9/831 9/834 9/837 9/846 9/846 9/846 9/846 9/854 9/856 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 9/866 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	31 32 33 34 35 36 37 38 39 40 41 42 43 51	09, 500, 500, 500, 500, 500, 500, 500, 5	0,93518 ,93525 ,93532 ,93534 ,93534 ,93564 ,93564 ,93582 ,93582 ,93582 0,93663 ,93614 0,93648 150	972. 0 97.202 97.203 97.203 97.203 97.201 97.314 97.321 9.7427 9.7427 9.7427 9.7433 1766.74 9.7433 9.7433 9.7433 9.7433	0.93944 9.9148 9.93652 0.93969 0.93969 9.93989 0.93989 0.93986 9.1000 9.1001 0.94024 0.94038 0.94045 0.94045 0.94045	9,178 27181 9,7181 9,7187 9,7190 9,7190 9,7190 9,7102 9,7702 9,7704 9,77014 9,97018 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	0.91351 .91257 .91361 .91371 .91371 .91391 .91397 .94111 .94111 .94114 .94134 .94134 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 .94144 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	31 32 33 34 35 36 37 38 39 40 44 42 43 43 44 42 43	09, 500, 500, 500, 500, 500, 500, 500, 5	0,93518 ,935325 ,935326 ,935346 ,935546 ,93554 ,93558 ,93558 ,93582 ,93596 0,94648 150 0,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 ,94648 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.948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.43 .948.	9 9 8 8 3 1 9 8 8 3 1 9 8 8 3 1 9 9 7 8 3 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 7 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	0.95129 0.95129 0.95136 0.95136 0.95161 0.95161 0.95167 0.95173 0.95179 0.95204 0.95204 0.95207 0.95207 0.95207 0.95207 0.95207 0.95223 0.95208 0.95223 0.95208 0.95223 0.95235 0.95235 0.95236 0.95236 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254 0.95254	8 8 4 4 4 4 6 5 6 5 6 5 2 4 4 4 6 5 6 5 6 5 2 4 4 6 6 6 6 5 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	31 32 33 34 45 36 36 38 39 40 41 42 43 43 45 46 47 54 54 54 54 54 54 54 54 54 54 54 54 54	(4), (6), (7), (7), (7), (7), (7), (7), (7), (7	0,93518 .93525 .93532 .935339 .93534 .93554 .93568 .93568 .93569 .93663 .93614 .93662 .93662 .93662 .93663 .93663 .93663 .93664 .93667 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672 .93672	97.1 1 97.2 2 97.2 1 97.2 1 97.2 1 97.2 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97.3 1 97	0.94941 .9 1948 .9 1958 .9 1969 .9 1976 .9 1976 .9 1977 .9 1017 .9 1017 .9 1017 .9 1017 .9 1017 .9 1017 .9 107 .9 117 .9 117	9 178 97 184 9 2184 9 2187 9 1193 9 1193 9 2700 9 2700 9 2700 9 2701 9 2701 9 2701 9 2701 9 2701 9 2701 9 2701 9 2702 9 2702 9 2702 9 2702 9 2702 9 2702 9 2703 9 2	0.94354 .90571 .91366 .91371 .91384 .91397 .91397 0.94401 .91414 .91434 .94434 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94454 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554 .94554	9,976.0, 97659 97663 97765 9,97668 ,976.1 97680 97680 97680 97680 97680 97680 97680 97680 97761 97701 97710 97710 97710 97711 97711 97711 97711 97711 97711 97711 97711 97711 97711 97711	0.917.47 .917.66 .917.66 .9177.6 .9177.6 .9177.9 .917.9 .917.9 .918.41 .918.41 .948.3 .948.3 .948.3 .948.3 .948.3 .948.3 .948.3 .948.3 .948.3 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6 .948.6	9 9 8 8 3 1 9 8 8 3 1 9 8 8 3 1 9 9 7 8 3 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 6 3 9 7 8 7 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	0.95129  .95139 .95149 .95146 .95161 .95161 .95161 .95163 .95192 .95192 .95192 .95192 .95204 .95217  .95204 .95217 .9523 .95217 .95223 .95224 .95224 .95225 .95225 .95225 .95226 .95225 .95226 .95227 .95256 .95227 .95256 .95297 .95256 .95297 .95256 .95297 .95256	60   56   52   48   43   40   60   82   23   20   16   12   52   48   40   52   52   52   52   52   52   52   52

		10h 201		10h 24n		10h 281	n 157°	10h 32"	155°	10k 36	n 159	i
S			Nat. Hav		Nat. Hav.	Log. lia.	Na. Hav.	Logitta	Nat. Hav.	Log. Hav.	Nat. Hav.	s
()	0	9.97916	0.95315	9.98081	0.95677	9.98239	0.96925	9.98389	0.95359	9.95503	0.96679	60
4	1	.97919	.95322	.98084	.95683	.98241	.96031	.98392	.96365	.98536	.96654	56
-8	3	.97922	.95328	.98086	.95689	.98244	.96037	.98394	.96370	.98538	.96689	5:
12	3	.97925	.95334	.98089	.95695	.98246	.96042	.98397	.96376	.98540	.96695	45
16	1	9.97927	0.95340	9.98092	0.95701	9.98249	0.96048	9,98399	0.96381	9,95543	0.96700	144
20	- 5	.97930	.95346	,98094	.95707	.98251	.96054	.98402	.96356	.98545	.96705	40
24	6	.97933	.95352	.98097	.95713	.98254	.96059	.98404	.96392	.98547	.96710	36
28	7	.97936	.95358	.98100	.95719	.98256	.96065	.98406	.96397	.95550	.96715	32
33 36	9	97939	0.95364 .95371	9.98102 .98105	0.95724	9,98259	0.96071	9,98109		9.98552	0.96721	28
40	19	1 .97944	.95377	.98108	.95730 .95736	.98262 .98264	.96076	.98411	.96168	.98554	.96726	14
44	11	.97917	.95383	.98110	.95742	98267	.96058	.98414 .98416	.96413 .96419	.98557 .98559	.96731	20
48	12	9,97950	0.95389	9.98113	0.95748	9.98269	0.96093	9,98419	0.96424	9,98561	0.96736	16 12
52	13	.97953	.95395	.98116	.95754	.98272	.96099	.98421	.96430	.98564	.96746	8
56	11	9,97955	0.95401	9.98118			0.96104	9,98424	0.96435	9,98566		1 2
			39m		35m		31111	13h		1.5h		7
					THE PERSON NAMED IN	-	-				THE RESIDENCE OF THE PERSON NAMED IN	<u> </u>
8		10h 21n		10h 25n		10h 29r		10h 3.3n		10h 37		s
0	15	9.97958	0.95107	9.98121	0.95766	9.98277	0.96110	9,98426	0.96440		0.96757	60
1	16	.97961	.95413	.98124	.95771	.98279	.96116	.98428	.96446	.98570	.96762	56
8	17	.97964	.95119	.98126	.95777	.98282	.96121	.98431	.96451	.98573	.96767	52
12	19	.97966 9.97969	.95425 0.95431	.98129 9.98132	.95783 0.95789	.98285 9.98287	.96127	.98433 9.98436	.96457	.98575 9.98577	.96772	48
27	20	.97972	.95438	.98132	.95795	.98287	0.96133	9,98436	0.96462 .96467	.9,98577	0.96777	44
27	21	97975	.95141	.98134	.95891	.98290	.96114	.98440	.96467	.98582	.96788	16
28	22	.07977	.95459	.98139	.95806	.98295	.96149	.98443	.96478	.98584	.96793	32
32	23	9.97980	0.95453	9 98142	0.95812	9.98297	0.96155	9.98455	0.96483	9,98587	0.98795	28
36	21	.97983	.95462	98145	.95818	98300	.96131	98448	.96489	98589	96803	24
40	2.5	97986	.95468	.98147	.95821	98302	.90136	98450	.96494	.98591	,96808	20
7.7	26	.97988	.95174	.98150	.95830	.98305	.96173	,98453	.96500	,98593	.26813	16
78	27	9,97901	0.95180	9 98153	0.95836	9.98307	0.96177	9,98455	0.96505	9,98596	0.96548	12
52	28	.97994	.95483	.98155	.95841	.983]0	.96133	.98457	.96510	.93593	.50523	-8
56	29	9.97997	0.95492	9,98158	8.95847	9,95312	0.96188	9,98460	0.96516	9,93600	0.96829	4
		1.3h	.; <771	1.3h	,).(m	1.)h	30m	1.;h	24770	1.,1		
		1000 0 00	THE RESERVE OF THE PERSON NAMED IN	. 11R 11/18	1562	THE RESERVE AND PERSONS ASSESSED.	AND DESCRIPTION OF THE PERSON NAMED IN	10h .11m	15%*	10h	159	1
s	30	100 220 9 95009	155	9.98161	:	10" 30"	157°	10h ,; ; a		10 ^h , · 9.98603	159	s 60
s ()	30 31	9,97009	155 0.95498	9.98161	0.95853	16" 30" 9,98315	157° 0.96194	9.98462	0.96521	9,98603	0.96834	60
	36 31 32		155 0.95493 .95504	9.98161 .98163	6.95853 .95859	10" 30"	157°					
0 4	31	9,97499	155 0.95493 .95504 .95510 .95513	9.98161	0.95853 .95859 .95865 .95870	16 30° 9.98315 .98317 .98320 .98322	157° 0.96194 .96200 .96265 .96211	9.98462 .98465	0.96521 .96526 .96532 .96537	9,98603 ,98605	0.96834 .96839 .96844 .96849	60 56 52
6 2 8 12 16	31 32 33 31	9,97999 ,98092 ,98095 ,98098 9,98010	155 0.95493 .95504 .95510 .95513 0.95522	9.98161 .98163 .98166 .98163 9.98171	0.95853 .95859 .95865 .95870 0.95876	16 500 9.98315 .98317 .98320 .98322 9.98325	157° 0.96194 .96200 .96205 .96211 0.96216	9.98462 .98465 .98467 .98469 9.98472	0.96521 .96526 .96532 .96537 0.96542	9,98603 ,98605 ,98607 ,98609 9,98612	0.96834 .96839 .96844 .96849 0.96854	60 56
6 2 8 12 16 20	31 32 33 31 35	9,97099 20089 20080 20080 9,08010 1080	155 0.95493 .95504 .95510 .95513 0.95522 .95528	9,98161 ,98163 ,98166 ,98163 9,98171 ,98174	6.95853 .95859 .95865 .95870 0.95876 .95882	16 50° 9.98315 .98317 .98320 .98322 9.98325 .98327	157° 0.96194 .96200 .96205 .96211 0.96216 .96222	9.98462 .98465 .98467 .98469 9.98472 .98474	0.96521 .96526 .96532 .96537 0.96542 .96517	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614	0.96834 .96839 .96844 .96819 0.96854 .96859	60 56 52 48 44 40
6 2 8 13 16 20	31 32 33 31 35 36	9,97999 ,98092 ,98095 ,98098 9,08010 ,98013 ,98016	155 0.95498 .95504 .95510 .95513 0.95522 .95528 .95531	9,98161 ,98163 ,98166 ,98163 9,98171 ,98174 ,98176	6.95853 .95859 .95865 .95870 6.95876 .95882 .95888	16" 30" 9,98315 .98317 .98320 .98322 9,98325 .98327 .98330	157° 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227	9,98462 ,98465 ,98467 ,98469 9,98472 ,98474 ,98476	0.96521 .96526 .96532 .96537 0.96542 .96517 .96553	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614 ,98616	0.96834 .96839 .96814 .96819 0.96854 .96859 .96864	60 56 52 48 44 40 56
0 2 8 12 16 20 21 28	31 33 31 35 36 37	9.97999 .98092 .98095 .98098 9.08010 .98013 .98016 .98019	155 0.95493 .95704 .95519 .95513 0.95522 .95528 .95531 .95540	9,98161 .98163 .98166 .98163 9 98171 .98174 .98176 .98179	6.95853 .95859 .95865 .95870 6.95876 .95882 .95888 .95894	10 ^h 30 ^m 9.98315 .98317 .98320 .98322 9.98325 .98327 .98330 .98332	157° 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227 .96223	9.98462 .98465 .98467 .98169 9.98472 .98474 .98476 .98479	0.96521 .96526 .96532 .96537 0.96542 .96517 .96553	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614 ,98616 ,98619	0.96834 .96839 .96844 .96849 0.96854 .96859 .96864 .96869	60 56 52 48 44 40 36 32
6 2 8 13 16 20 11 28 32	31 32 33 31 35 36 37	9.97999 .98092 .98095 .98098 9.08010 .98013 .98016 .98019 9.98021	155° 0.95498 .95504 .95519 .95513 0.95522 .95528 .95531 .95540 0.95546	9.98161 .98163 .98166 .98163 9.98171 .98174 .98176 .98179 9.98182	0.95853 .95859 .95865 .95870 0.95876 .95882 .95888 .95894 0.95899	10 ¹ 30 ¹ 9.98315 .98317 .98320 .98322 9.98325 .98327 .98330 .98332 9.98335	157° 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227 .96223 0.96238	9,98462 ,98465 ,98467 ,98169 9,98472 ,98474 ,98476 ,98479 9,98481	0.96521 .96526 .96532 .96537 0.96542 .96547 .96553 .96558 0.96563	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614 ,98616 ,98619 9,98621	0.96834 .96839 .96844 .96849 0.96854 .96859 .96864 .96869 0.96874	60 56 52 48 44 40 56 32 28
6 2 8 13 16 30 11 28 32 36	31 32 33 31 35 36 37 39	9.97/99 .95/92 .95/95 .95/95 9.95/95 9.95/13 .95/16 .95/19 9.95/21 .95/24	155 0.95498 .95504 .95510 .95513 0.95522 .95528 .95531 .95540 0.95546 .95552	9.98161 .98163 .98166 .98163 9.98171 .98174 .98176 .98179 9.98182 .98184	0.95853 .95859 .95865 .95870 0.95876 .95882 .95888 .95898 .95899	9.98315 .98317 .98320 .98322 9.98325 .98327 .98330 .98332 9.98335 .98337	157 0.96194 .96200 .96205 .96211 0.96216 .96222 .96223 0.96238 .96244	9.98462 .98465 .98467 .98167 .98169 9.98472 .98474 .98476 .98479 9.98481 .98484	0.96521 .96526 .96532 .96537 0.96543 .96547 .96553 .96568 0.96563	9,9×603 ,9×605 ,9×607 ,9×609 9,9×612 ,9×614 ,9×616 ,9×619 9,9×621 ,9×623	0.96834 .96839 .96814 .96819 0.96854 .96859 .96864 .96869 0.96874	60 56 52 48 44 40 36 32 28 24
0 2 8 13 16 20 11 28 32 46 40	31 32 33 34 35 36 37 38 39	9.97/99 98/96 98/95 98/95 98/98 9.98/96 98/98 9.98/96 9.98/96 98/96/96 98/96/96 98/96/96	155 0.95498 .95504 .95510 .95510 .95522 .95528 .95531 .95546 .95552 .95558	9.98161 .98163 .98166 .98163 9.98171 .98174 .98179 9.98182 .98184 .98187	6.95853 .95859 .95865 .95870 0.95876 .95882 .95888 .95894 0.95899 .95905	9.98315 .98317 .98320 .98322 9.98325 .98327 .98330 .98332 9.98335 .98337 .98340	157 0.96194 .96200 .96265 .96211 9.96216 .96222 .96227 .96223 0.96238 .96214 .96219	9.98462 .98465 .98167 .98169 9.98472 .98474 .98474 .98479 9.98481 .98484	0.96521 .96526 .96532 .96537 0.96542 .96547 .96553 .96563 .96563 .96569	9,9×603 ,9×605 ,9×607 ,9×609 9,9×612 ,9×614 ,9×619 9,9×619 9,9×621 ,9×623 ,9×625	0.96834 .96839 .96844 .96819 0.96854 .96859 .96869 0.96874 .96879	60 56 52 48 44 40 36 32 28 24 20
6 2 8 12 16 20 21 28 32 46 40	31 32 33 34 35 36 37 39 40 41	9.97/99 98/062 98/063 98/063 9.98/06 9.98/01 9.98/01 9.98/021 9.98/024 9.98/027 9.98/030	155 0.95493 .95504 .95519 .95519 0.95522 .95528 .95528 .95540 0.95546 .95552 .95553 .95555	9.98161 .98163 .98166 .98163 9.98171 .98174 .98179 9.98182 .98184 .98187 .98187	6.95853 .95859 .95865 .95870 0.95876 .95882 .95882 .95894 0.95894 0.95905 .95911	9.98315 9.98317 9.98320 9.98322 9.98325 9.88327 9.88330 9.88332 9.98335 9.98335	157 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227 .96223 0.96238 .96214 .96219	9.98462 .98465 .98167 .98169 9.98472 .98474 .98476 .98479 9.98481 .98484 .98486 .98488	0.96521 .96526 .96532 .96537 0.96542 .96547 .96553 .96563 .96563 .96569 .96574	9,9×603 ,9×605 ,9×607 ,9×609 9,9×612 ,9×614 ,9×619 9,9×621 ,9×623 ,9×625 ,9×628	0.96834 .96839 .96844 .96819 0.96854 .96859 .96864 .96869 0.96874 .96874 .96884	60 56 52 48 44 40 56 32 28 24 20 16
6 28 12 16 20 21 28 32 46 40 44 48	31 32 33 34 35 36 37 39 40 41 42	9,97099 98002 98305 98305 9,98010 98013 98016 98019 9,98021 ,98024 98027 98030 9,98030	155 0.95493 .95504 .95510 .95513 0.95522 .95528 .95531 .95540 0.95546 .9552 .95552 .95570	9.98161 .98163 .98166 .98163 .98166 .98171 .98176 .98179 9.98182 .98184 .98187 .98189 9.98192	0.95853 .95859 .95865 .95870 0.95876 .95882 .95898 .95894 0.95899 .95905 .95911 0.95922	9.98315 98317 98320 98322 9.98325 9.8827 98330 .98332 9.98335 .98337 .98340 .98342 9.98345	157 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227 .96223 0.96238 .96214 .96219 .96255 0.96260	9.98462 .98465 .98467 .98469 9.98472 .98474 .98476 .98479 9.98481 .98484 .98488 9.98491	0.96521 .96526 .96537 .96537 0.96542 .96547 .96553 .96568 .96563 .96569 .96579 0.96579	9,9×603 ,9×605 ,9×607 ,9×609 9,9×614 ,9×616 ,9×619 9,9×621 ,9×623 ,9×625 ,9×628 9,9×630	0.96834 .96839 .96844 .96819 0.96854 .96859 .96864 .96869 0.96874 .96884 .96889 0.96884	60 56 52 48 44 40 56 32 28 24 20 16
6 2 8 12 16 20 21 28 32 46 40	31 32 33 34 35 36 37 39 40 41	9.97/99 98/062 98/063 98/063 9.98/06 9.98/01 9.98/01 9.98/021 9.98/024 9.98/027 9.98/030	155 0.95493 .95504 .95510 .95510 .95522 .95522 .95528 .95531 .95546 .95552 .95554 .95556 .95566 .95570 .95576	9.98161 .98163 .98166 .98166 .98161 .98171 .98174 .98176 .98182 .98182 .98184 .98187 .98189 .98192 .98192	0.95853 .95859 .95865 .95870 0.95876 .95882 .95888 .95894 0.95899 .95905 .95911 .95917 0.95922 .95928	9.98315 9.98317 9.98320 9.98322 9.98325 9.88327 9.88330 9.88332 9.98335 9.98335	157 0.96194 .96200 .96205 .96211 0.96216 .96222 .96227 .96223 0.96238 .96214 .96219	9.98462 .98465 .98167 .98169 9.98472 .98474 .98476 .98479 9.98481 .98484 .98486 .98488	0.96521 .96526 .96532 .96537 0.96542 .96547 .96553 .96563 .96563 .96569 .96574	9,9×603 ,9×605 ,9×607 ,9×609 9,9×612 ,9×614 ,9×619 9,9×621 ,9×623 ,9×625 ,9×628	0.96834 .96839 .96844 .96819 0.96854 .96859 .96864 .96869 0.96874 .96874 .96884	60 56 52 48 44 40 56 32 28 24 20 16
0 2 8 12 16 20 18 32 36 40 44 52	31 32 33 31 35 36 37 39 40 41 42 43	9.97999 98302 98305 98308 9.98010 98013 98016 98019 9.98021 98024 98027 98030 9.98032 9.98032 9.98032	135 0.95493 .95504 .95510 .95513 0.95528 .95534 .95534 .95554 .95558 .95564 .95566 .95566 .95576 .95576	9.98161 .98163 .98166 .98166 .98161 .98171 .98176 .98179 .98182 .98184 .98187 .98189 .98192 .98195 .98197	0.95853 .95859 .95865 .95876 .95882 .95882 .95883 .95899 .95905 .95911 .95917 0.95899 .95918	16° 30'09 9.98315 98317 98320 98322 9.98325 98330 98330 98332 9.98335 98340 9.98345 9.98345 9.98345	0.96194 .96206 .96211 9.96216 .96227 .96227 .96223 0.96238 .96214 .96219 .96255 9.96266 0.96272	9.98462 .98465 .98167 .98169 9.98472 .98474 .98476 .98481 .98481 .98486 .98488 9.98491 .98491 .98491	0.96521 .96526 .96532 .96532 .96542 .96543 .96553 .96553 .96563 .96569 .96574 .96579 0.96585 .96590 0.96595	9,98603 ,98605 ,98609 ,98609 ,98612 ,98614 ,98616 ,98623 ,98623 ,98625 ,98628 ,98630 ,98630 ,98630 ,98632	0.96834 .96839 .96814 .96859 .96859 .96864 .96869 0.96874 .96879 .96884 .96899 0.96994	60 56 52 48 44 40 36 32 28 24 20 16 12 8
0 2 8 12 16 20 18 32 36 40 44 52	31 32 33 31 35 36 37 39 40 41 42 43	9,97499 98005 98005 9,8018 9,98013 98013 98019 9,98024 98024 98027 98030 9,98035 9,98035	155° 0.95493 .95504 .95510 .95513 0.95522 .95528 .95546 .95546 .95554 .95564 0.95570 .95570 0.95582	9.98161 .98163 .98163 .98163 .98171 .98174 .98176 .98179 .98182 .98184 .98187 .98189 .98195 .98195 .98197	6.95×53 .95×65 .95×65 .95×65 .95×76 .95×87 .95×82 .95×89 .95×90 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×	16* 300 9.98315 98317 98320 9.98325 9.98325 9.8330 95332 9.98335 98347 9.98345 9.98345 9.98350 13h	157° 0.96194 .96200 .96205 .96216 0.96216 .96223 .96223 0.96243 .96219 .96255 0.96260 0.96272	9.98462 .98465 .98167 .98169 9.98472 .98476 .98476 .98479 9.98481 .98484 .98486 .98488 .98491 .98193 9.98491 .98193	0,96521 .96526 .96532 .96537 .96542 .96547 .96553 .96563 .96563 .96569 .96574 .96575 .96590 0,96595	9,98603 ,98605 ,98609 9,98619 9,98614 ,98616 ,98619 9,98625 ,98625 ,98628 9,98634 ,98632 9,98634	0.96834 .96839 .96814 .96819 .96819 .96859 .96864 .96869 .96867 .96879 .96884 .96889 .96899 0.96995	60 56 52 48 44 40 36 32 28 24 20 16 12 8
6 2 8 12 16 20 11 28 32 36 40 44 48 52 56	31 32 33 31 35 36 37 39 40 41 42 43	9.97999 95302 95305 95305 95305 95303 98010 98019 9.98021 98024 98024 98025 98030 9.98032 9.98035 9.98038 13h	155° 0.95498 .95504 .95510 .95513 0.95522 .95534 .95540 .95554 .95558 .95558 .95558 .95558 .95558 .95558 .95558 .95570 .95576	9.98161 .98163 .98166 .98168 9.98171 .98174 .98179 9.98182 .98187 .98187 .98187 .98192 .98192 .98197 .13h	6.95×53 .95×59 .95×65 .95×76 .95×76 .95×82 .95×89 .95×94 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×91 .95×9	16* 30" 9.98315 9.98317 9.88320 9.88325 9.88330 9.88332 9.98337 9.98340 9.88347 9.98347 9.98347 19.8847	157° 0.96194 .96200 .96205 .96211 0.96216 .96227 .96223 .96244 .96215 .96256 0.96286 0.96286 0.96286	9,98462 ,98465 ,98467 ,98469 9,98472 ,98474 ,98479 9,98481 ,98486 ,98491 ,98491 ,98491 ,98491 ,98491 ,98491 ,98491 ,98491 ,98491 ,98496	0.96521 .96526 .96537 0.96537 0.96542 .96558 0.96563 .96563 .96564 .96579 .96579 0.96585 .96595 .96595	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614 ,98616 ,98616 ,98623 ,98625 ,98625 ,98628 9,98630 ,98630 ,98634 <i>I3h</i>	0.96834 -96839 -96814 -96859 0.96854 -96869 -96869 0.96874 -96879 -96889 0.96894 -96899 0.96894 -96899 -968905	60 56 52 48 44 40 56 32 28 24 20 16 12 8 4
6 2 8 13 16 30 11 28 32 36 40 44 48 52 56	31 32 33 31 35 36 37 39 40 41 42 43 44	9.97999 9.5092 9.5095 9.5095 9.98010 9.88016 9.88016 9.88024 9.88024 9.88027 9.88030 9.98035 9.98035 9.98035 9.98035 9.98036	135° 0.95493 .95504 .955103 .95513 .95513 .95522 .95534 .95534 .95540 0.95557 .95557 .95576 0.95582 .95576 0.95582	9.98161 .98163 .98168 .98168 .98171 .98174 .98174 .98174 .98184 .98184 .98184 .98187 .98189 .98195 .98197 .12h .12h .12h .12h .12h .12h .12h .12h	6.95853 .95859 .95865 .95876 .95876 .95888 .95884 .95894 .95905 .95911 .95912 .95934 .95934 .95934 .95934	10* 30" 9.98315 98317 98322 9.98325 9.98325 9.98330 98337 98340 9.98345 9.98345 9.98345 9.98347 9.98346 13h 10h 47h 9.98352	157° 0.96194 .96200 .96201 .96211 0.96216 .96227 .96223 0.9623 0.9623 0.96214 .96219 .96219 .9625 0.96272 2997 0.96272	9.98462 9.8465 9.8167 9.8169 9.98474 9.8476 9.8479 9.98481 9.98491 9.98491 9.98491 1.98491 1.98491 9.98491 9.98498	0.96521 .96526 .96537 .96537 .96542 .96543 .96553 .96558 .96563 .96574 .96579 .96579 .96579 .96579 .96595 .96595	9,98603 ,98605 ,98607 ,98609 9,98612 ,98616 ,98616 ,98625 ,98625 ,98625 ,98632 9,9634 ,13h ,10h ,30m	0.96834 .96839 .96814 .96819 0.96854 .96869 0.96874 .96884 .96889 0.96884 .96889 0.96899 0.96905 21m 159°	60 56 52 48 44 40 56 32 28 24 20 16 12 8 4
6 2 8 12 16 20 21 28 32 36 40 44 48 52 56 6 40 44 48 52 56 40 44	31 32 33 31 35 36 37 39 40 41 42 43 44	9.97999 9.5092 9.5095 9.5095 9.5095 9.5095 9.5010 9.5013 9.5019 9.5019 9.5027 9.5020 9.5035 9.5035 9.5035 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036 9.5036	155° 0.955493 .95504 .95504 .95510 .95513 0.95522 .95534 .95534 .955546 .95552 .95564 0.95582 .9777 155° 0.95582 .97584	9.98161 .98163 .98166 .98168 9.98171 .98174 .98179 .98189 .98187 .98187 .98187 .98189 9.98197 .13h .10h .27m 9.98200 .98200 .98200	6.95853 .95859 .95865 .95876 .95876 .95882 .95888 .95888 .95898 .95905 .95917 0.95912 0.95934 33m 156° 0.95940	10* 30#315 9.98315 .98317 .98320 9.88325 9.98327 .98330 .98335 .98342 9.98345 .98345 9.98355 13h .10h 31m 9.98352 .98352	157° 0.96194 .96205 .96216 9.96217 9.96218 9.96222 .96227 .96223 0.96238 9.96214 .96255 0.96260 0.96272 29/m 157° 0.96273	9.98462 .98465 .98465 .98469 9.98469 9.98474 .98476 .98489 .98481 .98488 .98488 .98498 .13h .10h .35m 9.98491 .98500	0.96521 .96526 .96537 0.96542 .96547 .96543 .96558 0.96563 .96563 .96579 0.96585 .96579 0.96585 .96590 0.96585	9,9×603 ,9×607 ,9×607 ,9×609 9,9×612 ,9×619 ,9×619 9,9×623 ,9×623 9,9×632 9,9×632 9,9×632 1,3h 10h 39m 19,9×637 ,9×637	0.96834 .96839 .96814 .96859 0.96854 .96859 .96869 0.96874 .96889 0.96879 .96889 0.96899 0.969905 21m 159°	60 56 52 48 44 40 32 28 24 20 16 12 8 4
6 2 8 12 16 20 11 28 32 46 40 44 48 52 56 48	31 32 33 31 35 36 37 39 40 41 42 43 44 45 46 47	9,97999 95092 95095 95095 9,8098 9,88010 98016 98019 9,98021 9,98032 9,98032 9,98035 17h 10h 25 ⁿ 9,98040 9,98013 9,98040	155° 0.25498 .95504 .95510 .95510 .95513 .95528 .95534 .95536 .95556 .95556 0.95588 .95588 .95588 .95588	9.98161 .98163 .98163 .98168 9.98171 .98176 .98179 .98187 .98189 9.98182 .98192 .98192 .98195 .98197 .98199 .98192 .98200 .98202 .98202	6.95853 .95859 .95865 .95876 .95876 .95888 .95894 .95899 .95995 .95911 .95917 0.95922 .95928 0.95899 .95940 6.95940	16* 30" 9.98315 9.98315 9.8320 9.8322 9.98327 9.8330 9.8335 9.98335 9.98347 9.98340 9.98355 9.98355 9.98359	157° 0.96194 .96296 .96216 .96216 .96222 .96223 .96223 .96243 .96219 .96255 .96256 .96256 .96277 .96272 .96273 .96273 .96283	9,98462 98465 98467 98469 9,98472 98476 98476 98478 9,98481 9,98481 9,98491 9,98491 13h 10h 35m 9,98500 9,98500	0.96521 .96526 .96537 .96537 .96542 .96553 .96558 .96558 .96569 .96574 .96579 .96590 0.96595 .96590 0.969690 0.9696666	9,9×603 ,9×607 ,9×609 9,9×612 ,9×614 ,9×616 ,9×619 9,9×623 ,9×623 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632 ,9×632	0.96834 .96839 .96849 .96849 0.96854 .96869 .96869 .96879 .96884 .96899 0.96994 .96899 0.96905 21m	60 56 52 48 44 40 56 32 28 24 112 8 4
8 12 16 20 20 21 28 32 26 40 44 48 52 56 48 8 12	31 32 33 31 35 36 37 37 38 40 41 42 43 44 45 47 48	9.97999 95.002 95.005 95.005 95.005 9.8018 9.8013 98013 98024 98032 98032 98032 98032 98032 98033 17h 10h 25n 98013 98013 98013 98013 98013 98014 98046	155° 0.955493 .95504 .955104 .95510 .95513 0.95528 .95534 .95536 .95556 0.95570 0.95586 0.95586 0.95589 .95566 0.95589	9.98161 .98163 .98166 .98168 9.98171 .98179 .98179 9.98189 .98189 9.98192 .98197 .13h .10h .27m 9.98202 .98202 .98205 .98205	6.95853 .95859 .95859 .95876 .95876 .95888 .95888 .95905 .95905 .95917 0.95922 .95923 0.95934 33m 156° 0.95945 .95945 .95945	10* 30" 9.98315 9.98315 9.98320 9.88322 9.98327 9.88330 9.88337 9.98342 9.98345 9.98345 10* 41* 9.98355 9.98355 9.98355	157° 0.96194 .96205 .96210 9.96216 9.96217 9.96238 .96214 .96219 .96255 9.9626 0.96272 29m 157° .96283 .96288 .96289	9.98462 .98467 .98467 .98467 .98467 .98474 .98474 .98474 .98488 .98481 .98491 .98491 .98491 .98491 .98491 .98491 .98500 .98503 .98503 .98503	0.96521 .96526 .96537 0.96549 .96537 0.96549 .96553 .96558 0.96569 .96569 0.96595 .25m 158° 0.96595 0.96666 0.96606 0.96606	9,9×603 ,9×607 ,9×607 ,9×609 9,9×612 ,9×614 ,9×619 9,9×623 ,9×623 ,9×625 ,9×628 9,9×634 ,13h ,10h ,89m 9,9×634 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×634 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×	0.96834 .96839 .96844 .96859 .96854 .96859 .96864 .96859 .96894 .96894 .96894 .96894 .96894 .96894 .96990 .96995 .96990 .96990	60 56 52 48 44 40 32 28 24 20 16 12 8 60 52 48
8 12 16 8 8 12 16 8 8 12 16	31 32 33 31 35 36 37 37 39 40 41 42 43 44 47 48 49	9.97999 95302 95305 95308 9.8016 9.8013 98013 9.8024 9.8027 9.8023 9.98032 13h 2.98035 9.98038 13h 9.98040 9.8040 9.8049 9.98049 9.98049	155° 0.95193 .95504 .95519 .95519 .95519 .95519 .95528 .95534 .95546 .955564 .95564 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576	9.98161 .98163 .98166 .98168 .98171 .98174 .98179 .98187 .98187 .98187 .98187 .98187 .98197 .76h.27m .98200 .98202 .98205 .98205 .98205 .98205 .98205	6.95×53 .95×55 .95×65 .95×76 .95×87 .95×82 .95×84 .95×94 .95917 0.95×92 .95913 .33 m 156° 0.95×93 .95943 .95943 .95945 .95945 .95951 .95951	16* 30" 9.98315 9.98317 9.8320 9.98322 9.98326 9.98330 9.98335 9.98337 9.98340 9.98347 9.98347 9.98347 9.98347 9.98357 9.98357 9.98357	1577 0.96191 96205 96205 96211 96222 96223 96213 96213 96213 96213 96213 96219 1577 96256 96256 0.96256 0.96257 96258 96258	9.98462 .98467 .98467 .98467 .98467 .98476 .98478 .98478 .98481 .98486 .98488 .98488 .98489 .98491 .98193 .98193 .98503 .98503 .98503 .98503 .98505	0.96521 .96526 .96537 .96537 .96542 .96553 .96553 .96553 .96569 .96579 0.96579 0.96595 2.5m 158° 0.96606 .96614 .96614	9,98603 ,98605 ,98607 ,98609 9,98612 ,98614 ,98619 9,98625 ,98625 ,98628 9,98634 ,13h ,10h ,29m 9,98637 ,98637 ,98639 ,98634 ,98637 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634 ,98634	0.96834 .96839 .96819 0.96854 .96859 0.96859 .96869 0.96879 .96884 .96889 0.96894 .96899 0.96994 .96999 0.96996 .96999	60 56 52 48 44 40 56 32 28 24 20 16 12 8 60 56 52 48 44
6 2 8 12 16 17 18 32 36 40 44 48 52 56 8 0 4 8 12 116 20	31 32 33 31 35 36 37 39 40 41 42 43 44 45 46 47 48 49 50	9.97999 95.002 95.005 95.005 95.005 9.8018 9.8013 98013 98024 98032 98032 98032 98032 98032 98033 17h 10h 25n 98013 98013 98013 98013 98013 98013	155 0.9549 .95504 .95510 .95513 .95513 .95513 .95528 .95534 .95557 .95557 .95557 0.95557 0.95587 0.95587 0.95587 0.95587 0.95687 0.95687 0.95688	9.98161 .98163 .98166 .98168 9.98171 .98174 .98179 9.98182 .98187 .98187 .98197 .98197 .98192 .98195 .98195 .98202 .98202 .98205 .98208 .98208 .98208 .98208 .98208 .98208 .98208	0.95×53 .95×65 .95×65 .95×65 .95×76 0.95×76 .95×82 .95×84 0.95×89 .95911 .95911 .95912 .95934 .95943 .95945 .95945 .95956 .95956 .95956 .95956 .95966 .95966	16 300 9.98315 98317 98317 98329 9.88227 9.8832 9.8832 9.88337 9.88340 9.88345 9.98355 13h 10h 41n 9.98355 9.88355 9.88355 9.88355 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362 9.88362	157° 0.96194 .96205 .96210 9.96216 9.96217 9.96238 .96214 .96219 .96255 9.9626 0.96272 29m 157° .96283 .96288 .96289	9.98462 .98467 .98467 .98467 .98467 .98474 .98474 .98474 .98488 .98481 .98491 .98491 .98491 .98491 .98491 .98491 .98500 .98503 .98503 .98503	0.96521 .96526 .96537 0.96549 .96537 0.96549 .96553 .96558 0.96569 .96569 0.96595 .25m 158° 0.96595 0.96666 0.96606 0.96606	9,9×603 ,9×607 ,9×607 ,9×609 9,9×612 ,9×614 ,9×619 9,9×623 ,9×623 ,9×625 ,9×628 9,9×634 ,13h ,10h ,89m 9,9×634 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×634 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,9×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×639 ,0×	0.96834 .96839 .96844 .96859 .96854 .96859 .96864 .96859 .96894 .96894 .96894 .96894 .96894 .96894 .96990 .96995 .96990 .96990	60 56 52 48 44 40 32 28 24 20 16 12 8 60 52 48
8 12 16 8 8 12 16 8 8 12 16	31 32 33 31 35 36 37 37 39 40 41 42 43 44 47 48 49	9.97999 9.5092 9.5095 9.8010 9.8010 9.8013 9.8013 9.8014 9.8024 9.8024 9.8027 9.8035 9.98035 9.98035 9.9803 9.98040 9.8013 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8044 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.8045 9.	155° 0.95193 .95504 .95519 .95519 .95519 .95519 .95528 .95534 .95546 .955564 .95564 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576 .95576	9.98161 .98163 .98166 .98168 .98171 .98174 .98179 .98187 .98187 .98187 .98187 .98187 .98197 .76h.27m .98200 .98202 .98205 .98205 .98205 .98205 .98205	6.95×53 .95×55 .95×65 .95×76 .95×87 .95×82 .95×84 .95×94 .95917 0.95×92 .95913 .33 m 156° 0.95×93 .95943 .95943 .95945 .95945 .95951 .95951	16 300 9.98315 98317 98317 98327 98322 9.8832 98337 98337 98340 98340 98345 9.98355 98355 98355 98355 98360 9.98362 9.98365	157 0.9619 .96205 .96216 .96216 .96222 .96227 .96223 0.96238 .96219 .96219 .96255 0.96260 0.96277 .96253 .96283 .96284 .96294 .96294 .96294	9.98462 .98467 .98467 .98467 .98476 .98474 .98474 .98481 .98484 .98494 .98491 .98491 .98491 .98500 .98500 .98500 .98507 .98507 .98507	0.96521 .96526 .96537 .96537 0.96548 .96553 .96558 0.96569 .96569 .96579 0.96595 .96590 0.96595 .96666 0.96606 0.96666 0.96616 0.96616	9,9×60.3 ,9×60.5 ,9×60.7 ,9×61.9 ,9×61.4 ,9×61.9 ,9×61.9 ,9×62.3 ,9×62.8 ,9×63.2 ,9×63.2 ,9×63.2 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 ,9×63.4 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6 2 8 12 16 20 21 16 20 24 16 20 24	31 32 33 31 35 36 37 39 40 41 42 43 44 45 46 47 48 49 50 51	0.97999	155 0.95193 .95504 .95510 .95510 .95510 .95512 .95528 .95534 .955346 .955576 .95576 .95576 .95576 .95576 .95576 .95576 .95584 .95609 .95609 .95609 .95609 .95609 .95618 .95618	9.98161 .98163 .98166 .98168 9.98171 .98176 .98177 .98187 .98187 .98187 .98187 .98192 .98192 .98195 .98200 .98200 .98205 .98205 .98205 .98213 .98213 .98213 .98214	6.95853 .95859 .95865 .95870 6.95872 6.95882 .95882 .95889 .95899 .95991 .95993 .95993 .95993 .95995 .95994 .95995 .959960 .95998	16 30" 9.98315 9.98317 9.98327 9.98327 9.88320 9.98325 9.98335 9.98337 9.98340 1.3h 1.0h 31m 9.98355 9.98357 9.98362 9.98367 9.98367 9.98367 9.98370	157 0.96194 .96205 .96211 .96222 .96223 .96223 .96223 .96223 .96235 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 .96236 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6 2 8 1 2 1 1 6 2 0 4 4 4 4 8 8 5 2 6 6 4 6 4 6 4 6 6 4 6 6 6 6 6 6 6 6 6	31 32 33 31 35 36 37 38 40 41 42 43 44 45 46 47 48 49 50 50 51 52	9,97999 95092 95092 95095 95098 9,98013 98013 98014 98027 98020 9,98032 9,8035 9,98038 17h 10h 23n 98040 98049 9,98041 98054 98054 98054 98055 9,98058	155 0.9549 95504 95519 95519 95528 95528 95540 95540 9.95540 9.95560 9.95570 9.95570 9.95582 77 m 9.5606 0.95589 9.95606 0.95618 9.95608 9.95618 9.95618 9.95618 9.95636	9.98161 .98163 .98166 .98168 .98171 .98171 .98179 .9.8187 .98187 .98187 .98187 .98197 .738 .798202 .98202 .98202 .98205 .98203 .98213 .98213 .98213 .98213 .98213	6.95853 .95859 .95865 .95870 6.95876 .95882 .95889 .95989 .95991 .95991 .95993 .95994 .95984 .95984 .95984 .95984 .95984 .95984 .95984 .95984 .95984 .95984	10 300 9.98315 9.8817 9.8820 9.98327 9.98320 9.98325 9.98327 9.98320 9.98320 9.98320 9.98320 9.98340 9.98340 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 9.98350 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0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96345 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96334 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344 0.96344	9.98462 .98467 .98467 .98169 .98474 .98479 .98481 .98481 .98488 .98491 .98491 .98491 .98491 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 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.98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .98500 .9850	0.96321 .96526 .96532 .96537 .96553 .96558 .96563 .96558 .96569 .96574 .96579 .96579 .96595 .25m 158° 0.9658 .96666 .96666 .96614 .96672 .96632 .96632 .96633 .96633 .96633 .96663 .96663	9.9×60.3 9×60.7 9×60.7 9×60.7 9×60.7 9×61.9 9×61.9 9×61.9 9×62.5 9×62.5 9×62.5 9×62.5 9×62.5 9×62.5 9×63.4 13h 10h 89m 9×63.4 9×63.9 9×63.4 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×63.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×65.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9 9×66.9	0.96834 .56839 .56839 .96819 .96859 .96869 .96869 .96874 .96894 .96894 .96896 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96996 .96966 .96966 .96966 .96966 .96966 .96966 .96966 .96966 .96966 .96966 .96966	\$\\ 60\\ 56\\ 48\\ 40\\ 56\\ 20\\ 16\\ 12\\ 8\\ 40\\ 66\\ 52\\ 24\\ 40\\ 66\\ 52\\ 24\\ 40\\ 66\\ 28\\ 24\\ 40\\ 66\\ 28\\ 24\\ 40\\ 66\\ 28\\ 24\\ 16\\ 12\\ 8\\ 44\\ 40\\ 66\\ 28\\ 24\\ 16\\ 12\\ 8\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 44\\ 40\\ 66\\ 28\\ 40\\ 66\\ 28\\ 40\\ 66\\ 62\\ 84\\ 40\\ 66\\ 62\\ 84\\ 40\\ 66\\ 62\\ 84\\ 40\\ 66\\ 62\\ 84\\ 40\\ 66\\ 62\\ 84\\ 40\\ 66\\ 62\\ 84\\ 66\\ 62\\ 84\\ 66\\ 62\\ 84\\ 66\\ 62\\ 62\\ 62\\ 62\\ 62\\ 62\\ 6

Page 918]

# TABLE 45.

					1010	4	162°	10h 52n	n 163°	10h 56n	1645	
٠.	,	104 300		10h ++"	Nat Hay	10h 48h Log. Hav.	Nat. Hay	Tog. Hav.		Log. Hav	Not. Hav	8
		Log Hay	Nat Hay	Log. Hav.		9.98924		9 99041	0.97815	9.99151	0.95063	60
0	0	9.98670	0.96955	9,95501	0.97276 .97251	.95924	0.97553 .97557	.99043	.97519	.99152	.95067	56
-5	1	.98673	.96990	98805	.97255	.98928	.97562	99044	.97824	.99152	.95071	52
- 8	3	.98675	.96995	98807	.97290	,95930	.97566	.99046	.97838	,99156	.95075	48
12 16	4	.98677 9.98679	.97000 0.97005	9 95509	0.97295	9.98932	0.97571	9.99048	0.97833	9.99158	0.95079	44
20	5	.98681	.97009	.98811	.97300	.98934	.97575	.99050	.97836	.99159	.95053	40
24	6	9-6-1	.97014	.98813	.97301	98936	.97550	99052	.97841	.99161	.95057	36
28	7	95656	.97019	98815	.97309	98938	.97554	.99054	.97845	.99163	.98091	32
33	5	9 95655	0.97024	9 98817	0.97314	9.98940	0.97589	9 99056	0.97849	9.99165	0.98095	28
36	9	98690	.97029	98819	.97315	.98942	.97593	99058	.97853	.99166	.95099	24
40	10	98692	.97034	95522	.97323	.95944	.97598	99059	.97858	.99168	.98103	20
44	11	.98695	.97039	.98824	.97328	.98946	.97602	.99061	.97862	.99170	.98107	16
4.5	12	9 98697	0.97044	9.95526	0.97332	9,98948	0.97606	9.99063	0.97566	9.99172	0.98111	13
52	13	95699	.97019	98828	.97337	98950	.97611	.99065	.97870	.99173	.95115	- 8
56	11	9.98701	0.97054	9.95530	0.97342	9,98952	0.97615	9,99067	0.97874	9.99175	0.95119	4
ı		1.3h	192	1.,4	1.5m	13h	11m	134	7111	13h	1.3m	1 1
_	-,	10h 310	1 160	10h 45n		10h 39h		10h 53n		10h 57n		-
9	15			9.95832	0.97347	9.98954	0.97620	9.99069	0.97579	9.99177	0.98123	<u>s</u> 60
0	16	9 95703	0.97059	98832	.97351	98956		.99071	.97883	.99179	.98127	56
-\$ -8	17	98706 98708	.97061	.98836	.97356	.98958	.97624 .97629	.99071	.97557	.99179	.98131	52
12	18	98710	.97069	95535	.97361	98960	.97633	.99074	.97891	.99182	.95135	48
16	19	9 95712	0.97078	9 98840	0.97365	9,98962	0.97637	9,99076	0.97895	9,99184	0.98139	4.5
20	30	98711	.97053	98842	.97370	.98964	.97642	.99078	.97599	.99186	.98142	30
27	21	98717	.97055	98845	.97371	98966	.97646	99050	.97904	.99157	.98146	36
25	22	98719	.97093	95517	.97379	98968	.97651	99052	.97905	99159	.95150	32
32	23	9 98721	0.97098	9.98849	0.97384	9,98970	0.97655	9,99054	0.97913	9,99191	0.98154	28
36	21	98723	.97103	.98851	.97355	.98971	.97660	,99085	.97916	.99193	.98158	24
40	2.5	98725	.97108	9553	.97393	.98973	.97664	.99087	.97920	.99194	.98162	20
43	26	98728	.97113	.98855	.97398	,98975	.97668	.99089	.97921	,99196	.95166	16
4.5	27	9,98730	0.97117	9 98857	0.97402	9,98977	0.97673	1,99091	0.97929	9,99198	0.95170	13
12	28	98732	.97122	.98859	.97407	.98979	.97677	.99093	.97933	,99200	.95174	.8
100	29	9.98704	0.97127	9.98561	0.97413	9,98981	0.97651	9-99095	0.97937	9.99201	0.95178	-4
l		r , h	184	1.;h	13m	1:h	1000	137	+175	1:h	-1	1
				11th 311	101			41.1.1.1.1				
٠.		1.16 0 0	160	11111 3/11	161	10h 500	162	10h 54n	7 163 °	100 081	1643	s
0	30									1	_	5 (1)
	30 34	9 98736 98738	0.97132 -97137	9,98863	0.97416	9,98983 .98985	0.97686 .97690	9,99096 ,99098	0.97841 .97945	9,99203 99205	0.95152 .95155	8 60 56
		9.98736	0.97132	9,98863	0.97416	9,98983	0.97656	9,99096	0.97841	9,99203	0.95152	60
10	34	9.98736	0.97132	9,98863 ,98865	0.97116	9,98983	0.97686 .97690	9,99096 ,99098	0.97841	9,99203 .99205	0.95152 .95155	60 56 52
10 1 8	34 32	9 98736 .98738 .98741 .98743 .9.98745	0.97432 .97437 .97442	9,95563 ,95865 ,95867	0.97416 .97121 .97125	9,98983 ,98985 ,98987	0.97686 .97690 .97695	9,99096 ,99098 ,99100	0.97841 .97945 .97949	9,99203 ,99205 ,99206	0.95152 .95155 .95159	60 56
12 16 20	34 32 33 34 35	9 98736 -98738 -98741 -98743 -9-98745 -98747	0.97132 .97137 .97142 .97147	9,95863 ,95865 ,95867 ,9569 9,9571 ,9573	0.97116 .97121 .97125 .97130 0.97135 .97439	9,98983 ,98985 ,98987 ,98989 9,98991 ,98993	0.97686 .97690 .97695 .97699	9,99096 ,99098 ,99100 ,99102	0.97841 .97945 .97949 .97953	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212	0.98183 .98185 .98189 .98193	60 56 52 48
8 12 16 20	34 32 33 34 35 36	9 98736 - 98738 - 98741 - 98743 - 98745 - 98747 - 98749	0.97432 .97437 .97442 .97447 9.97151 .97156	9,98865 ,98865 ,98867 ,98869 9,98873 ,98875	0.97416 .97121 .97125 .97430 0.97425 .97439	9,98983 ,98985 ,98987 ,98989 9,98994 ,98993 ,98995	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107	0.97841 .97945 .97949 .97953 0.97957 .97962	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213	0.98182 .98185 .98189 .98193 0.98197 .98201	60 56 52 48 44
6	34 32 33 34 35 36 37	9 98736 98738 98741 98743 9 98745 98747 98744	0.97432 .97437 .97442 .97447 9.97154 .97156 .97461	9,98865 ,98865 ,98867 ,98869 9,98871 ,98873 ,98875	0.97116 .97121 .97125 .97130 0.97135 .97139 .97111	9,98983 ,98985 ,98987 ,98989 9,98991 ,98993 ,98995	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 ,99109	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213 ,99215	0.98183 .98183 .98189 .98193 0.98197 .98201 .98205	56 52 48 44 40 86 32
0   8   12   16   17   18   17   18   17   18   17   18   18	34 32 33 34 35 36 37 38	9 98736 98738 98731 98733 9 98735 98737 98734 98734 9 98751	0.97432 .97437 .97442 .97447 9.97151 .97156 .97461 .97466	9,9×63 ,9×65 ,9×69 ,9×69 9,9×73 ,9×73 ,9×75 9×77 9,9×80	0.97416 .97121 .97425 .97430 0.97435 .97439 .97448 0.97453	9,98983 ,98985 ,98987 ,98989 9,98991 ,98993 ,98995 ,98997 9,98999	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712 .97716	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 ,99109 9,99111	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213 ,99215 <b>0,9</b> 9217	0.98182 .98185 .98189 .98193 0.98197 .98201 .98205 .98209 0.98212	60 56 52 44 49 83 28
0   8   1   16   16   17   18   18   18   18   18   18   18	34 32 33 34 35 36 37 38 39	9 98796 98738 98741 98743 98745 98747 98749 9874 9 98754	0.97432 .97437 .97442 .97442 .97451 .97156 .97161 .97466 0.97474	9,98863 ,98865 ,98867 ,98869 9,98873 ,98875 ,98877 9,8886 9,8886 9,8886	0.97416 .97426 .97425 .97436 0.97435 .97439 .97448 0.97453 .97458	9,98983 ,98985 ,98987 ,98989 9,98991 ,98993 ,98995 ,98997 9,98999 ,59001	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712 .97716 0.97721	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 ,99109 9,99111 ,99113	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971	9,90203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213 ,99215 <b>0,</b> 99217 ,99218	0.98183 .98183 .98189 .98193 0.98197 .98201 .98205 .98209 0.98212 .98216	35324488485
0   8   12   16   17   18   17   18   17   18   17   18   18	34 32 33 34 35 36 37 38 39 40	9 98736 98738 98741 98743 9 98745 98747 9874 9 98754 9 98754 98756 98758	0,97432 .97437 .97442 .97447 9,97151 .97166 .97466 0,97474 .97476	9.98863 .98865 .98867 .98869 .9.98873 .98875 .98877 .9.9880 .98880 .98880 .98880	0.97116 .97121 .97125 .97125 .97130 0.97125 .97439 .97114 .97148 0.97153 .97162	9,98983 ,98985 ,98987 ,98989 9,98991 ,98993 ,98995 ,98997 9,98899 ,99001 ,99001	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712 .97716 0.97721 .97725	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 9,9111 ,99113 ,99115	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971 .97978	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213 ,99215 0,99217 ,99218 99220	0.98183 .98183 .98189 .98193 0.98197 .98201 .98205 .98209 0.98212 .98216 .98220	55384964855 553849648555
0   4   8   1   1   1   1   1   1   1   1   1	34 32 33 34 35 36 37 38 39 40 41	9 98736 98738 98741 98743 9 98745 98747 9874 9 98754 98756 98756 98756	0,97432 .97437 .97442 .97447 .97751 .97756 .97466 0.97474 .97476 .97476 .97476	9.98863 98865 98867 98869 9.98871 98873 98875 9.8887 98880 98884 98884	0.97116 .97121 .97125 .97130 0.97135 .97439 .97448 0.97153 .97458 .97462	9,98983 ,98985 ,98987 ,98989 9,98993 ,98995 ,98995 ,98999 ,99001 ,99001 ,99001	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712 .97716 0.97721 .97723	9,99096 ,99098 ,99400 ,99102 9,99104 ,99106 ,99107 ,99111 ,99113 ,98115 ,98116	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971 .97978 .97982	9,99203 ,99205 ,99206 ,99208 9,99210 ,99212 ,99213 ,99215 0,99217 ,99218 99220 99220	0.98182 .98183 .98189 .98193 0.98197 .98201 .98209 0.98212 .98216 .98220	56 58 43 49 56 52 58 44 49 56 52 57 57 57 57 57 57 57 57 57 57 57 57 57
0	34 32 33 34 35 36 37 38 39 40 41 12	9 98736 98738 98741 98743 9 98747 98747 98754 9 98754 9 8754 98756 98756 98760	0.97432 .97437 .97442 .97442 .97456 .97156 .97466 .97466 .97474 .97476 .97476	9,98863 ,98865 ,98867 ,98869 9,98873 ,98875 ,98877 9,8886 9,8886 9,8886 9,8886	0.97416 .97121 .97125 .97130 0.97435 .97439 .97448 0.97453 .97153 .97154 .97467 .97467	9,98983 ,98985 ,98987 ,98989 9,98991 ,98995 ,98997 9,98899 ,99001 ,99001 9,99006	0.97686 .97690 .97695 .97699 0.97703 .97708 .97712 .97716 0.97721 .97729 .97729	9,99096 ,99098 ,99100 ,99102 9,99104 ,99107 ,99107 ,99114 ,99113 ,99115 ,99116	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971 .97972 .97982	9,99203 ,99205 ,99206 ,99208 9,99210 ,99213 ,99215 <b>0,</b> 99217 ,98218 ,99218 ,99229 ,99229	0.98182 .98183 .98183 .98193 0.98197 .98205 .98205 .98216 .98216 .98210 .98220	55 28 44 96 22 8 22 0 16 17
0   4   8   1   1   1   1   1   1   1   1   1	34 32 33 34 35 36 37 38 39 40 41 12 43	9 98736 98738 98741 98743 9 98747 98747 98754 9 98754 9 98756 98756 9 48756 9 48762	0.97432 .97437 .97442 .97447 9.97154 .97166 .97466 0.97474 .97476 .97180 .97180	9,98863 ,98865 ,98867 ,98869 9,98873 ,98875 ,98877 9,9886 9,8882 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884 ,98884	0.97416 .97121 .97125 .97130 0.97135 .97439 .97448 0.97153 .97462 .97462 .97467 0.97474	9,98983 ,98985 ,98987 ,98989 9,98993 ,98995 ,98997 9,9899 ,99001 ,99001 9,99001 9,99006 9,99006	0.97686 .97690 .97695 .97699 0.97708 .97712 .97716 0.97721 .97725 .97725 .97734	9,99096 ,99098 ,99100 ,99104 ,99107 ,99107 ,99109 ,99114 ,99113 ,99115 ,99116 ,99118 ,99118	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971 .97978 .97982 .97982	9,90203 ,99205 ,99208 ,99208 9,99210 ,99213 ,99215 ,99215 ,99218 ,99220 ,99223 ,90223	0.98182 .98183 .98189 .98193 0.98197 .98205 .98209 0.98212 .98216 .98220 .98221 0.98221	56 58 44 40 56 52 58 44 40 56 52 57 57 57 57 57 57 57 57 57 57 57 57 57
0   4   8   1   1   1   1   1   1   1   1   1	34 32 33 34 35 36 37 38 39 40 41 12	9 98736 98738 98741 98743 9 98747 98747 98754 9 98754 9 8754 98756 98756 98760	0.97432 .97437 .97442 .97442 .97456 .97156 .97466 .97466 .97474 .97476 .97476	9,98863 ,98865 ,98869 9,98871 ,98873 ,98875 9,8887 9,8880 9,8884 9,8884 9,8886 9,8886 9,8886 9,8886	0.97416 .97121 .97125 .97430 0.97439 .97449 .97448 0.97453 .97462 .97462 .97467 .97462 .97467 0.97474	9,98983 ,98985 ,98987 ,98989 ,98995 ,98995 ,98995 ,98999 ,99001 ,99001 ,99001 ,99006 ,99008	0.97686 .97690 .97699 .97699 0.97708 .97712 .97712 .97721 .97725 .97729 .97734 0.97734 0.97734	9,99096 ,99098 ,99100 ,99104 ,99107 ,99107 ,99109 9,99114 ,99113 ,99115 ,99116 9,9118 ,99120 9,99120	0.97841 .97945 .97949 .97953 0.97957 .97962 .97966 .97970 0.97971 .97978 .97982 .97982 0.97999	9,90203 ,99205 ,99206 ,99208 9,99210 ,99213 ,99215 9,90217 ,99218 ,99220 9,90223 ,90223 ,90225 9,90227	0.95152 .95153 .95193 .95193 0.95197 .95201 .95205 .95206 .95216 .95220 .95224 0.95236	55 28 44 96 22 8 22 0 16 17
0   4   8   1   1   1   1   1   1   1   1   1	34 32 33 34 35 36 37 38 39 40 41 12 43	9 98736 98738 98741 98743 9 98747 98747 98754 9 98754 9 98756 98756 9 48756 9 48762	0,97432 .97437 .97442 .97442 .97456 .97156 .97466 .97466 .97476 .97476 .97476 .97180 .97180 .97180	9,98863 ,98865 ,98867 ,98869 ,98873 ,98875 ,98875 ,98876 ,98884 ,98866 ,98866 ,98866 ,98866 ,98866	0,97416 .97121 .97123 .97125 .97126 .97135 .97439 .97114 .9745 .97162 .97162 .97167 .97176 .97176	9,98983 ,98985 ,98987 ,98989 9,98991 ,98995 ,98995 ,98997 9,9899 ,99004 ,99004 9,99006 ,99008 9,99006	0.97686 .97690 .97695 .97695 .97695 .97708 .97712 .97716 0.97721 .97725 .97729 .97734 0.97734 0.97717	9,99096 ,99098 ,99109 ,99101 ,99106 ,99107 ,99109 ,99111 ,99116 ,99116 ,99116 ,99120 ,99120 ,99120 ,99120	0.97941 .97945 .97949 .97949 .97962 .97962 .97966 .97966 .97971 .97978 .92986 0.97999 0.97999	9,90203 ,99205 ,99206 ,99210 ,99212 ,99213 ,99217 ,99217 ,99218 ,99220 ,99220 ,99223 ,99227 ,7,7	0.98182 .98185 .98189 .98193 0.98197 .98201 .98205 .98216 .98216 .98216 .98220 .98220 .98221 .98230	55 28 44 96 22 8 22 0 16 17
0   4   8   1   16   16   16   17   16   17   17	31 32 33 31 35 36 37 38 39 40 41 12 43 44	9 98736 98738 98741 98743 9 98745 98747 98749 98754 98756 98756 98766 9 98766 9 98766	0.97432 .97437 .97447 .97447 .97456 .97456 .97466 0.97474 .97486 .97180 .97180 .97180 .97180	9,08863 98865 98867 98869 9 98871 98873 98875 9 98875 9 98880 9 98886 9 98886 9 98886 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.97416 .97121 .97123 .97135 .97439 .97439 .97448 0.97153 .97467 0.97162 .97467 0.97476 0.97480 /	9,98983 98985 98985 98987 9,9899 9,9899 98901 98907 9,98006 9,90006 9,90006 9,90006	0.97686 .97690 .97695 .97695 0.97703 .97708 .97712 .97725 .97725 .97727 .97734 0.97742 0.97747	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 ,99107 9,99113 ,99115 ,99116 9,9122 ,9122 ,9122	0.97841 .97945 .97945 .97945 .97953 0.97957 .97962 .97966 .97970 0.97971 .9978 .97986 0.97990 0.97994 0.97998	9,99203 99205 99206 9,99210 99212 90213 99215 <b>0,</b> 99217 90220 90222 9 99223 9 99225 1,5h	0.98182 .98185 .98189 .98193 0.98197 .98201 .98209 0.98212 .98216 0.98224 0.98228 .98224	55 28 44 96 22 8 22 0 16 17
0   4   8   1   16   16   16   17   16   17   17	31 32 33 33 34 35 36 37 38 39 40 41 12 43 44	9 98736 98738 98741 98743 9 98745 98747 98747 98754 98754 98754 98766 98766 98766 98766 98766	0.97432 .97437 .97447 .97447 9.97151 .97166 .97466 0.97474 .97180 .97180 0.97190 0.97290	9,08863 98865 98867 98867 98871 98873 98877 98877 98886 98886 98886 98886 19886 19886 19886	0,97416 ,97121 ,97125 ,97136 ,97136 0,97135 ,97144 ,97148 0,97158 ,97162 ,97467 0,97174 ,97476 0,97174 ,97476	9,98983 98985 98987 98987 9,9899 9,9896 98965 9,9896 9,9896 9,9806 9,9806 9,9806 9,9806 9,9806 9,9806 9,9806 9,9806	0.9768B .97690 .97695 .97695 .97696 .97703 .97703 .97712 .97716 0.97721 .97725 .97729 .97742 0.97747 (0.97717 (0.97717	9,99096 ,99098 ,99100 ,99102 9,99104 ,99107 ,99109 9,99111 ,99115 ,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,99120 9,991	0.97841 97945 97949 97949 97953 0.97957 97962 97962 97970 0.97971 97982 97986 0.97990 0.97994 0.97998	9,99203 ,99205 ,99206 ,99210 ,99212 ,99213 ,99215 ,99215 ,99223 ,99223 ,99223 ,99223 ,99227 ,70227 ,70227 ,70227 ,70227	0.98182 .98185 .98189 .98189 .98193 0.98197 .98201 .98209 0.98216 .98220 .98221 0.98236 .98237 0.98238	60 56 52 48 49 86 88 82 82 82 86 11 86 86
0   4   8   1   16   16   16   17   16   17   17	34 32 33 34 35 36 37 35 39 40 41 12 43 44	9 98736 98738 98741 98743 9 98747 98747 98744 9 98754 98756 98760 9 98766 0 98766 0 98766 0 98766 0 98766	0.97432 .97437 .97447 .97447 9.97151 .97156 .97466 0.97474 .97180 .97180 0.97280 .97200	9,08863 98865 98867 98869 9 98871 98873 98875 98877 9 98882 98886 9 98886 9 98882 1 2 1 4 1 4 1 4 1 4 1 5 1 6 1 7 1 9 1 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	0,97416 ,97121 ,97123 ,97123 ,97123 ,97125 ,97143 ,97144 ,97144 ,97167 ,97167 ,97167 ,97167 ,97167 ,97176 ,97176 ,97176 ,97176 ,97176 ,97176 ,97176 ,97176 ,97176	9,98983 98985 98987 98987 9 98994 9 98994 9 98995 9 98997 9 98699 9 99000 19008 9 99010 19 99010 19 99012	0.9768B .97690 .97695 .97695 .97696 .97703 .97702 .97712 .97716 0.97721 .97729 .97734 0.97734 0.97742 0.97747 9.97742	9,99096 ,99098 ,99100 ,99102 9,99104 ,99107 ,99107 ,99114 ,99114 ,99118 ,99120 ,99120 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121	0.97841 97945 97949 97949 97949 97953 0.97957 97962 97970 0.97971 97982 97982 0.97990 0.97998 0.97999 163	9,99203 ,99205 ,99206 ,99208 9,99210 ,99217 ,99217 ,99217 ,99223 9,99223 ,99223 ,13h ,20227 ,13h ,20227 ,13h ,20230 ,99230	0.98182 .98185 .98185 .98193 0.98197 .98201 .98209 0.98212 .98213 .98221 0.98228 .98221 0.98236 .98236 .98236	60 56 52 43 49 86 87 87 87 87 87 87 87 87 87 87 87 87 87
0   4   8   1   16   16   16   17   16   17   17	31 32 33 31 33 35 36 37 38 39 40 41 42 44 44 44	9 98736 98738 98743 9 98745 9 98745 98749 98749 9 98746 98756 98756 9 8864 9 98764 9 98764 9 98764 9 98764 9 98764 9 98764	0.97432 .971437 .97147 .97147 9.97151 .97161 .97161 .97466 0.97176 0.97180 .97180 .97180 0.97290 .97290	9,98863 98865 98867 98869 9,98871 98877 9,8877 9,88877 9,9886 9,9886 9,9886 9,9886 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	0.97416 .97121 .97123 .97130 0.97130 .97132 .97144 .97144 0.97158 .97167 .97167 0.97476 .97476 .97476 .97480 .97480 .97480 .97480	9,98983 ,98985 ,98987 ,98989 9,98993 ,98995 ,98997 ,99004 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006 ,99006	0.97686 .97690 .97699 .97699 0.97703 .97712 .97716 0.97721 .97729 .97729 .97734 0.97742 0.97747 0.97747 0.97747 9.97747	9,99096 ,99098 ,99100 ,99100 ,99101 ,99107 ,99107 ,99109 ,99113 ,99115 ,99116 ,99116 ,99116 ,99120 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,	0.97841 97945 97945 97949 97953 0.97957 97966 97970 0.97971 97982 0.97990 0.97991 0.97998 0.97998 0.97998 0.97998	9,99203 ,99205 ,99206 ,99208 9,99210 ,99213 ,99215 9,99215 ,99223 ,99223 ,99223 ,99223 ,99223 ,99223 ,99223 ,99230 ,99230	0.98182 .98185 .98189 .98193 0.98197 .98205 .98205 .98216 .98216 .98228 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236	60 56 2 44 4 4 6 6 2 8 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 2 16 1 8 3 4 4 4 6 6 2 8 2 2 2 16 1 8 3 4 4 4 6 6 2 2 2 2 2 2 2 16 1 8 3 4 4 4 6 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0 3 8 12 16 20 2 2 26 20 20 20 20 20 20 20 20 20 20 20 20 20	34 32 33 34 35 36 37 38 39 40 41 12 43 44 44 45	9 98736 98738 98743 98743 9 98745 9 8747 98747 9 8756 9 88760 9 98766 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .971437 .971447 9.97151 .97161 .97161 .97161 .97162 .97185 0.97176 0.97185 0.97180 0.97200 .97200	9,98863 ,98865 98867 ,98869 9,98875 ,98875 ,98875 ,98875 ,98876 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,9888	0.97416 .97121 .97123 .97130 0.97135 .97144 .97448 .97145 .97167 0.97158 .97167 0.97480 /	9,9883 ,98985 98987 98987 98899 98995 98995 98995 99000 99000 99010 15 17 15 17 90014 90014 90014 90014	0.9768B .97690 .97695 .97699 0.97703 .97712 .97716 0.97721 .97725 .97734 0.97734 0.97747 0.97760 .97760	9,99096 ,99098 ,99100 ,99102 9,99101 ,99107 ,99109 9,99113 ,99115 9,9116 9,9120 1,77 9,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1,9120 1	0.97841 .97945 .97949 .97949 .97953 0.97957 .97966 .97906 0.97971 .92978 0.97998 0.97998 0.97998 0.97998 0.97998	9,99203 99205 99206 99208 9,99210 99213 99215 0,99215 0,99215 9,99223 99222 1,7h 10h 7m 99232 99232 99232 99232 99232 99232	0.98182 .98185 .98183 .98193 .98193 0.98197 .98205 .98205 .98216 .98221 0.98228 0.98236 .777 0.98236 .98233 .98213 .98213 .98213	60 56 52 48 44 40 86 28 23 21 20 16 17 83 48 44 40 40 40 40 40 40 40 40 40 40 40 40
6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48	9 98736 98738 98743 9 98743 9 98745 98749 98744 9 98744 9 98756 9 48,62 9 48,62 9 98764 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97447 .97447 .97447 .97447 .97151 .97161 .97161 .97160 .97176 .97180 .97180 .97190 .97290 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294	9,98863 98865 98867 98869 9,98871 98875 98875 98876 9,98876 9,9886 9,9886 9,9886 9,98890 1,2 2,7 2,7 9,0891 9,0891 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0890 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9,0800 9	0.97416 .97121 .97123 .97130 0.97132 .97414 .97448 .97162 .97167 .97167 .97167 .97176 .97176 .97185 .97187 .97189 .97187	9,98983 98985 98987 98987 98989 98989 98995 98995 9,8899 9,9899 9,9899 9,9899 9,9900 9,9900 6,77 5,77 9,99012 9,99012 9,9014 9,9014 9,9015 9,9015 9,9015	0.9768B .97690 .97699 .97699 6.97703 .97712 .97716 .97725 .97729 .97729 .97742 0.97747 (0.97747 97742 0.97747 97742 0.97755 97760 .97760 .97760	9,99096 ,99098 ,99100 ,99102 9,99104 ,99106 ,99107 9,9113 ,99115 ,99115 ,99115 ,99120 9,99120 9,99121 9,99121 9,99121 9,99121 9,99121 9,99121 9,99121	0.97841 .97945 .97945 .97949 .97953 0.97957 .97966 .97970 .97978 .97982 .97994 0.97991 -0.97994 -163 -0.98007 .98007 .98011 .98015	9,99203 ,99205 ,99206 ,99210 ,99212 ,99212 ,99215 ,99215 ,99220 ,99227 ,185 ,99220 ,99227 ,185 ,99220 ,99220 ,99220 ,99220 ,99220 ,99220 ,99220 ,99230 ,99230 ,99231 ,99231	0.98182 .98185 .98189 .98193 0.98197 .98205 .98205 .98216 .98216 0.98228 .98236 //m 0.98233 0.98213 0.98213 0.98213 .98213 0.98213 .98213	60 56 52 48 44 40 86 32 28 21 20 11:8 3 50 50 50 50 50 50 50 50 50 50 50 50 50
0 3 8 12 16 20 2 2 26 20 20 20 20 20 20 20 20 20 20 20 20 20	34 32 33 34 35 36 37 38 40 41 42 44 44 44 45 46 47 48 49 50	9 98736 98738 98743 98743 98745 98745 98756 98756 98756 98756 98766 9 98766 9 98766 9 98766 9 98766 9 98766 9 98766	0.97432 .971437 .971437 .97147 9.97151 .97161 .97166 0.97474 .97186 0.97185 0.97190 0.97290 0.97290 0.97291 0.97291 0.97292	9,98863 ,98865 ,98867 ,98869 9,98871 ,98873 ,98875 ,98876 ,98886 9,98886 9,98892 ,177 ,09890 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,08896 ,088	0.97416 .97121 .97123 .97123 .97130 0.97135 .97144 0.97153 .97158 0.97167 0.97176 .97176 .97176 .97176 .97179 .97179 .97190 .97190 .97193 .97193 .97193 .97193 .97193	9,98983 ,98985 ,98987 ,98987 ,98989 ,98995 ,98995 ,98001 ,99006 ,99006 ,99008 ,99010 ,6011 ,99012 ,90014 ,90018 ,90018 ,90018 ,90018	0.9768B .97690 .97695 .97695 .97699 0.97792 .97712 .97725 .97725 0.97734 0.97738 .97747 0.97757 (0.97754 0.97756 .97764 .97765 .97764	9,99096 ,99190 ,99100 ,99101 ,99104 ,99107 ,99109 ,99109 ,99111 ,99116 ,99116 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 ,9912 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,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,99004 ,9	0.97686 .97690 .97695 .97699 6.97708 .97712 .97712 .97721 .97724 .97734 .97742 .97747 (0.97734 .97755 .97760 .97756 .97760 .97756 .97760 .97760 .97768	9,99096 ,99190 ,99100 ,99102 ,99104 ,99106 ,99107 ,99113 ,99113 ,99115 ,99118 ,99120 ,99120 ,99121 ,99121 ,99120 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,99121 ,	0.97841 .97945 .97949 .97943 0.97953 0.97962 .97962 .97966 .97970 0.97971 .97982 .97998 163 0.97998 163 0.97998 163 0.98007 .98011 .98015 0.98019 .98013 .98013 .98023 .98023	9,99203 ,99205 ,99206 ,99208 ,99210 ,99212 ,99213 ,99215 9,9923 ,99225 9,99237 ,7,46 9,732 9,99237 ,99237 ,99237 ,99237	0.98182 .98185 .98189 .98193 0.98197 .98201 .98205 .98212 .98216 .98220 .98221 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 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.98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236	60 56 52 48 40 86 82 22 20 16 12 8 56 52 44 40 66 42 40 40 40 40 40 40 40 40 40 40 40 40 40
6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 34 35 36 37 38 39 40 41 12 43 44 45 46 47 49 50 51 52	9 98736 98738 98741 98743 9 98745 9 98747 9 88747 9 98754 9 98754 9 98754 9 98764 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97437 .97447 .97747 .97747 .97756 .97466 .97466 .97476 .97180 .97490 .97490 .97290 .97290 .97290 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219	9,98863 ,98865 ,98867 ,98869 ,9 98873 ,98875 ,98875 ,98875 ,98880 ,98880 ,98890 ,7 2 ,7 3 ,7 3 ,7 4 ,7 4 ,7 4 ,7 4 ,7 4 ,7 4 ,7 4 ,7 4	0.97416 .97121 .97123 .97130 0.97135 .97130 .97144 0.97153 .97158 .97167 0.97176 0.97180 .97170 .97170 .97170 .97180 .97180 .97190 .97190 .97508 .97508 .97508 .97508	9,98883 ,98985 ,98987 ,98989 9,9899 ,98995 ,98995 ,98995 ,99004 9,99006 9,99006 9,99006 9,99006 9,99006 9,99010 0,99014 0,99014 0,99014 0,99014 0,99018 0,99018 0,99018 0,99018	0.97686 .97690 .97695 .97695 .97699 0.97703 .97712 .97725 .97725 .97734 0.97734 .97742 0.97754 .97756 .97764 .97756 .97764 .97756 .97764 .97766 .97766 .97766 .97776 .97776 .97777	9,99096 ,99098 ,99100 ,99100 ,99101 ,99106 ,99107 ,99109 ,99113 ,99113 ,99120 ,99120 ,99120 ,99120 ,99120 ,99120 ,99120 ,99121 ,99126 ,99126 ,99127 ,99127 ,99127 ,99128 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,99129 ,	0.97841 .97845 .97949 .97953 0.97957 .97962 .97970 0.97971 .97978 .97982 .97990 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 0.97998 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,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,98886 ,	0.97416 .97121 .97125 .97126 .97130 0.97135 .97439 .97114 .97168 .97168 .97168 .97167 .97176 .97176 .97176 .97185 .97185 .97185 .97185 .97185 .97185 .97185	9,9883 ,98985 ,98987 ,98987 ,9 5989 ,9 5991 ,9893 ,9893 ,9893 ,99010 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 ,99000 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.98002 .98002 .98002	9,90203 ,99205 ,99206 ,99208 ,99210 ,99212 ,99213 ,99215 ,99217 ,99218 ,99223 ,99223 ,99223 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237 ,99237	0.98182 .98185 .98183 .98193 0.98197 .98201 .98205 .98216 .98220 .98221 0.98236 .98236 .98247 0.98238 .98247 .98247 .98247 .98247 .98247 .98247 .98247 .98247 .98262 .98262	60 56 52 48 43 40 86 32 28 20 16 17 85 57 58 44 40 86 56 52 88 44 40 86 86 86 86 86 86 86 86 86 86 86 86 86
6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 34 35 36 37 38 39 40 41 12 43 44 45 49 50 51	9 98736 98738 98741 98743 9 98745 9 98756 98756 98756 9 8866 9 98766 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97437 .97447 .97747 .97747 .97756 .97766 .97766 .97766 .97180 .97190 0.97200 .97200 .97200 .97200 .97200 .97200 .97201 .97200 .97200 .97200 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213 .97213	$\begin{array}{c} 9.98863\\ .98865\\ .98867\\ .98869\\ .98873\\ .98873\\ .98873\\ .98875\\ .98873\\ .98876\\ .98880\\ .98880\\ .98880\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .98800\\\\ .9880$	0.97416 .97121 .97123 .97123 .97123 .97139 .97143 .97144 .97144 .97162 .97162 .97162 .97162 .97162 .97162 .97162 .97162 .97162 .97162 .97162 .97170 .97170 .97170 .97190 .97508 .97508 .97572 .97572 .97572 .97572 .97572	9,9883 ,98985 ,98987 ,98987 ,98993 ,98995 ,98995 ,98996 ,99006 ,99006 ,99006 ,99006 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,99001 ,9	0.9768B .97690 .97690 .97699 .97699 .97768 .97716 .97716 .97721 .97729 .97729 .97738 .97755 .97766 .97766 .97766 .97756 .97767 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97757 .97775 .97775 .97777 .97775 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97778	9,99096 ,99098 ,99100 ,99100 ,99107 ,99107 ,99107 ,99107 ,99118 ,99118 ,99120 ,99127 ,99127 ,99127 ,99127 ,99127 ,99129 ,99129 ,99129 ,99129 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,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,99012 ,	0.97685 0.97690 0.97690 9.7699 9.7699 9.7708 9.7712 9.97712 9.97724 0.97738 9.97742 0.97755 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768 9.97768	9,90096 ,90098 ,90100 ,90102 9,90104 9,90104 9,90107 9,90113 ,90115 9,90126 9,90126 9,90126 9,90126 9,90127 9,90129 9,90129 9,90129 9,90129 9,90129 9,90129 9,90134 9,90134 9,90145 9,90145 9,90145 9,90145	0.97841 .97845 .97945 .97949 .97953 .97962 .97962 .97970 .97970 .97970 .97990 .97990 .97990 .98007 .98011 .98023 .98027 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 .9803 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,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231	0.98182 .98185 .98189 .98193 .98193 .98201 .98201 .98209 .98210 .98218 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 .98213 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6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 33 35 36 37 38 39 41 12 43 44 45 49 50 51 55 56 57	9 98736 98738 98741 98743 9 98745 98747 98749 9 88754 9 88754 9 88754 9 88764 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97437 .97447 .97447 .97546 .97466 .97466 .97466 .97180 .97180 .97180 .97195 0.97290 .97290 .97290 .97291 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219 .97219	9,98863 98867 98867 98873 98873 98873 98873 98873 98877 9 98874 98892 1 2 98892 1 3 98892 1 4 98892 1 5 98892 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	0.97416 .97121 .97123 .97123 .97123 .97130 0.97133 .97144 .97162 .97162 .97167 .97167 .97167 .97167 .97169 .97176 .97176 .97176 .97176 .97194 .97194 .97193 .97194 .97193 .97194 .97194 .97193 .97508 .97508 .97508 .97508 .97508	9,9883 ,98985 ,98987 ,98987 ,98989 ,98935 ,9895 ,9896 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000	0.97686 .97690 .97690 6.97769 .97769 6.97708 .97712 .97721 .97724 .97724 .97734 .97747 .97747 .97756 .97760 .97754 .97760 .97784 .97760 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778 .97778	9,90096 ,90098 ,99100 ,99100 ,99106 ,99106 ,99106 ,99113 ,99113 ,99113 ,99120 ,99120 ,99127 ,99127 ,99127 ,99127 ,99127 ,99127 ,99127 ,99127 ,99128 ,99131 ,99133 ,99133 ,99133 ,99134 ,99134 ,99134 ,99136 ,99136 ,99140 ,99140 ,99140 ,99140	0.97841 97945 97949 97953 0.97957 0.97962 97966 97966 97970 0.97971 97982 97998 0.97998 163 0.97998 163 0.97998 163 0.98007 98011 98015 0.98013 98017 98031 0.98031 0.98033	9,90203 ,99205 ,99206 ,99208 ,99210 ,99212 ,99213 ,99215 9,9923 ,99220 ,99222 ,99222 ,99222 ,99223 ,99232 ,99237 ,99230 ,99230 ,99230 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231	0.98182 .98185 .98185 .98193 0.98197 .98201 .98205 .98212 .98216 .98220 .98221 .98236 .98236 .98236 .98236 .98247 .98247 .98247 .98247 .98247 .98247 .98247 .98247 .98247 .98258 .98266 .98266 .98274 .98274 .98274 .98274 .98277 .98274	60 56 52 48 44 40 86 52 28 20 16 17 85 44 40 86 82 83 44 40 86 82 84 40 86 86 86 86 86 86 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6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 33 33 33 33 33 33 33 33 33 33 33	9 98736 98738 98743 98743 98747 98749 98756 98756 98756 98756 98761 9 98761 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97437 .97447 9.97147 9.97156 .97161 .97166 .97166 .97176 .97180 .97180 .97195 0.97290 .97290 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97295 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 .97296 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,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000 ,9000	0.9768B .97690 .97690 .97699 .97699 .97708 .97712 .97716 0.97721 .97716 0.97738 .97717 .97716 0.97755 .97766 .97767 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97777 .97779 .97781	9,99096 ,99098 ,99100 ,99101 ,99106 ,99106 ,99107 ,99115 ,99115 ,99115 ,99116 ,99120 ,99120 ,99127 ,99127 ,99127 ,99127 ,99128 ,99134 ,99134 ,99134 ,99134 ,99134 ,99134 ,99134 ,99134 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,9914 ,99	0.97841 .97845 .97945 .97949 .97953 .0.97957 .97962 .97966 .97970 .97971 .97982 .97990 .97990 .97998 .97990 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 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.97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .97998 .9799	9,90203 ,99205 ,99206 ,99208 ,99210 ,99212 ,99213 ,99215 ,99220 ,99222 ,99222 ,99222 ,99223 ,99225 ,99225 ,99225 ,99227 ,1,00 ,99230 ,99230 ,99230 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231 ,99231	0.98182 .98185 .98185 .98189 .98193 .98193 .98193 .98201 .98209 .98212 .98212 .98228 .98228 .98239 .98236 .98239 .98236 .98239 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236 .98236	60 56 52 48 44 40 86 82 28 20 16 17 86 86 87 86 87 86 87 87 88 86 87 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6 4 8 17 16 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	34 32 33 33 33 35 36 37 38 39 40 41 42 43 44 41 42 43 44 50 51 55 56 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58	9 98736 98738 98741 98743 9 98745 9 98747 9 98754 9 98754 9 98754 9 98754 9 98756 9 98766 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.97432 .97437 .97447 .97747 .97747 .97756 .97766 .97766 .97766 .97790 .97790 .97790 .97299 .97299 .97299 .97292 .97293 .97293 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294 .97294	9,98863 98867 98867 98873 98873 98873 98873 98873 98877 9 98873 98873 98877 9 9884 98892 1 2 98892 1 2 98892 9 8891 9 8891	0.97116 .97121 .97123 .97123 .97123 .97139 .97139 .97144 .97162 .97167 .97167 .97167 .97167 .97176 .97190 .97190 .97193 .97193 .97193 .97193 .97193 .97193 .97536 .97534 .97534 .97534 .97534	9,9883 ,98985 ,98987 ,98987 ,98989 ,98935 ,9895 ,9896 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 ,9900 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.97784 .97784 .97784 .97784 .97784 .97784 .97784 .97784	9,90096 ,90098 ,90100 ,90100 ,90101 ,9,90104 ,9106 ,9107 ,9107 ,9113 ,90115 ,91120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,9120 ,	0.97841 97945 97949 97953 0.97957 97962 97962 97971 97972 97972 97994 0.97994 0.97994 0.97994 0.97994 0.97994 0.97995 0.98007 98011 98023 98031 98032 98031 98032 98031 98038	9,99203 ,99205 ,99206 ,99208 ,99210 ,99213 ,99213 ,99215 ,99218 ,99220 ,99223 ,99223 ,99230 ,99230 ,99230 ,99231 ,99237 ,99231 ,99237 ,99231 ,99237 ,99239 ,99247 ,99247 ,99247 ,99247 ,99247 ,99247 ,99250 ,99250	0.98182 .98185 .98185 .98189 .98193 0.98197 .98201 .98206 .98212 .98220 .98221 .98230 .98230 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 .98233 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s												
S		11h 0m	165°	11h 4m	166°	11h Sm	167°	11h 12n	168°	11h 16n	169	1
	,	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav.	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hav	Log. Hav.	Nat. Hay.	S
0	0	9.99254	0.98296	9.99350	0.98515	9.99110	0.98719	9.99523	0.99907	9.99599	0.99081	60
4	ĭ	.99255	.98390	.99352	.98518	.99441	.98722	.99524	.98910	.99600	.99081	56
8	2	,99257	.98304	.99353	.98522	.99443	.98725	.99526	.98913			
12	3	.99259	.98308							.99602	.99087	54
				.99355	.98525	.994-14	.98728	.99527	.98916	.99603	.99090	48
16	4	9.99260	0.98311	9.99356	0.98529	9.99446	0.98732	9.99528	0.98919	9.99604	0.99093	44
20	ă	.99262	.98315	.99358	.98532	.99417	.98735	.99529	.98922	.99605	.99095	40
24	6	.99264	.98319	.99359	.98536	.99448	.98738	.99531	.98925	.99606	.99998	36
28	7	.99265	.98323	,99361	.98539	.99450	.98741	.99532	.98928	,99608	.99101	32
32	8	9,99267	0.98326	9.99362	0.98543	9,99151	9,98745	9,99533	0.98931	9,99609	0.99103	28
36	9	.99269	.98330	.99364	.98546	.99453	.98748	.99535	.98934	.99610	.99106	24
40	19	.99270	.98334	.99366	.98550	.99451	.98751	.99536	.98937	.99611	.99109	20
44	11	.99272	.98337	.99367	.95553	.99456	.98754	.99537	.98940	,99612	.99112	16
48	12	9.99274	0.98341	9,99369	0.98557	9.99457	0.98757	9.99539	0.98943	9.99614	0.99114	12
52	13	,99275	.98345	.99370	.98560	.99458	.98761	.99540	.95946			
56	14	9.99277								.99615	.99117	- 8
- 36	1+		0.98349	9.99372	0.98564	9.99460	0.98764	9.99541	0.98919		0.99120	4
l		12h	59m	12h	5.5m	12h	51m	12h	47 m	12h	4.3m	1
s	,	11h 1m	165°	11h 5m	166°	11h 9m	167°	11h 13n	168°	11h 17n	169°	s
0	15	9.99278	0.98352	9.99373	0.98567	9.99461	0.98767	9.99543	0.98952	9.99617	0.99123	
												60
4	16	.99280	.98356	.99375	.98571	.99463	.98770	.99544	.98955	.99618	.99125	56
8	17	,99282	.98360	.99376	.98574	,99464	.98774	.99545	.98958	.99620	.99128	52
12	18	.99283	.98363	,99378	.98577	.99465	.98777	.99546	.98961	.99621	.99131	48
16	19	9,99285	0.98367	9.99379	0.98581	9.99467	0.98780	9.99548	0.98964	9.99622	0.99133	44
20	20	.99287	.98371	.99381	.98584	.99468	.98783	.99549	.98967	.99623	.99136	40
24	21	.99288	.98374	.99382	.98588	.99470	.98786	.99550	.98970	.99624	.99139	36
28	33	,99290	.98378	.99384	.98591	.99471	.98789	.99552	.98973	,99626	.99141	32
32	23	9.99291	0.98382	9.99385	0.98595	9.99472	0.98793	9.99553	0.98976	9.99627	0.99144	28
36	24	.99293	.98385	.99387	.98598	.99474	.98796	,99554	.98979	.99628	.99147	24
40	25	.99295	.98389	.99388	.98601	,99475	.98799	.99555	.98982	.99629	.99149	20
44	26	.99296	.98393	.99390	.98605	.99477	.98892	.99557	.98985	.99630	.99152	16
48	27	9.99298	0.98396	9.99391	0.98608	9.99478	0.98805	9.99558	0.98987	9.99631	0.99155	12
#0 50	28	.99300	.98400	.99393	.98611	.99479	.98809	.99559	.98990	.99633		
52	29			9.99394	0.98615	9.99481		9,99561	0.98993	9.99634	.99157 0.99160	8
56	29	9.99301	0.98404				0.98812					4
		12h	$58^{m}$	12h	$54^m$	13h	$50^{m}$	1.2n	46m	12n	42m	<u> </u>
s	,	11h 2m	165°	11h 6m	166°	11h 10n	167°	11h 14n	168°	11h 18n	169°	s
0	30	9.99303	0.98407	9.99396	0.98619	9.99482	0.98815	9.99562	0.98996	9.99635	0.99163	60
4	31	,99304	.98411	.99397	.98622	.99484	.98818	.99563	.98999	.99636	.99165	56
8	32							.99564	00000			
12			98415	.99399	.98625	.99485	.98521		.99003	.99637	.99168	
	33	.99306	.98415	.99399 99400	.98625 .98629	.99485 99486	.98821 .98824		.99003	.99637	.99168	52
16	33	.99308	.98418	.99400	.98629	.99486	.98824	.99566	.99005	.99638	.99171	52 48
16	34	.99308 9.99309	.98418 0.98422	.99400 9,99402	.98629 0.98632	0.99486 $0.99488$	.98824 0.98827	0.99566 $0.99567$	.99005 0.99008	.99638 9.99639	.99171 0.99173	52 48 44
20	34 35	.99308 9.99309 .99311	.98418 0.98422 .98426	.99400 9,99402 ,99403	.98629 0.98632 .98635	.99486 9.99488 .99489	.98824 0.98827 .98830	.99566 9.99567 .99568	.99005 0.99008 .99011	.99638 9.99639 .99641	.99171 0.99173 .99176	52 48 44 40
20 24	34 35 36	.99308 9.99309 .99311 .99312	.98418 0.98422 .98426 .98429	.99400 9.99402 .99403 .99405	.98629 0.98632 .98635 .98639	.99486 9.99488 .99489 .99490	.98824 0.98827 .98830 .98834	.99566 9.99567 .99568 .99569	.99005 0.99008 .99011 .99014	.99638 9.99639 .99641 .99642	.99171 0.99173 .99176 .99179	52 48 44 40 36
20 24 28	34 35 36 37	.99308 9.99309 .99311 .99312 .99314	.98418 0.98422 .98426 .98429 .98433	.99400 9,99402 .99403 .99405 .99406	.98629 0.98632 .98635 .98639 .98642	.99486 9.99488 .99489 .99490 .99492	.98824 0.98827 .98830 .98834 .98837	.99566 9.99567 .99568 .99569	.99005 0.99008 .99011 .99014 .99016	.99638 9.99639 .99641 .99642 .99643	.99171 0.99173 .99176 .99179 .99181	52 48 44 40 36 32
20 24 28 32	34 35 36 37 38	.99308 9.99309 .99311 .99312 .99314 9.99316	.98418 0.98422 .98426 .98429 .98433 0.98436	.99400 9,99402 .99403 .99405 .99406 9.99408	.98629 0.98632 .98635 .98639 .98642 0.98646	.99486 9.99488 .99489 .99490 .99492 9.99493	.98824 0.98827 .98830 .98834 .98837 0.98840	.99566 9.99567 .99568 .99569 .99571 9.99572	.99005 0.99008 .99011 .99014 .99016 0.99019	.99638 9.99639 .99641 .99642 .99643 9.99644	.99171 0.99173 .99176 .99179 .99181 0.99184	52 48 44 40 36 32 28
20 24 28 32 36	34 35 36 37 38 39	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317	.98418 0.98422 .98426 .98429 .98433 0.98436 .98440	.99400 9,99402 .99403 .99405 .99406 9.99408 .99409	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495	.98824 0.98827 .98830 .98834 .98837 0.98840 .98843	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573	.99005 0.99008 .99011 .99014 .99016 0.99019 .99022	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186	52 48 44 40 36 32 28 24
20 24 28 32 36 40	34 35 36 37 38 39 40	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317 .99319	.98418 0.98422 .98426 .98429 .98433 0.98436 .98440 .98444	.99400 9.99402 .99403 .99405 .99406 9.99408 .99409 .99411	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649 .98652	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496	.98824 0.98827 .98830 .98834 .98837 0.98840 .98843 .98846	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573 .99575	.99005 0.99008 .99011 .99014 .99016 0.99019 .99022 .99025	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99646	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189	52 48 44 40 36 32 28 24 20
20 24 28 32 36 40 44	34 35 36 37 38 39 40 41	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317 .99319	.98418 0.98422 .98426 .98429 .98433 0.98436 .98440 .98444 .98447	.99400 9.99402 .99403 .99405 .99406 9.99408 .99409 .99411 .99412	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649 .98652 .98656	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496	.98824 0.98827 .98830 .98834 .98837 0.98840 .98843 .98846 .98849	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573 .99575	.99005 0.99008 .99011 .99014 .99016 0.99019 .99022 .99025 .99028	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99648	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99192	52 48 44 40 36 32 28 24 20 16
20 24 28 32 36 40 44 48	34 35 36 37 38 39 40 41 42	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317 .99319 .99320 9.99322	.98418 0.98422 .98426 .98429 .98433 0.98436 .98440 .98444 .98447	.99400 9,99402 .99403 .99405 .99406 9,99408 .99409 .99411 .99412 9,99414	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649 .98652 .98656 0.98659	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496 .99497 9.99499	.98824 0.98827 .98830 .98834 .98837 0.98840 .98843 .98846 .98849 0.98852	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573 .99575 .99576 9.99577	.99005 0.99008 .99011 .99014 .99016 0.99019 .99022 .99025 .99028 0.99031	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99648 9.99649	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99192 0.99194	52 48 44 40 36 32 28 24 20 16 12
20 24 28 32 36 40 44 48 52	34 35 36 37 38 39 40 41 42 43	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317 .99319 .99320 9.99322	.98118 0.98422 .98426 .98429 .98433 0.98436 .98140 .98141 .98147 0.98451	.99400 9.99402 .99403 .99405 .99406 9.99408 .99409 .99411 .99412 9.99414	.98629 0.98632 .98635 .98639 .98642 0.98649 .98652 .98656 0.98659	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496 .99499 .99500	.98824 0.98827 .98830 .98834 .98837 0.98849 .98849 0.98852 .98852	.99566 9.99567 .99568 .99569 .99571 9.99573 .99573 .99576 9.99577 9.99578	.99005 0.99008 .99011 .99014 .99016 0.99019 .99025 .99028 0.99031	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99646 9.99648 9.99649	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99192 0.99194 .99197	52 48 44 40 36 32 28 24 20 16 12 8
20 24 28 32 36 40 44 48	34 35 36 37 38 39 40 41 42	.99308 9.99309 .99311 .99312 .99314 9.99316 .99317 .99319 .99320 9.99322	.98418 0.98422 .98426 .98429 .98433 0.98436 .98440 .98444 .98447	.99400 9.99402 .99403 .99405 .99406 9.99408 .99409 .99411 .99412 9.99414 .99415 9.99417	.98629 0.98632 .98635 .98639 .98642 0.98649 .98652 .98656 0.98659 .98662 0.98666	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496 .99499 .99500 9.99501	.98824 0.98827 .98830 .98834 .98837 0.98849 .98849 0.98852 .98855 0.98858	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573 .99576 9.99576 9.99578 9.99580	.99005 0.99008 .99011 .99014 .99016 0.99019 .99025 .99028 0.99031 .99034 0.99036	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99646 9.99649 .99650 9.99651	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99192 0.99194 .99197	52 48 44 40 36 32 28 24 20 16
20 24 28 32 36 40 44 48 52	34 35 36 37 38 39 40 41 42 43	.99308 9.99309 .99311 .99312 .99314 9.99316 .99319 .99320 9.99322 .99324 9.99325	.98118 0.98422 .98426 .98429 .98433 0.98436 .98140 .98141 .98147 0.98451	.99400 9.99402 .99403 .99405 .99406 9.99408 .99409 .99411 .99412 9.99414 .99415 9.99417	.98629 0.98632 .98635 .98639 .98642 0.98649 .98652 .98656 0.98659	.99486 9.99488 .99489 .99490 .99492 9.99493 .99495 .99496 .99499 .99500	.98824 0.98827 .98830 .98834 .98837 0.98849 .98849 0.98852 .98852	.99566 9.99567 .99568 .99569 .99571 9.99573 .99573 .99576 9.99576 9.99578 9.99580	.99005 0.99008 .99011 .99014 .99016 0.99019 .99025 .99028 0.99031	.99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99646 9.99648 9.99649	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99192 0.99194 .99197	52 48 44 40 36 32 28 24 20 16 12 8
20 24 28 32 36 40 44 48 52 56	34 35 36 37 38 39 40 41 42 43 44	.99308 9.99309 .99311 .99314 9.99316 .99317 .99320 9.99322 9.99324 9.99325	.98118 0.98422 .98426 .98429 .98433 0.98436 .98444 .98447 0.98451 .98454 0.98458	.99400 9.99402 .99403 .99405 9.99408 .99409 .99411 .99412 9.99414 .99415 9.99417	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649 .98652 .98652 .98659 .98662 0.98666 5.37m	$\begin{array}{c} .99486 \\ 9.99488 \\ .99489 \\ .99490 \\ .99492 \\ 9.99493 \\ .99495 \\ .99497 \\ 9.99499 \\ .99500 \\ \underline{9.99501} \\ \underline{I2h} \end{array}$	.98824 0.95827 .98830 .98834 .98837 0.98840 .98843 .98849 0.98852 .98855 0.98858	.99566 9.99567 .99568 .99569 .99571 9.99572 .99573 .99575 9.99577 .99578 9.99580 12h	.99005 0.99008 .99011 .99016 0.99019 .99022 .99028 0.99031 .99031 0.99036	99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99648 9.99649 9.99650 9.99651 12h	.99171 0.99173 .99176 .99181 0.99184 .99186 .99189 .99192 0.99194 .99197 0.99199	52 48 44 40 36 32 28 24 20 16 12 8 4
20 24 28 32 36 40 44 48 52 56	34 35 36 37 38 39 40 41 42 43 44	99308 9.99309 .99311 .99314 9.99316 .99317 .99320 9.99322 9.99324 9.99325 12h 3m	.98118 0.98122 .98426 .98129 .98133 0.98136 .98140 .98141 .98141 .98451 0.98458 57m	99400 9,99402 ,99403 ,99405 ,99406 9,99408 ,99411 ,99412 9,99414 ,99415 9,99417 11h 7m	.98629 0.98632 .98635 .98639 .98642 0.98646 .98649 .98652 .98652 .98659 .98662 0.98666 5.37m	99486 9.99488 .99489 .99490 9.99493 .99495 .99497 9.99499 .99500 9.99501 12h 11h 11n	.98824 0.95827 .98830 .98834 .98837 0.98840 .98843 .98849 0.98852 .98855 0.98858 49m	99566 9.99567 99568 .99569 .99571 9.99573 .99576 9.99576 9.99578 9.99580 12h	.99005 0.99008 .99011 .99016 0.99019 .99022 .99028 0.99031 .99031 0.99036 45m	99638 9.99639 .99641 .99642 .99643 9.99644 .99645 .99648 9.99650 9.99651 12h	.99171 0.99173 .99176 .99181 0.99184 .99186 .99189 .99192 0.99194 .99197 0.99199	52 48 44 40 36 32 28 24 20 16 12 8 4
20 24 28 32 36 40 44 48 52 56	34 35 36 37 38 39 40 41 42 43 44	99308 9.99309 .99311 .99312 .99314 9.99316 .99319 .99320 9.99322 .99324 11h 3m 9.99327	.98118 0.98422 .98426 .98429 .98433 0.98436 .98441 .98447 0.98451 .98454 0.98458 57m 165° 0.98462	99400 9,99402 99403 99405 99406 9,99408 99411 99412 9,99414 99415 9,99417 11h 7m 9,99418	.98629 0.98632 .98639 .98649 0.98646 .98652 .98652 .98666 0.98669 .98666 5.3m 166°	99486 9.99489 99490 99492 9.99493 99496 99497 9.99490 9.99500 11h 11n 9.99503	.98824 0.98827 .98830 .98834 .98837 0.98849 .98849 0.98852 .98859 0.98858 49m 2 167° 0.98862	99566 9.99567 99568 99569 99571 9.99572 99573 99576 9.99577 9.99577 9.99578 12h 11h 15n 9.99581	.99005 0.99008 .99011 .99016 0.99019 .99025 .99028 0.99031 .99034 0.99036 4.5 ^m 2 168°	99638 9.99639 .99641 .99642 .99643 9.99644 .99646 .99648 9.99650 .99650 .99650 .99651 .99652	.99171 0.99173 .99179 .99181 0.99184 .99186 .99189 0.99194 .99197 0.99199 41m 169° 0.99202	52 48 44 40 36 32 28 24 20 16 12 8 4
20 24 28 32 36 40 44 48 52 56	34 35 36 37 38 39 40 41 42 43 44	99308 9.99309 .99311 .99312 .99314 9.99316 .99320 9.99322 .99324 9.99325 .2h .1h .3m 9.99328	.98118 0.98122 .98426 .98429 .98133 0.98136 .98140 .98141 .98151 0.98451 0.98458 57m 165° 0.98162 .98162	99400 9,99402 99403 99405 99406 9,99409 99411 99415 9,99417 12h 11h 7m 9,99418 9,99418 9,99418	.98629 0.98632 .98635 .98639 .98642 0.98649 .98652 .98659 .98662 0.98669 5.3 m 166° 0.98669 .98672	99486 9.99488 99490 99490 99492 9.99495 99496 99500 9.99501 12h 11h 11n 9.99503 9.99504	.98824 0.98827 .98830 .98837 0.98840 .98843 .98849 0.98852 .98858 49m 167° 0.98862 .98865	$\begin{array}{c} .99566 \\ 9.99567 \\ .99568 \\ .99569 \\ .99571 \\ 9.99573 \\ .99575 \\ .99575 \\ .99576 \\ .99578 \\ 9.99580 \\ \hline                                  $	.99005 0.99008 .99014 .99016 0.99019 .99022 .99025 0.99031 .99036 4.577 168° 0.99039 .99042	99638 9.99639 .99641 .99642 .99643 9.99645 .99648 9.99650 9.99650 12h 11h 19h 9.99652 .99653	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 0.99194 .99197 0.99199 41m 0.1695 0.99202 .99205	52 48 44 40 36 32 28 24 20 16 12 8 4
20 24 28 32 36 40 44 48 52 56	34 35 36 37 38 39 40 41 42 43 44 44	99308 9,99309 99311 99312 99314 9,99316 99319 99320 9,99325 12h 11h 3m 9,99327 99328 9,99327 9,99328	.98418 0.98422 .98429 .98433 0.98436 .98444 .98447 0.98451 0.98458 57m 165° 0.98462 .98462 .98462	99400 9,99402 ,99403 ,99405 ,99406 9,99408 ,99412 9,99417 12h 11h 7m 9,99418 ,99421 9,99421	.98629 0.98632 .98639 .98649 0.98646 .98649 .98652 .98656 0.98656 0.98660 0.98669 .98669 .98669	99486 9.99488 9.99490 99490 9.99493 9.99493 9.99496 9.99496 9.99501 12h 11h 11n 9.99503 9.99504	.98824 0.98827 .98834 .98834 .98837 0.98840 .98849 0.98852 0.98855 0.98858 49m 167° 0.98862 .98868	99566 9.99567 99568 99571 9.99572 99573 99576 9.99576 9.99576 9.99578 9.99580 12h 11h 15m 9.99581 9.99582 9.99583	.99005 0.99008 .99011 .99014 .99016 0.99019 .99025 .99028 0.99031 .99034 1 168° 0.99039 .99045 .99049	99638 9.99639 99642 99643 9.99643 9.99645 9.99646 9.99650 9.99650 11h 19n 9.99653 9.99653 9.99653 9.99654	.99171 0.99173 .99179 .99181 0.99184 .99189 .99192 0.99194 7 0.99194 1 169° 0.99202 .99202 .99207	52 48 44 40 36 32 28 24 20 16 12 8 4
20 24 28 32 36 40 44 48 52 56 8 12	34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48	99308 9.99309 9.99311 9.99312 9.99314 9.99317 9.99319 9.99320 9.99325 12h 11h 3m 9.99327 9.99328 9.99330	.98418 0.98422 .98429 .98429 .98433 0.98436 0.98440 .98447 0.98451 .98457 0.98462 .98462 .98462 .98467	$\begin{array}{c} 99400 \\ 9.99402 \\ 9.99403 \\ 99403 \\ 99405 \\ 99406 \\ 9.99406 \\ 9.99411 \\ 99412 \\ 9.99414 \\ 99415 \\ 9.99415 \\ 9.99418 \\ 9.99418 \\ 9.99420 \\ 99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99422 \\ .99421 \\ .99421 \\ .99421 \\ .99422 \\ .99421 \\ .99421 \\ .99422 \\ .99421 \\ .99422 \\ .99421 \\ .99422 \\ .99421 \\ .99422 \\ .99421 \\ .99422 \\ .99421 \\ .99421 \\ .99422 \\ .99421 \\ .99422 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99421 \\ .99$	.98629 0.98632 .98639 .98639 .98642 0.98649 .98649 .98652 .98662 0.98669 0.98666 0.98669 .98672 .98672 .98676	99486 9.99488 99489 99490 99492 9.99493 99496 9.99497 9.99496 9.99500 12h 11h 11n 9.99503 9.99504 9.99504 9.99505	.98824 0.98827 9.98830 9.98834 .98837 0.98843 9.98849 0.98852 9.98855 0.98852 0.98858 497 0.98862 9.9865 9.9868	99566 9.99567 99568 99569 99571 99573 99575 99576 9.99577 99578 9.99580 12h 11h 15m 9.99581 9.99582 9.9583	.99005 0.99008 .99011 .99014 .99016 0.99019 .99022 .99025 .99031 .99034 (57) 168° 168° 168° 168° 168° 168° 168° 168°	99638 9.99639 9.99642 9.99643 9.99644 9.99645 9.99648 9.99650 9.99651 12h 11h 19n 9.99652 9.99653 9.99655	.99171 0.99173 .99176 .99179 .99181 0.99186 .99189 .99189 0.99194 -99197 0.99199 4/m 0.99202 .99205 .99207 .99210	52   48   44   40   36   32   28   24   20   16   12   8   4   4   56   56   52   4,8
20 24 28 32 36 40 44 48 52 56 8 12 16	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	99308 9.99309 9.99311 9.99312 9.99314 9.99317 9.99319 9.99320 9.99322 12h 11h 3m 9.99328 9.99328 9.99331 9.99331	.98418 0.98422 .98429 .98429 .98430 0.98436 0.98446 .98447 0.98451 .98454 0.98458 57m 165° 0.98462 .98465 .98467	$\begin{array}{c} 99400 \\ 9.99402 \\ 9.99403 \\ 99403 \\ 99406 \\ 99406 \\ 9.99406 \\ 9.99411 \\ 99412 \\ 9.99417 \\ \hline \jmath _2 h \\ \hline \\ 1/h 7m \\ \hline 9.99418 \\ 9.99418 \\ 9.99420 \\ 9.99421 \\ 9.99422 \\ 9.99422 \\ 9.99422 \\ 9.99422 \\ 9.99424 \\ 9.99422 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.9944 \\ 9.99424 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 $	98629 0.98632 98633 98639 98642 0.98646 98649 98652 98652 0.98665 5.3 m 0.98666 5.3 (6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	99486 9.99488 99499 99490 99492 9.99495 99496 99497 99500 12h 11h 11m 9.99503 99505 99507 9,99507	.98824 0.98827 .98830 .98834 .98837 0.98849 .98849 .98855 0.98858 4970 -0.98862 .98865 .98868 .98868 .98868	99566 9.99567 9.99569 9.99571 9.99573 9.99573 9.99577 9.99576 9.99577 9.99578 9.99578 9.99578 9.99580 12h 11h 15# 9.99581 9.99584 9.99583 9.99584 9.99586	.99005 0.99008 .99014 .99016 0.99019 .99022 .99025 .99031 0.99031 2 168° 0.99039 .99042 .99042 .99045 .99045	99638 9.99639 9.99641 9.99642 9.99643 9.99645 9.99646 9.99650 9.99650 1.2h 11h 19m 9.99652 9.99654 9.99655 9.99655 9.99654	.99171 0.99173 0.99173 9.99179 9.99181 0.99184 9.99186 9.99189 9.99197 0.99199 417 1 169° 0.99202 9.99205 9.99207 9.99210 0.99212	52   48   44   40   36   32   28   24   20   16   12   8   4   4   56   56   56   52   4.8   4.4   4.4   4.6   4
20 24 28 32 36 40 44 48 52 56 8 12 16 20	34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48	99308 9.99309 9.99314 9.99317 9.99316 9.99317 9.99320 9.99322 9.99325 12h 11h 3m 9.99327 9.99323 9.99333 9.99333	.98418 0.98422 .98426 .98429 .98433 0.98436 .98444 .98447 0.98451 .98455 57m 165° 0.98462 .98465 .98469 .98472 0.98479	99400 9.99402 9.99403 9.99403 9.99406 9.99408 9.99409 9.99411 9.99417 12h 11h 7m 9.99418 9.99420 9.99424 9.99424 9.99424	98629 0.98632 98632 98642 0.98646 0.98646 0.98652 98662 0.98666 0.98666 5.377 166° 0.98667 98679 0.98686	99486 9.99489 9.99489 9.99490 9.99492 9.99496 9.99500 9.99500 12h 11h 11m 9.99503 .99505 9.95507 9.99505 9.99507 9.99506	.95824 0.95827 .95830 .95834 .95836 0.95846 .95846 .95846 .95855 0.95858 49m 	99566 9.99568 9.99568 99569 99571 99573 99573 99576 9.99577 99578 12h 11h 15# 9.99581 99583 99584 9.99586	.99005 0.99008 0.99011 0.99014 0.99016 0.99019 0.99022 0.99025 0.99031 0.99036 4577 0.99048 0.99045 0.99045 0.99053	99638 9.99639 9.99641 9.99642 9.99644 9.99645 9.99646 9.99650 12-h 11-h 19n 9.99652 9.99654 9.99655 9.99655 9.99655 9.99657 9.99658	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 0.99189 0.99194 .99197 0.99199 41m 0.99202 .99207 .99210 0.99211 0.99212	52 48 44 40 36 32 28 24 20 16 12 8 4 56 56 52 4.8 44 40
20 24 28 32 36 40 44 48 52 56 8 12 16 20	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	99308 9.99309 9.99311 9.99312 9.99314 9.99317 9.99319 9.99320 9.99322 12h 11h 3m 9.99328 9.99328 9.99331 9.99331	.98418 0.98422 .98429 .98429 .98430 0.98436 0.98446 .98447 0.98451 .98454 0.98458 57m 165° 0.98462 .98465 .98467	$\begin{array}{c} 99400 \\ 9.99402 \\ 9.99403 \\ 99403 \\ 99406 \\ 99406 \\ 9.99406 \\ 9.99411 \\ 99412 \\ 9.99417 \\ \hline \jmath _2 h \\ \hline \\ 1/h 7m \\ \hline 9.99418 \\ 9.99418 \\ 9.99420 \\ 9.99421 \\ 9.99422 \\ 9.99422 \\ 9.99422 \\ 9.99422 \\ 9.99424 \\ 9.99422 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.99424 \\ 9.9944 \\ 9.99424 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.9944 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 \\ 9.994 $	98629 0.98632 98633 98639 98642 0.98646 98649 98652 98652 0.98665 5.3 m 0.98666 5.3 (6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	99486 9.99488 99499 99490 99492 9.99495 99496 99497 99500 12h 11h 11m 9.99503 99505 99507 9,99507	.98824 0.98830 .98830 .98834 .98837 0.98849 .98849 0.98852 0.98852 0.98858 49m 1 67° 0.98862 .98863 .98863 .98864 .98863 .98864 .98864	99566 9.99568 9.99569 99571 9.99572 99575 99576 99576 99576 99577 99578 9.99576 12h 11h 15n 99582 99583 99583 99583 99584 9.99584	.99005 0.99008 0.99011 9.99014 9.99016 0.99019 9.99022 9.99028 0.99031 0.99036 4.570 0.99039 9.99042 9.99042 9.99045 9.99045 9.99045 9.99045	99638 9.99639 9.99639 9.99642 9.99643 9.99644 9.99646 9.99649 9.99650 9.99651 12h 11h 199 9.99652 9.99657 9.99657 9.99659	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99193 0.99194 217 0.99197 0.99202 .99207 .99217 0.99217 .99217	52 48 44 40 36 32 28 24 20 16 12 8 4 4   56 56 52 48 44 40 56
20 24 28 32 36 40 44 48 52 56 8 12 16	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	99308 9.99309 9.99314 9.99317 9.99316 9.99317 9.99320 9.99322 9.99325 12h 11h 3m 9.99327 9.99323 9.99333 9.99333	.98418 0.98426 .98429 .98429 .98436 .98436 .98440 .98447 0.98451 .98454 0.98462 .98465 .98462 .98463 .98479 .98479	99400 9.99402 9.99403 9.99403 9.99406 9.99408 9.99409 9.99411 9.99417 12h 11h 7m 9.99418 9.99420 9.99424 9.99424 9.99424	98629 0.98632 98632 98642 0.98646 0.98646 0.98652 98662 0.98666 0.98666 5.377 166° 0.98667 98679 0.98686	99486 9.99489 9.99489 9.99490 9.99492 9.99496 9.99500 9.99500 12h 11h 11m 9.99503 .99505 9.95507 9.99505 9.99507 9.99506	.98824 0.98837 .98830 .98834 .98837 0.98849 .98849 0.98852 .98852 49m 0.98862 .98863 .98861 .98871 0.98864 .98871 0.98868	99566 9.99568 9.99569 99572 99573 99576 99576 99576 99576 99576 99578 9.99577 99580 12th 19581 99582 99583 99584 99583 99584 99588	.99005 0.99008 9.99014 .99016 0.99019 .99022 .99025 0.99031 .99036 4.577 0.99036 4.99036 9.99042 .99045 .99045 .99056 .99056	99638 9.99639 9.99641 9.99643 9.99644 9.99645 9.99649 9.99651 12h 11h 19h 9.99653 9.99654 9.99655 9.99657 9.99658 9.99658 9.99659 9.99669	.99171 0.99173 .99179 .99181 0.99184 .99186 .99189 .99197 0.99194	52 48 44 40 36 32 28 24 20 16 12 8 4 4   56 56 52 4,8 44 40 36 36 32 4 40 56 56 56 56 56 56 56 56 56 56 56 56 56
20 24 28 32 36 40 44 48 52 56 8 12 16 20 24 28	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	99308 9.99309 9.99319 99311 99314 9.99316 9.99317 9.99319 9.99324 11h 3m 9.99327 12h 11h 3m 9.99327 9.99333 9.99333 9.99333	.98418 0.98426 .98429 .98429 .98436 .98436 .98440 .98447 0.98451 .98454 0.98462 .98465 .98462 .98463 .98479 .98479	99400 9.99402 9.99402 9.99403 99405 99406 9.99408 99411 99412 9.99417 12h 11h 7m 9.99418 9.99420 9.99421 9.99424 9.99425 9.99425	.98629 0.98632 .98632 .98639 .98649 .98649 .98656 0.98659 .98656 0.98666 .3377 166° 0.98669 .98672 .98672 .98686 .98688	9.9486 9.99489 9.99489 9.99490 9.99492 9.99493 9.99496 9.99501 12h 11h 11n 9.99503 9.99504 9.99506 9.99507 9.99508 9.99508	.98824 0.98837 .98830 .98834 .98837 0.98849 .98849 0.98852 .98852 49m 0.98862 .98863 .98861 .98871 0.98864 .98871 0.98868	99566 9.99568 9.99569 99571 9.99572 99575 99576 99576 99576 99577 99578 9.99576 12h 11h 15n 99582 99583 99583 99583 99584 9.99584	.99005 0.99008 0.99011 9.99014 9.99016 0.99019 9.99022 9.99028 0.99031 0.99036 4.570 0.99039 9.99042 9.99042 9.99045 9.99045 9.99045 9.99045	99638 9.99639 9.99639 9.99642 9.99643 9.99644 9.99646 9.99649 9.99651 12h 11h 197 9.99652 9.99657 9.99657 9.99659	.99171 0.99173 .99176 .99179 .99181 0.99184 .99186 .99189 .99193 0.99194 217 0.99197 0.99202 .99207 .99217 0.99217 .99217	52 48 44 40 36 32 28 24 20 16 12 8 4 4   56 56 52 48 44 40 56
20 24 28 32 36 40 44 44 48 52 56 8 12 16 20 24 28 32	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	99308 9.99309 9.99319 9.99314 9.99316 9.99316 9.99326 9.99325 12.6 11.6 399327 9.99328 9.99325 9.99328 9.99338 9.99338 9.99336 9.99338 9.99338 9.99338 9.99338	.98418 0.98422 .98429 .98429 .98429 .98436 .98436 .98444 .98447 0.98451 0.98458 57m 165° 0.98462 .98472 0.98472 0.98473	99400 9.99402 9.99402 9.99403 99405 99408 99411 99412 9.99417 72h 71h 7m 9.99418 99422 9.99421 99422 9.99424 9.99429 9.99429 9.99429 9.99429	.98629 0.98632 .98633 .98639 .98642 0.98646 0.98659 .98652 0.98656 0.98666 0.98672 .98672 0.98672 0.98682 0.98689 0.98689	9.9486 9.99489 9.99489 9.99490 9.99493 9.99495 9.99496 9.99501 12h 17h 17m 9.99508 9.99504 9.99506 9.99507 9.99511 9.99512 9.99512	.98824 0.98837 .98830 .98834 .98837 0.98849 .98852 .98852 0.98852 0.98852 .98852 .98852 .98852 .98852 .98862 .98862 .98862 .98862 .98862 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .98863 .9886	99566 9.99568 9.99569 99572 99573 99576 99576 99576 99576 99576 99578 9.99577 99580 12th 19581 99582 99583 99584 99583 99584 99588	.99005 0.99008 9.99014 .99016 0.99019 .99022 .99025 0.99031 .99036 4.577 0.99036 4.99036 9.99042 .99045 .99045 .99056 .99056	99638 9.99639 9.99641 9.99643 9.99644 9.99645 9.99649 9.99651 12h 11h 19h 9.99653 9.99654 9.99655 9.99657 9.99658 9.99658 9.99659 9.99669	.99171 0.99173 .99179 .99181 0.99184 .99186 .99189 .99197 0.99194	52 48 44 40 36 32 28 24 20 16 12 8 4 4   56 56 52 4,8 44 40 36 32 32 32 4,8 4
20 24 28 32 36 40 44 48 52 56 8 12 16 20 24 28 32 36 36 36 36 36 40 41 42 43 44 44 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 51 52 53 54	99308 9.99309 99311 99312 99314 9.99316 9.99317 99319 9.99320 9.99325 12h 11h 3m 9.99327 99333 9.99331 9.99336 9.99336 9.99338 9.99338	.98418 0.98429 .98426 .98429 .98436 .98436 .98440 .98441 .98447 .98445 .5777 165° .98469 .98462 .98469 .98472 .098462 .98469 .98472 .098469	99400 9,99402 9,99402 9,99405 9,99405 9,99408 9,99419 9,99414 9,99417 1/2h 11h 7m 9,99418 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942 9,9942	98629 0.98635 .98635 .98639 .98646 .98649 .98652 .98656 0.98659 .98666 5.37m 166° 0.98669 .98679 0.98689 .98686 .98686 .98686	99486 9.99489 9.99490 9.99490 9.99493 9.99496 9.99497 9.99500 12h 12h 11h 11n 9.99503 9.99501 9.99510 9.99511 9.99512 9.99512	.98824 0.98837 .98830 .98834 .98837 0.98849 0.98849 0.98858 4.99 167° 0.98862 .98868 .98861 0.98877 0.98888 0.98888 0.98888 0.98888	99566 9.99568 9.99569 99572 99573 99575 99576 99576 99576 99576 99577 99580 12h 11h 15r 99582 99582 99582 99583 99589 99589 99589	.99005 0.99008 0.99011 9.99014 9.99019 9.99022 9.99025 9.99028 0.99031 0.99030 0.99030 9.99042 9.99042 9.99043 9.99043 9.99045 9.99045 9.99045 0.99059 0.99069	99638 9.99639 9.99641 9.99642 9.99643 9.99644 9.99646 9.99649 9.99650 1.2h 1.1h 199 9.99652 9.99653 9.99653 9.99658 9.99659 9.99659 9.99659	.99171 0.99173 .99179 .99179 .99184 .99186 .99189 0.99194 .99190 0.99199 41m 0.99202 0.99205 .99207 0.99210 0.99212 .99215 .99217 .99220 0.99220	52   48   44   40   36   32   28   24   20   16   12   8   4   40   56   52   48   44   40   40   40   56   52   48   44   49   49   49   49   49   49   49
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20 24 28 32 36 40 44 48 52 55 6 12 12 12 12 20 24 28 32 36 40 44 48 48 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49	34 35 36 37 38 39 40 41 42 43 44 41 45 46 47 48 49 51 52 53 55 56	99308 9.99309 9.99311 9.99312 9.99316 9.99316 9.99317 9.99319 9.99320 9.99327 12h 11h 3m 9.99327 9.99328 9.99331 9.99333 9.99331 9.99334 9.99339 9.99331 9.99331 9.99334	.98418 0.98426 .98426 .98426 .98429 .98436 .98436 .98444 .98444 .98447 .98458 57m 165° 0.98462 .98462 .98468 .98476 .98476 .98476 .98476 .98476 .98476 .98476 .98476 .98476	99400 9.99402 9.99403 9.99405 9.99405 9.99408 9.99411 9.99414 9.99417 12h 11h 7m 9.99418 9.99421 9.99424 9.99427 9.99427 9.99424 9.99423 9.99431 9.99433	98629 0.98635 -98639 -98639 -98646 -98652 -98656 0.98659 -98666 53m	99486 9.99489 9.99489 9.99490 9.99496 9.99496 9.99496 9.99500 12h 12h 11h 11n 9.99503 9.99506 9.99510 9.99510 9.99512 9.99516 9.99516 9.99516 9.99516 9.99516	.98824 0.98837 .98830 .98834 .98837 0.98846 .98849 0.98852 .98855 .98855 .98862 .98862 .98862 .98863 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864 .98864	99566 9.99567 99568 99569 99572 99573 99575 99576 99576 99576 99578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578 91578	.99005 0.99008 0.99011 .99014 .99019 .99025 .99025 .99026 0.99031 .99036 45m 108° 0.99037 .99045 .99045 .99059 .99059 .99059 .99059 .99065 .99059 .990665 .990667 .99067	99638 9.99639 9.99641 99642 99643 9.99644 99645 99646 99648 9.99650 9.99651 12h 11h 19 9.99652 9.99655 9.99657 99658 9.99659 9.99661 9.99663 9.99661 9.99663	.99171 0.99179 .99184 .99189 .99189 .99189 .99192 0.99199 4	52   48   44   40   36   32   28   24   20   60   56   52   48   44   40   36   32   48   44   40   36   32   48   40   40   40   40   40   40   40   40
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9.99507 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516	.98824 0.98824 0.98830 .98831 .98831 .98846 .98843 .98849 0.98852 .98855 .98855 .98865 .98865 .98867 .98867 .98867 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98878 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98876 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 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.98874 .988744 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .988744 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .988744 .98874 .98874 .98874 .98874 .98874 .98874 .98874 .988744 .988744 .98874 .98874 .98874 .98874 .988744 .98874 .98874 .98874 .98	99566 99568 99569 99577 99578 99573 99575 99576 99577 99578 12h 11h 15n 99582 99583 99584 99584 99585 99589 99593 99593 99594 99593	.99005 0.99008 0.99011 .99011 .99014 .99016 0.99019 .99025 .99025 0.99031 .99034 .59028 0.99031 .99042 .99042 .99045 .99048 0.99051 .99056 .99056 .99059 .99067 .99070 .99070	99638 9.99639 9.99639 9.99641 9.99642 9.99645 9.99645 9.99650 12h 11h 19n 9.99652 9.99653 9.99654 9.99659 9.99659 9.99659 9.99661 9.99661 9.99662 9.99664 9.99664 9.99665	99171 0.99176 99176 99179 99184 99184 99189 0.99194 0.99197 0.99197 0.99207 99207 99207 99210 0.99212 99210 0.99223 99223 99223 99223 99223	52   48   44   40   36   32   28   24   20   16   12   48   44   40   36   56   56   52   48   44   40   40   40   40   40   40   40
20 24 28 32 36 40 44 48 52 56 8 12 16 20 24 28 36 40 44 8 8 2 36 40 44 48 8 52 56 40 40 40 40 40 40 40 40 40 40 40 40 40	34 35 36 37 39 40 41 43 44 45 46 47 49 50 55 55 55 55 57 58	99308 9.99309 9.99311 99312 99314 9.99316 9.99319 9.99320 9.99320 12h 11h 3m 9.99320 9.99325 9.99325 9.99335 9.99335 9.99336 9.99337 9.99337 9.99341 9.99344 9.99345 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349 9.99349	.98418 0.98429 .98429 .98429 .98430 .98430 0.98430 .98444 .98447 0.98451 .98455 .57m 165° 0.98465 .98465 .98465 .98467 .98479 .98479 .98470 .98470 .98470 .98480 .98571 0.98501	99400 9.99403 9.99403 9.99405 9.99406 9.99408 9.99411 9.99417 9.99418 9.99417 9.99418 9.99420 9.99421 9.99427 9.99428 9.99429 9.99424 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429 9.99429	98629 0.98635 98639 98646 98646 98652 98652 98662 0.98669 98672 98672 98672 98676 98678 98678 98678 98678 98678 98678	9.9486 9.9489 9.9489 9.99490 9.99493 9.99496 9.99500 9.99500 12h 11h 11n 9.99504 9.99507 9.99504 9.99507 9.99508 9.99507 9.99508 9.99511 9.99514 9.99516 9.99516 9.99517 9.99518 9.99518 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519 9.99519	.98824 0.98834 98834 98834 99835 0.98849 9.98849 0.98859 4.9865 9.98868 4.9868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868	99566 9.99567 99568 99569 99571 99572 99576 99576 99576 99576 99576 11h 15n 99582 99583 99584 99587 99587 99581 99589 9,99580 99597 99591 99592 99594 99597 99597	.99005 0.9908 0.99011 .99014 .99016 0.99019 .99025 .99025 .99028 .99031 0.99031 0.99031 0.99042 0.99042 0.99043 0.99043 0.99045 0.99051 0.99056 0.99057 0.99065 0.99065 0.99067 0.99070 0.99076	99638 9.99639 9.99639 9.99641 9.99642 9.99643 9.99645 9.99650 9.99651 12h 11h 19n 9.99652 9.99653 9.99654 9.99656 9.99657 9.99658 9.99661 9.99666 9.99666 9.99666 9.99667 9.99667 9.99667 9.99667 9.99667 9.99667 9.99667	99171 0.99173 99179 99184 99184 99189 99189 99197 0.99194 109199 1109202 0.99205 99205 99205 99207 99212 99205 99212 99205 99213 99223 99223 99223	52   48   44   40   36   32   28   24   20   16   12   8   4   40   36   56   56   56   56   48   44   40   36   32   48   48   48   48   48   48   48   48
20 24 28 32 36 40 44 48 55 56 8 12 16 20 24 28 32 36 40 44 44 48 48 48 48 48 49 40 44 44 44 44 44 44 44 44 44 44 44 44	34 35 36 37 38 39 40 41 42 43 44 47 48 49 55 55 55 55 55 55 55 56	99308 9.99309 9.99311 99312 99314 9.99316 9.99317 99319 99322 9.99324 11h 3m 9.99327 12h 11h 3m 9.99323 9.99333 9.99333 9.99333 9.99338 9.99338 9.99339 9.99341 9.99345 9.99347 9.99349 9.99349	.98418 0.98426 9.98426 9.98430 0.98430 0.98430 0.98431 9.98444 9.98451 0.98454 0.98456 0.98462 9.98462 9.98462 9.98462 9.98462 9.98462 9.98462 9.98463 9.98462 0.98463 0.98463 0.98463 0.98464 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463 0.98463	99400 9.99403 9.99403 9.99403 9.99405 9.99408 9.99409 9.99411 9.99417 9.99418 9.99419 9.99417 9.99418 9.99420 9.99421 9.99429 9.99424 9.99429 9.99424 9.99429 9.99437 9.9438 9.99438	98629 0.98632 98635 98649 98646 98652 98652 98662 0.98659 98662 0.98663 39672 98672 0.98669 98672 0.98696 98679 0.98696 98679 0.98696 98679 0.98696 98679 0.98696 98679 0.98696 98679 0.98696 98679 0.98696 0.98792 0.98792 0.98792 0.98792 0.98792 0.98792	9.9486 9.9489 9.9489 9.99490 9.99493 9.99496 9.99496 9.99500 9.99500 12h 11h 11n 9.99503 9.99505 9.99504 9.99506 9.99506 9.99507 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516 9.99516	.98824 0.98834 98834 98834 99835 0.98849 9.98849 0.98859 4.9865 9.98868 4.9868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868 9.98868	99566 99568 99569 99577 99578 99573 99575 99576 99577 99578 12h 11h 15n 99582 99583 99584 99584 99585 99589 99593 99593 99594 99593	.99005 0.9908 0.99011 .99014 .99016 0.99019 .99025 .99025 .99028 .99031 0.99031 0.99031 0.99042 0.99042 0.99043 0.99043 0.99045 0.99051 0.99056 0.99057 0.99065 0.99065 0.99067 0.99070 0.99076	99638 9.99639 9.99639 9.99641 9.99642 9.99643 9.99645 9.99650 9.99651 12h 11h 19n 9.99652 9.99653 9.99654 9.99656 9.99657 9.99658 9.99661 9.99666 9.99666 9.99666 9.99667 9.99667 9.99667 9.99667 9.99667 9.99667 9.99667	99171 0.99176 99176 99179 99184 99184 99189 0.99194 0.99197 0.99197 0.99207 99207 99207 99210 0.99212 99210 0.99223 99223 99223 99223 99223	52   48   44   40   36   32   28   24   20   16   12   48   44   40   36   56   56   52   48   44   40   40   40   40   40   40   40

Page 920]

# TABLE 45.

		11h cm	170 '	114	171-	11h 25m	1723	11h 3.m	1730	111.000	174	
}		Las He	1711	1 oz [11 e]	NEED IN	Log. Hay	Not Have	Log. Hay.	Nat. H v	Los. Hav.	Nat. Ho	s
1	0	9 996 9	0.99240		0.99354	9.99755	0.99513	9.99835	0.99627	9.99881	0.99726	60
		99670	.99213	997.33	.99357	99789	.99515	99539	.99629	99882	.99725	56
1 '	1					599790		99839	.99631	.99882		
1 .	.5	99671	.99245	997.11	.99359		.99517				.99729	52
1	3	9967	.99248	99735	,99391	.99791	.99519	99840	.99633	99883	.99731	48
10	1	9.99673	0.99250	9 997.36	9,99393	9.99792	0.99521	0.09841	0.99634	9.99884	0.99732	44.
		99674	.99253	997.17	.99396	.99793	.99523	.56842	. 39636	.99854	.99734	411
	45	99675	,99255	997.35	.99395	99793	.99525	99842	.99638	.99885	.99735	86
1 .	7	99677	.99258	5997039	.99400	.99794	,99527	99843	.99640	.99885	.99737	33
1	4	9.996.7%	0.99260	9.99740	0.99402	9.99795	0.99529	9 99814	0.99641	9.99556	0.99735	28
1	9	9967.1	.99263	99741	.99105	99796	.99531	99845	.99643	99887	.99740	24
1	10	990.80	.99263	99712	.99107	99797	.99533	908 15	.99645	99557	.99741	20
	31	99.8	,99268	597.13	.99409	39798	,99535	99846	.99617	1111	.99713	16
1				9 997 11		9 99799		9 998 17		9,99559		
	32	9.9 16.82	0.99270		0,99411		0.99537		0.99615		0.99744	12
	3:3	10083	.99273	3007.15	.99311	99500	.99539	.99848	.99650	.99589	.99746	-8
	1.5	9.99684	0.99275	9 99746	0.99116	9,99800	0.99541	0.00848	0.99652	9,99890	0.99747	4
ĺ		1.7	. 1	1.11		1.4	7.9	12h	770	12h	1.9m	l
	-,	11h :1n	170	114 .00	171	111 911	172	1143m	173	11h 37m	173°	S
- ,,	15	9 99685	0.99275	9 997 17	0.99315	9.99801	0.99543	9 99849		9.99891	0.99745	GU
1 "	16	39686	.99240	99748	.99420	.99802	,99515	.99850				
1									.99655	.99891	.99750	56
	17	,99687	.99253	99748	.99423	99803	.99517	.99851	.99657	.99892	.99751	52
1.1	15	9911.88	.99285	99749	.99425	99803	.99549	.99851	.99659	.99893	.99753	48
7.0	39	9-99596	0.99255	9.99750	0.99427	9.99805	0.99551	9,99852	0.99660	9,99893	0.99754	44
	50	99631	.99290	995561	.99129	.99805	.99553	.99853	.99662	.99894	.99756	40
1	24	99692	.99293	99752	.99431	.99806	.99555	.(9)+85-1	.99661	.99894	.99757	36
1	.3.3	29693	.99295	99753	.99433	.99807	.99557	,99854	.99665	.99895	.99759	32
1	23	9.99694	0.99297	9-99754	0.99436	9,99808	0.99559	9 90855	0.99667	9,99896	0.99760	28
1	21	99695	.99300	99755	.99438	.99809	.99561	.998541	.99669	.99896	.99761	24
1	2.5	956566	.99303	99756	.99140	.99810	.99563	.99857	.99670	.99897	.99763	20
1 40	26	99697	.99305	99757	.99442	.99811	.99565	.99857	.99672	.99897	.99674	16
1	27	9.99695	0.99307	9.99758	0.99444	9.99811	0.99567	9 99858	0.99674	9.99898	0.99766	12
1 .	25	99599	.99309	99759	.99146	99812	.99568	99859	.99675	99899	.99767	8
36	29	9.99700	0.99312	9.99760	0,99119	9 99813	0.99570	9 99859	0.99677	9.99599	0.99768	4
	4.17	1 . h	18	1 h	93		3um	1.4	14.77		) m	7
I			40.								4 1	_
4		11# 2m	170-	114 26	171	11h Sum	1722	11h 5 pm	1733	11h 38m	174°	8
4 //	30	9 99701	0.99314	9 99761	0.99451	9,99811	0,99573	9 99860	0.99679	9,99900	0.99770	60
1	30 33	9 99701 ^{**} .99702	_	9 99761 99762		9,99811 ,99815		1 -				-
11	30 31 32	9 9970] ^{**} - 39702 - 99703	0,99314 ,99317 ,99319	9 99761 99762 99763	0,99451 ,99453 ,99455	9,99811 -,99815 -99815	0,99572 ,99574 ,99576	9 99860 .99861 99862	0.99679 .99680 .99682	9,99900 .99901 .99901	0.99770 .99771 .99773	60
, , 1	30 31 32 33	9 99701 ^{**} - 39702 - 99703 - 39703	0,99314 .99317	9 99761 99762	0.99451 .99453	9,99811 ,99815	0,99572 ,99574	9 99860 .99861	0.99679	9,99900 ,99901	0.99770	60 56
1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	30 31 32 33 34	9 9970] ^{**} - 39702 - 99703	0,99314 ,99317 ,99319	9 99761 99762 99763	0,99451 ,99453 ,99455	9,99811 -,99815 -99815	0,99572 ,99574 ,99576	9 99860 .99861 99862	0.99679 .99680 .99682	9,99900 .99901 .99901	0.99770 .99771 .99773	60 56 52
, , 1	30 31 32 33	9 99701 ^{**} - 39702 - 99703 - 39703	0.99314 .99317 .99319 .99321	9 99761 99762 99763 99763	0,99451 ,99453 ,99455 ,99457	9,99815 -99815 -99816	0,99573 ,99574 ,99576 ,99578	9 99860 .99861 99862 .99862	0.99679 .99680 .99682 .99684	9,99900 .99901 .99902	0.99770 .99771 .99773 .99774	60 56 52 48
1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	30 31 32 33 34	9 99701 -,99702 - 99703 - 99704 9 99705	0.99314 .99317 .99319 .99324 0.99321	9 99761 99762 99763 99763 9 99765	0,99451 ,99453 ,99455 ,99457 0,99459	9,99811 ,99815 99815 99816 9,99817	0,99572 ,99574 ,99576 ,99578 0,99580	9 99860 .99861 99862 .99862 9 99863	0.99679 .99680 .99682 .99684 0.99685	9,99900 .99901 .99902 .99902	0.99770 .99771 .99773 .99774 0.99775	56 52 48 44
1 1 16 20	30 31 32 33 34 35	9 99701 - ,99702 - 99703 - 99704 - 99705 - ,99706	0,99314 ,99317 ,99319 ,99324 0,99321 ,99326	9 99761 99762 99763 99763 9 99765 99766	0,99451 ,99453 ,99455 ,99457 0,99459 ,99464	9,99815 99815 99816 99816 9,99817 99818 ,99819	0,99572 ,99574 ,99576 ,99578 0,99580 ,99582 ,99584	9 99860 .99861 99862 .99862 9 99863 99864	0.99679 .99680 .99682 .99684 0.99685 .99687	9,99900 .99901 .99902 .99902 9,99902 .99903	0.99770 .99771 .99773 .99774 0.99775 .99777	56 52 48 44 40 86
1 1 16 20	30 31 32 33 34 35 36	9 99701 - 99702 - 99703 - 99704 - 99705 - 99706 - 99707	0.99314 .99317 .99319 .99324 0.99321 .99326 .99329	9 99761 99762 99763 99763 9 99765 99766	0,99451 ,99453 ,99455 ,99457 0,99459 ,99464 ,99464	9,99815 99815 99816 99816 9,99817 99818 ,99819 99820	0,99572 ,99574 ,99576 ,99578 0,99580 ,99582 ,99584 ,99585	9 99860 .99861 99862 .99862 9 99863 99864 99864 99864	0.99679 .99680 .99682 .99684 0.99685 .99687 .99688	9,99900 .99901 .99902 .99902 .99903 .99904 .99904	0.99770 .99771 .99773 .99774 0.99775 .99777 .99778	56 52 48 44 40 86 82
1 1 16 20	30 31 32 33 34 35 36 37	9 99701 - 99702 - 99703 - 99704 - 99705 - 99706 - 99707 - 99708	0.99314 .99317 .99319 .99324 0.99321 .99326 .99329	9 99761 99762 99763 99763 9 99765 99766 99766	0.99451 .99453 .99455 .99457 0.99459 .99464 .99466 0.99468	9,99×11 ,99×15 ,99×16 ,99×16 ,99×17 ,99×18 ,99×19 ,99×20 ,9,99×20	0.99572 .99574 .99576 .99578 0.99580 .99582 .99584 .99583 0.99587	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866	0.99679 ,99680 ,99682 ,99684 0.99685 ,99687 ,99688 ,99690 0,99692	9,99900 .99901 .99902 .99902 .99903 .99904 .99904	0.99770 .99771 .99773 .99774 0.99775 .99777 .99775 .99780 0.99781	60 56 58 44 40 83 28
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38	9 9970] 99702 99703 99704 99705 99706 99708 9 99710 99711	0,99314 .99317 .99319 .99324 0,99324 .99326 .99329 .99334 0,99333	9 99761 99762 99763 99763 99765 99766 99766 99768 99768	0.99451 .99453 .99455 .99457 0.99459 .99464 .99466 0.99468 .99170	9,99811 99815 99816 99816 9,99817 99818 99819 99820 9,99820 99821	0.99572 .99574 .99576 .99578 0.99580 .99582 .99584 .99585 0.99587	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866 99867	0.99679 .99680 .99682 .99684 0.99685 .99687 .99688 .99690 0.99692 .99693	9,99900 99901 99901 99902 9,9902 99903 99904 99904 9,9905 50905	0.99770 .99771 .99773 .99774 0.99775 .99777 .99778 .99780 0.99781	60 56 58 44 40 83 83 44 83 83 44
1 1 16 20 20 20 20 20 20 20 20 20 20 20 20 20	30 31 32 33 34 35 36 37 38 39	9 99701 99702 99703 99701 9 99705 99706 99708 9 99710 99711 99711	0,99314 ,99317 ,99319 ,99321 0,99321 ,99326 ,99334 0,99333 ,99336 ,99338	9 99761 99762 99763 99763 99763 99766 99766 99766 99768 99768	0,99451 ,99453 ,99455 ,99457 0,99459 ,99464 ,99466 0,99468 ,99170 ,99472	9,99811 99815 99816 99816 9,99817 99818 99829 9,99820 9,99821 99821 99822	0,99572 .99574 .99576 .99578 0,99580 .99582 .99584 0,99587 0,99589	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866 99867	0.99679 .99680 .99682 .99684 0.99685 .99687 .99689 0.99690 0.99693	9,99900 99901 99901 99902 9,9902 99903 59904 9,9905 9,9905	0.99770 .99771 .99773 .99774 0.99775 .99777 .99778 0.99781 .99782	60 56 58 44 49 88 24 20 24 20
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40	9 99701 99702 99703 99704 9 99705 99706 99707 99710 99711 99712 99713	0,99314 .99317 .99319 .99321 0,99321 .99326 .99336 0,99333 .99336 .99338 .99310	9 99761 99762 99763 99763 99765 99766 99766 99768 99768 99770 99771	0,99451 ,99453 ,99455 ,99457 0,99459 ,99464 ,99466 0,99468 ,99470 ,99472	9,99815 99815 99816 99816 9,99817 99818 ,99819 9,99820 9,99821 199823	0,99572 .99574 .99576 .99578 0,99580 .99582 .99584 .99585 0,99587 .99589 .99591	9 99860 99861 99862 99862 9 99863 99864 99864 9 99867 99867 99868	0.99679 .99680 .99682 .99684 0.99685 .99687 .99690 0.99692 .99693 .99693	9,99900 ,99901 ,99902 ,99902 ,99903 ,99903 ,99904 ,99905 ,99905 ,99906	0.99770 .99771 .99773 .99774 0.99775 .99777 .99780 0.99781 .99782 .99784	60 56 58 44 40 86 82 24 20 16
1 1 16 20 20 20 20 20 20 20 20 20 20 20 20 20	30 31 32 33 34 35 36 37 38 39 40 11	9 99701 99702 99703 99705 9 99706 99706 99708 9 99710 99711 99712 99713	0,99314 .99317 .99319 .99324 0,99326 .99326 .99334 0,99333 .99336 .99310 0,99313	9 99761 99762 99763 99763 99763 99766 99766 99766 99768 99769 99771 9 99772	0.99451 .99453 .99455 .99457 0.99464 .99164 .99166 0.99468 .99170 .99472 .99472	9,99811 ,99815 ,99816 ,9,99817 ,99818 ,99819 ,99820 ,9,99821 ,99823 ,99823 ,99823	0,99572 ,99574 ,99576 ,99576 0,99580 ,99582 ,99584 ,99585 0,99587 ,99589 ,99593 0,99593	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866 99867 99868 9,9869	0.99679 .99680 .99682 .99684 0.99685 .99687 .99688 .99690 0.99692 .99693 .99695	9,99900 ,99901 ,99901 ,99902 9,99903 ,99904 ,99904 ,99905 ,99906 ,99906 9,99906	0.99770 .99771 .99773 .99773 .99775 .99775 .99778 .99780 0.99781 .99782 .99784	60 56 52 48 44 40 86 82 24 20 16 12
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12	9 99701 99702 99703 99704 9 99706 99706 99708 9 99710 99711 99713 9 99713 9 99713	0,99314 ,99317 ,99319 ,99324 0,99324 ,99326 ,99329 ,99333 ,99336 ,99310 0,99313	9 99761 99762 99763 99763 99763 99766 99766 99766 99768 99769 99771 9 99771 9 99772	0,99451 ,99453 ,99455 ,99457 0,99464 ,99464 ,99468 ,99470 ,99472 ,99471 0,99476 ,99473	9,99811 ,99815 ,99816 ,99817 ,99818 ,99819 ,99820 ,99820 ,99821 ,99823 ,99823 ,99823 ,99824	0,99572 ,99574 ,99576 ,99578 0,99580 ,99584 ,99584 ,99587 ,99589 ,99593 0,99593 0,99593	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866 99867 99867 99868 9,9869	0.99679 .99680 .99682 .99684 0.99685 .99687 .99690 0.99692 .99693 .99695 .99696 0.99698	9,99900 99901 99901 99902 9,9903 99903 99904 9,9905 9,9905 9,9906 9,9906 9,9906	0.99770 .99771 .99773 .99774 0.99775 .99776 .99780 0.99781 .99782 .99784 0.99784	60 56 52 48 44 40 36 32 23 20 16 12 8
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11	9 99701 99702 99703 99705 99706 99707 99710 99711 99712 99713 9 99715 9 99715	0,99314 .99317 .99319 .99321 0,99326 .99329 .99334 0,99333 .99316 0,99313 .99316 0,99317	9 99761 99762 99763 99763 9 99765 99766 99766 99768 99769 99770 99771 9 99772 99773	0.99451 .99453 .99455 .99457 0.99464 .99164 .99166 0.99468 .99170 .99472 .99472	9,99811 99815 99815 99816 9,99817 99818 ,99819 9,99820 9,99821 99823 9,99824 9,9824 9,9824 9,9824	0.99572 .99574 .99576 .99576 0.99580 .99582 .99584 .99585 0.99587 .99589 .99594 .99593 0.99597	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99867 99867 99868 9 99869 9 99870	0.99679 .99680 .99682 .99684 0.99685 .99687 .99680 0.99692 .99693 .99695 .99696 0.99698 .99700	9,99900 99901 99901 99902 9,9903 99903 99904 9,9905 9,9905 9,9906 9,9906 9,9907	0.99770 .99771 .99773 .99774 0.99775 .99777 .99778 .99781 .99782 .99784 .99785 0.99788	60 56 52 48 44 40 86 82 24 20 16 12
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12	9 99701 99702 99703 99704 9 99706 99706 99708 9 99710 99711 99713 9 99713 9 99713	0,99314 ,99317 ,99319 ,99324 0,99324 ,99326 ,99334 0,99333 ,99340 0,99313 ,99310 0,99313	9 99761 99762 99763 99763 99763 99766 99766 99766 99768 99769 99771 9 99771 9 99772	0,99451 ,99453 ,99455 ,99457 0,99464 ,99464 ,99468 ,99470 ,99472 ,99471 0,99476 ,99473	9,99811 ,99815 ,99816 ,99817 ,99818 ,99819 ,99820 ,99820 ,99821 ,99823 ,99823 ,99823 ,99824	0,99572 ,99574 ,99576 ,99578 0,99580 ,99584 ,99584 ,99587 ,99589 ,99593 0,99593 0,99593	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99866 99867 99867 99868 9,9869	0.99679 .99680 .99682 .99684 0.99685 .99687 .99690 0.99692 .99693 .99695 .99696 0.99698	9,99900 99901 99901 99902 9,9903 99903 99904 9,9905 9,9905 9,9906 9,9906 9,9907	0.99770 .99771 .99773 .99774 0.99775 .99776 .99780 0.99781 .99782 .99784 0.99784	60 56 52 48 44 40 36 32 23 20 16 12 8
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12	9 99701 99702 99703 99705 99706 99707 99710 99711 99712 99713 9 99715 9 99715	0,99314 .99317 .99319 .99321 0,99326 .99329 .99334 0,99333 .99316 0,99313 .99316 0,99317	9 99761 99762 99763 99763 9 99765 99766 99766 99768 99769 99770 99771 9 99772 99773	0,99451 ,99453 ,99455 ,99457 0,99464 ,99464 ,99468 ,99470 ,99472 ,99471 0,99476 ,99473	9,99811 99815 99815 99816 9,99817 99818 ,99819 9,99820 9,99821 99823 9,99824 9,9824 9,9824 9,9824	0.99572 .99574 .99576 .99576 0.99580 .99582 .99584 .99585 0.99587 .99589 .99594 .99593 0.99597	9 99860 99861 99862 99862 9 99863 99864 99864 99865 9 99867 99867 99868 9 99869 9 99870	0.99679 .99680 .99682 .99684 0.99685 .99687 .99680 0.99692 .99693 .99695 .99696 0.99698 .99700	9,99900 99901 99901 99902 9,9903 99903 99904 9,9905 9,9905 9,9906 9,9906 9,9907	0.99770 .99771 .99773 .99774 0.99775 .99777 .99778 .99781 .99782 .99784 .99785 0.99788	60 56 52 48 44 40 36 32 23 24 20 16 12 8
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12	9 99701 99702 99703 99704 9 99705 99706 99707 99710 99711 99712 99713 99713 99715 99716	0,99314 ,99317 ,99319 ,99324 0,99324 ,99326 ,99334 0,99333 ,99340 0,99313 ,99310 0,99313	9 99761 99762 99763 99763 99765 99766 99766 99767 9 9976 99770 99771 9 99771 9 99773 9 99771 1 h	0,99451 .99453 .99455 .99457 0,99459 .99464 .99466 0,99468 .99471 0,99471 0,99471 0,99474	9,99811 99815 99816 99816 9,99817 98818 9,9819 98821 9,9829 99821 9,9824 9,9824 1,9824 1,9824 1,9824 1,1844	0,99572 .99574 .99576 .99578 0,99580 .99582 .99587 0,99587 .99589 .99593 0,99593 0,99595 .99597	9 99860 99862 99862 99862 9 99863 99864 99864 99866 99867 99867 99868 9,99869 99869 9869 9869 17,6	0.99679 99680 1.99682 0.99682 0.99687 0.99687 1.99680 0.99692 1.99690 0.99693 1.99696 0.99698 1.99701 45m	9,99900 99901 99901 99902 9,9903 9,9903 9,9904 9,9905 9,9906 9,9906 9,9906 9,9908 12h	0.99770 .99771 .99773 .99773 0.99775 .99777 .99780 0.99781 .99782 0.99784 .99785 0.99786 .99786	60 56 52 48 44 40 86 82 24 20 16 12 8
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12	9 99701 99702 99703 99704 9 99705 99706 99707 99710 99711 99712 99713 9 99714 1 0	0,99314 ,99317 ,99319 ,99324 0,99321 ,99326 ,99333 ,99336 ,99310 0,99313 ,99317	9 99761 99762 99763 99763 99763 99766 99766 99767 99771 99771 99771 99771 1 h	0,99451 ,99453 ,99455 ,99465 ,99464 ,99464 ,99468 ,99472 ,99472 ,99474 0,99474 0,99474 0,99474	9,99811 99815 99816 99816 9,99817 99819 99820 9,99820 9,9821 99823 9,98824 9,98824 1,98824 9,98825	0,99572 ,99574 ,99576 ,99576 0,99580 ,99582 ,99584 ,99586 ,99587 ,99589 ,99591 ,99597 0,99597 0,99598	9 99860 99861 99862 99862 9 99863 9 99864 99864 99867 99867 99869 9 99869 9 99869 17h 7	0.99679 .99680 .99682 .99684 0.99685 .99685 .99690 0.99692 .99693 .99695 .99700 0.99701 4577 0.99703	9,99900 99901 99901 99902 9,9902 9,9903 9,9904 9,9905 9,9905 9,9906 9,9905 9,9908 1,24	0.99770 .99771 .99773 .99774 0.99775 .99775 .99770 0.99781 .99782 .99784 0.99784 0.99788 0.99788	60 56 58 44 40 86 82 24 20 16 12 8
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 31 32 33 34 35 36 37 38 39 40 11 12 41	9 99701 99702 99703 99703 99705 99705 99707 99708 9 99710 99713 99714 99715 9 99714 1 h	0,99314 ,99317 ,99319 ,99324 0,99324 0,99326 ,99336 ,99338 ,99310 0,99313 ,99317 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9 99761 99762 99763 99763 99764 9 99766 99766 99767 99770 99771 9 99772 9 99773 9 99771 1 h	0,99451 .99453 .99457 0,99457 0,99461 .99464 .99466 0,99468 0,99472 .99472 .99472 0,99473 0,99473 0,99470	9,99811 99815 99815 99816 9,99817 99818 99829 9,99820 9,99821 19822 99823 9,99821 116.46 9,99826 17 17 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826 9,99826	0,99572 .99574 .99576 .99578 0,99580 0,99582 .99587 .99587 .99587 .99591 .99591 .99597 0,99598 .7970 .99598 .7970 .99598 .7970 .99598 .7970 .99598 .7970 .99598 .7970 .99598 .7970 .99598 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .7970 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .9959 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .9	9 99860 99861 99862 9 99862 9 99863 99864 99866 99866 99866 99869 9 99869 9 99870 12 h 5m 9 98870 9 98871 19871 9 98871	0.99679 .99680 .99684 0.99685 .99687 .99698 .99690 0.99692 .99696 0.99696 0.99696 197700 0.99701	9,99900 99901 99901 99902 9,9902 9,9903 9,9904 9,9905 6,9905 9,9906 9,9908 7,2h 11h,3pm 9,9908 9,9908	0.99770 .99771 .99773 .99774 0.99775 .99776 .99781 .99782 .99784 .99784 0.99786 0.99786 0.99786 .99786 0.99786	60 56 52 48 44 40 86 82 28 24 20 16 12 8 4
1 ' 16 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 20 ' 2	30 33 32 33 34 35 36 37 38 39 40 11 12 43 44	9 99701 99702 99703 99704 9 99705 99706 99707 99718 99711 99714 99714 99714 1 99716 1 1 99716 1 1 99718	0,99314 .99317 .99319 .99321 .99329 .99329 .99329 .99336 .99336 .99315 .99317 ~99317 ~99350 .99350 .99350	9 99761 99762 99763 99763 99763 99766 99766 99767 99771 99771 99771 99771 1 h	0,99451 .99453 .99457 0,99457 0,99464 .99464 .99466 0,99468 .99472 .99472 .99474 0,99478 0,99480 .99480 171 0,99483 .99483	9,99811 99815 99815 99816 9,98817 99818 99820 9,9821 99822 94823 9,9824 9,9824 9,9824 1,98824 1,98824 1,98824 1,98824	0,9957? .99574 .99574 .99578 .99580 .99580 .99584 .99585 0,99581 .99589 .99594 .99595 .99597 .99598 .99597 .99598 .99598	9 99860 99861 99862 99862 9 99863 99864 99864 9 99866 9 99867 99869 99869 99869 9 99860 17h5m 9 99871 99871	0.99679 .99680 .99684 .99684 .99685 .99685 .99688 .99690 0.99692 .99693 .99695 .99700 0.99701 25m 173 0.99703	9,99900 ,99901 ,99902 9,99902 9,99903 ,99904 ,99904 9,99905 ,99906 9,99908 12h 11h 39m 9,99909 ,99909 ,99909	0.99770 .99771 .99773 .99773 .99774 .99775 .99778 .99780 .99781 .99785 0.99786 .99786 .99786 .99786 .99786 .99786 .99786 .99786 .99786 .99786 .99796 .99796	60 56 58 48 44 40 36 82 27 20 11 28 4 8 6 56 57 57
1 16 20 24 24 24 24 24 24 24 24 24 24 24 24 24	30 31 32 33 34 35 36 37 38 39 40 11 12 41 41	9 99701 99702 99703 99703 9 99705 99707 99707 99711 99711 99713 99716 1 4 1 4 1 4 1 5 1 6 1 7 1 7 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	0,99314 ,99317 ,99319 ,99329 ,99329 ,99329 ,99329 ,99336 ,99310 0,99313 ,99310 0,99317 70 0,99317 70 0,99317 70 0,99350 ,99350 ,99350 ,99350 ,99350	9 99761 99762 99763 99763 99763 99766 99766 99767 99777 9 99777 9 99772 9 99771 1 h 9 99771 1 h	0,99451 .99453 .99457 .99457 0,99459 .99464 .99468 .99470 .99471 0,99471 0,99480 .99471 0,99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .994	9,99811 99815 99816 99816 99818 99819 99820 90820 90822 99823 99823 10829 99825 11h. III	0,9957? .99574 .99574 .99578 .99580 .99580 .99584 .99585 .99584 .99585 .99587 .99588 .99593 .99593 .99593 .99594 .99596 .99596 .99600 .99600 .99601	9 99860 99861 99862 99862 9 99863 9 99863 99865 9 99865 9 99867 99867 99869 9 99870 17h5m 9 99871 99871 99871 99872	0.99679 .99680 .99684 0.99687 .99687 .99687 .99688 .99690 .99693 .99696 0.99698 .99701 173 0.99703	9,99900 ,99901 ,99901 ,99902 ,99903 ,99903 ,99904 ,99905 ,99906 ,99908 ,99908 ,728 ,99908 ,99909 ,99909 ,99909 ,99909 ,99909 ,99910 ,99910	0.99770 .99771 .99773 .99774 0.99775 .99776 .99780 .99781 .99780 0.99786 0.99786 0.99789 171 0.99790 .99792	60 56 58 44 40 36 82 28 21 10 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 31 32 33 34 35 36 37 38 39 40 41 41 41 41 41	9 99701 99702 99703 99703 99704 9 99705 99707 99711 99711 99713 9 99714 99716 1 9 99 1 9 99 1 9 99 1 9 99 1 9 99 1 9 99 1 9 99 1 9 99 1 9 99 1	0,99314 .99317 .99319 .99321 .99321 .99329 .99333 .99334 .99313 .99317 .70 .99319 .99319 .99319 .99319 .99359 .99359 .99359	9 99761 99762 99763 99763 99766 99766 99766 99770 99770 99771 1 99773 9 9777 1 7 h	0,99451 .99453 .99457 0,99457 0,99464 .99464 .99472 .99472 .99472 0,99478 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99480 0,99	9,99811 99815 99816 99816 99816 99818 99819 99820 99821 94823 94823 94823 94823 94823 94823 94823 94823 94823 94823 94824 94824 94826 94826 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 94828 9482	0,9957? .99574 .99574 .99578 .99580 .99584 .99582 .99584 .99585 .99591 .99595 .99597 .99597 .995960 .99598	9 99860 99861 99862 99862 9 99863 9 99863 99866 9 99866 99867 99867 99869 99869 9 99869 17hm 9 99871 99871 99872 39873	0.99679 .99680 .99684 .99684 0.99685 .99698 .99690 .99690 .99690 .99700 173 0.99701 .99706 .99706 0.99706	9,99900 ,99901 ,99902 9,9902 9,9903 ,99903 ,99905 ,99905 ,99906 ,99906 ,99908 ,12h 17h, 39m 9,9909 ,99909 ,99909 ,99909 ,99910 ,99910 ,99911 9,99911	0.99770 .99771 .99771 .99773 .99774 0.99775 .99777 .99778 .99781 .99783 0.99786 .99780 0.99786 .99789 .99789 .99789 .99789	56 52 48 44 40 66 82 22 4 20 16 12 8 4 6 6 5 5 2 44 44
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 31 32 33 34 35 36 37 38 39 40 11 12 43 44	9 99701 99702 99703 99703 99704 9 99706 99707 99711 99711 99715 9 99716 1 9 99715 1 9 99716 1 9 99716 9 99716 9 99716 9 99716 9 99716 9 99716 9 99716 9 99718 9 99718 9 99718	0,99314 .99317 .99319 .99324 0,99321 0,99321 0,99333 0,99336 0,99315 0,99317 70 0,99350 0,99350 0,99350 0,99350 0,99350 0,99350 0,99350 0,99350	9 99761 99762 99763 99763 99764 9 99765 99766 99769 99771 9 99771 9 99772 9 99771 1 h 1 h 2 99773 9 99771 9 99773 9 99773 9 99773 9 99773 9 99773 9 99773 9 99773 9 99773	0,99451 .99453 .99455 .99457 0,99459 .99464 .99468 .99468 .99472 .99471 0,99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480	9,99811 99815 99815 99816 9,99817 99820 9,99820 9,98820 9,98821 99823 9,98824 1,98824 9,98825 11h.,ps	0.9957? .99574 .99576 .99578 0.99580 0.99580 .99584 .99585 0.99587 0.99589 .99595 0.99595 0.99596 .99596 0.99600 .99600 0.99606 0.99606	9 99860 99861 99862 99862 9 99863 99864 99866 99867 99867 99869 9 99869 9 99870 77h 59871 99871 99871 99871 99873 99873	0.99679 .99680 .99684 .99684 .99687 .99687 .99689 .99693 .99693 .99696 .99701 133 0.99703 .99704 .99704 .99704	9,99900 ,99901 ,99902 9,9902 9,9903 ,99903 ,99905 ,99906 ,99906 9,99908 9,99908 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99909 10,99	0.99770 .99771 .99771 .99774 0.99775 .99777 .99778 .99780 0.99781 .99785 0.99786 0.99789 1711 0.99790 0.99792 .99792 .99792	60 56 52 48 44 40 86 82 28 27 20 16 12 8 4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 31 32 33 34 35 36 37 38 39 40 11 12 43 44 15 16 17 18 19 50 50 50 50 50 50 50 50 50 50 50 50 50	9 99701 99702 99703 99704 9 99705 9 99706 99707 99711 99711 99711 9 99716 11 9 99716 11 9 99716 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0,99314 ,99317 ,99319 ,99324 0,99324 ,99326 ,99329 ,99333 ,99310 0,99313 ,99317 70 0,99317 70 0,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,9935	9 90761 90762 90763 90763 90764 9 90766 90766 90767 9 90770 90771 90771 90773 9 90771 1 10 90773 9 90773 9 90773 9 90773 9 90773 9 90773 9 90773 9 90773 9 90773	0.99451 .99453 .99457 .99457 0.99457 .99461 .99464 .99472 .99472 .99472 .99473 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948 0.9948	9,99811 99815 99816 99816 99818 99818 99820 99820 99822 94823 99824 99825 1 11h. III	0,9957? .99574 .99574 .99578 0,99578 0,99582 .99584 .99584 .99587 .99589 .99597 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599	9 99860 99861 99862 9 99863 9 99863 9 99863 99867 99867 99867 99869 99869 9 99870 17h.5m 4 99871 59872 99873 99874 99874	0.99679 .99680 .99682 .99684 0.99685 .99687 .99688 .99692 .99693 .99696 0.99694 .173 0.99704 .99706 0.99706 0.99706 0.99707	9,99900 ,99901 ,99901 ,99902 ,99903 ,99903 ,99905 ,99906 ,99906 ,99908 ,99908 ,99909 ,99909 ,99910 ,99910 ,99911 ,99911 ,99912	0.99770 .99771 .99771 .99774 0.99775 .99777 .99778 .99781 .99781 .99785 .99780 .99789 .99789 .99789 .99799 .99799 .99799	56 52 48 44 40 36 36 22 20 16 12 8 4 60 56 52 48 44 40 56 56 56 56 56 56 56 56 56 56 56 56 56
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,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99350 ,99	9 99761 99762 99763 99763 99766 99766 99766 99767 99770 99771 9 99773 9 99773 9 99773 9 99774 9 99774 9 99775 9 99775 9 99775 9 99775 9 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,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317 ,99317	9 90761 90762 90763 90763 90765 90766 90766 90766 90767 90770 90771 90773 90773 90774 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90774 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 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.99574 .99574 .99575 .99578 0,99578 0,99582 .99584 .99587 .99589 .99597 .99599 .99597 0,99598 .99599 0,99600 .99600 .99600 .99600 .99601 .99613 .99613 .99617 .99613	9 99860 99862 99862 9 99863 9 99863 9 99863 9 99866 9 99867 99867 99867 99869 9 99870 17h.5m 19871 99871 99873 99874 99874 99874 99874 99874 99874 99874 99874 99874	0.99679 .99680 .99682 .99684 0.99685 .99687 .99688 .99693 .99693 .99693 .99696 0.99701 2,777 173 0.99704 2,977 0.99704 .99714 .99714 0.99715 .99717 .99719	9,99900 ,99901 ,99902 9,99002 9,99003 ,99904 9,99005 ,99906 ,99906 ,99908 ,99908 12h 11h ,89m 12h 19911 9,9911 9,9911 9,9911 9,9913 9,9913 9,9914 ,99914 ,99915 ,99915 ,99916	0.99770 .99771 .99771 .99773 .99774 0.99775 .99777 .99778 .99781 .99781 .99785 .99780 .99781 0.99790 .99792 .99793 .99793 .99793 .99797 .99799 .99799 .99799 .99799 .99799 .99799 .99799 .99799 .99799	\$ 60 552 28 44 40 86 60 552 84 44 40 56 52 84 44 40 56 52 84 44 40 56 52 86 82 82 44 40 56 82 82 84 44 40 60 60 60 60 60 60 60 60 60 60 60 60 60
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.99574 .99575 .99578 .99587 .99582 .99584 .99583 .99584 .99589 .99595 .99596 .99596 .99596 .99596 .99596 .99596 .99606 .99607 .99606 .99608 .99606 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608 .99608	9 99860 99862 99862 99862 99863 99863 99864 99866 99866 99866 99866 99866 12h 12h 19h 12h 19h 19h 19h 19h 19h 19h 19h 19h 19h 19	0.99679 .99680 .99682 .99684 .99687 .99687 .99680 .99693 .99695 .99700 .99701 .99708 .99708 .99708 .99709 .99712 .99712 .99717 .99717 .99717 .99717 .99717 .99717 .99717	9,99900 ,99901 ,99902 ,99903 ,99903 ,99903 ,99905 ,99906 ,99906 ,99906 ,99906 ,99906 ,99909 ,99909 ,99911 ,99912 ,99913 ,99913 ,99913 ,99913 ,99913 ,99913 ,99913 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,9991	0.99770 .99771 .99771 .99771 0.99771 0.99776 .99780 0.99781 0.99786 0.99786 0.99789 0.99789 0.99789 0.99799 0.99799 0.99790 0.99790 0.99790 0.99790 0.99790 0.99790 0.99790 0.99790 0.99801	60 56 52 48 44 40 86 28 24 20 112 8 4 8 60 56 52 48 44 40 86 56 56 52 48 40 40 40 40 40 40 40 40 40 40 40 40 40
1	30 31 32 33 34 35 36 37 38 39 40 11 12 13 14 15 50 51 55 56 57 57 58	9 99701 99702 99703 99704 9 99705 9 99706 99707 99708 9 99710 99711 99712 99713 9 99714 99715 9 99716 7 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 9 9 99716 1 p 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0,99314 ,99317 ,99319 ,99329 ,99326 ,99326 ,99329 ,99310 0,99313 ,99317 70 0,99317 70 0,99351 ,99351 ,99351 0,99351 ,99351 ,99351 ,99351 0,99351 ,99351 ,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351	9 90761 90762 90763 90763 90765 90766 90766 90766 90769 90770 90771 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90774 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775	0.99451 .99453 .99455 .99457 0.99459 .99464 .99466 0.99468 0.99472 .99472 .99472 0.99183 .99486 0.99180 .99183 .99183 .99183 .99183 .99193 .99193 .99193 .99193 .99193 .99504 .99505 .99506	9,99811 98815 99816 99816 99,99817 99818 99820 99821 99822 94823 99823 99825 7 7 7 11h. 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1	30 33 33 34 35 36 37 38 39 40 11 12 13 14 15 50 50 55 55 55 55 55 59	9 99701 99702 99703 99703 99704 99706 99706 99707 99713 99711 99715 9 99716 10 99715 9 99716 10 99715 9 99716 9 9 9716 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.99314 .99317 .99319 .99329 .99329 .99321 .99326 .99333 .99336 .99318 .99316 .99317 .70 .99357 .99361 .99361 .99361 .99361 .99361 .99361 .99361 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .9936 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .9936 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .99363 .9936	9 90761 90762 90763 90763 90766 90766 90766 90767 90777 9 90777 9 90773 9 90771 9 90773 9 90771 9 90773 9 90773 9 90773 9 90773 9 90773 9 90773 9 90773 9 90775 9 90775 9 90775 9 90775 9 90775 9 90778 9 9078 9 78 9078 9078 9078 9078 9078 9078	0.99451 .99453 .99457 .99457 .99464 .99166 .99166 .99468 .99472 .99472 .99472 .99478 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99480 .99500 .99500 .99500 .99500 .99500 .99500	9,908.11 .988.15 .908.15 .908.15 .908.18 .908.19 .908.20 .908.21 .908.21 .908.23 .908.23 .908.24 .908.24 .908.24 .908.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .708.25 .7	0.9957? .99574 .99575 .99578 .99578 .99582 .99582 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583 .99583	9 99860 99861 99862 99862 99863 99863 99864 99866 99866 99866 99869 99869 918870 17hm 99871 99873 99873 99874 99875 99875	0.99679 .99680 .99682 .99684 0.99685 .99687 .99690 0.99692 .99690 0.99697 .99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99701 0.99702 0.99702 0.99703	9,99900 ,99901 ,99901 ,99903 ,99903 ,99903 ,99905 ,99905 ,99906 ,99906 ,99906 ,99908 ,99908 ,99909 ,99910 ,99911 ,99912 ,99912 ,99913 ,99913 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,99916 ,9991	0.99770 .99771 .99771 .99774 .99777 .99777 .99778 .99780 .99780 .99786 .99786 .99786 .99786 .99786 .99787 .99792 .99792 .99792 .99792 .99792 .99793 .99794 .99796 .99806 .99806 .99806 .99807 .99806	60   56   52   44   40   86   28   42   40   82   23   44   40   65   65   65   65   65   65   65   6
1	30 31 32 33 34 35 36 37 38 39 40 11 12 13 14 15 50 51 55 56 57 57 58	9 99701 99702 99703 99704 9 99705 9 99706 99707 99708 9 99710 99711 99712 99713 9 99714 99715 9 99716 7 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 99716 1 p 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0,99314 ,99317 ,99319 ,99329 ,99326 ,99326 ,99329 ,99310 0,99313 ,99317 70 0,99317 70 0,99351 ,99351 ,99351 0,99351 ,99351 ,99351 ,99351 0,99351 ,99351 ,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351 0,99351	9 90761 90762 90763 90763 90765 90766 90766 90766 90769 90770 90771 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90773 90774 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775 90775	0.99451 .99453 .99455 .99457 0.99459 .99464 .99466 0.99468 0.99472 .99472 .99472 0.99183 .99486 0.99180 .99183 .99183 .99183 .99183 .99193 .99193 .99193 .99193 .99193 .99504 .99505 .99506	9,99811 98815 99816 99816 99,99817 99818 99820 99821 99822 94823 99823 99825 7 7 7 11h. Ji 9,98827 9,98826 98827 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 98826 988	0.99572 .99574 .99574 .99578 0.99578 0.99582 .99584 .99583 .99587 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99599 .99601 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604 .99604	9 99860 99862 99862 99862 9 99863 9 99864 99866 9 99866 99866 99867 99867 99867 99870 17h 59871 59873 99876 99876 99870	0.99679 .99680 .99684 0.99684 0.99687 .99687 .99687 .99693 .99696 0.99696 .99700 0.99701	9,99900 ,99901 ,99902 9,9903 ,99903 ,99904 9,99905 ,99906 ,99906 ,99906 ,99908 ,99908 ,99909 ,99911 ,99912 ,99912 ,99912 ,99913 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99915 ,99916	0.99770 .99771 .99771 .99774 0.99775 .99777 .99777 .99781 .99784 .99786 .99786 .99786 .99786 .99787 0.99797 171 0.99790 .99797 .99791 .99791 .99791 .99791 .99796 .99796 .99796 .99796 .99796 .99796 .99796 .99796 .99796 .99806	60   56   44   40   65   65   28   44   40   65   65   65   65   65   65   65   6

						maversn	nes.					
		11h 40m	175°	11h 44m	176°	11h 48m	1770	11h 52m	175°	11h 56	179	
		Log. Hav.		Log. Hev.	Nat. Hav.	Log, Hav.	Yat. Hav.	Log. Hav.	Not. Hav.	Log. H.A.	N	S
- 0	0	9.99917	0.99810	9.99947	0.99578	9,99970	0.99931	9,99987	0.99970	9,99997	0.99992	60
1 4	1 2	.99918	.99811	.99948	.99579	,99971	.99933	,99987	.99971	.99997	.99993	56
8 12	3	.93918	.99812	.99948	.99880	.99971	.99933	.99987	.99971	.99997	.99993	52
16	4	9,99919	0.99514	9,99949	0.99882	9.99972	0.99931	,99987 9,99988	.99971 0.99972	.99997 9,99997	.99993	48
20	5	.99920	.99816	.99919	.92853	.99972	.99935	.99988	.99972	,99997	.99091	44
24	G	.99921	.99317	99950	.99884	.99972	.99936	.99988	.99973	.99997	.99994	40 56
28	7	.99921	.99819	,99950	.99855	.99973	.99937	99988	.99973	.99997	.99994	155
32	8	9,90922	0.99820	9.99951	9,99886	9,99973	0.99937	9,99988	0.99973	9,99998	0.99991	28
36	9	.99922	.99821	.99951	.99887	.99973	.99938	.99989	.99974	.99998	.99995	24
40	10	,99923	.99522	.99951	.99535	.99973	.99939	.99989	.99974	.99998	.99995	20
44	11	.99923	.99823	.99952	.99889	.99974	.99940	.99989	.99975	.99998	.99995	16
48	12	9.99924	0.99825	9,99952	0.99890	9.99974	0.39940	9,99989	0.99975	9,99998	0.99995	12
52 56	13 14	.99924 9,99925	.99826	.99953 9.99953	0.99891	.99974	.99911 0.99942	,99980 9 99990	.99976	,99998	.89995	- 8
- 26	1.1					9,99975			0.99976	9,99998	0.99996	4
	_	12h	19m	12h	15"	124	11".	1 ! h		-	314	
S	,	11h 41m	175°	11h 45m	176	11h 49m	177	11h 53m	178"	11h 57m	179°	S
0	15	9,99925	0.99528	9.99953	0.99893	9.99975	0.99942	9.99990	6.99977	9.99998	0.99996	60
4	16	.99926	.99829	.99954	.99894	.99975	.99913	.99990	.99977	.99998	.99396	56
8	17	.99926	.99831	.99954	.99895	.99976	.99944	.99990	.99978	.99998	.99996	52
12 16	18 19	.99927 9.99927	.99832	.99954 9.99955	.99896 0.99897	99976 999976	.99944	.99990 9.99991	.99978	.99998 9.99998	.99996 0.0000c	48
16 20	20	.99927	.99834	9,99955	.99897	9,99976	.99946	9,99991	.99978	9,99998	0.99996 .99997	44
24	21	.99928	.99835	.99956	.99899	.99977	.99947	.99991	.99979	.99999	.99997	40 56
28	22	.99929	.99837	.99956	.99900	.99977	.99917	.99991	.99986	.99999	.99997	32
32	23	9.99929	0.99838	9.99957	0.99900	9.99977	0.99918	9,99991	0.99980	9.99999	0.99997	28
36	24	,99930	.99839	.99957	.99901	.99978	.99949	,99992	.99981	.99999	.99997	24
40	25	.99931	.99840	.99958	.99902	.99978	.99949	.99992	.99981	,99999	.99997	20
44	26	.99931	.99841	.99958	.99903	.99978	.99950	.99992	.99981	.99999	.99998	16
48	27	9,99932	0.99842	9,99958	0.99904	9.99978	0.99950	9,99992	0.99982	9,99999	0.99998	12
-52	28 29	.99932	.99844	.99959 9.99959	.99995	.99979	.99951	.99992 9.99992	0.99982	9.99999	0.99998	8
56	29	9.99933	0.99845		0,99906	9,99979	0.99952					4
		13h	1.8m	1?h	14m	12h	$10^{m}$	12h	Control Control	1.24		
8	,	11h 42m	175°	11h 46m	176°	11h 50m	177°	11h 54m	178	11h 58m	179°	S
0	30	9,99933	0.99846	9.99959	0.99907	9.99979	0.99952	9,99993	0.99983	9,99999	0.99998	60
4	31	.99934	.99847	.99960	.99908	.99980	.99953	.99993	.99983	.99999	.99998	56
8 12	32	.99934	.99848	.99960 .99961	.99909	.99980	.99954	.99993	.99984 .99984	.99999	.99998	53
16	34	9.99935	0.99850	9.99961	0.99910	9,99980	0.99955	9.99993	0.99984	9.99999	0.99999	48 44
20	35	.99935	.99851	.99961	.99911	.99981	.99956	.99993	.99985	.99999	.99999	40
24	36	.99936	.99853	.99962	.99912	.99981	.99956	99994	.99985	9,99999	.99999	36
28	37	.99936	.99854	.99962	.99913	.99981	.99957	.99994	.99985	0.00000	.99999	32
32	38	9.99937	0.99855	9.99963	0.99914	9.99981	0.99957	9.99994	0.99986	0.00000	0.99999	28
36	39	.99937	.99856	.99963	.99915	.99982	.99958	.99994	.99986	.00000	.99939	24
40	40	.99938	.99857	.99963	.99915	.99982	.99959	,99994	.99986	.00000	.99999	20
44	41	.99938	.99858	.99964	.99916	.99982	.99959	0.99994 $0.99994$	.99987 0.99987	00000, 000 <b>0</b> 0, <b>0</b>	.99999 0.99999	16
48	42 43	9,99939	0.99859 .99860	9,99964 ,99964	0.99917 .99918	9.99983	0.99960 .99960	9,99994	.99987	00000,0	.99999	12 8
52 56	44	9.99940	0.99861	9.99965	0.99919	9.99983	0.99961	9,99995	0.99988	0.0000.0	0.99999	3
0.0	**	12h	17m	12h	13m		9//	1.16		121		
s	· ,	11h 43m	17.5°	11h 47m	176°	11h 51m	177°	11h 55m	178°	11h 59m	179	S
		, .						9,99995	0.99958	0.00000	1.00000	60
0	45	9.99940	0.99863	9.99965	0.99920	9,99983	139961	9,99995 .99995	.99988	0,00000.0	.00000	56
4 8	46	.99941 .99941	.99864	.99965 .99966	.99920	.99983	.99963	.99995	.99989	.00000	.00000	52
12	48	.99941	.99866	.99966	.99922	.99984	,99363	.99995	.99959	.00000.	.00000	48
16	49	9.99942	0.99867	9,99966	0.99923	9.99984	9,90901	9,99995	0.99959	0.00000	1.00000	44
20	50	.99943	.99868	,99967	.99924	,99984	.99961	.99996	.99990	,00000	.00000	40
24	51	.99943	.99869	.99967	.99924	.99985	.99965	.99996	.99990	.00000	.00000	56
28	52	.99943	.99870	.99968	.99925	.999×5	.93965	,99996	.99990	.00000	.00000	33
32	53	9,99944	0.99871	9.99968	0.99926	9,99955	0.99966	9,99996	0.99991	0.00000	1.00000	28
36	54	.99944	.99872	,99968	.99927	,99985	.99966	,999996	.99991	.00000	.00000	24
40	55	,99945	.99873	,99969	.99928	.99986	.99967	,99996 99996	.99991 .99991	.00000	.00000	20
44	56	.99945	.99874	.99969	.99928	.999%6 9.999%6	.99967 0.99965	,99996   9,99996	0.99993	0.00000	1,90900	16 12
48	57	9.99946	0.99875 .99876	9,99969 ,99970	.99930	9.99986	.99969	.99996	.99993	.00000	.00000	8
52 56	58 59	.99946	.99876	.99970	.99930	.90987	.99969	.99997	.99993	60000	.06000	4
60	60	9,99947	0.99878	9,99970		9,99987	0.99970	9 99997	0,99993	0,00000	1,00000	0
09	00		160		7	12h	5:77	12h		12h		1
		124										

TABLE 46.

Corrections* to be Applied to the Observed Altitude of a Star or of the Sun's Lower Limb, to Find the True Altitude.

	1				HE	GIT OF	THEE	YE.				
	S F	eet.	9 F	ect.	10 F	'eet.	11 F	eet.	12 F	eet.	13 F	'cet.
ins. Alt.	ran's Cirr. (+	Star's	Sun's Corr.	* Star's ( orr. ( - )	Sun's Corr. (+)	star's ('orr. (-)	Sun's Cort. (+)	star's Corr.	Sun's Corr. (+)	Star's Corr. (-)	Sun's Cort. (+)	Star's Corr. (-)
6 20 20 20 20 20 20 20 21 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 20	5 7 7 7 5 5 4 9 6 6 7 7 4 1 5 4 6 6 6 5 7 7 7 1 8 6 2 3 2 4 4 5 5 6 6 6 4 2 6 6 5 7 7 7 1 8 5 2 3 2 4 4 5 5 6 6 1 1 1 2 3 2 2 4 4 5 5 6 6 1 1 1 2 2 3 3 4 4 1 5 6 6 2 5 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 0 30 0 10 10 10 2 2 3 3 7 9 12 5 5 5 14 5 9 7 16 5 5 5 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 19 5 29 5 5 39 5 5 50 6 16 6 6 32 6 6 447 7 7 20 6 6 16 6 6 32 6 6 447 7 7 20 7 7 32 7 7 7 50 8 8 23 8 5 5 6 6 9 9 12 9 23 9 9 5 25 10 12 12 23 14 16 12 22 14 16 12 22 14 17 12 22 14 17 12 22 14 17 14 17 15 18 16 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 09 5 19 5 29 5 487 6 6 6 6 30 7 6 6 6 14 6 22 6 30 7 6 6 5 8 7 10 7 233 7 44 4 8 8 3 5 6 5 8 24 4 8 8 3 5 6 5 10 12 3 8 2 4 4 12 2 3 10 12 2 11 11 2 12 11 11 2 12 11 11 2 12 1	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 00 5 10 5 10 5 10 5 10 5 10 5 10 5 10	7 11 0 59 10 49 10 56 10 10 30 10 10 21 10 56 10 30 10 21 10 0 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25 10 25	4 511 5 21 5 30 5 48 6 6 6 19 6 26 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11 10 8 11 10 8 11 10 10 10 10 10 11 10 10 10 10 10 10	4 43 5 13 5 13 5 22 1 5 40 8 5 5 6 6 6 11 6 18 5 5 6 6 6 32 6 6 32 6 6 32 7 7 18 8 7 37 7 7 4 6 6 5 6 7 7 18 8 8 99 19 9 19 19 10 13 10 26 11 12 11 15 11 15 2 10 11 11 15 11 15 2 11 15 2 11 15 2 11 12 14 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 11	11 26 11 26 11 11 11 11 11 11 11 11 11 11 11 11 11

		HE	IGHT OF	THEE	YE,				
15 F	eet.	16 F	eet.	17 F	eet.	18 F	eet.	19 F	eet.
Sun's Corr. (+)	* Star's Corr. (+)	Sun's Cerr. (+)	Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)	Sun's Cerr. (+)	* Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)
" ' "	, ,,	7 77	, ,,	, ,,	, ,,	1 11	, ,,	- , ,,	, ,,
34 4 27	11 42	4 20	11 49	4 13	11 56	4 06	12 03	3 59	12 10
24   4 37 14   4 47	11 32 11 22	4 30 4 40	11 39 11 29	4 23 4 33	11 46 11 36	$\begin{array}{c c} 4 & 16 \\ 4 & 26 \end{array}$	11 53 11 43	4 09 4 19	12 00 11 50
04 4 57	11 12	4 50	11 19	4 43	11 26	4 36	11 33	4 29	11 40
55 5 06	11 03	4 59	11 10	4 52	11 17	4 45	11 24	4 38	11 31
16 5 15	10 54	5 08	11 01	5 01	11 08	4 54	11 15	4 47	11 22
37 5 24	10 45	5 17	10 52	5 10	10 59	5 03	11 06	4 56	11 13
29 5 32	10 37	5 25	10 44	5 18	10 51	5 11	10 58	5 04	11 05
21 5 40 13 5 48	$\frac{10}{10} \frac{29}{21}$	5 33 5 41	10 36 10 28	5 26 5 34	10 43	5 19 5 5 27	10 50 10 42	5 12 5 20	10 57 10 49
06 5 55	10 14	5 48	10 21	5 41	10 28	5 34	10 35	5 27	10 42
59 6 02	10 07	5 55	10 14	5 48	10 21	5 41	10 28	5 34	10 35
52 6 09	10 00	6 02	10 07	5 55	10 14	5 48	10 21	5 41	10 28
6 16	9 53	6 09	10 00	6 02	10 07	5 55	10 14	5 48	10 21
89 6 22	9 47	6 15	9 54 9 48	6 08	10 01	6 01	10 08	5 54	10 15 10 09
33   6 28 21   6 40	9 41 9 29	6 21 6 33	9 48 9 36	$\begin{array}{c c} 6 & 14 \\ 6 & 26 \end{array}$	9 55 9 43	6 07	10 02 9 50	6 00	9 57
10 6 51	9 18	6 44	9 25	6 37	9 32	6 30	9 39	6 23	9 46
59 7 02	9 07	6 55	9 14	6 48	9 21	6 41	9 28	6 34	9 35
19 7 12	8 57	7 05	9 04	6.58	9 11	6 51	9 18	6 44	9 25
10 7 21	8 48	7 14	8 55	7 07	9 02	7 00	9 09	6 53	9 16
31 7 30	8 39	7 23	8 46	7 16	8 53	7 09	9 00 8 48	7 02	9 07 8 55
19 7 42 08 7 53	8 27 8 16	7 35 7 46	8 34 8 23	7 28 7 39	8 41 8 30	7 21 7 32	8 48 8 37	7 14 7 25	8 55 8 44
57 8 04 1	8 05	7 57	8 12	7 50	8 19	7 43	8 26	7 36	8 33
8 14	7 55	8 07	8 02	8 00	8 09	7 53	8 16	7 46	8 23
88 8 23	7 46	8 16	7 53	8 09	8 00	8 02	8 07	7 55	8 14
8 31	7 38	8 24	7 45	8 17	7 52	8 10	7 59	8 03	8 06
14 8 47	7 22	8 40	7 29	8 33	7 36 7 23	8 26	7 43 7 30	8 19 8 32	7 50 7 37
01   9 00 18   9 13 .	7 09 6 56	8 53 9 06	7 16 7 03	8 46 8 59	7 23 7 10	8 39 8 52	7 30 7 17	8 45	7 24
88 9 23	6 46	9 16	6 53	9 09	7 00	9 02	7 07	8 55	7 14
8 9 33	6 36	9 26	6 43	9 19	6 50	9 12	6 57	9 05	7 04
9 41	6 27	9 34	6 34	9 27	6 41	9 20	6 48	9 13	6 55
03 9 57	6 11	9 50	6 18	9 43	6 25	9 36	6 32	9 29	6 39
50 10 10	5 58	10 03	6 05 5 54	9 56 10 07	6 12	9 49 10 00	6 19 6 08	9 42 9 53	6 26 6 15
39   10 21 29   10 31	5 47	10 14 10 24	5 54 5 44	10 07	5 51	10 10	5 58	10 03	6 05
10 39	5 29	10 32	5 36	10 25	5 43	10 18	5 50	10 11	5 57
3 10 47	5 21	10 40	5 28	10 33	5 35	10 26	5 42	10 19	5 49
06 10 54	5 14	10 47	5 21	10 40	5 28 .	10 33	5 35	10 26	5 42
00 11 00	5 08	10 53	5 15	10 46	5 22	10 39	5 29	10 32	5 36
55 11 05	5 03	10 58	5 10	10 51	5 17 5 11	10 44 10 49	5 24 5 18	10 37 10 42	5 31 5 25
19   11 10   18   11 21	4 57 4 46	11 03 11 14	5 04 1 4 53	10 56 11 07	5 00	11 00	5 07	10 53	5 14
9 11 29	4 37	11 22	4 44	11 15	4 51	11 08	4 58	11 01	5 05
11 36	4 29	11 29	4 36	11 22	4 43	11 15	4 50	11 08	4 57
4 11 42	4.22	11 35	4 29	11 28	4 36	11 21	4 43	11 14	4 50
7 11 49	4 15	11 42	4 22	11 35	4 29	11 28	4 36	11 21 11 26	4 43 4 37
11 54	4 09	11 47	4 16	11 40	4 23	11 33	4 30 4 25		4 32
								11 36	4 26
		12 01	4 00	11 54	4 07	11 47	4 14	11 40	4 21
0 12 12	3 48	12 05	3 55	11 58	4 02	11 51	4 09	11 44	4 16
_	11 58 12 04 12 08 12 12 of Month.	12 04 3 58 12 08 3 53 12 12 3 48	12 04     3 58     11 57       12 08     3 53     12 01       12 12     3 48     12 05	12 04     3 58     11 57     4 05       12 08     3 53     12 01     4 00       12 12     3 48     12 05     3 55	12 04     3 58     11 57     4 05     11 50       12 08     3 53     12 01     4 00     11 54       12 12     3 48     12 05     3 55     11 58	12 04     3 58     11 57     4 05     11 50     4 12       12 08     3 53     12 01     4 00     11 54     4 07       12 12 12     3 48     12 05     3 55     11 58     4 02	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12 04     3 58     11 57     4 05     11 50     4 12     11 43     4 19       12 08     3 53     12 01     4 00     11 54     4 07     11 47     4 14       12 12     3 48     12 05     3 55     11 58     4 02     11 51     4 09	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Day of Month.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nev.	Dec.
1st to 15th 16th to 31st				0 -4	-8 -11	-13 -14	-14 -13	-11 - 9	-5 -1	+3 +7	$^{''}_{+11}_{+14}$	+16 +18

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower limb, the dip, refraction, parallax, and mean semidiameter, which is taken as 16°. A supplementary correction taking account of the variation of the Sun's semidiameter in the different months of the year is given at the foot of the main table.

### Page 924]

#### TABLE 46.

					HEI	GHT OF	THEE	YE.				
	20 F	eet.	21 F	eet.	22 F	eet.	23 F	eet.	24 F	eet.	25 F	eet.
OBS, ALT	Sun's Corr.	Star's Corr.	Sun's Forr. (+)	Star's Corr. (-)	Sun's Corr. (+)	Star's Corr. (-)	Sun's t'orr. (+)	Star's Corr. (+)	Sun's ('orr. (+)	Star's Corr. (-)	Sun's Corr. (+)	Star's Corr. (-)
6 30 400 500 7 000 100 200 8 000 100 200 8 300 400 500 9 000 10 000 300 11 000 300 12 000 300 13 000 14 000 15 000 16 000 17 000 18 000 20 000 20 000 20 000 21 000 22 000 23 000 24 000 25 000 26 000 27 000 28 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 000 38 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5 5 5 5 5 4 4 7 5 5 5 5 5 5 5 4 4 7 7 7 7	12 23 3 03 3 44 5 18 0 19 5 4 8 1 11 11 11 12 5 4 8 1 11 11 11 11 10 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 49 9 3 3 509 4 4 236 4 4 4 5 007 5 5 14 1 4 5 5 0 5 5 5 3 4 0 6 6 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 2 20 12 20 12 10 12 10 12 10 12 10 12 10 11 11 13 11 11 17 11 10 10 55 10 48 11 11 17 11 10 10 55 10 48 11 12 10 15 10 10 17 11 10 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 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TABLE 46.

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	26 F	eet.	27 F	eet.	28 F	eet.	29 F	'eet.	30 F	eet.
OBS. ALT.		*	. 0	*	⊙	*	0	*	0	*
	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr,	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr.
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
6 30	3 15	12 54	3 09	13 00	3 04	13 05	2 58	13 11	2 53	19.10
40 .	3 25	12 44	3 19	12 50	3 14	12 55	2 58 3 08	13 11 13 01	2 53 3 03	13 16 13 06
50	3 35	12 34	3 29	12 40	3 24	12 45	3 18	-12-51	3 13	12-56
7 00	3 45	12 24	3 39	12 30	3 34	12 35	3 28	12 41	3 23	12 46
10 20	3 54 4 03	12 15 12 06	3 48 3 57	12 21 12 12	3 43   3 52	12 26   12 17	3 37 3 46	12 32 12 23	3 32 3 41	12 37 12 28
7 30	4 12	11 57	4 06	12 03	4 01	12 08	3 55	12 14	3 50	12 19
40	4 20	11 49	4 14	11 55	4 09	12 00	4 03	12 06	3 58	12 11
50 8 00	4 28 4 36	11 41 1 11 33	4 22 4 30	11 47 11 39	4 17 4 25	11 52 11 44	4 11 4 19	11 58 11 50	4 06 4 14	12 03 11 55
10	4 43	11 26	4 37	11 32	4 32	11 37	4 26	11 43	4 21	11 48
20	4 50	11 19	4 44	11 25	4 39	11 30	4 33	11 36	4 28	11 41
8 30	4 57	11 12 11 05	4 51 4 58	11 18 11 11	4 46 4 53	11 23 11 16	4 40 4 47	11 29 11 22	4 35 4 42	11 34 11 27
40 50	5 04 5 10	10 59	4 58 5 04	11 05	4 59	11 10	4 53	11 16	4 48	11 21
9 00	5 16	10 53	5 10	10 59	5 05	11 04	4 59	11 10	4 54	11 15
20	5 28	10 41		$\frac{10}{10} \frac{47}{36}$	5 17 5 28	10 52	5 11 5 22	10 58	5 06 5 17	11 03 10 52
10 00	5 39 5 50	10 30 10 19	5 33 5 44	10 36 10 25	5 28 . 5 39	10 41 10 30	5 33	10 47 10 36	5 28	10 32
20	6 00	10 09	5 54	10 15	5 49	10 20	5 43	10 26	5 38	10 31
40	6 09	10 00	6 03	10 06	5 58	10 11	5 52	10 17	5 47	10 22
11 00 30	6 18 6 30	9 51 9 39	6 12 6 24	9 57 9 45	6 07 6 19	10 02 9 50	6 01 6 13	10 08 9 56	5 56 6 08	10 13 10 01
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30	6 52	9 17	6 46	9 23	6 41	9 28	6 35	9 34	6 30	9 39
13 00	7 02 7 11	9 07 8 58	6 56 7 05	9 13 9 04	6 51 7 00	9 18 9 09	6 45 6 54	9 24 9 15	6 40 6 49	9 29 9 20
14 00	$\begin{array}{c c} 7 & 11 \\ 7 & 19 \end{array}$	8 50	7 13	8 56	7 08	9 01	7 02	9 07	6 57	9 12
15 00	7 35	8 34	7 29	8 40	7 24	8 45	7 18	8 51	7 13	8 56
16 00	7 48	8 21	7 42	8 27 8 14	7 37 7 50	8 32 8 19	7 31 7 44	8 38 8 25	7 26 7 39	8 43 8 30
17 00 18 00	8 01 8 11	8 08 7 58	7 55 8 05	S 14 S 04	8 00	8 09	7 54	8 15	7 49	8 20
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28 00	9 19	6 49	9 13	6 55	9 08	7 00	9 02	7 06	8 57	7 11 7 03
30 00 32 00	9 27 9 35	6 41 6 33	9 21 9 29	6 47 6 39	9 16 9 24	6 52 6 44	9 10 9 18	6 58 6 50	9 05 9 13	7 03 6 55
34 00	9 42	6 26	9 36	6 32	9 31	6 37	9 25	°6 43	9 20	6.48
36 00	9 48	6.20	9 42	6.26	9 37	6 31	9 31	6 37	9 26	6 42
38 00	9 53	6 15	9 47	6 21	9 42	6 26 6 20	9 36	6 32 6 26	9 31 9_36	6 37 6 31
40 00 45 00	9 58   10 09	6 09 5 58	9 52 10 03	6 15 6 04	9 58	6 09	9 52	6 15	9 47	6 20
50 00	10 17	5 49	10 11	5 55	10 06	6.00	10 00	6 06	9 55	6 11
55 00	10 24	5 41	10 18	5 47	10 13	5 52	10 07	5.58	10 02	6 03 5 56
60 00 65 00	10 30 10 37	5 34 5 27	10 24 10 31	5 40 5 33	10 19 3 10 26	5 45 5 38	10 13	5 51 5 44	10 08 10 15	5 49
70 00	10 37	5 21	10 36	5 27	10 31	5 32	10 25	5 38	10.20	5 43
75 00	10 46	5 16	10 40	5 22	10 35	5 27	10 29	5 33	10 24	5.35
80 00	10 52	5 10	10 46 10 50	5 16 5 11	10 41 10 45	5 21 5 16	10 35 10 39	5 27 5 22	10 30 10 34	5 32 5 27
85 00 90 00	10 56 11 00	5 05 5 00	10 50	5 11 5 06	10 40	5 11	10 33	5 17	10 34	7 22
30 00	11 100									

	Day of Month.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	10.5	Nov.	Dec.
Additional Corr.	1st to 15th	+18	+15	+8	0 -4	- 8	-13	-14	-11	-5	+3	-11	+16
For Sun's Alt.	16th to 31st	+17	+12	+4		-11	-14	-13	- 9	-1	+7	+1	18

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower lime, the out, retraction, parallax, and mean semidameter, which is taken as 16°. A supplementary contaction taking account of the variation of the Sun's semidiameter in the different months of the year is given at the foot of the main which

# Page 926]

#### TABLE 46.

OB* ALT.	star's Sun's		EIGHT OF	Feet.	_	Feet.	0.5 F	
OBS ALT. Sun's	star's Sun's		:13	Feet.	34			
sun's	Star's Sun's					reet.	.35 F	eet.
	(-) Corr. (+)	Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)	⊙ ∀un's Corr. (+)	* Star's Corr. (-)	Sun's Corr. (+)	Star's Corr. (+)
6 30 2 48 10 2 58 50 3 08 7 00 3 18 10 3 27 20 3 36 7 30 3 45 10 3 53 50 4 01 8 00 4 09 10 4 16 20 4 23 8 30 4 30 40 4 37 50 4 13 9 00 4 19 10 6 5 12 10 6 5 23 20 5 33 40 5 51	(+) (+) (+) (+) (+) (+) (+) (+) (+) (+)	(-) 13 27 13 17 13 16 15 17 12 15 17 12 15 17 12 18 16 12 18 18 18 12 18 18 18 13 18 18 14 18 18 18 16 18 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 1	+ 1 2 477 23 076 3 253 3 342 2 2 577 23 076 3 255 3 3 342 3 5 5 8 3 4 4 5 5 12 2 2 5 7 7 5 10 5 2 2 1 4 2 6 2 2 2 5 7 5 10 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	13 3222 91 1 1 1 1 1 1 0 5 7 7 X 29 1 7 0 1 X 3 1 1 1 1 1 1 2 5 3 3 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1	+ . 224221299374530071411134567775644559973531572884215664725559156874758889317	**************************************	+1 -22377756 -23377756 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333948 -333	13 42 13 32 13 13 12 13 12 21 13 12 21 12 12 17 12 21 12 12 17 12 12 17 11 18 11 18 11 18 11 18 11 18 11 18 11 19 54 11 19 54 11 19 55 10 39 10 16 10 55 10 39 10 16 10 55 10 39 10

	Day of Month.	Jan.	Fob.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Doc.
												-	
ADDITIONAL CORR		.,	19	/-		* *	- 11	- 11	11	- 11	12	**	"
FOR SUNA ALT,	fist to 15th	+18	4-15	+8	()	- 8	-13	-14	-11	-5	+3	+11	+16.
	16th to 31st	1-17	+12	+ 1	- 1	-11	-11	~13	- 9	-1	+7	+11	+18.

of the street of first head or a lateral of a Star or Planet involves the dip and the refraction; and for the observed attitude of the state of the lateral parallel and mean semidiarment, which is taken as 16°. A supplementary correction taken in the order of the order of the main table.

				111	EIGHT OF	THE EY	E.			
	36 F	eet.	37 F	eet.	38 F	eet.	39 F	eet.	40 F	eet.
OBS. ALT.	Sun's Corr. (+)	* Star's Corr. (-)	Sun's Corr, (+)	* Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)	Sun's Corr, (+)	* Star's Corr. (-)	O Sun's Corr, (+)	* Star's Corr. (-)
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40 50	2 32 2 42	13 37 13 27	2 27 2 37	13 42 13 32	2 23	13 46 13 36	2 18 2 28	13 51 13 41	2 13	13 56 13 46
7 00	2 52	13 17	2 47	13 22	2 43	13 26	2 38	13 31	2 33	13 36
10	3 01	13 08	2 56	13 13	2 52	13 17	2 47	13 22	2 42	13 27
20	3 10	12 59 12 50	3 05	13 04 12 55	3 01 3 10	13 08 12 59	2 56 3 05	13 13 13 04	2 51 3 00	13 18 13 09
7 30 40	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 50 12 42	3 14 3 22	12 55 12 47	3 18	12 59 12 51	3 05 3 13	13 04 12 56	3 08	13 09
50	3 35	12 34	3 30	12 39	3 26	12 43	3 21	12 48	3 16	12 53
8 00	3 43	12 26	3 38	12 31	3 34	12 35	3 29	12 40	3 24	12 45
10	3 50	12 19	3 45	12 24 12 17	3 41	$\frac{12}{12} \frac{28}{21}$	3 36	12 33 12 26	3 31 3 38	12 38 12 31
8 30	3 57 4 04	12 12 12 05	3 52   3 59	12 17 12 10	3 48 3 55	12 14	3 43 3 50	12 19	3 45	12 24
40	4 11	11 58	4 06	12 03	4 02	12 07	3 57	12 12	3 52	12 17
50	4 17	11 52	4 12	11 57	4 08	12 01	4 03	12 06	3 58	12 11
9 00 20	4 23 4 35	11 46 11 34	4 18 4 30	11 51 11 39	$\begin{array}{c c} 4 & 14 \\ 4 & 26 \end{array}$	11 55 11 43	4 09 4 21	12 00 11 48	4 04 4 16	12 05 11 53
40	4 46	11 23	4 41	11 28	4 37	11 32	4 32	11 37	4 27	11 42
10 00	4 57	11 12	4 52	11 17	4 48	11 21	4 43	11 26	4 38	11 31
20	5 07	11 02	5 02	11 07	4 58	11 11	4 53	11 16	4 48	11 21
11 00	5 16 5 25	10 53 10 44	5 11 5 20	10 58 10 49	5 07 5 16	11 02 10 53	5 02 5 11	11 07 10 58	4 57 5 06	11 12 11 03
30	5 37	10 32	5 32	10 37	5 28	10 41	5 23	10 46	5 18	10 51
12 00	5 48	10 21	5 43	10 26	5 39	10 30	5 34	10 35	5 29	10 40
30	5 59	10 10	5 54	10 15	5 50	10 19	5 45	10 24	5 40	10 29 10 19
13 00 30	6 09 6 18	10 00 9 51	6 04 6 13	10 05 9 56	6 00 6 09	10 09 10 00	5 55 6 04	10 14 10 05	5 50 5 59	10 19
14 00	6 26	9 43	6 21	9 48	6 17	9 52	6 12	9 57	6 07	10 02
15 00	6 42	9 27	6 37	9 32	6 33	9 36	6 28	9 41	6 23	9 46
16 00	6 55	9 14	6 50	9 19	6 46	9 23 9 10	6 41 6 54	9 28 9 15	6 36 6 49	9 33 9 20
17 00 18 00	7 08 7 18	9 01 8 51	7 03 7 13	9 06 8 56	6 59 7 09	9 00	6 54 7 04	9 05	6 59	9 10
19 00	7 28	8 41	7 23	8 46	7 19	8 50	7 14	8 55	7 09	9 00
20 00	7 36	8 32	7 31	8 37	7 27	8 41	7 22	8 46	7 17	8 51
22 00 24 00	7 52 8 05	8 16 8 03	7 47 8 00	8 21 8 08	7 43 7 56	8 25 8 12	7 38 7 51	8 30 8 17	7 33 7 46	8 35 8 22
24 00 26 00	8 16	7 52	8 11	7 57	8 07	8 01	8 02	8 06	7 57	8 11
28 00	8 26	7 42	8 21	7 47	8 17	7 51	8 12	7 56	8 97	8 01
30 00	8 34	7 34	8 29	7 39	8 25	7 43 7 35	8 20 8 28	7 48   7 40	8 15 8 23	7 53 . 7 45
32 00 34 00	8 42 8 49	7 26 7 19	8 37 8 44	7 31 7 24	8 33 8 40	7 28	8 35	7 33	8 30	7 38
36 00	8 55	7 13	8 50	7 18	8 46	7 22	8 41	7 27	8 36	7 32
38 00	9 00	7 08	8 55	7 13	8 51	7 17	8 46	7 22	8 41	7 27
40 00	9 05	7 02	9 00	7 07	8 56	7 11 7 00	8 51 9 02	7 16 7 05	8 46 8 57	7 21 7 10
45 00 50 00	9 16 9 24	6 51 6 42	9 11 9 19	$\begin{array}{c} 6 & 56 \\ 6 & 47 \end{array}$	9 07 9 15	6 51	9 10	6 56	9 05	7 01
55 00	9 31	6 34	9 26	6 39	9 22	6 43	9 17	6 48	9 12	6 53
60 00	9 37	6 27	9 32	6 32	9 28	6 36	9 23	6 41	9 18	6 46
65 00	9 44	6 20	9 39	6 25 6 19	9 35 9 40	6 29 6 23	9 30 9 35	$\frac{6}{6} \frac{34}{28}$	9 25 9 30	6 39 6 33
70 00 75 00	9 49 9 53	6 14 6 09	9 44 9 48	6 19 6 14	9 40	6 18	9 39	6 23	9 34	6 28
80 00	9 59	6 03	9 54	6 08	9 50	6 12	9 45	6 17	9 40	6 22
85 00	10 03	5 58	9 58	6 03	9 54	6 07	9 49	6 12	9 44	6 17 6 12
90 00	10 07	5 53	10 02	5 58	9 58	6 02	9 53	6 07	9 48	0 12

	Day of Month.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
Additional Corr.		- //	- //		"	- //		"	"	"	- 11		- 11
FOR SUN'S ALT.	1st to 15th	+18	+15	+8	0	- 8	-13	-14	-11	-5	+3	+11	+16
	16th to 31st		+12	+4	-4	-11	-14	-13	- 9	-1	÷7	+14.	+18

^{*} The corrections for the observed all timbe of a Star or Planet involves the dip and the refraction; and for the observed all timbe of the Sun's lower limb, the dip refraction, parallax, and mean semidiameter, which is taken as it? A supplementary correction taking account of the variation of the Sun's condigmeter in the different months of the year is given at the foot of the main table.

### Page 928

#### TABLE 46.

		HEIGHT OF THE FYE.													
			- 1	12 F	eet.	43.3	net	41 F	net.	45 F	ent.	46 F	eet.		
	0,			Corr.	Star's Corr.	Corr	Star's Corr.	Corr.	Corr.	Corr.	Star's Corr.	Corr.	Corr.		
	1	18.23.05.00110.23.00125.011223.0124.0125.013.0125.0125.025.0012.010.05.00125.05.00125.05.00125.05.00125.05.05.00125.05.05.05.05.05.05.05.05.05.05.05.05.05	11 11 14 01 1 13 14 1 15 1 15 1 15 1 15 1 15 1 15	1 0 1 1 2 1 3 2 4 2 1 1 2 1 3 2 4 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15	1 + 9 9 9 9 19 8 7 6 6 11 7 9 1 8 1 8 1 5 0 2 1 3 1 3 1 4 5 0 1 5 6 6 6 6 6 5 6 3 1 9 2 2 2 2 2 3 2 3 3 3 3 3 3 5 0 2 3 1 4 4 1 1 1 4 5 5 1 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6	11 20 11 10 11 10 13 41 13 32 13 32 13 32 14 57 12 38 12 25 12 38 12 12 12 12 12 12 12 12 12 12 12 12 12 1	141 1 541 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14 25 11 15 15 11 15 15 11 15 15 11 15 15 11 15 15	39 1 1 59 0 1 5 1 1 5 1 0 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 30 11 20 11 10 11 10 13 51 13 42 13 35 13 25 12 29 12 29 12 48 12 21 12 25 12 29 12 11 55 11 36 11	1 355 1 455 1 2012 232 240 240 240 240 240 240 240 240 240 24	14 34 14 14 14 14 14 14 14 15 15 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 36 36 36 36 36 36 36 36 36 36 36 36		

the contribution of the strong and the refraction; and for the observed altitude to the contribution of the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the strong and the str

					HEI	GHT OF	THE F	EYE.				
!	47 F	eet.	48 F	eet.	49 F	eet.	50 F	eet.	51 F	eet.	52 F	eet.
OBS. ALT.	Sun's Corr. (+)	* Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)	⊙ Sim's Corr. (+)	* Star's Corr. (-)	Sum's Corr. (+)	* Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr. (-)	Sun's Corr. (+)	* Star's Corr, (-)
6 30 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10	1 31 1 51 1 51 1 2 10 2 2 28 2 34 2 52 2 36 3 3 22 2 2 34 4 2 52 2 3 3 44 5 3 3 26 4 16 5 5 27 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	14 38 14 18 14 18 14 18 14 18 13 59 13 51 13 11 13 33 11 2 56 12 49 12 25 12 14 11 35 11 12 25 12 11 10 51 11 10 51 11 10 51 10 18 10 15 52 9 42 9 23 9 23 9 23 8 25 17 18 17 18 10 18 10 17 59 52 7 18 7 17 18 7 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	1 237 1 477 2 06 5 2 2 24 2 2 34 0 8 2 2 8 2 3 4 1 1 2 1 2 2 2 3 3 4 5 1 1 2 2 2 3 3 4 5 1 1 2 2 2 3 3 4 5 1 1 3 2 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 2 3 3 4 5 1 1 3 2 3 3 4 5 1 1 3 2 3 3 4 5 1 1 3 2 3 3 4 5 1 1 3 2 3 3 4 5 1 1 3 3 2 3 3 4 5 1 1 3 3 2 3 3 4 5 1 1 3 3 2 3 3 4 5 1 1 3 3 2 3 3 4 5 1 1 3 3 2 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 3 4 5 1 1 3 3 4 5 1 1 3 3 4 5 1 1 3 3 4 5 1 1 3 3 4 5 1 1 3 3 4 5 1 1 3 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 5 1 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4	14 42 14 32 14 03 14 13 14 13 15 14 13 15 14 13 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1 23 1 43 1 43 1 5 2 02 2 22 2 44 1 2 5 2 2 2 2 44 2 2 5 3 3 12 2 2 2 3 3 12 2 2 2 3 3 12 2 2 3 3 3 16 4 2 5 3 3 12 2 2 3 3 3 12 4 4 4 4 4 9 5 5 10 6 6 2 9 7 7 7 7 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	14 46 14 36 14 16 14 16 14 16 13 13 49 13 41 13 33 13 25 13 18 13 11 12 57 12 33 12 22 12 11 11 52 12 11 11 52 11 43 11 12 57 11 25 11 13 04 11 20 11 05 10 10 42 10 10 10 10 10 10 10 10 10 10 10 10 10 1	1 1 29 1 1 349 1 1 587 1 64 1 1 3 2 1 4 4 5 6 6 6 1 2 3 2 4 4 7 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	14 50 14 40 14 120 14 121 14 20 14 121 14 20 14 121 13 53 13 37 13 29 13 15 13 37 13 29 13 15 13 29 12 37 12 15 12 15 11 24 11 10 11 47 11 10 11 10	1 15 1 25 1 35 1 154 2 2 12 2 2 28 2 36 2 2 50 2 36 3 10 3 2 2 2 2 36 3 3 50 4 09 4 4 18 4 5 02 2 5 11 9 5 35 8 6 01 6 21 7 19 7 25 7 7 42 8 7 7 53 8 8 17 8 8 52 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	14 54 14 14 14 14 14 14 14 15 15 14 06 13 57 13 49 13 12 13 05 12 59 12 12 19 12 00 11 51 11 07 10 58 11 17 11 07 10 58 19 58 59 39 39 10 8 19 58 58 57 49 17 7 21 7 7 10 7 05 7 00 10 7 05 7 00 10 10 7 05 10 10 10 10 10 10 10 10 10 10 10 10 10	1 1 21 1 3 4 1 1 5 5 9 1 2 2 6 3 3 3 4 6 6 6 5 5 5 3 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	14 58 14 48 14 28 14 19 14 10 14 01 13 35 13 37 13 23 13 23 13 23 13 23 12 24 14 10 14 01 13 57 12 25 10 12 25 10 12 27 27 27 27 27 27 27 27 27 27 27 27 27

	Day of Month.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Det.
ADDITIONAL CORR.		"	"		- 11	"	"	"			//	"	"
FOR SUN'S ALT.	1st to 15th 16th to 31st						-13			-5 -1			

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower limb, the dip, refraction, parallax, and mean semidiameter, which is taken as 10%. A supplementary correction taking account of the variation of the Sun's semidiameter in the different months of the year is given at the foot of the main table.

### Page 930

#### TABLE 46.

				HEIGHT OF	THE EYE.		
	53 Feet.		54 Feet.	55 Feet.	56 Feet.	57 Feet.	58 Fect.
BS. ALT	Corr C	* Star's Corr. (+)	Sun's (Star's Corr. (+) (-)	Sun's Star's Corr. (+) (-)	Sun's Star's Corr. Corr. (+) (-)	Sun's Star's Corr. Corr. (+) (-)	Sun's Star's Corr. (+) (-)
6 50 40 50 50 50 50 50 50 50 50 50 60 50 60 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60	1 17 14 1 27 14 1 37 14 1 4 6 18 1 1 5 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1	1 47 1 36 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25	1 03	0 59 15 10 1 09 15 00 1 19 14 50 1 19 14 50 1 29 14 40 1 35 14 31 1 47 14 22 1 566 14 13 2 04 14 05 2 12 13 57 2 27 13 42 2 34 13 25 2 48 13 21 2 48 13 21 2 48 13 21 2 51 13 15 3 00 13 09 3 12 12 57 3 23 12 46 3 34 12 35 3 41 12 35 3 53 12 16 4 02 12 07 4 02 11 05 5 19 10 50 5 19 10 57 5 10 14 6 6 29 9 39 6 6 29 9 39 6 6 53 9 15 7 03 9 05 6 6 53 9 15 7 03 9 05 6 7 03 9 05 6 7 03 8 49 7 7 19 8 49 7 26 8 42 7 27 8 36 7 7 7 8 31 7 7 19 8 8 49 7 26 8 42 7 27 8 36 7 7 7 8 31 7 7 7 7 8 31 7 7 7 8 31 7 7 7 7 8 31 7 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 7 8 31 7 7 7 7 8 31 7 7 7 8 31 7 7 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 7 7 8 31 8 7 7 8 31 7 7 8 31 8 7 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 55 15 14 41 1 15 14 41 1 13 4 14 13 5 15 14 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 51 15 18 15 18 1 10 1 15 18 1 11 14 48 1 20 14 39 14 30 14 39 14 30 14 30 14 30 14 30 12 19 13 50 12 26 13 43 16 12 14 15 12 19 13 50 12 26 13 43 16 12 12 13 17 3 01 13 05 12 12 13 17 3 01 13 05 12 12 14 13 17 3 01 13 05 12 12 14 13 17 14 14 15 11 14 14 15 11 14 14 15 11 10 58 14 17 10 12 15 17 11 14 14 15 11 10 15 11 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	0 44 15 21 0 6 58 15 11 1 0 8 15 01 1 1 8 14 51 1 2 7 14 42 1 3 6 14 33 1 4 5 14 24 1 5 3 14 16 1 3 3 3 12 12 57 3 2 3 12 46 3 3 12 12 57 3 2 3 12 46 3 3 12 12 57 3 2 3 12 46 3 3 12 12 57 3 2 3 12 46 1 12 18 3 3 12 12 57 3 2 3 12 46 1 10 13 08 1 12 18 1 12 18 1 14 11 15 5 1 1 14 11 15 5 1 1 14 11 15 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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	Day of Month,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
ADDITIONAL CORB.		"	"	"	"	- 11	"	"	"	- //	"	"	"
FOR SUN'S ALT.	1st to 15th	+18	+15	+8	0	- 8	-13	-14	-11	-5	+3	+11	+16
	16th to 31st	$\pm 17$	+12	44	-4	-11	-14	-13	- 9	-1	+7	+14	+18

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower limb, the dip, refraction, parallax, and mean semidiameter, which is taken as 16'. A supplementary correction taking account of the variation of the Sun's Semidiameter in the different months of the year is print at the foot of the main table.

# Page 932]

#### TABLE 46.

Corrections* to be Applied to the Observed Altitude of a Star or of the Sun's Lower Limb, to Find the True Altitude—Continued.

					HEI	GHT OF	THE E					
	is E	evet.	Gr F	ect.	67 F	'eet.	us F		69 F	eet.	70 F	ert.
One Alt	Sun's Corr	Star's Corr.	Sun's Corr (+)	Star's Corr.	Sun's Corr. (+)	Star's Corr (+)	Sun's Corr. (+)	Star's Corr.	Sun's Corr. (+)	Star's Corr. (-)	Sun's Corr. (+)	Star's Corr. (-)
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FOR SUN'S ALT.	1st to 15th	+18	+15	+s	()	- 8	-13	11	-11	5	+3	$+\Pi$	+16
	16th to 31st	+17	+12	+1		-11	-14	-13	- 9	-1			-15

The corrections for the observed attitude dia Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower into, the dip, refraction, parallax, and mean semidiancier, which is taken as lot. A supplementary correction taking account of the variable of othe Sun's semidiancier in the efficient monitable they are to evident at the foot of the main table.

### Page 934]

#### TABLE 46.

79 Feet.

Corrections* to be Applied to the Observed Altitude of a Star or of the Sun's Lower Limb, to Find the True Altitude—Continued.

HEIGHT		

81 Feet.

52 Feet.

	Sun's Corr	Star's Corr.	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr.	Sun's Corr.	Star's Corr. (-)
	1		l				, ,			, ,,	- , ,,	- 1 11
6.30	-0.21	16.30	=0.24	16 33	-0.28	16 37	-0.31	16 40	-0.34	16 43	-0 37	16 46
40	-0.11	16 20	0 14	16 23	-0.18	16 27	-0.21	16 30	-0.24	16 33	-0 27	16 36
50	-0.01	16 30	~ 0.04	16 13	-0.08	16 17	-0 33	16.20	-0.14	16 23	-0 17	16 26
7 00	<ul><li>0 09</li></ul>	16 00	$\pm 0.06$	16 03	$\pm 0.02$	16 07	-0.01	16.10	-0.04	16 13	-0.07	16 16
10	0.18	15.51	0.15	15.54	0.11	15.58	+0.05	16 01	$\pm 0.05$	16 04	$\pm 0.02$	16 07
20	0.27	15 42	0.24	15 45	0.20	15 49 15 40	0 17	15 52 15 43	0 14	15 55	0.11	15 58
7 30	0 36	45 33 45 25	0.33	15 36 15 28	0.29	35 32	0 26	15 35	0 23	15 46 15 38	0 20 0 28	15 49 15 41
50	0.52	15 17	0.49	15 20	0.45	15 24	0 42	15 27	0.39	15 30	0 36	15 33
8 00	1.00	15 09	0.57	15 12	0.53	15 16	0.50	15 19	0 47	15 22	0 44	15 25
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20	1.14	14.55	111	14.58	1 07	15 02	1 04	15 05	1.01	15 08	0.58	15 11
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20	1.52	14 17	1.49	14 20	1 45	34 24	1 42	14 27	1 39	14 30	1 36	14 33
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30.00	2.11	13 55	2.41	13.58	2.07	14 02	2 04	14 05	2.01	14 08	1.58	14 11
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11 00	2 42 2 54	13 27 13 15	2 39 2 51	13 30 13 18	2 33	13 34 13 22	2 32 2 44	13 37 13 25	2 41	13 40 13 28	2 26 2 38	13 43 13 31
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Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun's   Sun'	S3 Feet.   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S9 Feet.   S9 Feet.   S9 Feet.   S9 Feet.   S

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower limb, the dip, refraction, parallax, and mean semidiameter, which is taken as 16°. A supplementary correction taking account of the variation of the Sun's Semidiameter in the different months of the year is given to the lost of tho main table.

### Page 936]

#### TABLE 46.

 $\label{total constraints} \mbox{$^{\bullet}$ to be Applied to the Observed Altitude of a Star or of the Sun's Lower Limb, to Find the True Altitude—Continued.}$ 

		HEIGHT OF THE EYE.											
		×9 I	Feet.	90 I	'eet.	91 1	Peet.	92 1	Feet.	93 I	Feet.	.₁ Feet.	
OBS.	ALT		Star's	diam'r.	Star's	Sun's	star's	Sun's	Star's	64.	Star's	Sun's	* Star's
		Sun's Corr.	Corr.	Sun's Corr.	(-)	Corr.	('orr.	Corr.	Corr. (-)	Sun's Corr.	Corr. (-)	Corr.	Corr.
	30	-1.00	17 09	-1 03	17 12	-1 06	17 15	-1 09	17 18	-1 12	17 21	-1 15	17 24
"	40	=0.50	16.59	-0.53	17 02	-0.56 -0.46	17 05	-0.59	17 08	-1.02	17 11	-1.05	17 14
7	50 00	0 40	16 49 16 39	-0 43 -0 33	16 52 16 42	= 0.36	16 55 16 45	-0.49 -0.39	16 58 16 48	-0.52 -0.42	17 01 16 51	-0 55 -0 45	17 04 16 54
1	10 20	-0.21 -0.12	16 30 16 21	-0 24 -0 15	16 33 16 24	0.27 -0.18	16 36 16 27	-0 30 -0 21	16 39 16 30	-0.33 -0.24	16 42 16 33	-0.36 -0.27	16 45 16 36
7	30	-0.03	16 12	~ 0.06	16-15	0.09	16.18	-0.12	16 21	-0.15	16 24	-0.18	16.27
	40 50	÷0.65 -0.13	16 01 15 56	+0 02 0 10	16 07 15 59	+0.01	$\frac{16}{16} \frac{10}{02}$	-0.01	16 13   16 05	$-0.07 \\ +0.01$	16 16 16 08	-0 10 -0 02	-16 - 19 $-16 - 11$
- 8	10	0.21	15.48	0.18	15.51	0.15	15 54	0 12 0 19	15 57 15 50	0 09 0 16	16 00	+0.06	16.03
	20	0.35	15 41 15 34	0.32	15 44 15 37	0.29	15 47 15 40	0.26	15 43	0.23	15 53 15 46	0.20	15 56 15 49
7	30	0.42	15 27 15 20	0.39	15 30 15 23	0.36	15 33 15 26	0 33	15 36 15 29	0 30	15 39 15 32	0 27	15 42 15 35
	50	0.55	15 14	0.52	15 17	0.49	15.20	0.46	15 23	0.43	15 - 26	-0.40	15 29
. 9	20	1 01	15 08   14 56	0.58	15 11 14 59 1	0 55 1 07	15 14 15 02	0 52	15 17   15 05	0 49	15 20 15 08	0.46	15 23 15 11
10	40	1 24	14 45 14 34	1 21	14 48 14 37	1 18	14 51 14 40	1 15 1 26	14 54 14 43	1 12 1 23	11 57 14 46	$\frac{1}{1} \frac{09}{20}$	15 00
107	20	1.45	14 24	1.42	14 27	1 39	14.30	1.36	14 33	1.33	14 36	1.30	14 49 14 39
11	40	1 54 2 43	14 15 14 06	2 00	14 18 1	$\frac{1}{1} \frac{48}{57}$	14 21 14 12	1 45	14 24 14 15	1 42	14 27 14 18	1 39	14 30 14 21
	30	2 15	13.54	2 12	13 57	2 09	14.00	2.06	14 63	2.03	14 06	2 00	14 09
12	30	2 26 2 37	13 43	2.31	13 46 13 35	2 31	13 49 13 38	2 17 2 28	13 52 13 41	2 14 2 25	13 55 13 44	2 11 2 22	13 58 13 47
13	00 30	2.47	13 22	2 44 2 53	13 25 13 16	2 41 2 50	13 28 13 19	2 38 2 47	13 31 13 22	2 35	13 34 13 25	2 32 2 41	13 37 13 28
1.1	(10)	3.04	13.05	3.01	13.08	2.58	13 11	2.55	13 14	2.52	13 17	2.49	-13 - 20
15 16		3 33	12 36	3 17 3 30	12 52   12 39	3 14 3 27	12 55 12 42	3 11	12.58 12.45	3 05 3 21	13 01 12 48	3 05	-13/04 $-12/51$
17		3 46	12 23 12 13	3 43 3 53	12 26	3 40 3 50	12 29	3 37 3 47	12 32 12 22	3.34	12/35	3 31	12 38 12 28
19	00	4 (0)	12 03	1.03	12 16 12 06	4 00	12 09	3 57	12 12	3 54	12 25 12 45	3 57	12.18
20		4 14 4 30	11 54 1 11 38	1 11 1 27	11 57 11 41	4 05	12 00	4 05	12 03 11 47	4 02 4 18	12 06 11 50	3.5+ 4.15	12 09 11 53
21		1.11	11.25	1 40	11.28	4 37	11 31	1.31	11.34	4.31	11 37	4.28	11.40
26 28		5.04	11.14	5.01	11 17 11 07	4 48	11 20 1	4 45 4 55	11 23	4 42 4 52	11 26 11 16	4 39 (	11 29
30		5 12 5 20	10.56	5 09	10 59 10 51	5 06	11 02	5 03 -	(11 05 10 57	5 00 5 08	11.05	4 57 (	
0.4	(10)	5 27 (	10-41	5.24	10 44	5 21	10.54 10.47	5.18	10:57	5 15	11 00	5 12	11 03 10 56
		a 33 a	101-35 10-30	5 00	10.38   10.33	5 27	10.41	5 21 5 29	10 44	5 21 5 26	$\frac{10.47}{10.42}$	5 15	10.20
\$11	00.	o 43	10.21	1.29	10.27	5 37	10.30	5.34	10.35	5.31	10.36	5.28	10.39
. 11		10 of 5	10 (3	5.51	10.07	5.43	10 [0	a 45 5 53	10 22 10 13	5 42	10 25 10 16	5 39	10/28 10/19
t.()		6 (3	9 (6)	6.06	9 29	6.03	10.02	h (II)	10.05	5 37	10.08	5.51	10-11
1 -	100	h [1]	9-12	6 12 6 19	3 G	6 09	9 55	6 13	9.58	6 10	9.51	6 07	9.57
, ()		6.2	18 JR 16 J.1	6.21	3 7	6.25	9 (2)	6.15	9 15	6 15	9.48	6 12	9 51 9 46
41)	00	6	9.27	6.14	9.5	6.51	9 11	5, 25	9 40	6 19 6 25	9.37	6.22	9 40
5/1)		- 6 for	9.29	6 (2	9	6 39	9 #	+ 32 + 6 36	9 29	+6 33 +6 33	9 32 9 27	-6-26 -6-30	9-35
	ı		1		-		- 1						
				EM at	tye	het M	sr Aor	May.	June Ju	ly. Aug.	Sept. 4	Oct. S	Dec
11	ITI-	1	111		. 18	. [, .	5 0		13 1	1 -11	-5	13 +11	+16
				for all t	17		1		-14 -1		-1	-7 -11	
	l e					Star o Pl	entin c	. the day	miltor	efrischens:	and for the	en serva l	iltitu le

* The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of

Corrections* to be Applied to the Observed Altitude of a Star or of the Sun's Lower Limb, to Find the True Altitude—Continued.

			HEIGHT OF THE EYE.									
	95 F	eet.	96 F	eet	97 F	eet.	98 F	eet.	99 F	eet.	100 1	'eet.
OBS. ALT.	Sun's Corr.	* Star's Corr. (-)	Sun's Corr.	* Star's Corr. (-)	Sun's Corr.	* Star's Corr. (-)	Sun's Corr.	* Star's Corr. (-)	Sun's Corr.	* Star's Corr, (-)	Sun's Corr.	* Star's Corr. (-)
* ', '6 30 40 40 50 70 10 10 10 10 10 10 10 10 10 10 10 10 10	7 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-1 21 11 1-1 11 1-0 51 1-0 42 3 -0 24 4 -0 16 6 16 6 20 4 15 5 54 4 5 15 5 54 4 5 16 6 16 6 16	17 30 17 20 17 100 16 42 16 33 16 25 16 17 16 02 15 55 15 15 41 15 35 15 29 15 17 14 15 14 45 14 45 14 45 14 45 14 45 14 27 14 15 13 34 13 26 11 24 12 24 12 24 12 25 11 29 11 40 12 15 11 29 11 40 12 57 12 44 12 24 12 25 11 29 11 40 12 15 11 29 11 40 12 15 13 30 13 43 13 13 43 13 26 14 27 17 10 00 10 20 10 56 10 10 10 10 03 10	-1 24 -1 14 -1 0 54 -0 34 -0 34 -0 27 -0 10 -0 11 -0 03 -0 25 -0 25 -0 25 -0 11 -1 20 -0 11 -0 37 -0 49 -0 11 -1 30 -1 12 -1 1 30 -1 12 -1 1 30 -1 1 1 1 -1 1 30 -1 1 2 2 1 -1 2 2 3 -1 3 2 2 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3 3 -1 3	17 33 17 23 17 13 17 13 17 13 16 45 16 36 16 20 16 15 55 15 58 15 32 15 20 14 58 14 48 14 39 14 30 12 37 13 29 13 13 30 12 47 12 27 12 18 12 02 11 12 11 12 11 12 11 10 59 10 54 10 10 37 10 29 15 59 449 9 39 39 444 18 10 46 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 1 17 17 17 17 17 17 17 17 17 17 17 1	17 366 17 266 17 266 17 16 48 16 39 16 15 16 18 16 23 16 15 47 15 41 15 35 15 22 15 01 14 42 11 15 35 15 22 15 01 14 51 15 14 10 15 14 10 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	-1 30 -1 20 -1 100 -1 100 -1 100 -0 542 -0 33 -0 17 -0 09 -0 012 -0 19 -0 02 +0 05 -0 17 -0 09 -0 31 -0 41 -0 5 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 17 -0 19 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0 25 -0	"		,, ,,
FOR S	UN'S ALT.	lst	to 15th n to 31st			+8 +4 -	$\begin{array}{c c} 0 & -8 \\ 4 & -11 \end{array}$	-13 - -14 -	$\begin{vmatrix} 14 & -11 \\ 13 & -9 \end{vmatrix}$	-5 -1	+3 +1 +7 +1	$\begin{array}{c c} 1 & \pm 16 \\ 4 & \pm 18 \end{array}$

^{*} The corrections for the observed altitude of a Star or Planet involves the dip and the refraction; and for the observed altitude of the Sun's lower limb, the dip, refraction, perallax, and mean semulameter, which is taken as bd. A supplementary correction taking account of the variation of the Sun's semulameter in the different months of the year is given at the loot of the main table.

Page 9	38]	
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# TABLE 47.

Longitude Factors

Fine	Change in longitude due to a cha	nge of I' in latit	uđe.
	Latitude.		

			Lati	tude.				
Ð	1	3 :	43	6	8	10	12°	Bear ing.
	,	,			-			
57, 29	57, 30	57. 32	57. 43	57. 61	57. 85	58. 17	58, 57	1
28, 64	28, 64	28, 65	28, 71	28, 79	28, 92	29.08	29, 28	2
19, 08	19, 08	19, 09	19. 13	19. 19	19, 27	19. 38	19. 51	3
14 30 11.43	14. 30 11. 43	14. 31 11. 44	14.34 11.46	14. 38 11. 49	14. 44 11. 54	14. 52 11. 61	14. 62	4
9.51	9. 52	9.52	9, 54	9. 57	9, 61	9. 66	11. 69 9. 73	5 6
5.11	8 15	8, 15	8, 16	8, 19	8. 22	8, 27	8. 33	7
7. 12	7. 12	7. 12	7. 13	7. 15	7.18	7. 22	7. 27	8
5. 67	5 67	5, 68	5, 69	5.70	5. 73	5. 76	5. 80	10
4.71	4. 71	4.71	4.72	4. 73	4. 75	4.78	4. 81	13
4. 01 3. 49	4 01 3 49	4. 01 3. 49	4. 02 3. 50	4. 03 3. 51	4. 05 3. 52	4.07	4. 10	14
3. 08	3 08	3. 08	3, 08	3. 10	3. 52	3. 54 3. 13	3, 56 3, 15	16
2. 75	2.75	2.75	2. 75	2.76	2.77	2.79	2. 81	30
2. 47	2.47	2.48	2.48	2, 49	2, 50	2.51	2, 53	55
2 25	2 25	2. 25	2. 25	2, 26	2. 27	2. 28	2.30	24
2 (6)	2.05	2.05	2.05	2.06	2.07	2.08	2.10	26
1. 73	1.73	1.73	1. 88 1. 74	1, 89 1, 74	1. 90	1.91	1.92	28
1. 60	1.60	1. 60	1. 60	1. 61	1. 75 1. 62	1. 76 1. 63	1.77	30 32
1 45	1.48	1.48	1. 49	1. 49	1. 50	1.50	1.52	34
1.38	1.38	1.38	1.38	1.38	1. 39	1.40	1.41	36
1/28	1, 28	1. 28	1. 28	1, 29	1. 29	1. 30	1.31	38
1 19	1 19 1 H	1 19 1	1. 19 1. 11	1, 20 1, 12	1. 20 1. 12	1. 21	1 22	40
1.04	1.01	1. 04	1.04	1, 04	1. 05	1. 13	1 14 1.06	42
. 97	. 97	. 97	. 97	. 97	.98	. 98	, 99	46
. 90	. 90	. 90	. 90	. 90	. 91	. 91	. 92	48
. 54	. 44	. 81	. 51	. 54	. 85	. 85	. 86	50
.78	. 78	.78	. 78	. 79	. 79	. 79	. 80	52
67	. 67	. 67	. 73 . 68	. 73	. 73	. 74	. 74	54 56
. 63	. 63	. 63	. 63	. 63	. 63	. 63	. 64	58
58	. 58	. 58	. 58	.58	. 58	. 59	. 59	60
. 53	. 53	. 53	. 53	. 53	. 54	. 54	. 54	65
. 49 45	. 19	. 49 ± . 45	. 49 . 45	. 19	. 49	. 50	. 50	64
10	. 10	. 40	, 40	. 10	. 45	. 45	. 46	66
. 36	. 36	. 36	. 36	. 37	. 37	. 37	. 37	70
. 33	. 33	. 33	. 33	. 33	. 33	. 33	, 33	72
. 29	. 29	. 29	. 29	. 29	. 29	. 29	. 29	74
. 21	. 23	. 25	. 25	. 25	. 25	. 25	. 25	76
15	.18	. 18	.18	. 18	. 18	. 18	. 18	78 80
16	. 16	. 16	. 16	. 16	. 16	. 16	. 16	81
11	11	. 14	. 14	. 14	. 14	. 11	. 14	82
12 10	. 12 I0	12	. 12	. 12	. 12	. 12	. 13	83
04	(2)	. 10	. 10	, 10	. 10	. 11	. 11	84 85
07	07	. 07	. 07	. 07	.07	. 09	, 09	86
0.5	05	. 05	. 05	. 05	. 05	. 05	. 05	87
0.3	. 03	. 03	. 03	, 03	. 03	. 03	.04	88
00	02	. 00	, 02	. 02	. 02	, 02	.00	90
0	1	3		6		10	13,	

# Longitude Factors.

#### F is the change in longitude due to a change of 1' in latitude.

Latitude.

ear- ng.	14°	16°	18°	20°	22°	24°	26°	28°	Bear
	,	,	,	,	,	,	,	,	0
1	59. 04	59. 60	60. 24	60. 97	61. 79	62.71	63, 74	64.88	1
2	29. 51	29. 79	30. 11	30. 47	30. 89	31. 35	31. 86	32.43	2
3	19. 67	19.85	20.06	20. 31	20, 58	20. 89	21. 23	21.61	3
4	14. 74	14.88	15.04	20. 31 15. 22	20, 58 15, 42	20. 89 15. 65	15. 91 12. 72	16. 20	4
5	11. 78	11. 89	12. 02 10. 00	12. 16	12. 33	12. 51 10. 41	12. 72	12. 95	5
6	9.81	9. 90	10.00	10. 12	10. 26	10. 41	10. 59 9. 06	10.78	6
7	8. 39	8. 47	8. 56	8. 67	8. 78	8. 91	9.06	9. 22	7
8	8. 39 7. 33 5. 85	7. 40	7. 48	7. 57	7. 67	7. 79	7. 92 6. 31	8. 06	8
10	5, 85	5. 90	5. 96	6. 03	6. 12	6. 21	5. 31	6. 42	10
12	4. 85	4. 89	4. 95 4. 22	8. 67 7. 57 6. 03 5. 01 4. 27	8. 78 7. 67 6. 12 5. 07 4. 33	8. 91 7. 79 6. 21 5. 15 4. 39	5. 23 4. 46 3. 88	5. 33 4. 54	14
14	4. 13	4. 17 3. 63	4. 22	4. 27	4. 33	3. 82	9.40	3.95	16
16	3. 59		3. 67	3. 71 3. 28	3. 76 3. 32	3. 82	2.00	3, 49	18
18	3. 17 2. 83	3. 20 2. 86	3. 24 2. 89	2. 92	2.96	2.01	3. 42 3. 06	3. 11	20
00		2. 86	2. 60	2. 63	2. 67	3. 01 2. 71	2 75	2. 80	22
22	2. 55	2. 38	2. 60	2. 03	2. 67	2. 41	2.50	2. 54	2
24	2. 32 2. 11	2. 34	2. 16	2.35	2.72	2.40	2 28	2.32	24
90	1. 94	1. 96	1. 98	2. 39 2. 18 2. 00	2. 21 2. 03	2. 24 2. 06	2. 09	2. 32 2. 13	29
28 30	1. 78	1. 80	1. 82	1 84	1. 87	1. 90	2. 75 2. 50 2. 28 2. 09 1. 93 1. 78 1. 65	1.96	28 30
32	1. 65	1. 66	1. 68	1. 84 1. 70	1. 73	1. 90 1. 75	1. 78	1. 81 1. 68	3:
34	1. 53	1.54	1. 56	1.58	1. 60	1.62	1.65	1.68	3.
36	1. 42	1. 43	1. 45	1. 47	1 48	1.51	1. 53 1. 42 1. 33 1. 24 1. 15	1 56	3
18	1. 32	1. 33	1, 35	1.36	1. 38 1. 28 1. 20	1.40	1. 42	1. 45 1. 35 1. 26	3:
10	1. 23	1. 24	1. 25	1. 27	1. 28	1.30	1. 33	1.35	40
12	1. 14	1. 15	1. 17	1. 18	1. 20	1. 22	1. 24	1.26	4:
44	1.07	1.08	1. 09	1. 10	1. 12 1. 04	1.13	1. 15	1. 17	44
46	1.00	1.01	1.02	1. 03	1.04	1.06	1. 07 1. 00	1.09	4
48	. 93	94	. 95	. 96	. 97	. 99	1.00	1. 02	48
50	. 87	. 87	. 88	. 89	. 91	. 92	. 93	. 95 . 88	5
52	. 80	. 81	. 82	. 83	. 84	. 85 . 79	.81	. 82	5
54	. 75	. 76	. 76	. 77	. 78	. 74	. 75	.76	5
56	. 69	. 70	. 71	. 66	. 67		. 69	. 71	58
58 60	. 64 . 60	. 65 . 60	. 61	. 61	. 62	. 68 . 63	. 64	. 65	6
62	. 55	.55	. 56	. 57	. 57	. 58	. 59	. 60	6
64	. 50	.51	.51	. 52	. 53	. 53	. 54	. 55	6
66	. 46	. 46	. 47	. 47	. 48	. 49	. 50	. 50	6
68	. 42	. 42	. 42	. 43	. 44	. 44	. 45	. 46	6
70	. 37	. 38	. 38	. 39	. 39	. 40	. 40	. 41	70
72	. 34	. 34	. 34	. 35	. 35	. 36	. 36	. 37	7
74	. 30	. 30	. 30	. 31	. 31	. 31	. 32	. 33	7
76	. 26	. 26	. 26	. 27	. 27	. 27	. 28	. 28	7
78	. 22	. 22	. 22	. 23	. 23	. 23 . 19	. 24	. 24	8
80	. 18	. 18	. 18	. 19	. 19	. 19	. 20	. 20	
81	. 16	. 16	. 17	. 17	. 17	. 17	. 18	. 18	8
82	. 14	. 15	. 15	. 15	. 15	. 15	. 16	. 16	8
83	. 13	. 13	. 13	. 13	. 13	. 13 . 11	12	. 12	8
84	. 11	. 11	. 11	. 11	. 11	. 10	. 12	. 10	8
85	. 09	.09	. 09	. 09	.08	.08	. 08	. 08	8
86	. 07	.07	.07	.06	. 06	.06	.06	. 06	8
87 88	. 05 . 04	.03	. 03	. 04	. 04	.04	.04	, 04	8
89	. 04	.02	. 02	.02	.02	. 02	. 02	. 02	8
90	. 00	.00	. 00	.00	. 00	.00	. 00	. 00	9
_	14°	16°	18°	20°	22°	24°	26°	28°	

### TABLE 47.

### Longitude Factors.

F is the change in longitude due to a change of I' in latitude.

Latitude.

				Lati	tude.				
ar-	30	33	34	36°	38°	40 °	42°	44°	Be in
ı	to, 15	67, 56	69. 10	70. 81	72.70	74. 79	77. 09	79.64	0
2 3 4	33, 07 22-03 16-51	33.77 22.50 16.86	34, 54 23, 02 17, 25	35, 40 23, 59 17, 68	36, 34 24, 21 18, 15	37, 38 24, 91 18, 67	38, 53 25, 68 19, 24	39, 81 26, 53 19, 88	
5 6 7	13, 20 10, 99 9, 40 5, 22	13.48 11.22 9.60	13.79 11.48 9.82	14. 13 11. 76 10. 07	14.50 12.07 10.34	14. 92 12. 42 10. 63	15. 38 12. 80 10. 96	15. 89 13. 23 11. 32	
) 2	6, 55 5, 43 4, 63	8 39 6, 69 5, 55 4, 73	8, 58 6, 81 5, 67 4, 84	8, 79 7, 01 5, 81 4, 96	9 03 7, 20 5, 97 5 09	9 29 7, 40 6, 14 5 24	9. 57 7. 63 6. 33 5. 40	9, 89 7, 88 6, 54 5, 58	1
6	4. 03 3. 55 3. 17	4. 11 3. 63 3. 24	4. 21 3. 71 3. 31	4.31 3.80 3.40	4. 43 3. 91 3. 49	4, 55 4, 02 3, 59	4. 69 4. 14 3. 70	4. 85 4. 28 3. 82	
2 4 6	2 86 2, 59 2, 37	2, 92 2, 65 2, 42	2.98 2.71 2.47	3.06 2.78 2.53	3. 14 2. 85 2. 60	3. 23 2. 93 2. 68	3. 33 3. 02 2. 76	3. 41 3. 12 2. 85	1
0 2	2. 17 2. 00 1. 85	2, 22 2, 01 1, 89	2. 27 2. 09 1. 93	2. 32 2. 14 1. 98	2, 39 2, 20 2, 03	2.45 2.26 2.09	2. 53 2. 33 2. 15	2. 61 2. 41 2. 22	
6	1, 71 1, 59 1, 48 -1, 38	1,75 1,62 1,51 1,41	1, 79 1, 66 1, 54 1, 44	1, 83 1, 70 1, 58 1, 47	1, 88 1, 75 1, 62 1, 51	1, 93 1, 80 1, 67 1, 56	1, 99 1, 85 1, 72 1, 60	2.06 1.91 1.78 1.66	
i	1.28 1.20 1.11	1.31 1.22 1.11	1.34 1.25 1.16	1, 37 1, 28 1, 19	1.41 1.31 1.23	1, 45 1, 35 1, 26	1.49 1.39 1.30	1.54 1.44 1.34	
0 1	1.04 .97 .90	1.06 .99 .92	1.09 1.01 .91	1.11 1.04 .97	1.14 1.06 .99	1. 17 1. 09 1. 02	1. 21 1. 13 1. 05	1. 25 1. 17 1. 09	1
3	.81 .78 .72 .67	. 86 . 79 . 74 . 68	.88 .81 .75 .70	. 90 . 83 . 77 . 71	. 92 . 86 . 79 . 73	. 95 . 88 . 82 . 75	.98 .91 .84	1.01 .94 .87 .80	2
2 1 0	.61 .56 .51	. 63 . 57 . 52	, 64 , 59 , 54	. 66 . 60 . 55	. 67 . 62 . 56	. 69 . 61 . 58	. 72 . 66 . 60	.74 .68 .62	
01	. 47 . 12 . 37 . 33	. 48 . 43 . 38 . 34	. 49	, 50 , 45 , 40	. 51 . 46 . 41	, 53 , 47 , 42	.54 .49 .41	, 56 , 51 , 45	
8	29 24 .24 .20	. 25 . 25 . 21	. 35 . 30 . 26 . 21	. 35 . 31 . 26	.36 .32 .27 .22	. 37 . 32 . 28 . 23	.39 .34 .29	. 40 . 35 . 29	
3	. 18	. 19 . 17 . 14	. 19 . 17 . 15	. 20 . 17 . 15	. 20 . 18 . 16	. 21 . 18 . 16	.21 .19 .16	. 19 . 17	
1 5 6 7	. 12 10 08 .06	. 12 . 10 . 05 . 06	. 13 . 11 . 08 . 06	. 13 . 14 . 09 . 06	. 13	.11	.11	. 15 . 12 . 10	
9	01	03 02 00	.04	, 06 , 04 , 02 , 00	.07	. 07 . 05 . 02 . 00	. 07 . 05 . 02 . 00	. 07 . 05 . 02 . 00	9
	30	372	34	36	35	40	42	41	

### Longitude Factors.

F is the change in longitude due to a change of 1' in latitude.

Latitude.

Bear- ing.	46°	48°	50°	52°	54°	56°	58°	60°	Bear- ing.
0	,					,			0
1	82.47	85. 62	89. 13	93. 05	97.47	102. 5	108.1	114.6	1
2	41. 22	42.80	44. 55	46.51	48, 72	51. 21	54.04	57. 27	2
3	27.47	28. 52	29.68	30.99	32.46	34. 12	36.01	38. 16	3
4	20. 59	21.37	22. 25 17. 78	23. 23 18. 57	24. 33	25. 57	26. 99	28.60	4
5	16. 45	17.08	17. 78	18. 57	19.45	20. 44	21. 57	22. 86	5
6	13. 70	14. 22	14.80	15. 45	16. 19	17.01	17.95	19.03	6
7	11. 72	12. 17	12. 67	13. 23	13.86	14. 56	15. 37	16. 29	8
8	10. 24	10.63	11. 07	11. 56	12. 11	12. 72	13. 43 10. 70	14. 23	10
10 12	8. 16 6. 77	8. 48 7. 03	8. 82 7. 32	9. 21 7. 64	9. 65 8. 00	10. 14 8. 41	8.88	11.34 9.41	12
14	5, 77	5. 99	6. 24	6.51	6.82	7.17	7.57	8.02	14
16	5. 02	5. 21	5. 42	5. 66	5. 93	6. 24	6.58	6. 97	16
18	4. 43	4.60	4. 79	5. 00	5. 24	5. 50	5. 81	6. 15	18
20	3, 95	4. 11	4. 27	4.46	4. 67	4. 91	5. 19	5, 49	20
22	3, 56	3. 70	3. 85	4. 02	4. 21	4. 43	4. 67	4, 95	22
24	3, 23	3, 36	3. 49	3, 65	3. 82	4.02	4.24	4, 49	24
26	2. 95	3. 06	3. 19	3. 33	3. 49	3.66	3. 87	4. 10	26
28	2. 71	2. 81	2. 93	3. 05	3. 20	3. 36	3.55	3.76	28
30	2.49	2. 59	2.69	2.81	2.95	3. 10	3. 27	3.46	30
33	2. 30	2.39	2.49	2.60	2.72	2.86	3.02	3. 20	32
34	2. 13	2. 22 2. 06	2. 31	2.41	2, 52	2.65	2.80	2.96	34
36	1.98	2.06	2. 14	2. 24	2.34	2. 46	2.60	2.75	36
38	1.84	1.91	1.99	2.08	2.18	2. 29	2.41	2.56	38
40	1.71	1.78	1.85	1.94	2.03	2. 13	2. 25	2.38	40
42	1.60	1.66	1.73	1.80	1.89	1. 99	2.09	2. 22 2. 07	42 44
44	1.49	1.55	1.61	1.68	1.76	1. 85	1. 95 1. 82		46
46	1. 39	1.44	1.50 1.40	1. 57 1. 46	1. 64 1. 53	1.73 1.61	1. 82	1.93 1.80	48
48 50	1. 30 1. 21	1, 35 1, 25	1. 40	1. 46	1, 53	1. 51	1. 70	1.68	-50
52	1. 12	1. 23	1. 22	1. 27	1. 43	1. 40	1. 47	1.56	52
54	1. 12	1. 17	1. 13	1. 18	1. 23	1. 30	1. 37	1.45	54
56	. 97	1.03	1.05	1. 10	1. 15	1.21	1. 27	1. 35	56
58	.90	.93	.97	1. 01	1.06	1. 21 1. 12	1. 27 1. 18	1. 25	58
60	.83	.86	.90	.94	.98	1.03	1.09	1.15	60
62	.77	.79	. 83	. 86	. 90	. 95	1.00	1.06	6.5
64	. 70	. 73	. 76	. 79	. 83	. 87	. 92	. 97	64
66	. 64	. 66	. 69	. 72	. 76	. 79	. 84	. 89	66
68	. 58	. 60	. 63	. 65	. 69	. 72	. 76	. 81	68
70	. 52	. 54	.57	. 59	. 62	. 65	. 68	.73	70 72
72	. 47	. 49	.51	. 53	. 55	. 58	. 61 . 54	. 65 . 57	74
74	. 41	. 43	. 45	.46	. 49	. 51 . 45	. 47	.50	76
76 78	. 36 . 31	.37	.39	.40	. 42	.38	.47	. 42	78
80	. 31	. 32	. 33	. 54	. 30	.31	. 33	.35	50
81	. 23	. 26	. 25	. 29 . 26	. 27	. 28	.30	. 32	81
82	. 20	. 24	.20	. 23	24	25	. 26	. 28	82
83	. 18	.18	. 19	. 20	. 24	. 25 . 22	. 23	. 25	83
84	. 15	.16	.16	. 17	. 18	. 19	. 20	. 21	84
85	. 13	. 13	. 14	. 14	. 15	. 16	. 16	. 17	85
86	. 10	. 10	. 11	. 11	. 12	.12	. 13	. 14	86
87	. 08	.08	. 08	. 08	. 09	.09	. 10	. 10	57
88	. 05	. 05	. 05	.06	. 06	. 06	. 07	. 07	88
89	. 02	. 03	. 03	. 03	. 03	.03	. 03	. 03	89
90	. 00	.00	.00	.00	. 00	: 00	. 00	.00	90
	46°	48°	50°	52°	54	56°	58°	60°	

Corr. to Long.= Error in Lat.×F.

# TABLE 48.

Latitude Factors.

f is the change in latitude due to a change of 1' in longitude.

. . . . .

ar- g.	0 °	10	30	10	6 2	s°	10°	13°
	,	,	,	,	,	,	,	,
1	0.02	0.02	0.02	0. 02	0, 02	0.02	0.02	0.02
2	, 03	. 03	, 03	, 03	. 03	. 03	. 03	. 03
3	. 05	. 05	. 05	. 05	. 05	. 05	. 05	. 05
į	. 07	. 07	. 07	. 07	. 07	. 07	. 07	. 07
5	. 09	. 09	.09	. 09	. 09	. 09	. 09	. 09
6	. 11	. 11	. 11	. 10	, 10	. 10	. 10	. 10
7	. 12	. 12	. 12	. 12	. 12	. 12	. 12	. 12
4	. 11	. 11	. 14	. 11	. 11	. 14	. 14	. 14
0	. 18	. 18	, 18 , 21	. 18	. 18	. 17	. 17	. 21
i	. 21	. 25	. 25	, 25	. 25	. 25	. 25	. 24
ti	. 29	. 29	. 29	-29	1.53	. 28	. 28	.28
5	32	. 32	. 32	. 32	. 28	. 32	. 32	. 32
9	36	. 36	. 36	. 36	. 36	. 36	. 36	, 36
2	.40	. 40	. 40	. 40	. 40	. 40	. 40	. 40
1	. 41	. 41	. 44	. 44	. 44	. 41	. 44	. 43
5	. 49	. 49	. 49	. 49	. 49	. 48	. 43	. 48
,	. 53	. 53	. 53	. 53	. 53	. 53	. 52	. 52
1)	. 58	. 58	. 55	. 57	. 57	. 57	. 57	. 56
1	63	. 63	. 63 . 68	. 63	. 62 . 67	. 62 . 67	. 61	. 61
i	. 72	. 72	. 72	.72	. 72	. 72	. 71	. 71
4	. 78	178	. 78	.78	. 78	. 78	. 77	. 76
,	. 84	. 81	.81	. 51	. 5.5	. 83	. 83	. 82
	. 90	. 90	. 90	, 90	. 89	. 89	. 88	. 88
6	. 96	, 96	. 96	, 96	. 96	, 95	. 95	. 94
6	1.01	1, 01	1.04	1, 03	1, 03	1, 03	1.02	1, 01
4	1. 11	1. 11	1.11	1 11	1. 11	1, 10	1. 10	1, 09
0	1. 49	1, 19	1, 19	1. 19	1. 19	1. 18	1. 17	1. 17
2	1, 28	1. 28	1. 28	1, 28 1, 37	1. 27	1. 27 1. 36	1, 26 1, 36	1, 25 1, 35
6	1, 38	1, 38	1, 38	1.45	1, 37 1, 47	1, 36	1, 36	1, 35
-	1 60	1, 60	1, 60	I. 60	1. 59	1. 58	1. 58	1. 57
)	1, 73	1, 73	1. 73	1. 73	1. 72	1, 72	1, 71	1, 69
)	1.85	1, 88	1, 88	1.88	1.87	1. 86	1 85	1.84
	2.05	2.05	2, 05	2. 05	2.04	2.03	2. 02	2.01
3	2 25	2 25	2. 24	2. 24	2. 23	2. 22	2. 21	2, 20
١	2.48	2.45	2, 47	2. 47	2, 16	2 45	2.44	2. 42
:	2.75	2.75	2, 75	2.74	2. 73	2. 72	2. 71	2. 69
	3.19	3.08	3 08	3, 07	3, 66	3, 05 3 45	3. 03	3. 01
ì	1 01	1.01	4 01	4 00	3. 99	3. 97	3. 95	3, 92
	1.70	1.70	1.70	4 69 4	1.68	1 66	4 63	4. 60
	5 67	5. 67	5 67	5, 66	5.61	5. 62	5, 59	5, 55
	6.31	6.31	6 31	6, 30	6, 28	6 25	6. 22	6. 18
- 1	7 12	7 11	7. 11	7 10	7. 07	7. 05	7. 01	6.96
1	8 15	8 11	8 11	8 13	8 10	8, 07	8, 02	7. 97
w.	9.52	9.51	9.51	9 49	9 16	9 42	9. 37	9 31
T.	11 43	11 43	11 42	11.40	11. 37	11. 32	11. 25	11. 18
	14 30 19 08	14 30	14 29 19 07	14 27 19 03	11 22 IS 98	14 46 18 91	14 08	13, 99 18, 66
	25 60	28 63	28 62	19 03 28 57	28 48	28 35	18, 79 28, 20	28, 01
	57 29	57 28	57 26	57, 15	56 98	56 73	56 42	56, 04
	0 '		9.7	p	6	42	10 '	122

# Latitude Factors.

f is the change in latitude due to a change of 1' in longitude.

#### Latitude.

ear- ng.	14°	16°	18°	20°	22°	24°	26°	28°	Bean ing
	,								-
	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1
1 2 3	. 03	. 03	. 03	. 03	. 03	. 03	. 03	. 03	2
3	. 05	.05	. 05	. 05	. 05	. 05	. 05	05	3
4	. 07	. 07	, 07	.07	. 06	.06	.06	. 05	4
4 5	. 08	.08	.08	.08	. 08	.08	.08	. 08	5
6	. 10	. 10	. 10	. 10	10	. 10	.09	. 09	6
6	. 12	. 12	. 12	. 12	. 10	. 11	.11	.11.	7
8	. 14	. 14	. 13	. 13	. 13	. 13	. 13	. 12	8
10	. 17	. 17	.17	. 17	, 16	. 16	. 16	. 16	10
12	. 21	. 20	. 20	. 20	. 20	. 19	. 19	. 19	12 14
14	. 24	. 24	. 24	23	23	23	. 22	. 22	14
16	. 28	. 28	. 27	. 23 . 27	. 23 . 27	. 23	. 26	. 25	16
18	, 32	.31	. 31	. 30	. 30	. 30	.29	. 29	18
20	. 35	. 35	. 35	. 34	. 34	. 33	. 29	. 32	20
55	. 39	. 39	.38	. 38	. 38	. 37	. 36	. 36	22
34	. 43	. 43	.42	. 42	. 41	. 41	. 40	. 39	20 22 24
26	. 47	. 47	. 46	. 46	. 45	. 45	. 44	. 43	26 28 30
28 30 32	. 52	.51	.51	. 50	. 49	. 49	. 48	. 47	28
30	. 56	. 56	.55	. 54	. 53	. 53	. 52	. 51	36
32	. 61	. 60	. 60	. 59	. 58	. 57	. 56	. 55	32
34	. 65	. 65	. 64	. 63	63	. 62	. 61	. 59	34
36	. 70	. 70	. 69	. 68	. 63 . 68	. 66	. 65	. 64	36
38	. 76	.75	.74	. 74	.72	.71	. 70	. 69	38
40	. 81	.81	.80	. 79	. 78	. 77	. 75	. 74	40
42	, 88	.87	.85	. 85	. 83	. 82	. 81	. 79	42
44	. 93	. 93	.92	, 91	. 89	88	. 87	. 85	44
46	1.01	. 93 1. 00	. 99	. 97	. 89	. 95 1. 02 1. 09	1.00	. 91	46
48	1, 08	1, 07	1.06	1.04	1. 03	1.02	1, 00	. 98 1. 05	48
50 52	1, 16	1, 15	1. 13	1. 12	1. 10	1. 09	1 07	1.05	50 52
52	1. 24	1, 23	1. 22 1. 31	1. 20	1. 19	1. 17	1, 15	1, 13	52
54	1, 24 1, 34	1. 32	1. 31	1. 29	1, 28	1, 26	1. 24	1. 22	54
56	1.44	1. 43	1.41	1. 29 1. 39	1, 28 1, 38	1, 26 1, 35	1.33	1. 13 1. 22 1. 31	56
58	1.55	1.54	1. 52	1. 50	I. 48 1. 61	1. 46 1. 58	1. 07 1. 15 1. 24 1. 33 1. 44 1. 56	1. 41 1. 53	58
60	1, 68	1, 67	1, 65	1. 63	1.61	1. 58	1, 56	1. 53	66
62	1.83	1.81	1.79	1, 77	1. 74	1. 72 1. 87	1, 69 1, 84	1.66	62
64	1. 99	1. 97	1. 95	1. 93	1. 90	1.87	1.84	1.81	64
66 68	2. 18 2. 40	2. 16	2 14	2. 11	2.08	2. 05	2.02	1. 98 2. 18	66
68	2.40	2. 38	2. 35	2. 33	2. 30	2. 26	2. 23	2. 18	68
70	2. 67	2, 64	2. 61	2. 58	2. 08 2. 30 2. 55	2. 51	2.47	2. 43	70
72	2. 99	2.96	2. 93	2.89	2.85	2. 81	2, 77	2.72	70 72 74
74	3. 38	3. 35	3, 32	3. 28 3. 77	2. 85 3. 23 3. 72	2. 26 2. 51 2. 81 3. 19	2. 02 2. 23 2. 47 2. 77 3. 14	2. 43 2. 72 3. 08	74
76	3. 89	3.86	3. 81	3. 77	3. 72	3. 66	3. 61	3, 54	76
78	4. 56	4, 52	4.47	4, 42	4. 36	4, 30	4. 23 5. 10	4. 15	78
80	5, 50	5, 45	5, 39	5. 33	5, 26	5. 18	5. 10	5, 01	80
81	6. 13	6. 07	6.01	5. 93	5. 86	5. 77	5, 68	5. 58	81
82 83 84	6, 90	6.84	6. 77	6. 69	6. 60	6. 50	6. 40 7. 32	6. 28 7. 19	83
83	7. 90	7.83	7.75	7. 65	7. 55	7. 44	7. 32	7. 19	84
84	9. 23	9. 15	9. 05	8. 94	8.82	8. 69	8. 55	8, 40	84
85 86 87	11.09	10.99	10. 87 13. 60	10. 74	10. 60	10. 44	10. 26 12. 86 17. 15	10.09	85
86	13.88	13. 75	13.60	13. 44	13. 26	13. 07	12.86	12. 63	86
87	.18. 51	18. 34	18. 15	17. 93	17. 69	17. 43	17. 15	16. 85	
88	27.78	27. 52 55. 07	18. 15 27. 23 54. 49	26. 91	26. 55	26. 16	25. 74	25, 28 50, 58	88
89	55. 59	55. 07	54. 49	53. 84	53. 12	52, 33	51, 50	au. as	
	14°	16°	18°	20°	22°	24°	26°	28°	

Corr. to Lat .= Error in Long. ×f.

### TABLE 48.

### Latitude Factors.

f is the change in latitude due to a change of 1' in longitude.

Latitude.

30°	32°	34°	36°	38°	40°	42°	44°
/						,	
0.02	0.01	0, 01	0. 01	0.01	0. 01	0.01	0, 01
. 03	. 03	. 03	. 03	. 03	. 03	. 03	. 03
. 05	. 05	. 0-1	. 04	. 04	. 04	. 04	. 04
. 06	. 06	. 06	. 06	. 06	. 05	. 05	. 05
. 05	. 07	. 07	. 07	. 07	. 07	. 07	. 06
. 09	. 09	. 09	. 09	. 08	. 08	. 08	. 08
. 11	. 10	. 10	. 10	. 10	. 09	. 09	, 09
. 12	. 12	. 12	. 11	. 11	. 11	. 10	. 10
. 15	. 15	. 15	. 14	. 14	. 14	. 13	. 13
. 18	. 18	. 18	. 17	. 17	. 16	. 16	. 15
. 22	. 21	. 21	. 20	. 20	, 19	. 19	. 18
. 25	. 24	. 24	. 23	. 23	, 22	. 21	. 21
. 28 4	. 25	. 27	. 26	. 26	. 25	. 24	. 23
. 32	. 31	. 30	. 29	. 29	. 28	. 27	. 26
. 35	. 34	. 34	. 33	. 32	. 31	. 30	. 29
. 39	. 38	. 37	. 36	. 35	. 34	. 33	. 32
. 42	. 11	. 40	. 40	. 38	. 37	. 36	. 35
. 46	. 45	. 44	. 43	. 42	. 41	. 40	. 38
. 50	. 49	.48	. 47	. 45	. 44	. 43	. 41
. 54	. 53	. 52	. 51	. 49	. 48	. 47	. 45
. 58	. 57	. 56	, 55	. 53	. 52	. 50	. 49
. 63	. 62	. 60	. 59	. 57	. 56	. 54	. 52
. 68	. 66	. 65	. 63	, 62	. 60	. 58	. 50
7.2	. 71	. 69	. 68	. 66	. 64	. 63	, 60
. 78	. 76	. 75	. 73	. 71	. 69	. 67	, 65
83	. 82	. 80	. 78	. 76	. 74	. 72	. 69
90	. 55	. 86	. 81	. 82	. 79	. 77	. 74
. 96	. 93	. 92	. 90	. 55	. 85	. 83	. 80
1.03	1.01	. 99	. 96	. 94	. 91	. 88	. 86
1 11	1.09	1.06	1.04	1.01	. 98	, 95	. 92
1.19	1. 16	1.11	1.11	1.08	1.05	1.02	. 99
1/28	1.26	1.23	1, 20	1. 17	1. 14	1, 10	1, 07
1 39	1.36	1.33	1, 30	1.26	1, 23	1. 19	1, 15
1 19	1, 47	1.44	1, 40	1. 37	1, 33	1. 29	1, 25
1 63	1.59	1.56	1.52	1.48	1, 44	1.40	1, 35
1.78	1.71	1.70	1, 66	1.62	1, 57	1. 52	1.48
1.95	1.91	1, 85	1, 82	1.77	1, 72	1.67	1, 62
2 14	2.10	2, 05	2, 00	1.95	1, 90	1.84	1.75
2.38	2.33	2.25	9 99	2. 17	2, 10	2.04	1, 98
2.67	2, 61	2, 55	2.50	2.43	2, 36	2, 29	2. 21
3 02	2, 96	2, 89	2, 52	2, 75	2.67	2, 59	2.51
3 17	3, 40	3, 33	3, 25	3, 16	3, 07	2, 98	2 59
4. 07	3.99	3, 90	3. 81	3, 71	3, 60	3, 50	3, 35
3.91	3, 81	1.70	1, 59	4.47	1. 34	4, 22	4.05
5 37	5.35	5, 21	5. 11	1.98	4.84	4, 69	4, 54
6 [6	6, 63	5, 90	5, 76	5 61	5. 45	5. 29	5, 12
7.00	6.91	6, 75	6, 59	6. 12	6, 24	6, 05	5. 80
8 21	5.07	7, 93	7, 70	7.50	7, 29	7, 07	6, 81
9.90	9 69	9.48	9, 25	9. 01	4. 75	5, 49	8, 22
12 39	12 13	11, 86	11. 57	11 27	10, 95	10, 63	10, 29
16.52	16 18	15, 82	15, 44	15 01	11, 62	11. 18	13. 73
24.80	23.28	23.71	23, 17	22.56	21, 93	21. 28	20, 60
19 61	18.58	47 50	46 36	35 TF	43, 98	42, 58	41. 21
30	32	31	36	38	40	42	

# TABLE 48.

### Latitude Factors.

f is the change in latitude due to a change of 1' in longitude.

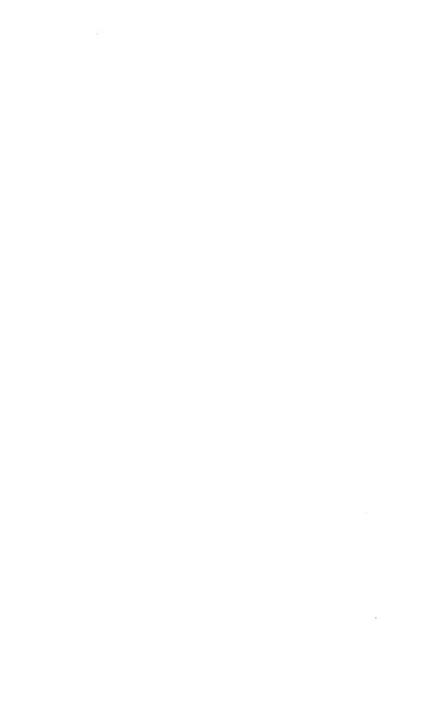
Latitude.

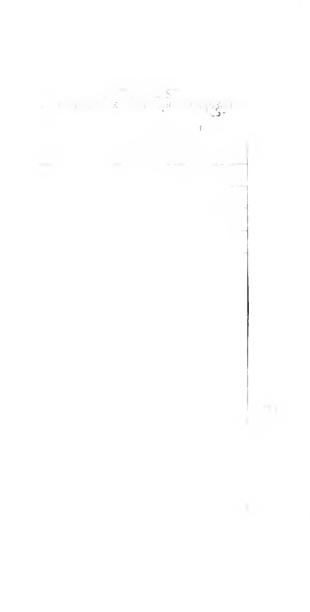
ear- ng.	46°	48°	50°	52°	54°	56°	58°	60°	Bear ing.
-		,				,	,		
1	0.01	0.01	0.01	0.01	0.01	0.01	0, 01	0.01	1
2	. 02	. 02	. 02	. 02	. 02	. 02	. 02	. 02	2
2 3 4	. 04	. 03	. 03	. 03	. 03	. 03	. 03	. 03	3
4	. 05	. 05	. 04	. 04	. 04	. 04	. 04	. 03	4
5 6	.06	.06	. 06	. 05	. 05	. 05	. 05	. 04	5 6
6	. 07	. 07	. 07	.06	. 06	. 06	.06	. 05	6
7	. 08	. 08	. 08	. 08	. 07	. 07	.06	.06	8
8	. 10	.09	.09	.08	.08	.08	.07	.09	10
10 12 14	. 12	. 12	.11	.11	. 13	.12	.11	. 11	13
14	.17	.17	.16	. 15	. 15	, 14	.13	. 12	14
16	. 20	. 19	.18	.18	. 17	. 16	. 15	.14	16
18	. 23	.22	.21	.20	. 19	. 18	. 17	.16	18
20 22	. 25	. 24	. 23	. 22	. 21	90	. 19	. 18	20
22	. 28	. 27	. 26	. 25	. 24	. 23	. 21	. 20	22
24	. 31	. 30	. 29	. 27	. 26	. 25	. 24	. 22	24
26	. 34	. 33	. 31	. 30	. 29	. 27	. 26	. 24	26
24 26 28 30	. 37	. 36	. 34	. 33	. 31	. 30	. 28	. 27 . 29	28 30
30	. 40	. 39	. 37	. 36	. 34	.32	. 31	. 31	32
32	. 43	. 42	. 40	. 38	. 37	.35	. 33	. 34	34
34 36	. 47	. 45	. 43	. 41	, 43	. 41	.38	. 36	36
38	. 54	. 52	. 50	.48	. 46	. 44	.41	. 39	38
38 40 42	.58	. 56	. 54	.52	. 49	.47	. 44	. 42	40
42	. 63	. 60	.58	.56	. 53	. 50	. 48	. 45	42
44	. 67	. 65	. 62	. 60	. 57	. 54	. 51	. 48 . 52	44
46	. 72	. 69	. 67	. 64	. 61	. 58	. 55	. 52	46
48 50	. 77	. 74	. 71	. 68	. 65	. 62	. 59	. 56	48
50	. 83	. 80	. 77	. 73	. 70	. 67	. 63	. 60	50
52	. 89	. 86	. 82	. 79	. 75	. 72	. 68	. 64	52 54
54 56	. 96	. 92	. 88	. 85	. 81	. 77	. 73 . 79	. 69 . 74	56
36	1.03	. 99	. 95	. 91	. 87	. 83 . 89	. 85	. 80	58
58 60	1. 11 1. 20 1. 31	1. 07 1. 16	1.03 1.11	. 99 1. 07	. 94 1. 02	97	. 60	87	60
62	1. 20	1. 26	1. 21	1.16	1.11	. 97 1. 05	. 92 1. 00	. 94 1. 03	63
64	1. 42	1. 37	1. 32	1. 26	1. 20	1. 15	1.09	1.03	64
66	1.56	1.50	1. 44	1.38	1. 32	1.26	1. 19 1. 31	1. 12	66
68	1.72	1.66	1.59	1.52	1.45	1.38	1. 31	1. 24 1. 37	68
68 70	1. 91	1.84	1.77 1.99	1.69	1.61	1.54	1.45	1. 37	70
72	2.14	2.06	1.99	1.89	1.81	1.72	1.63	1. 54 1. 74	68 70 72 74
74	2. 42 2. 79	2.33	2, 24	2. 15 2. 47	2.05	1, 95	1.85	1.74	76
76	2. 79	2.68	2.58	2.47	2.36	2, 24 2, 63	2.13	2.01	78
78	3. 27	3, 15	3.02	2.90	2. 77 3. 33	3. 17	2. 49 3. 01	2. 01 2. 35 2. 84	80
78 80 81 82	3. 94 4. 39	3. 80 4. 23	3.70 4.06	3.49 3.89	3. 33	3. 53	3. 35	3. 16	81
91	4. 39	4. 23	4.57	4.38	4.18	3, 98	3. 77	3.56	83
83	5. 66	5.45	5. 24	5. 01	4.79	4. 56	4. 32	4.07	83
84	6.61	6.37	6. 12	5. 86	5. 59	5.32	5.04	4.76	84 85
85	7. 94	7.65	7.35	7.04	6.72	6.39	6.06	5.72	85
86	9, 94	9.57	9.19	8.81	S. 41	8.00	7.58	7. 15	86
87	13. 26	12.77	12. 27 18. 41	11.75	11. 22	10.67	10. 11	9.54	87 88
88	19.89	19.16	18.41	17.64	16.83	16.01	15. 17	14. 32 28. 65	89
89	39. 80	38. 34	36. 83	35. 24	33. 68	32. 04	30. 36	28. 00	
	46°	48°	50°	52°	54°	56°	58°	60°	

Corr. to Lat. = Error in Loug. ×f.



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ASTRONOMY BIRRAPT

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