HANDBOOK OF STANDARD RETICLE PATTERNS BY MANUFACTURER

COMPILED BY D. ANDREW KOPAS

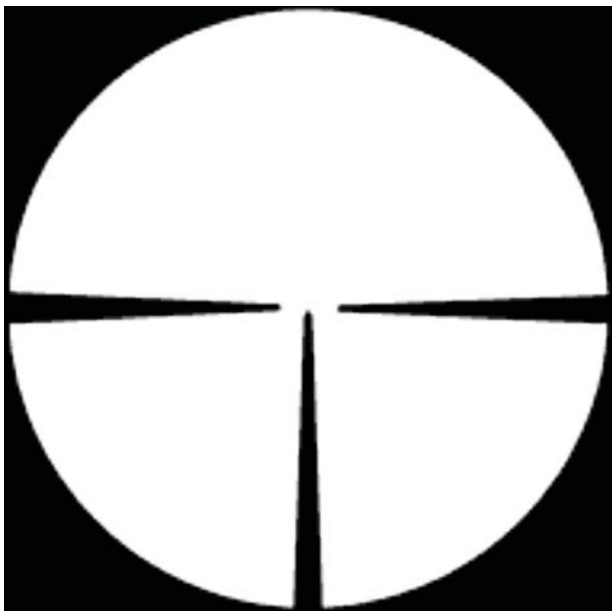
ISSUED 10/22/05, UPDATED 3/01/2010 VERSION 8

The purpose of this handbook is to aid military, law enforcement, and civilian precision shooters in the selection of the proper reticle pattern for their respective mission. Given the wide variety of different reticle patterns used by the various scope manufacturers represented herein, including most of them in a single document can help to simplify the selection process. The reader should verify the current status of the reticle with the manufacturer since some patterns may no longer be in production.

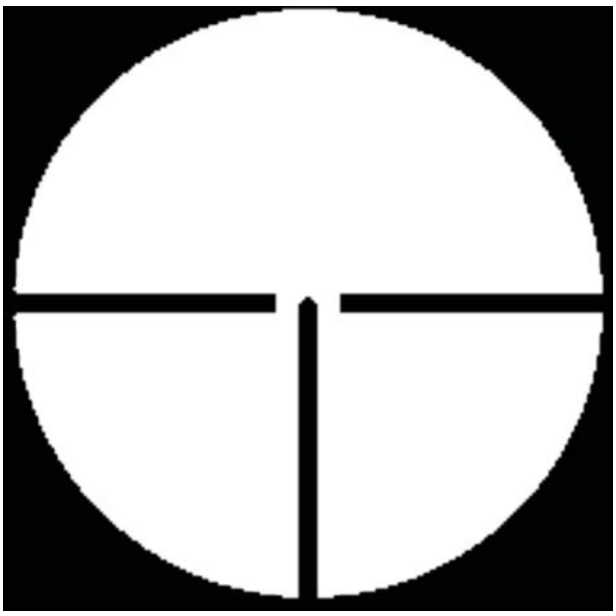
Special thanks to all of the rifle scope and reticle manufacturers listed at the end of this handbook for the reticle pattern schematics illustrated in this compilation.

D. Andrew Kopas

Schmidt and Bender Reticle Patterns



Reticle No. 1
Fixed power only



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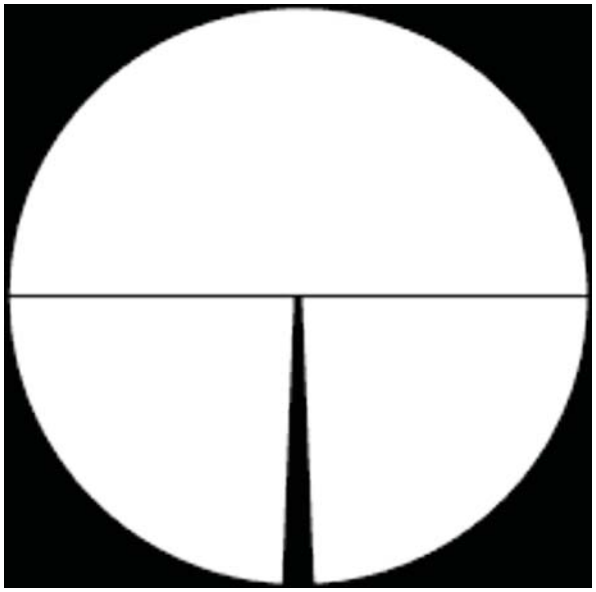

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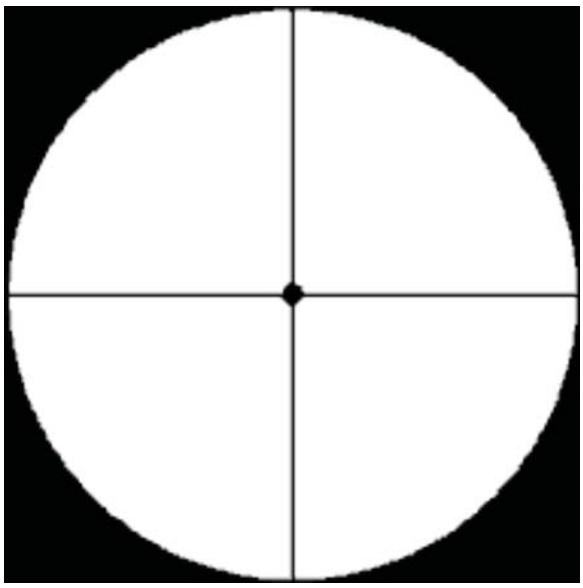
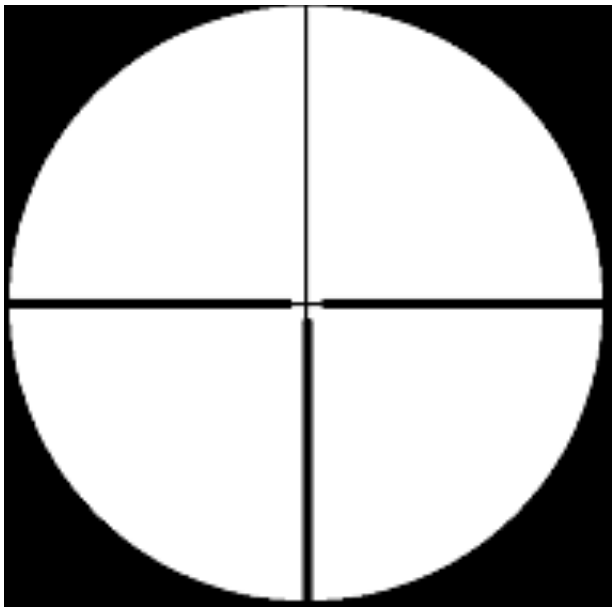


Reticle No. 3

Schmidt and Bender Reticle Patterns



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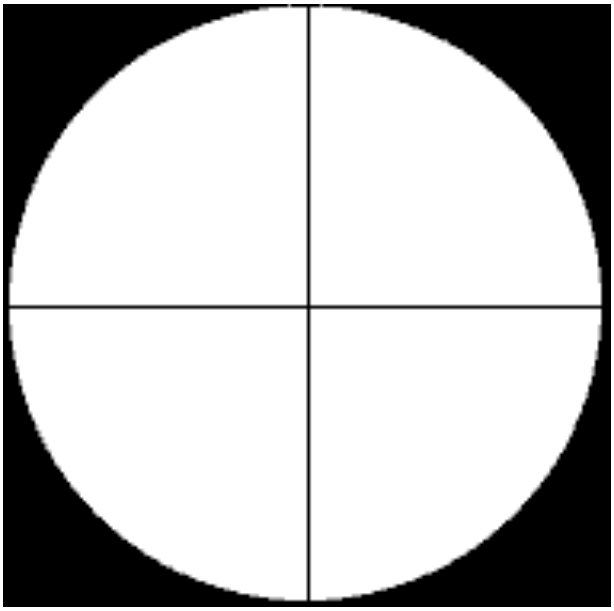
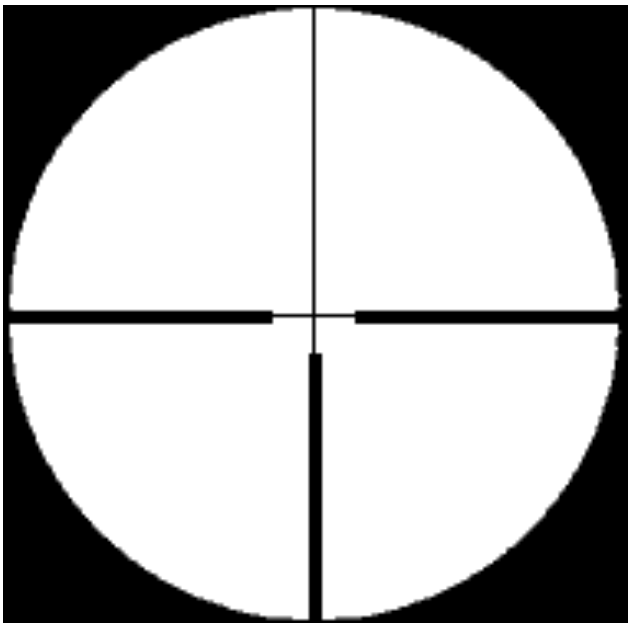
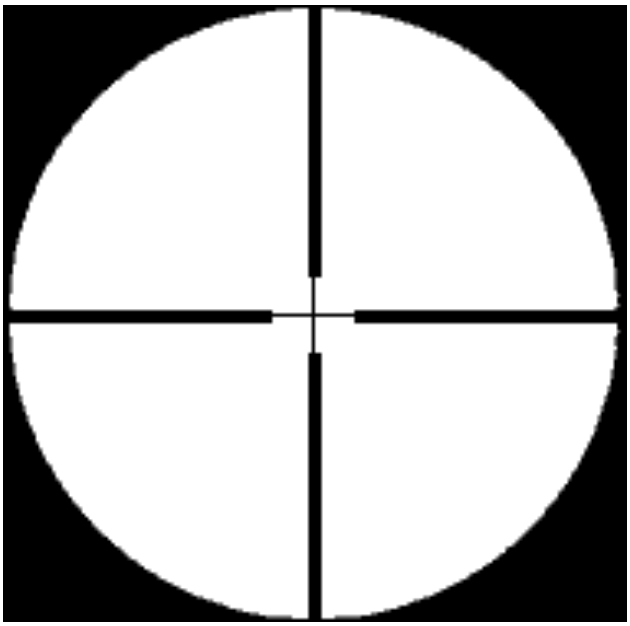


Reticle No. 6 fine (varmint)

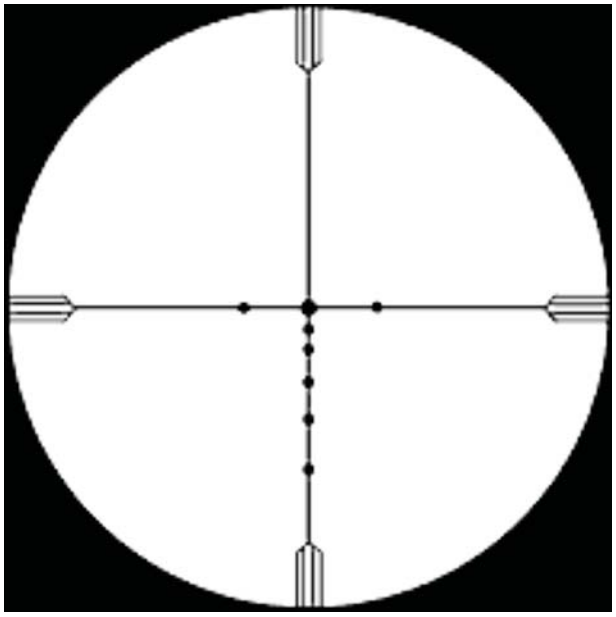


Reticle No. 7

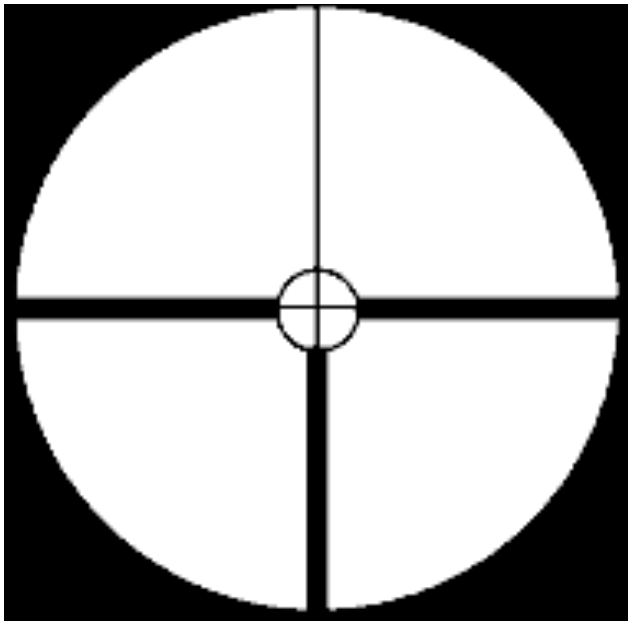


Reticle No. 8

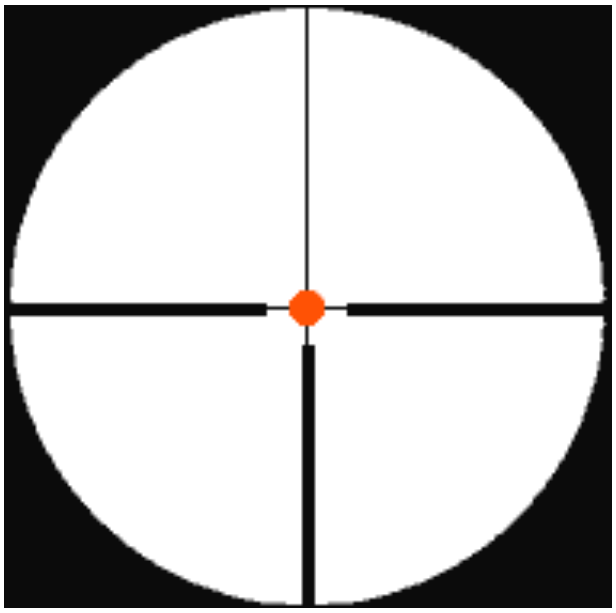
Schmidt and Bender Reticle Patterns



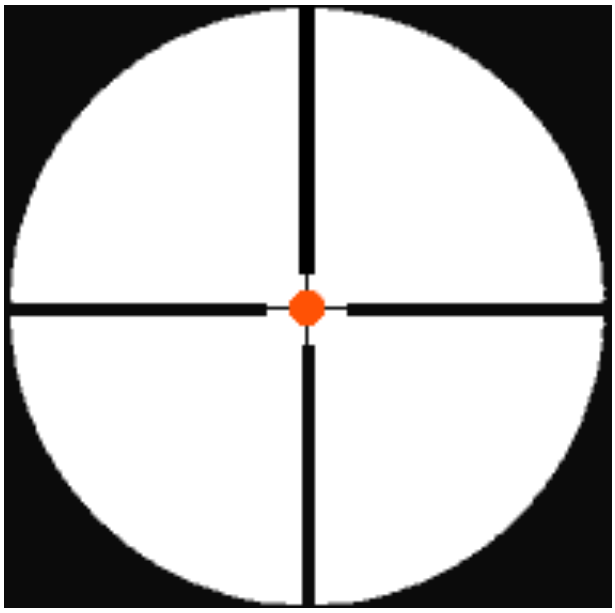
Reticle No. 8 Dot (varmint)



Reticle No. 9

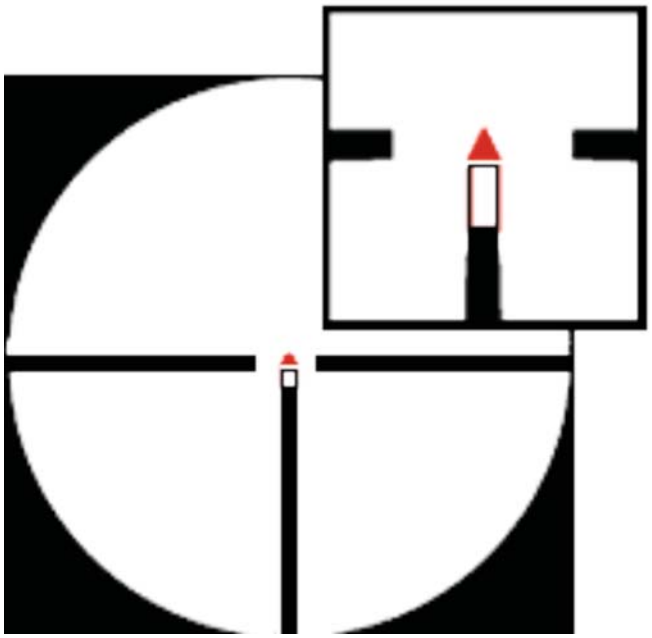


Reticle No. 7 FlashDot

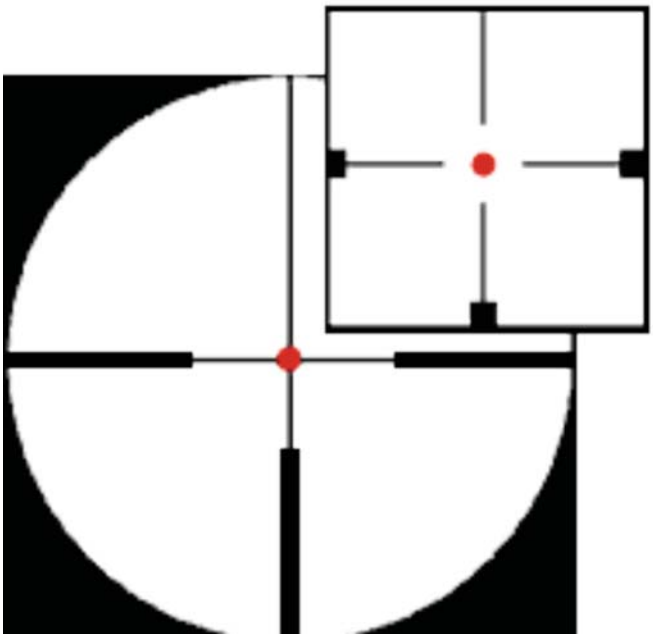


Reticle No. 8 FlashDot

Schmidt and Bender Reticle Patterns - Illuminated



Reticle No. L1



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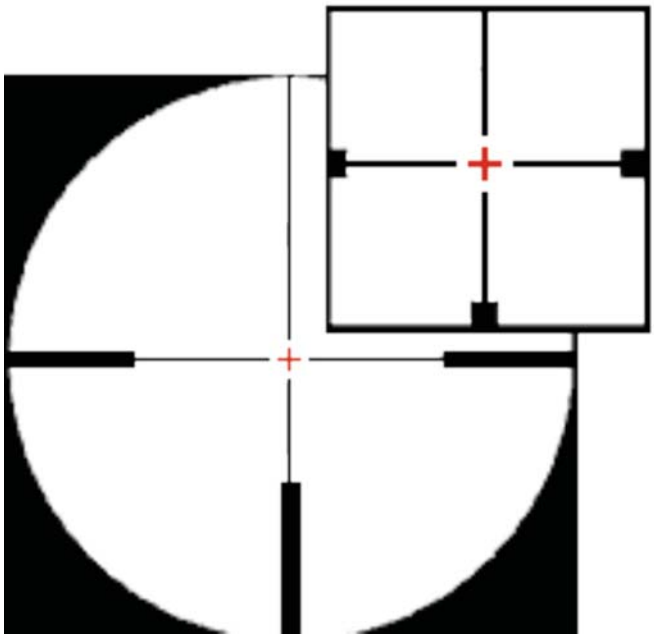

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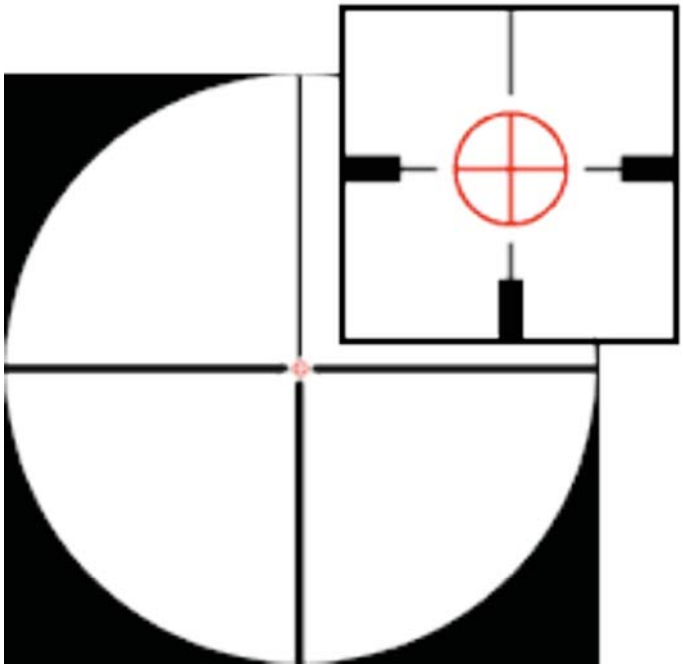
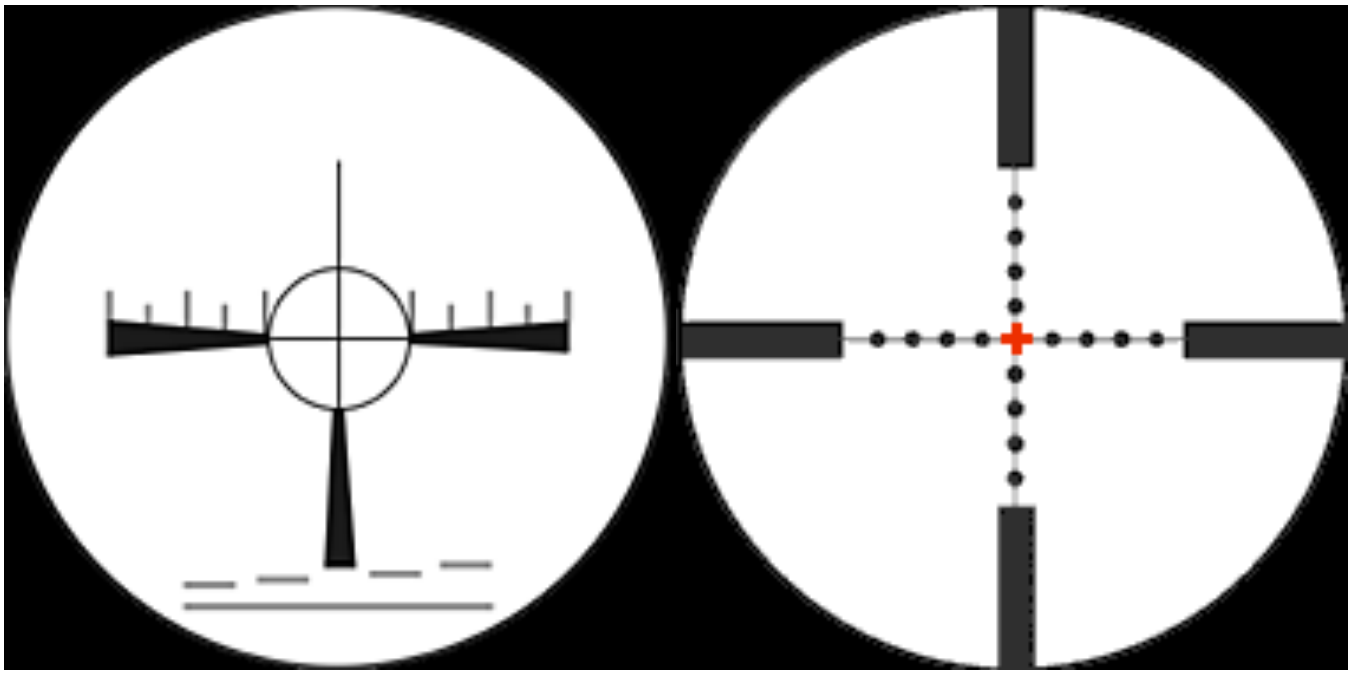


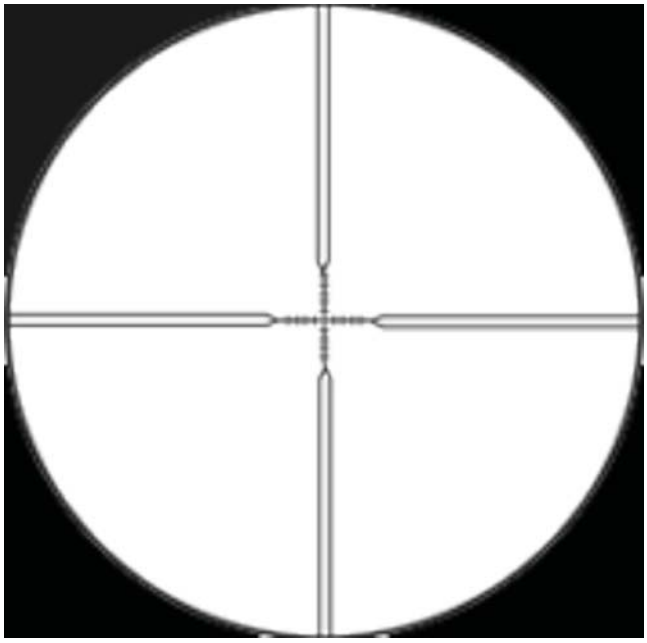
Reticle No. L9

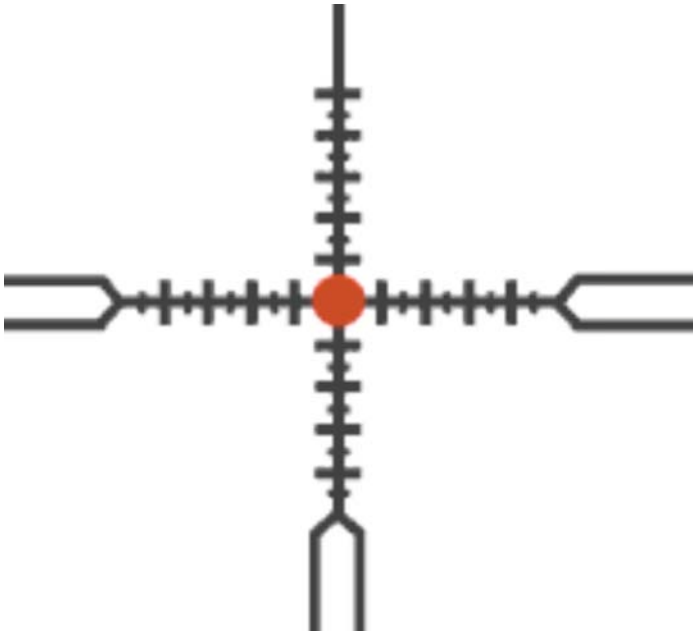
Schmidt and Bender Reticle Patterns – Police Marksman



P-1 (Bryant) reticle

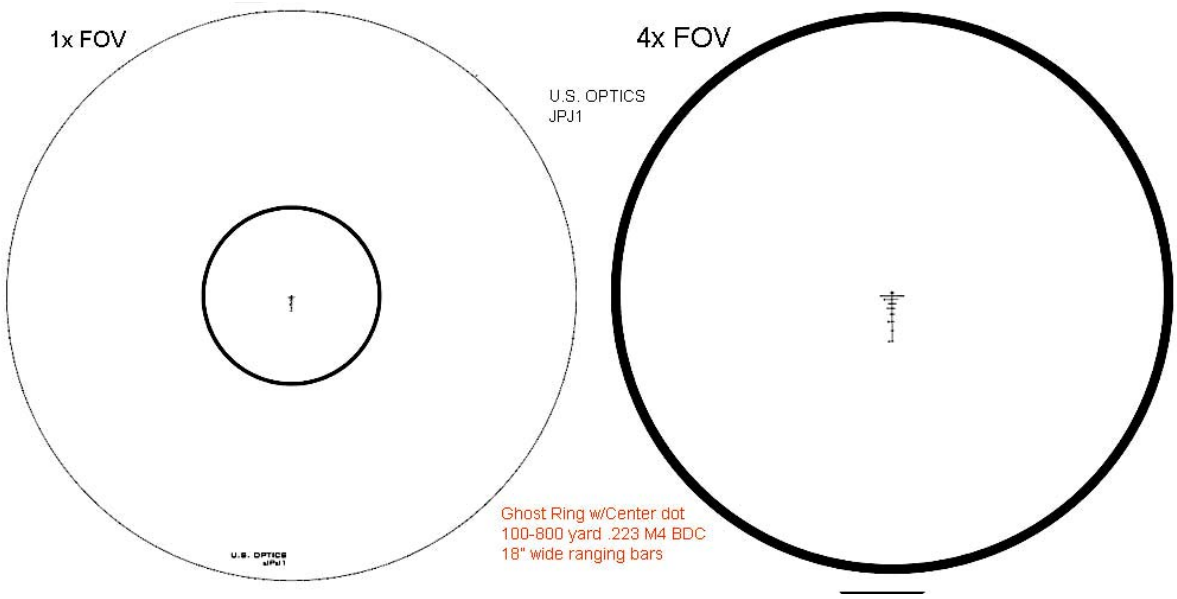
P-3 Mil-dot illuminated

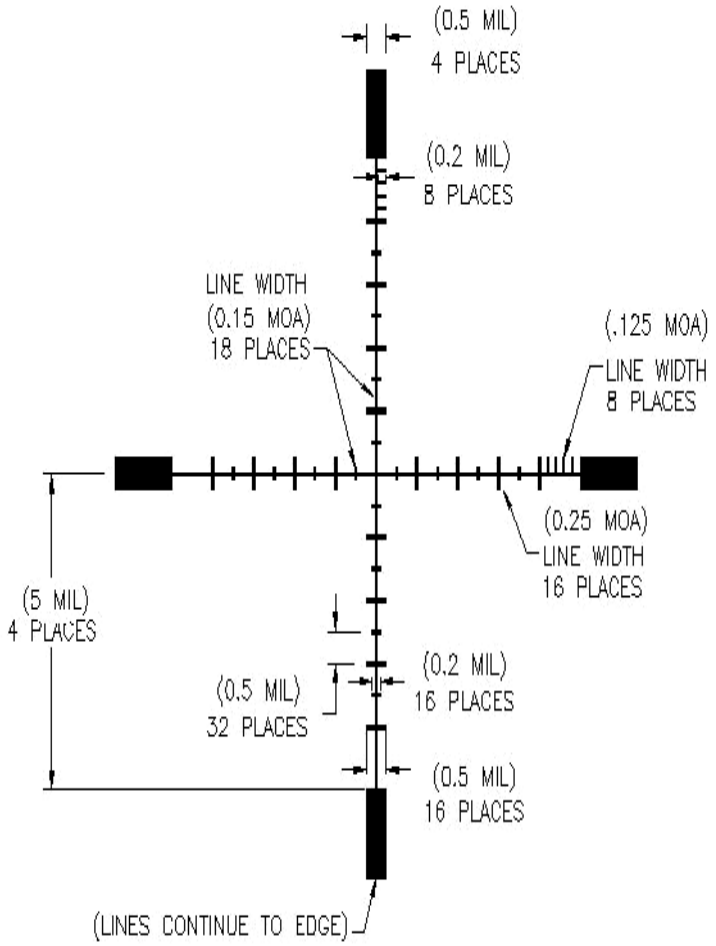




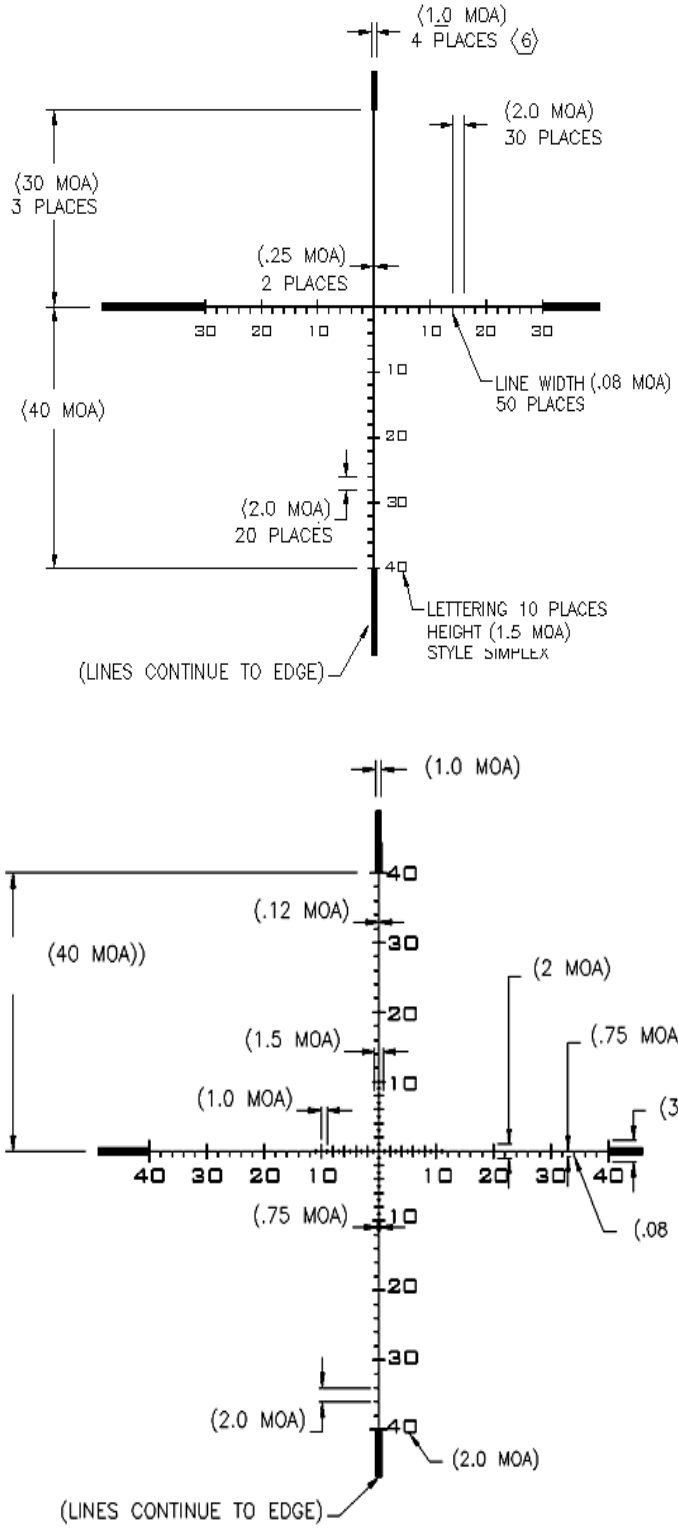
CQB Reticle

US OPTICS Reticle Patterns



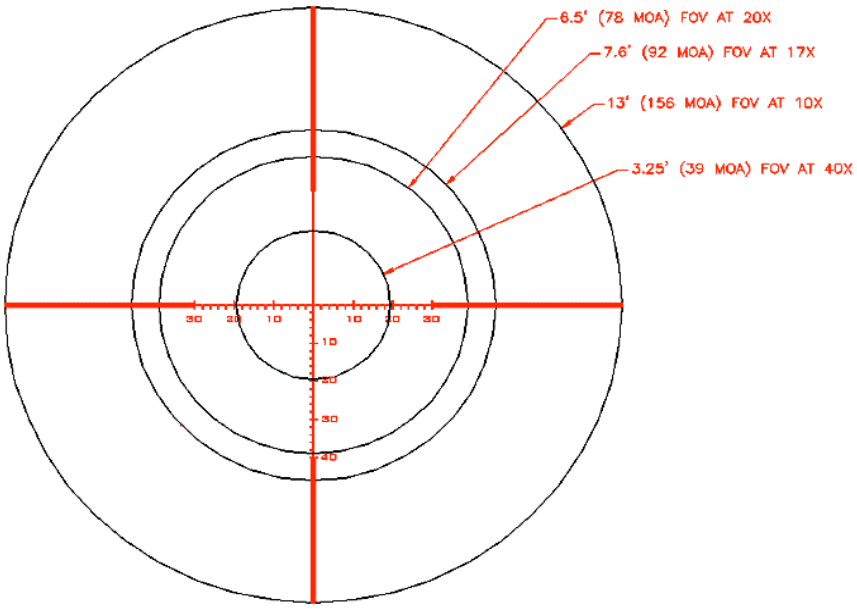


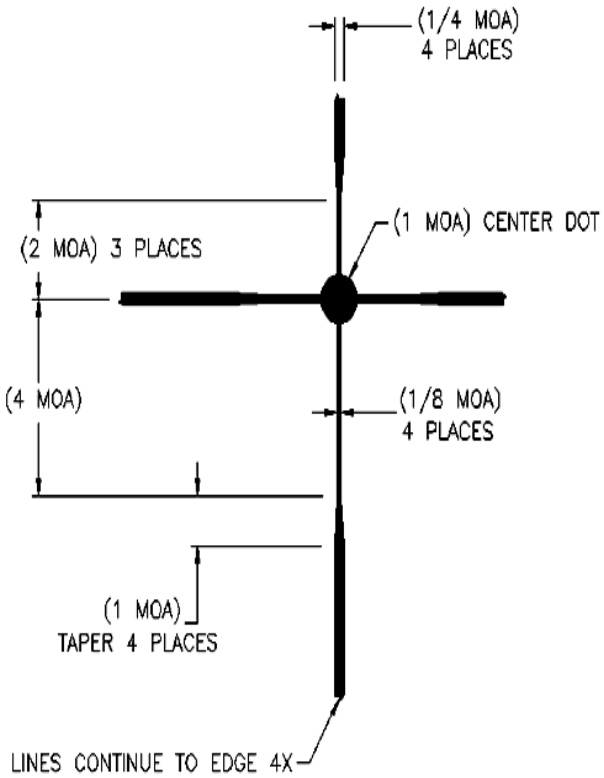
US OPTICS Reticle Patterns



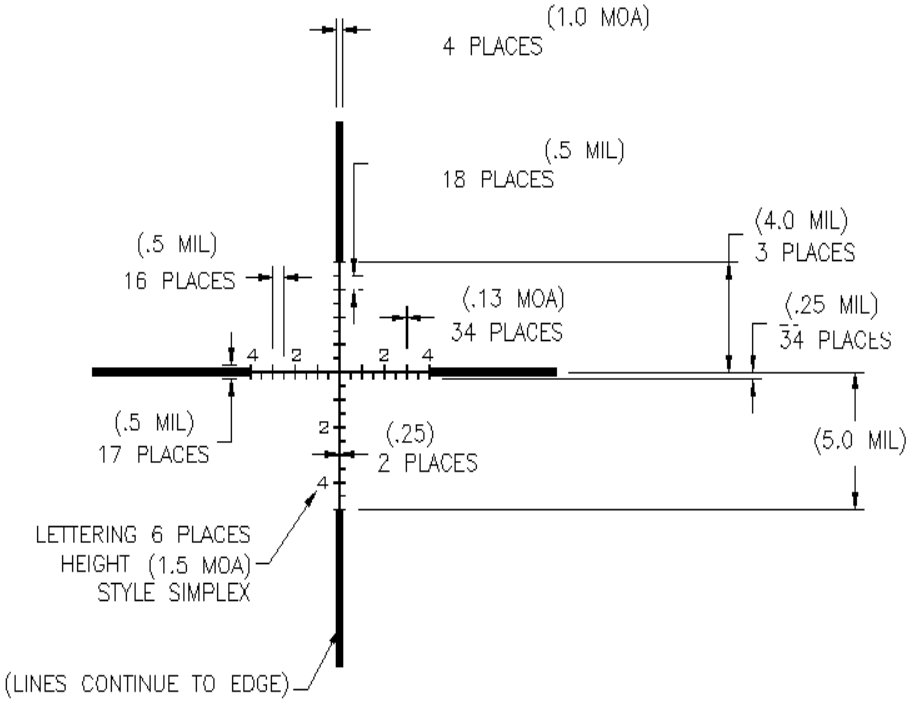
US Optics PCMOA Reticle

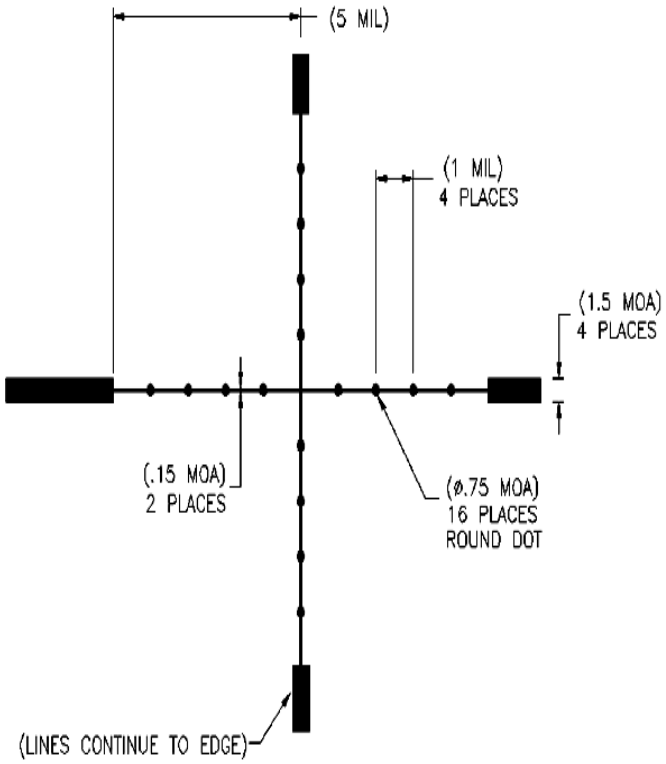
US OPTICS Reticle Patterns



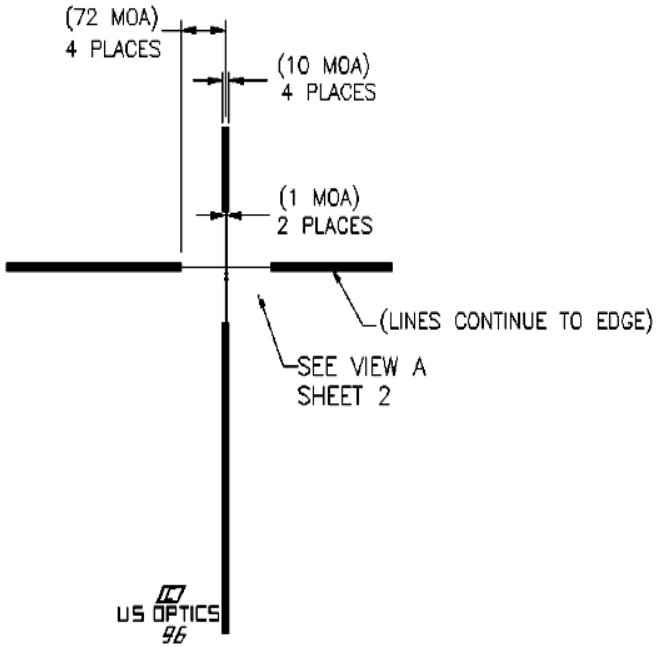


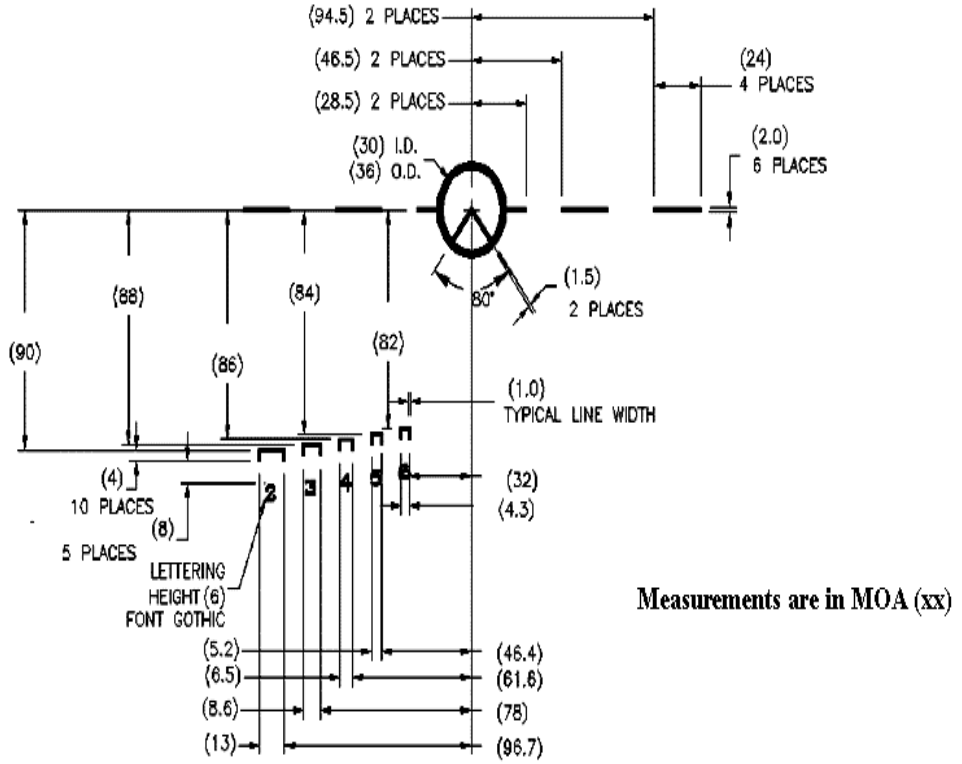
US OPTICS Reticle Patterns





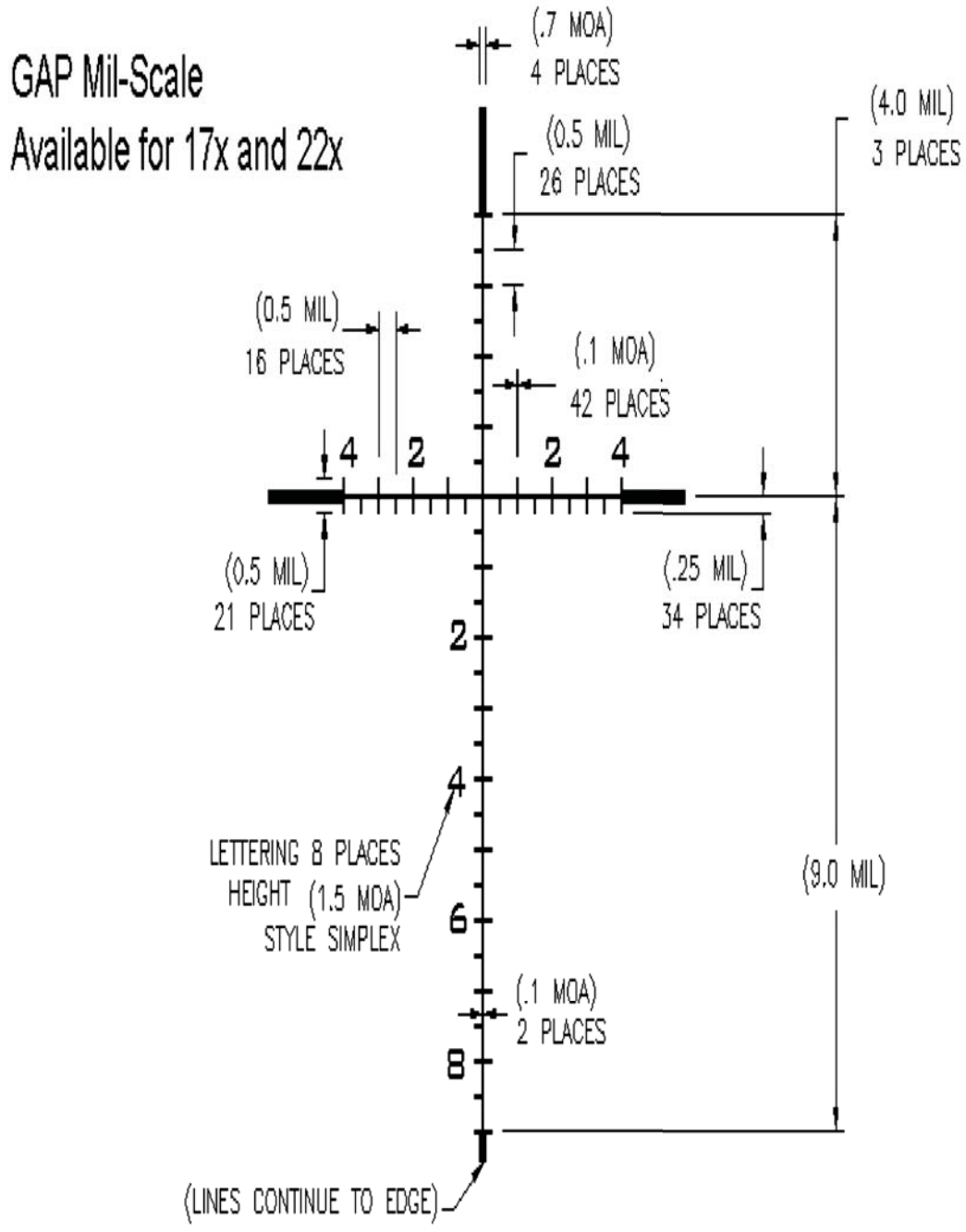
US OPTICS Reticle Patterns



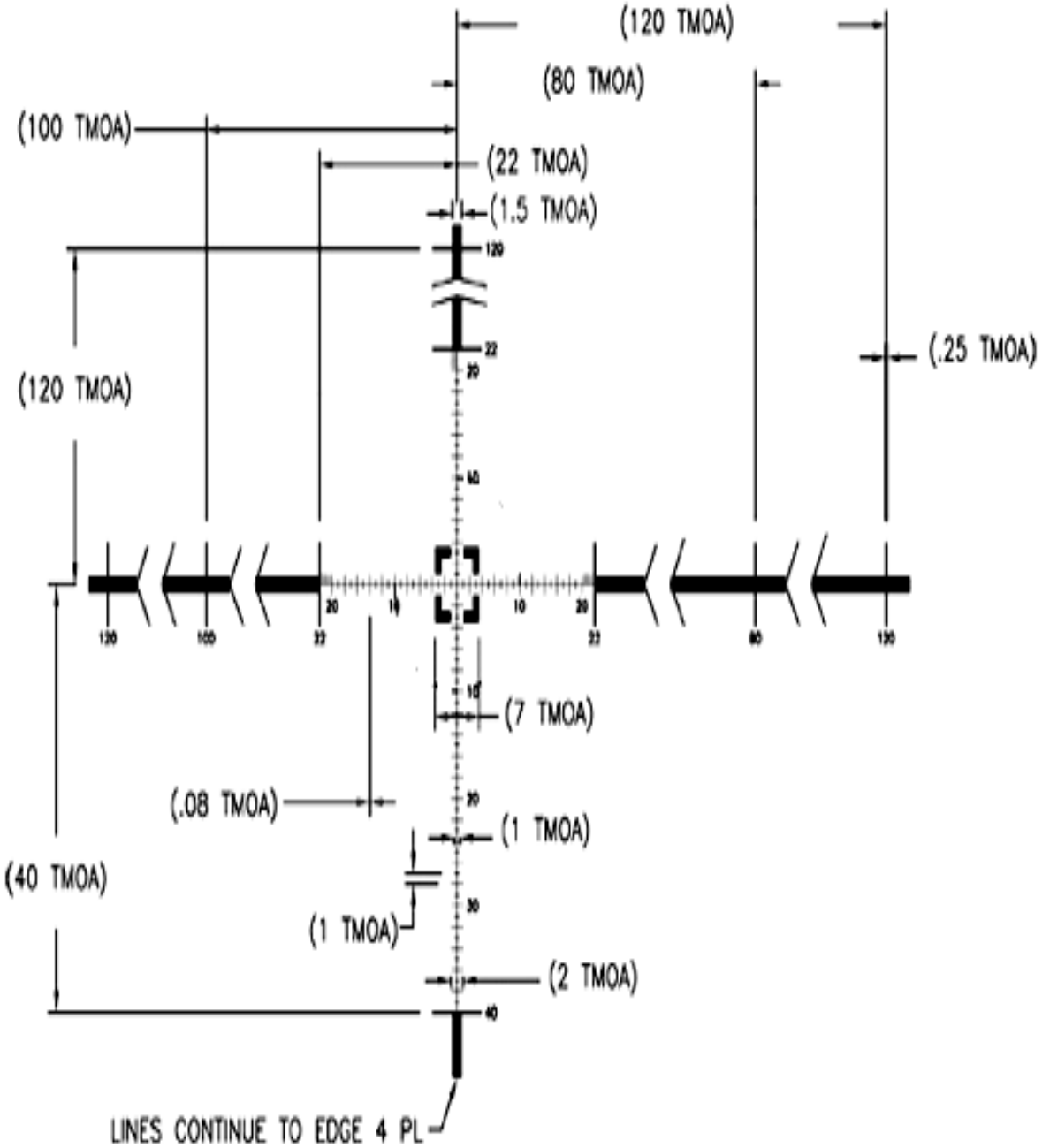


Measurements are in MOA (xx)

US OPTICS Reticle Patterns
GAP Mil-Scale

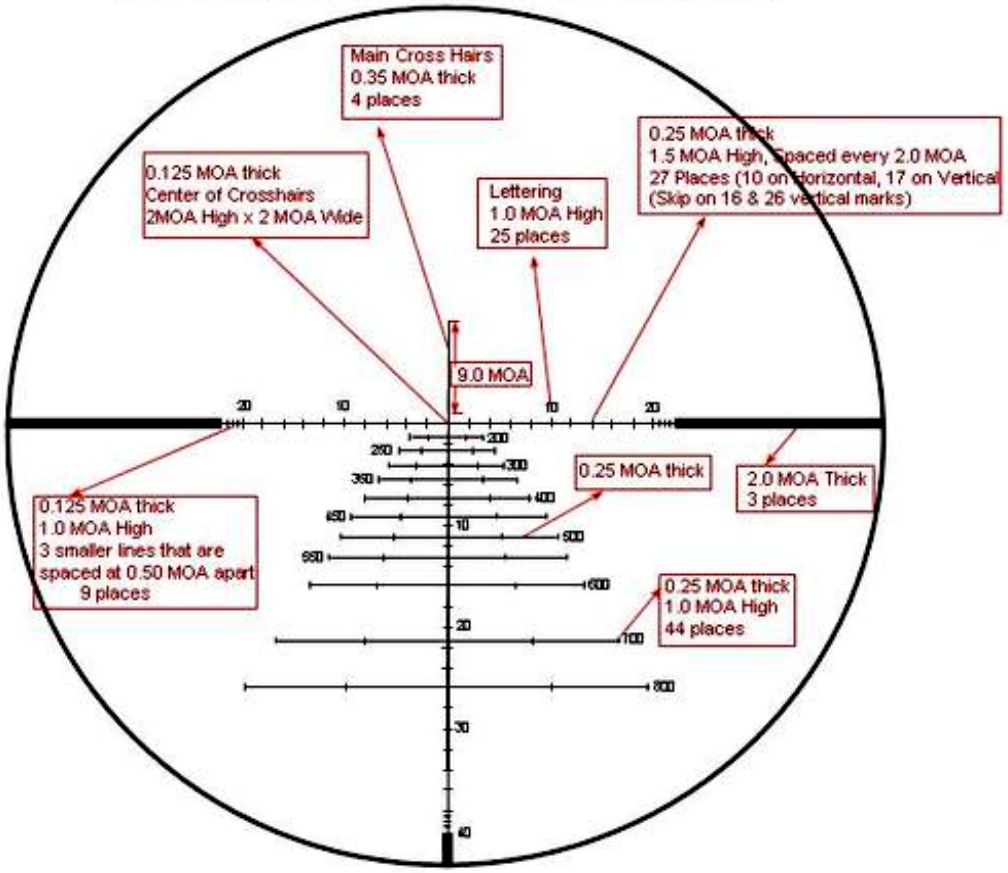


US OPTICS Reticle Patterns
RWF



US OPTICS Reticle Patterns
RWF 77

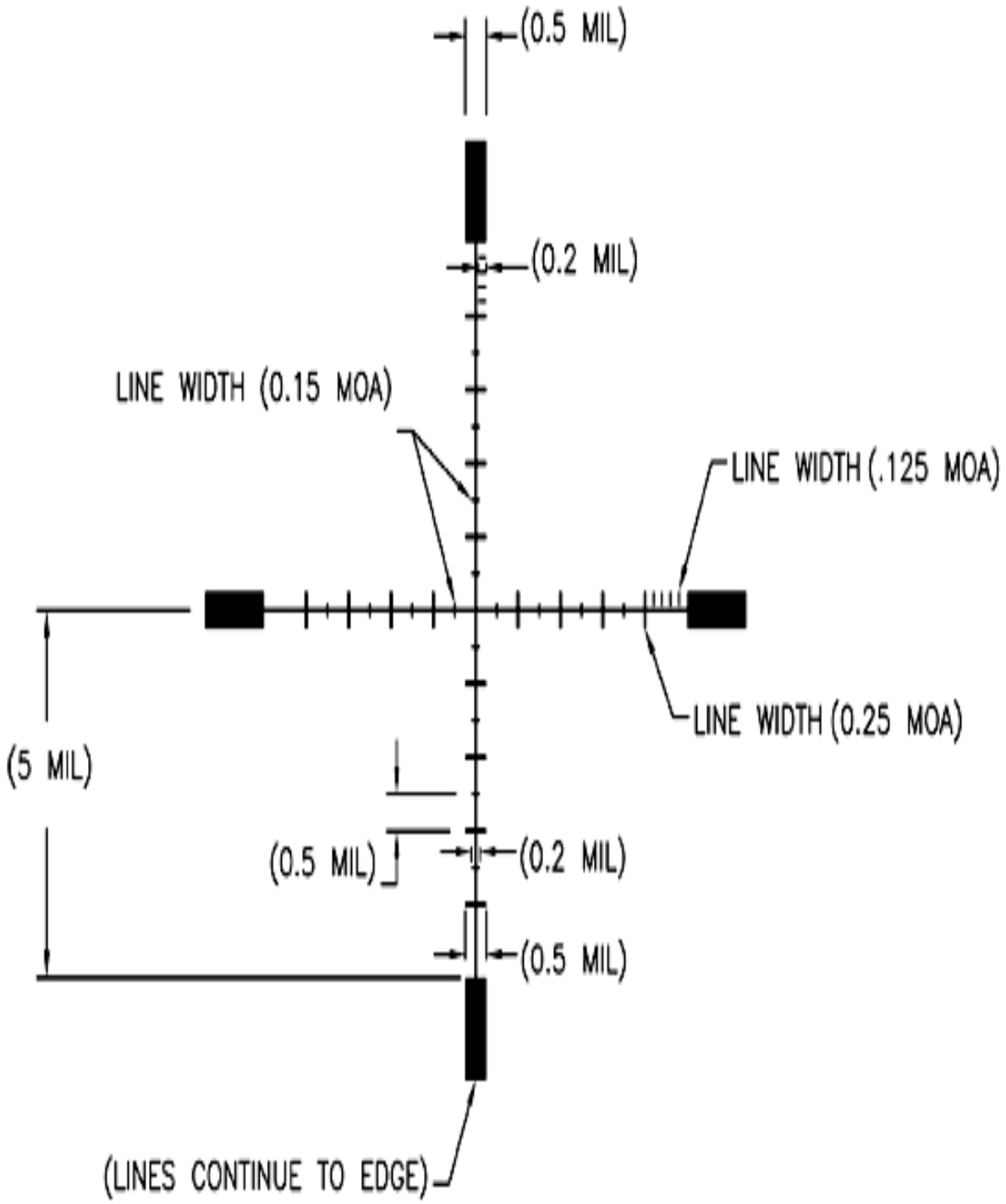
RWF-77 Reticle for US Optics SN3 1.8-10 (NON-LIT)



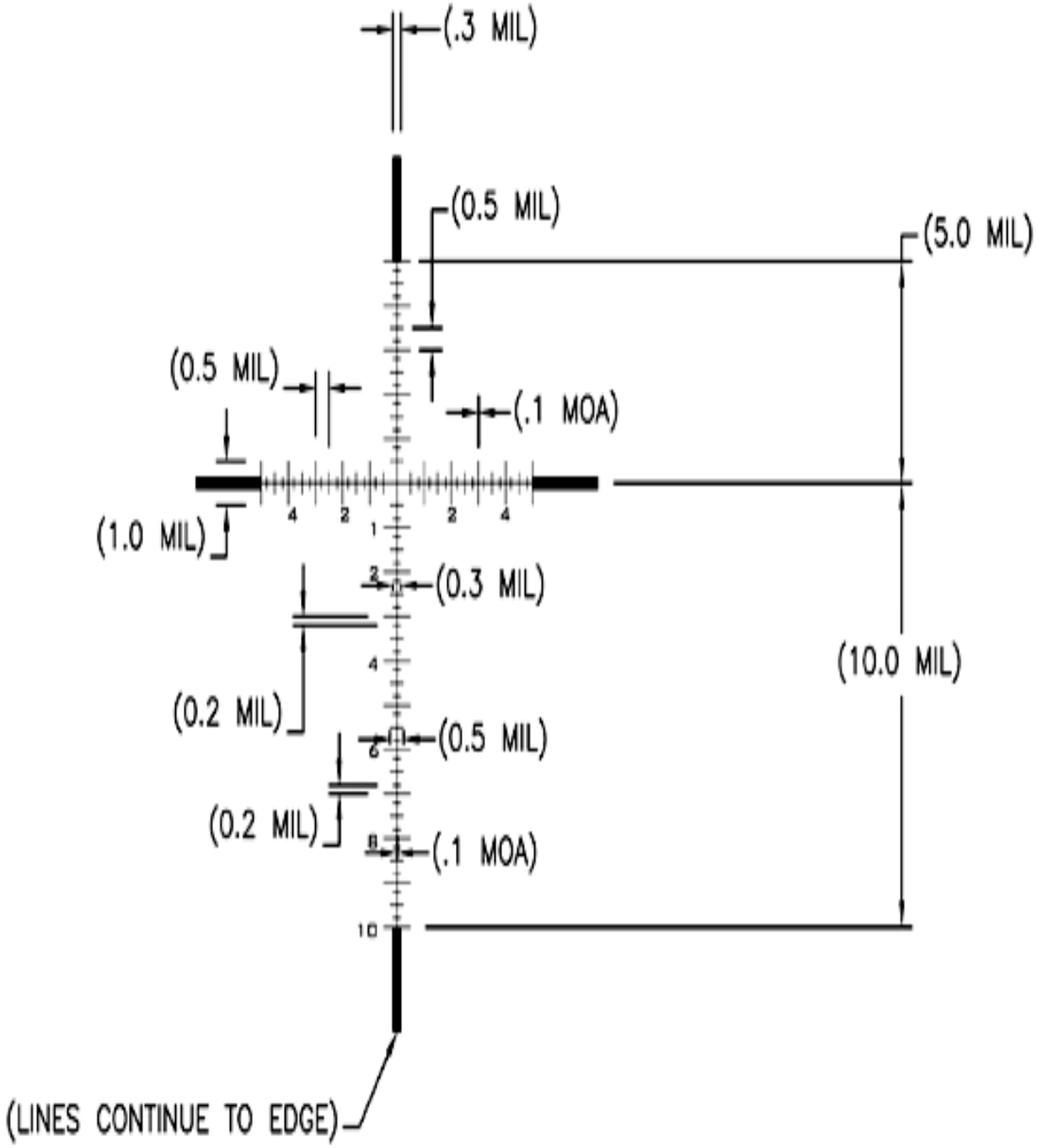
The Bullet Drop Compensator is for 223 caliber using the 77gr SMK going at 2725 FPS for the carbine AR15 rifles
Here are the numbers in Real MOA for elevation and windage hold overs:

Distance	Elevation	10 MPH Wind	20 MPH Wind	Total length of hold over lines
200 Yards	1.50 MOA	1.75 MOA	3.50 MOA	7.0 MOA
250	2.70	2.25	4.50	9.0
300	4.10	2.75	5.75	11.50
350	5.70	3.50	6.75	13.50
400	7.50	4.00	8.00	16.0
450	9.30	4.50	9.25	18.50
500	11.40	5.25	10.50	21.00
550	13.60	6.00	11.75	22.50
600	16.00	6.75	13.25	26.50
700	21.50	8.25	16.50	33.00
800	28.00	10.00	19.75	39.50

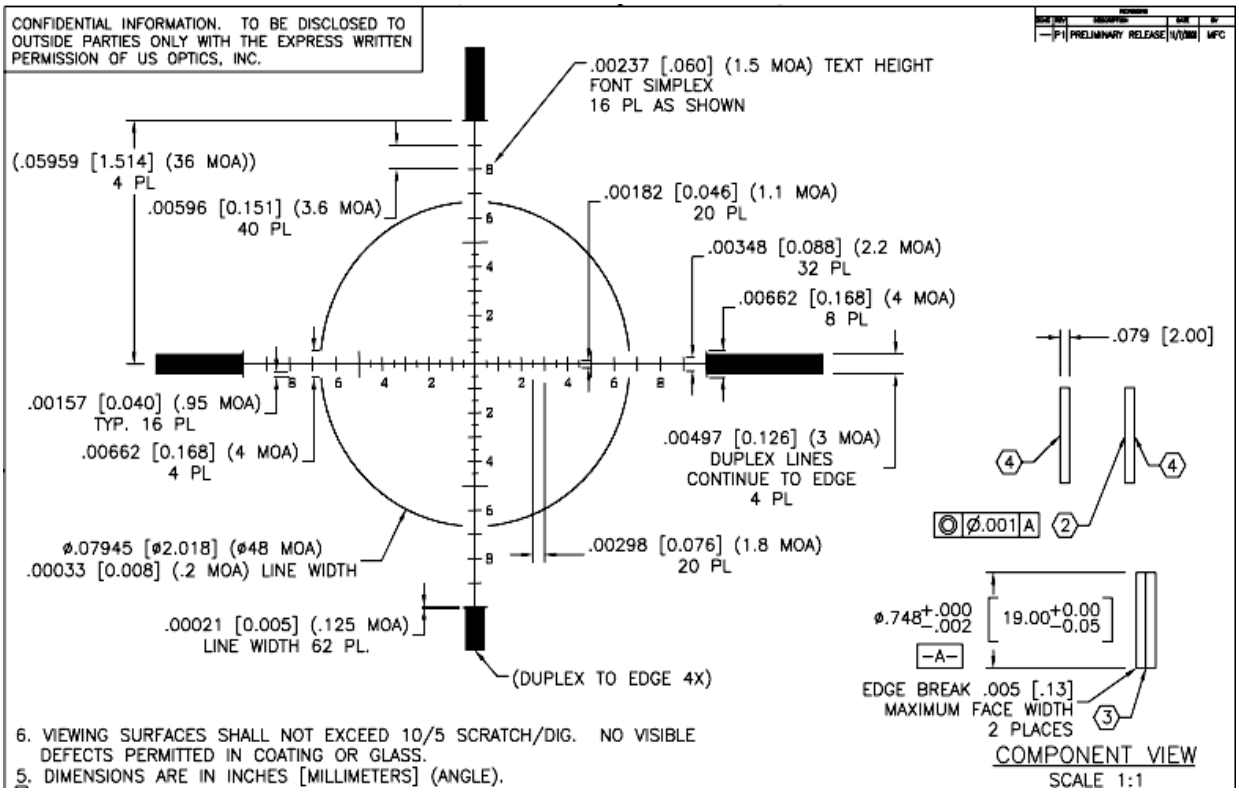
US OPTICS Reticle Patterns
Canadian Mil-Scale

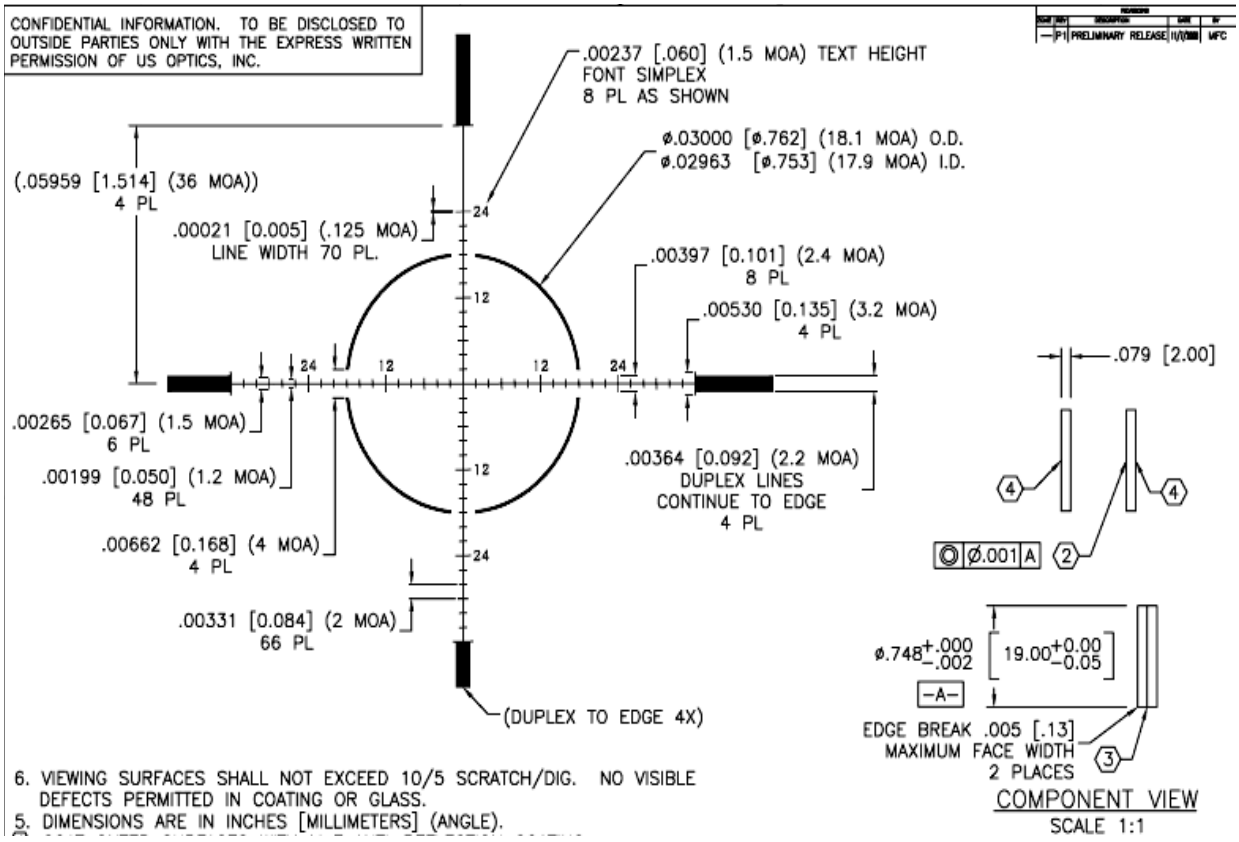


US OPTICS Reticle Patterns
MPR

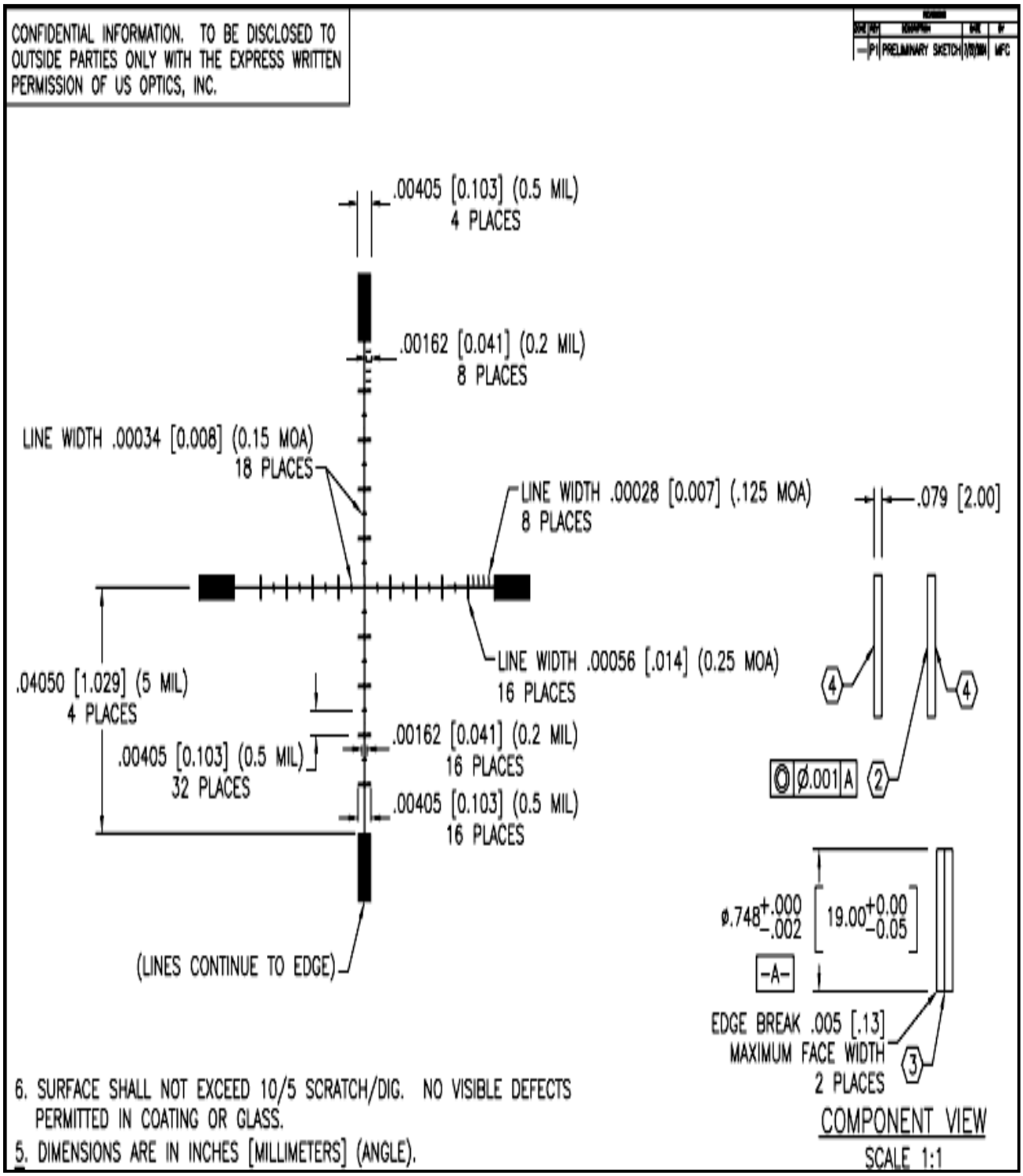


US OPTICS Reticle Patterns
JNG Mil & JNG MOA

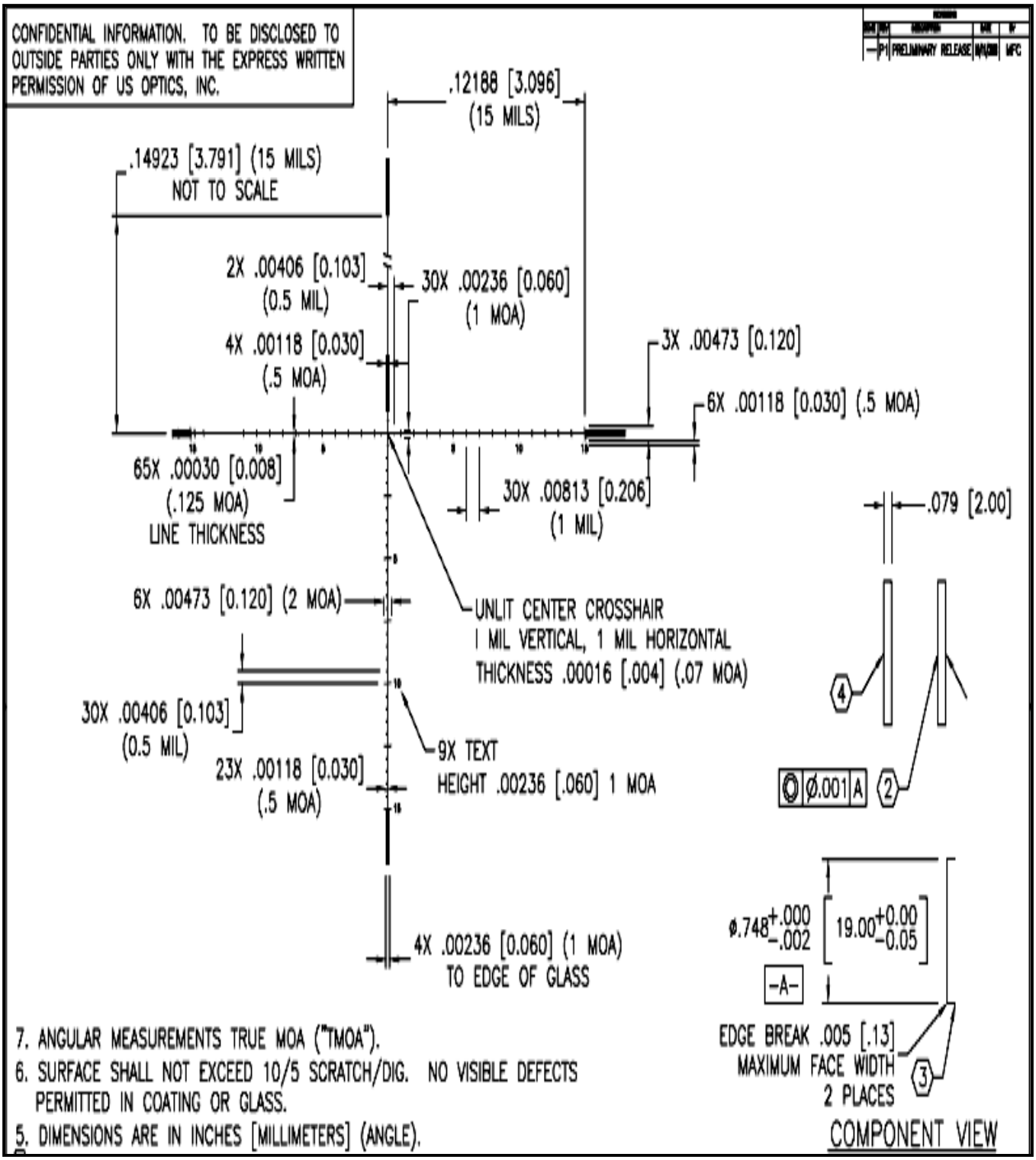




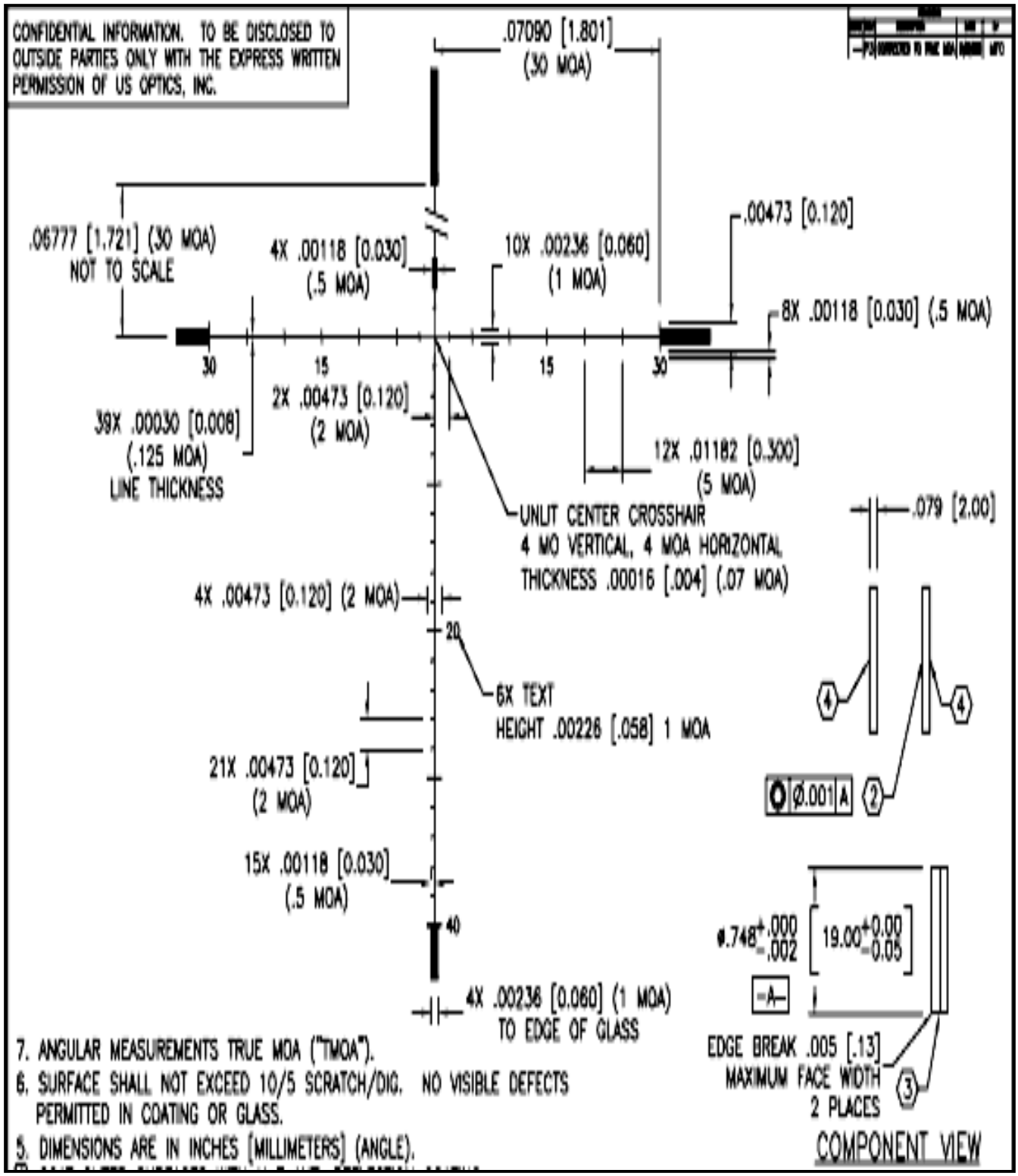
US OPTICS Reticle Patterns
Canadian 17x



US OPTICS Reticle Patterns
RDP Mil 17

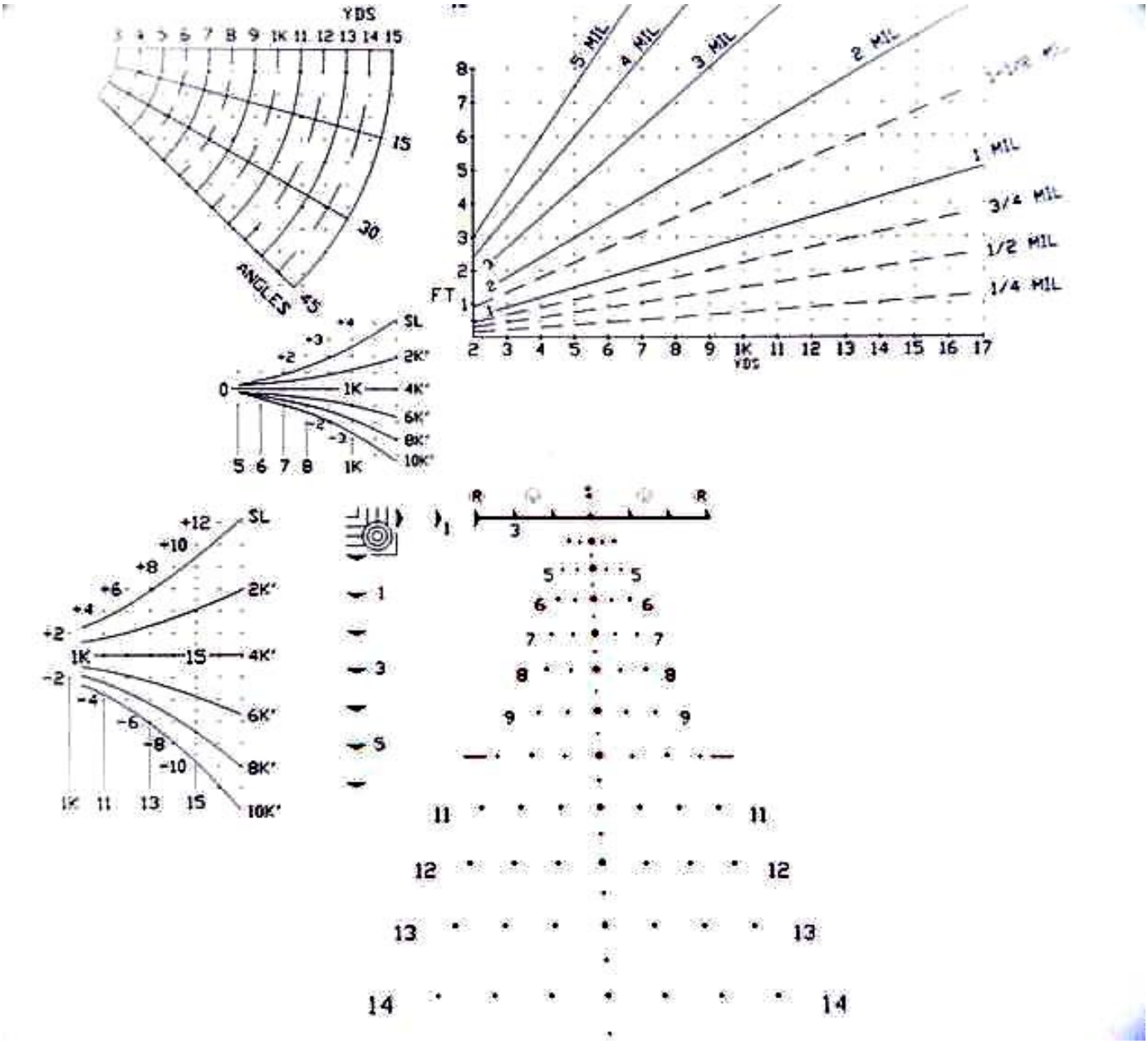


US OPTICS Reticle Patterns
RDP MOA



David Tubb/Brand Cole DTAC Reticle Pattern @ 16x

(inc. Aiming Dots/Mil Stadia, Density Altitude Graph, Range Calc Graph, Cos/Sin Graph, Density Correction Graph)

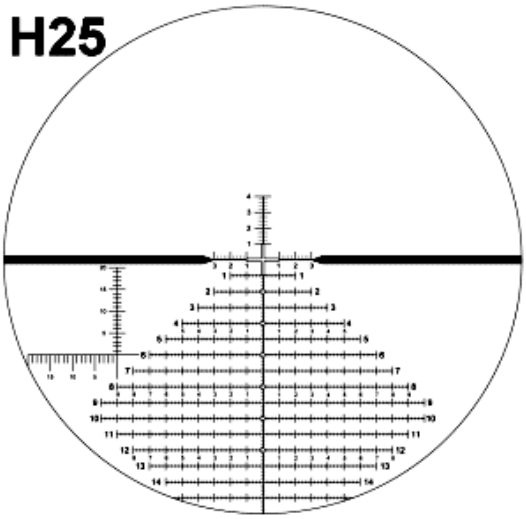


D-TAC
115 GR 6XC
4000' DENS ALT
Patent Pending
Rev. 3

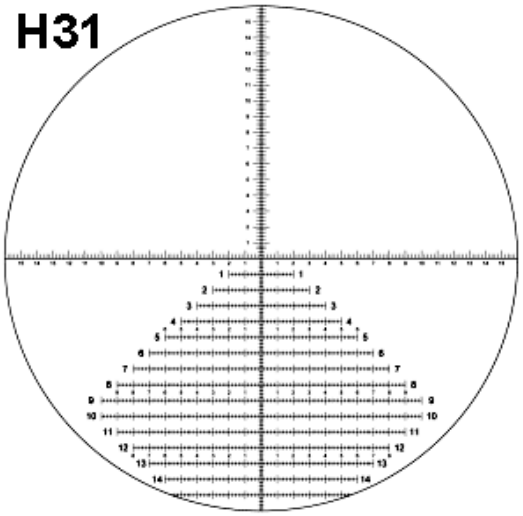
From actual TEMP go UP to ELEVATION line then LEFT to DENSITY

Horus Vision Reticle Patterns

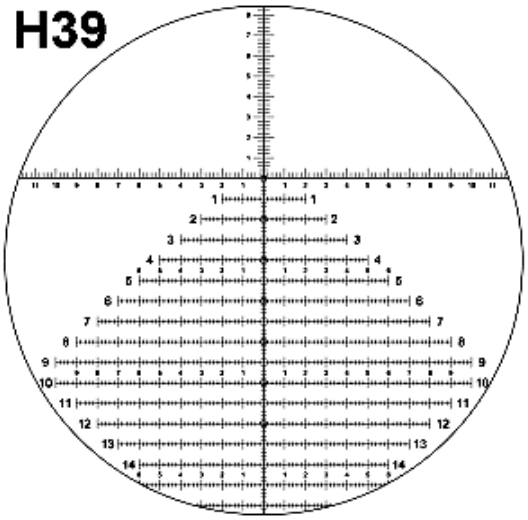
H25



H31



H39



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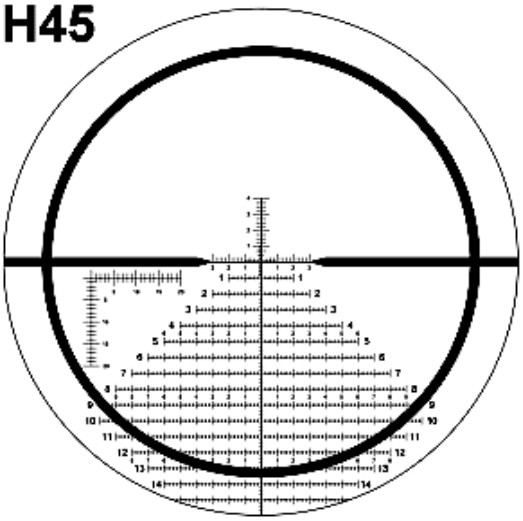

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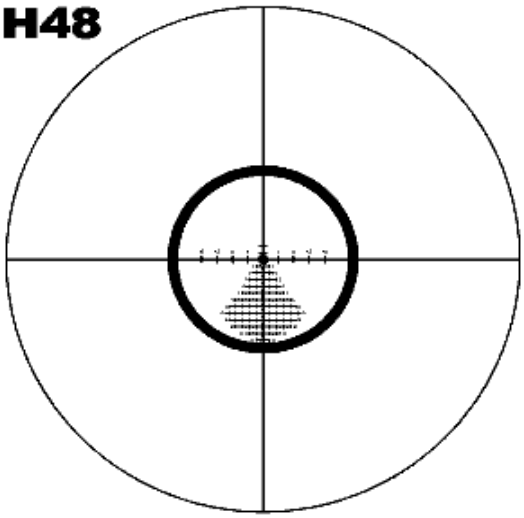
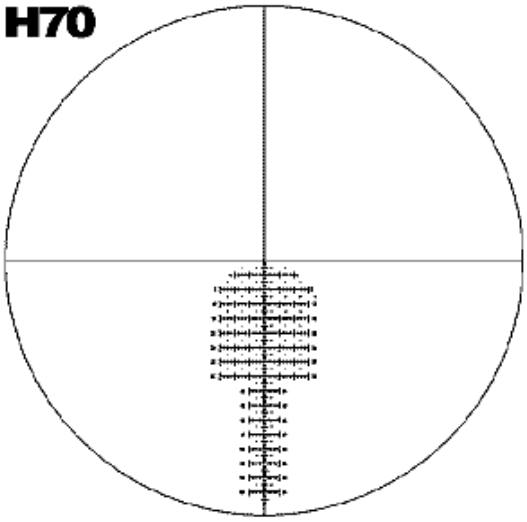
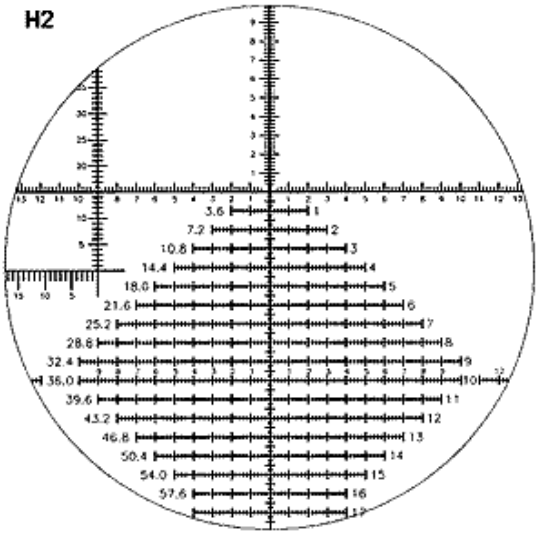


H70



Horus Vision Reticle Patterns

H2



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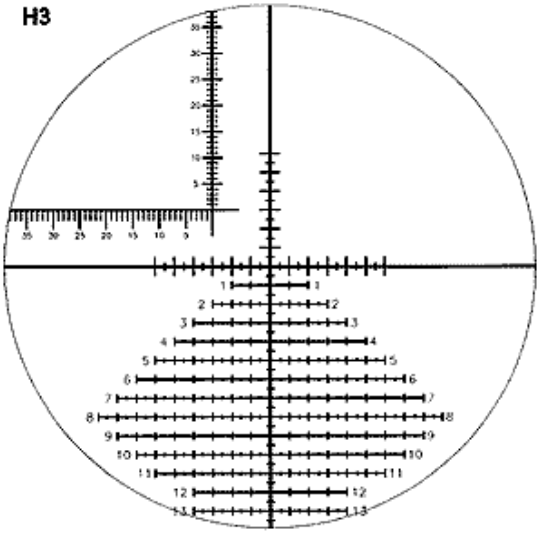

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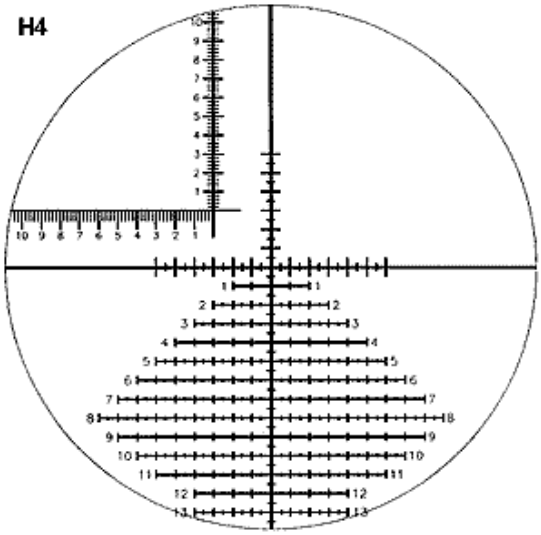
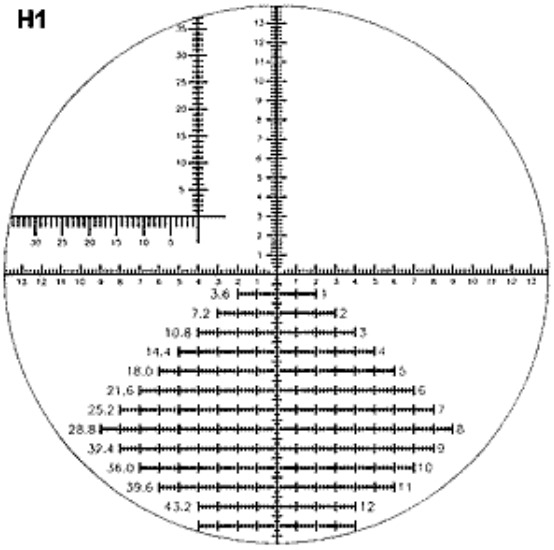
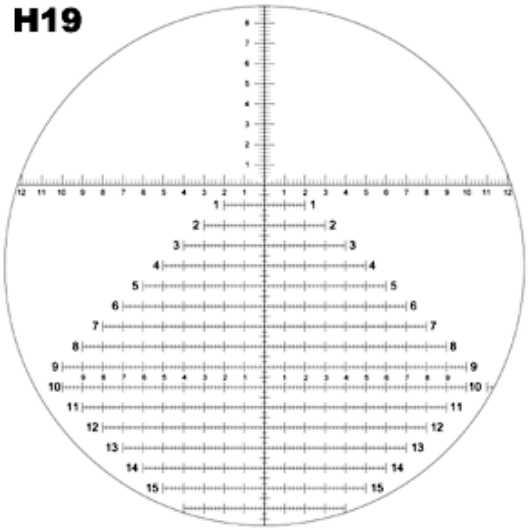


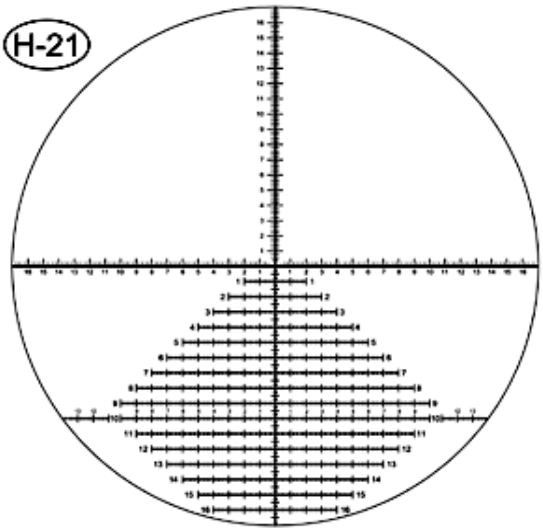
H1



H19

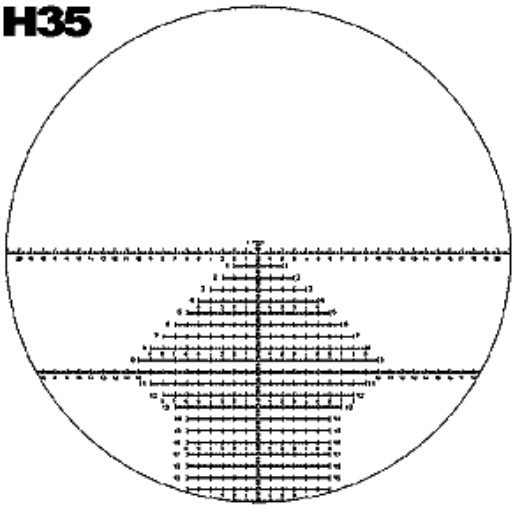


H-21

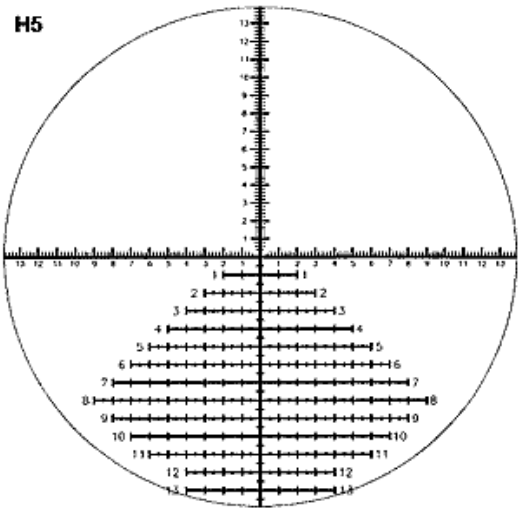


Horus Vision Reticle Patterns

H35



H5



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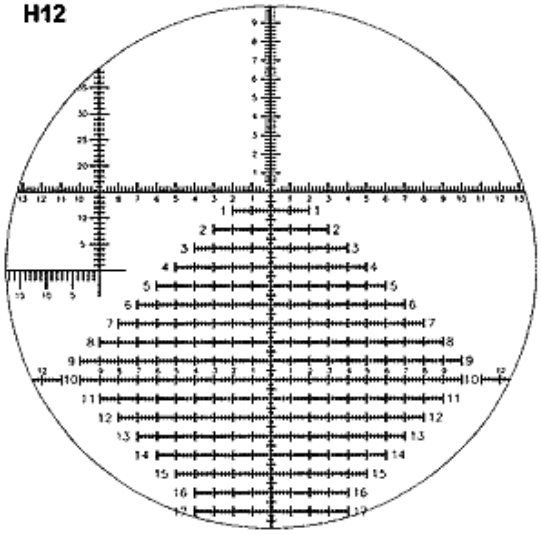
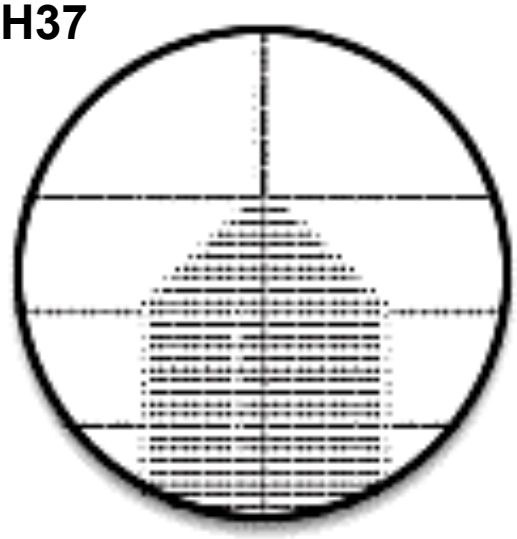
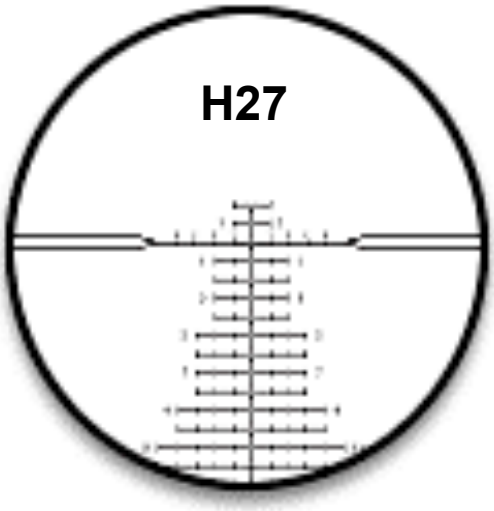


H37



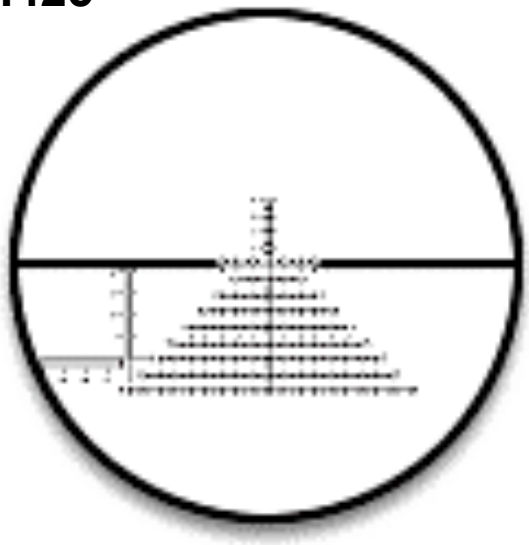
H27



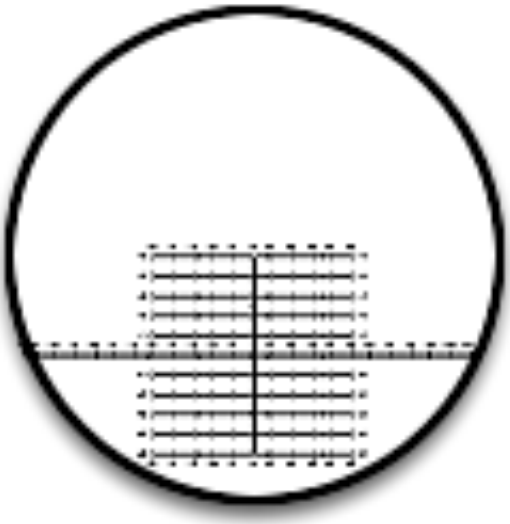
Horus Vision Reticle Patterns

H50

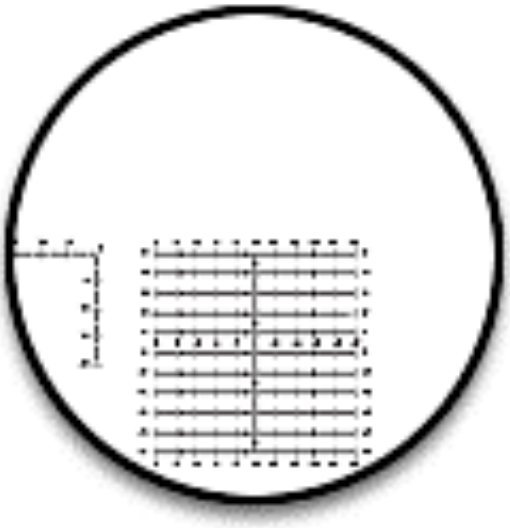
H425



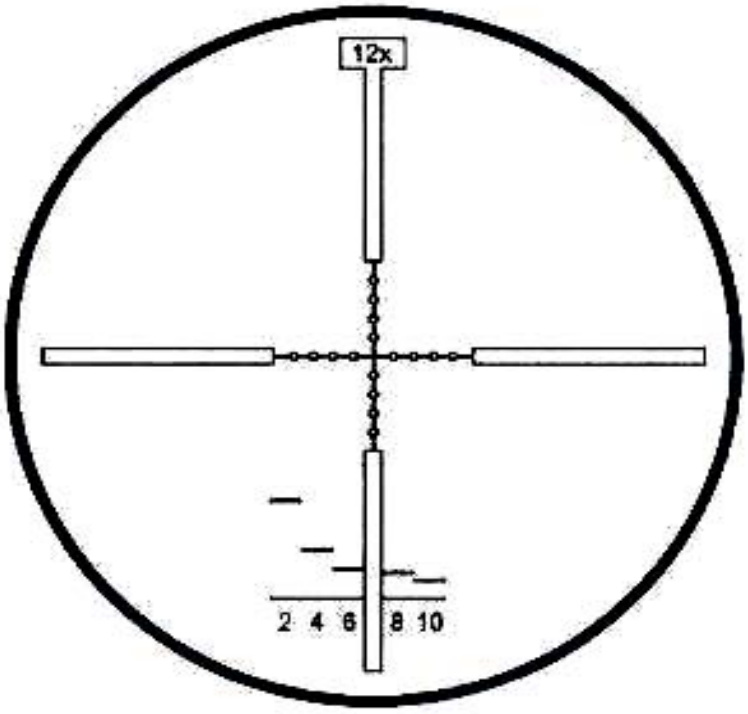
H32 Spotting



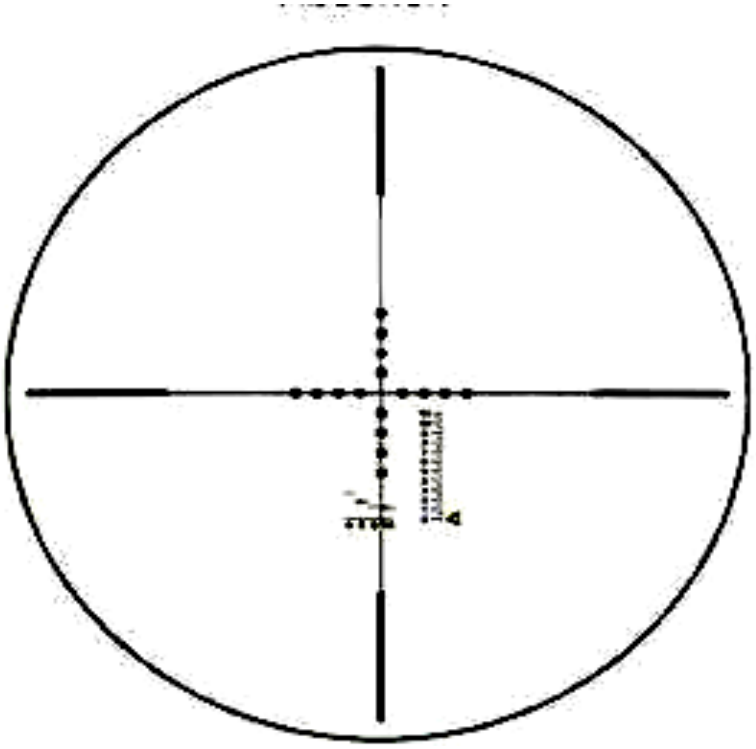
H36 Spotting



Hensoldt Reticle Patterns

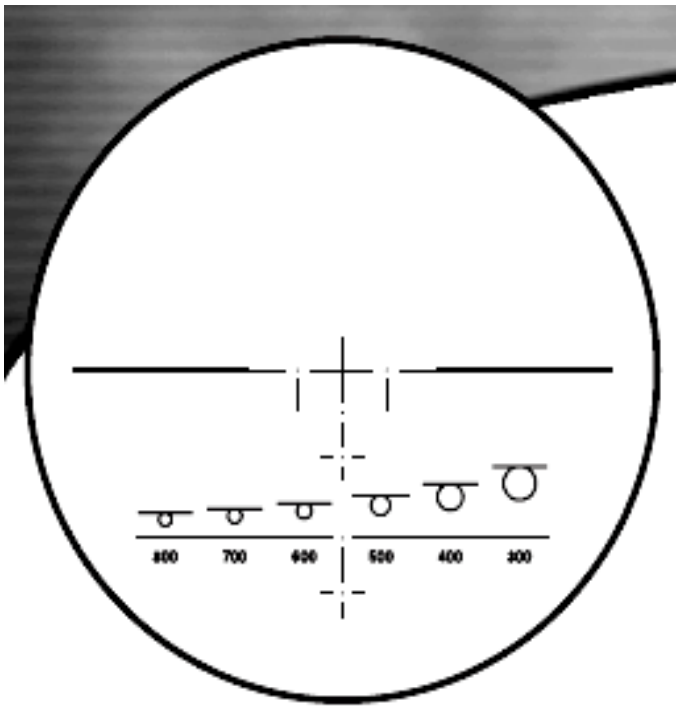


Hensoldt Range Finding Mil Dot

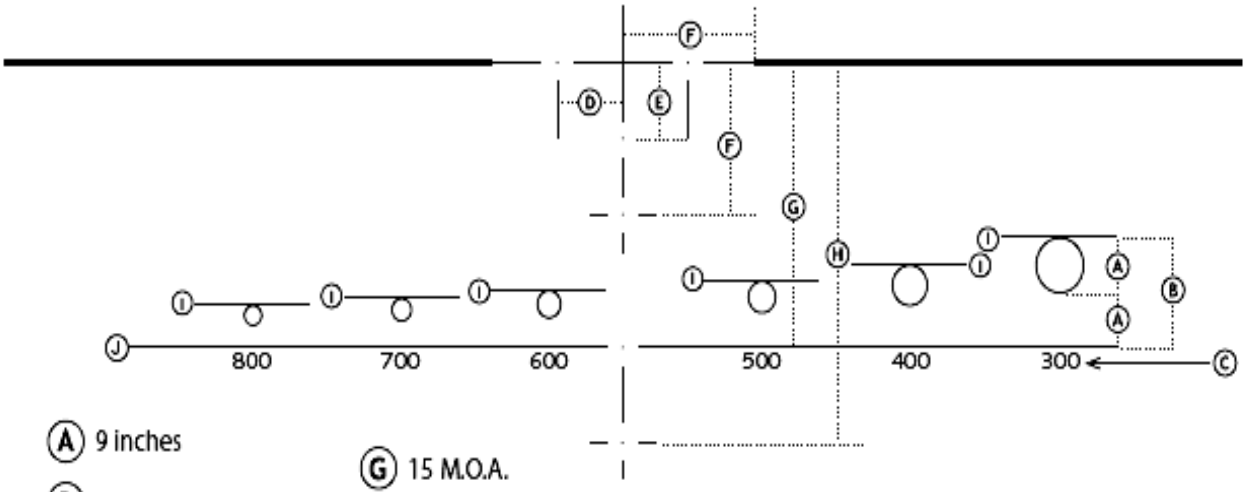


Hensoldt SSG - P

NightForce Reticle Patterns
NP-1RR



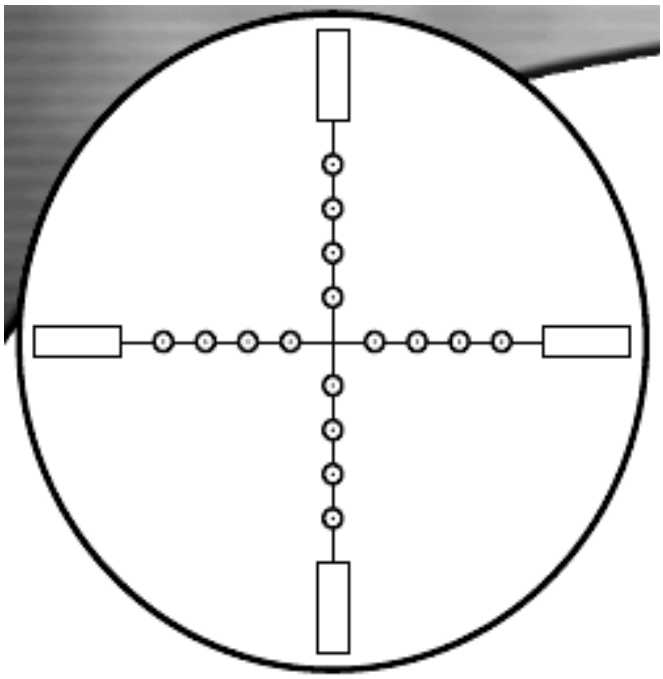
NP-1RR



(A) 9 inches
(B) 18 inches
(C) Distance in Yards
(D) 4 M.O.A.
(E) 4 M.O.A.
(F) 8 M.O.A.
(G) 15 M.O.A.
(H) 20 M.O.A.
(I) Step
(J) Baseline

Riflescope Model	*Ranging Power*
3.5-15x NXS	15x
5.5-22x NXS	22x
8-32x NXS and Benchrest	22x*
12-42x NXS and Benchrest	22x*
*Signified by an "R" on the Power Zoom Ring	

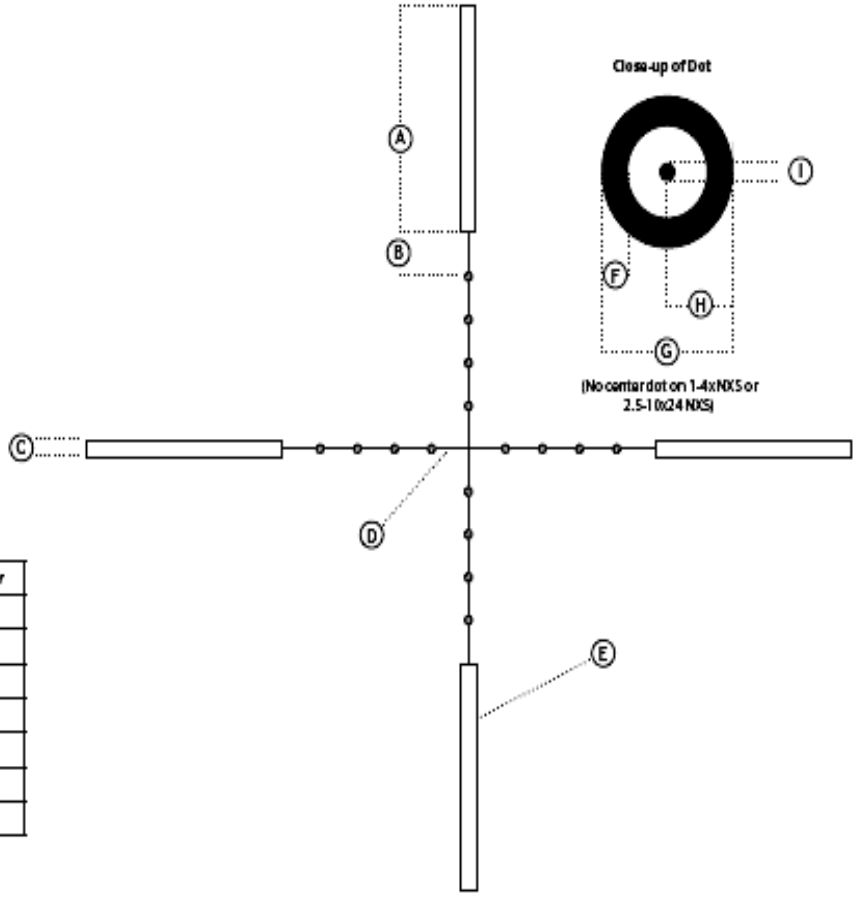
NightForce Reticle Patterns
MIL-DOT



MIL-DOT

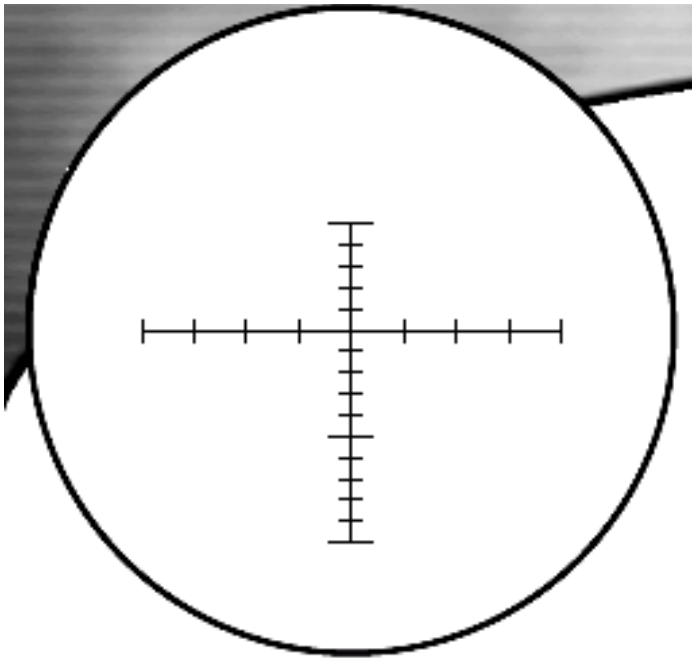
Suggested Use

Field tactical

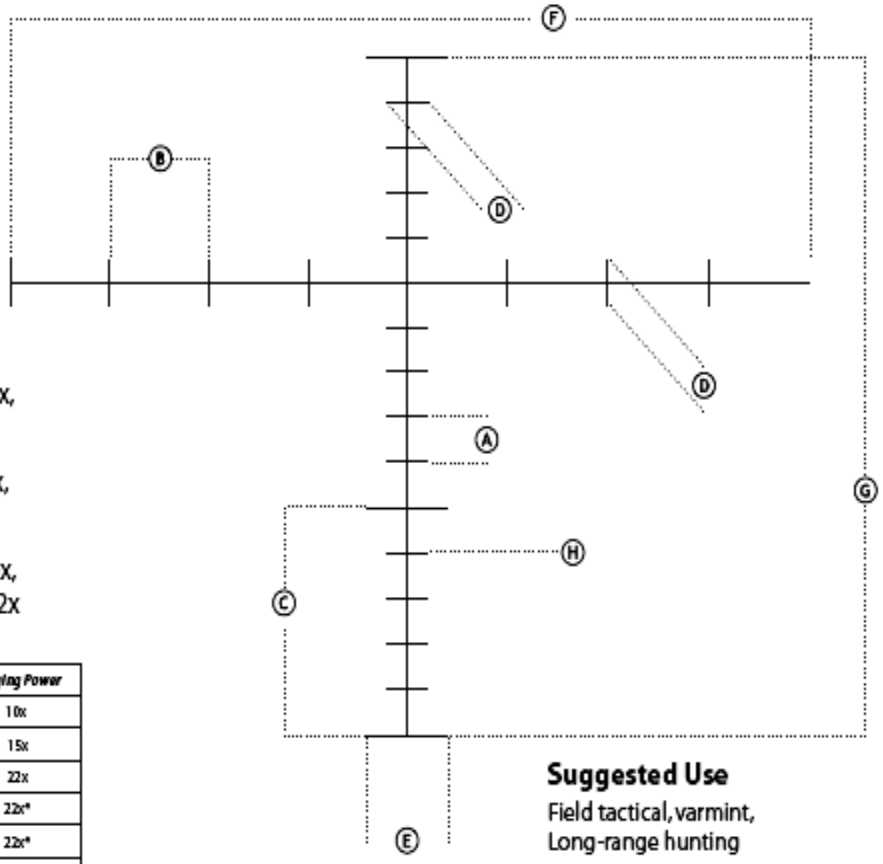


Riflescope Model	*Ranging Power*
1-4x NXS	4x
2.5-10x NXS	10x
3.5-15x NXS	15x
5.5-22x NXS	22x
8-32x NXS and Benchrest	22x*
12-42x NXS and Benchrest	22x*
*Signified by an "R" on the Power Zoom Ring	

NightForce Reticle Patterns
NP-R2



NP-R2

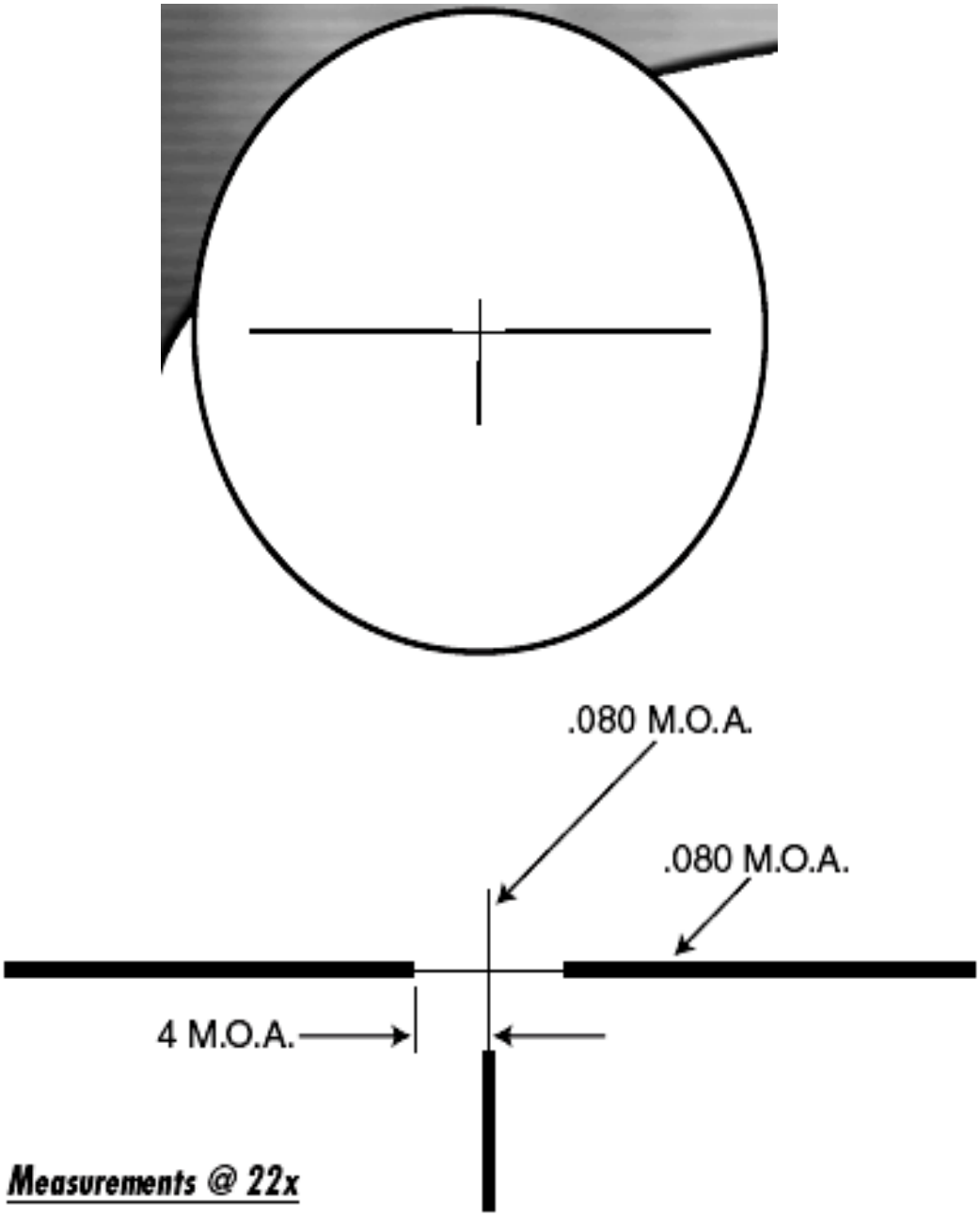


- (A) 2 M.O.A.
- (B) 5 M.O.A.
- (C) 10 M.O.A.
- (D) 2 M.O.A.
- (E) 4 M.O.A.
- (F) 60 M.O.A. @ 10x, 60 M.O.A. @ 15x, 40 M.O.A. @ 22x
- (G) 40 M.O.A. @ 10x, 40 M.O.A. @15x, 30 M.O.A. @ 22x
- (H) Line Thickness - .09 M.O.A. @ 10x, .06 M.O.A. @ 15x, .06 M.O.A. @ 22x

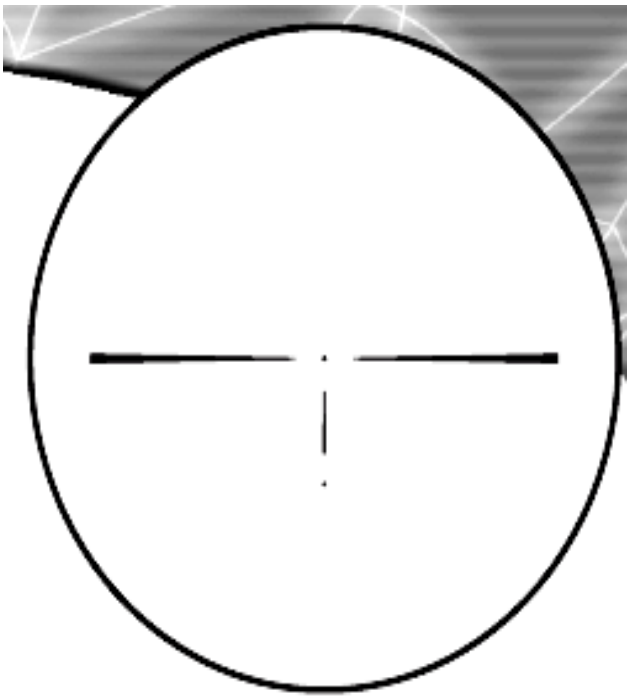
Riflescope Model	*Ranging Power*
2.5-10x NXS	10x
3.5-15x NXS	15x
5.5-22x NXS	22x
8-32x NXS and Benchrest	22x*
12-42x NXS and Benchrest	22x*
*Signified by an "R" on the Power Zoom Ring	

Suggested Use
Field tactical, varmint, Long-range hunting

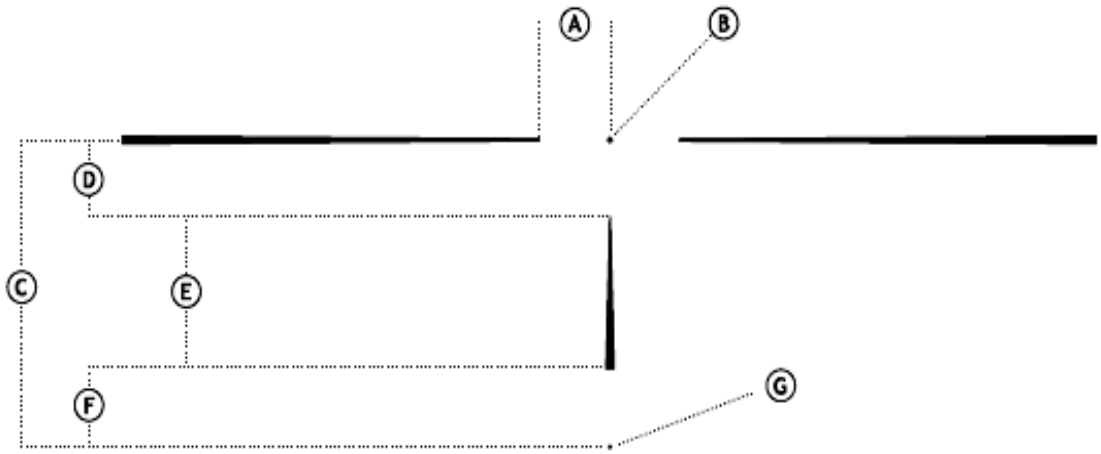
NightForce Reticle Patterns
NP-1



NightForce Reticle Patterns
NP-2DD



NP-2DD

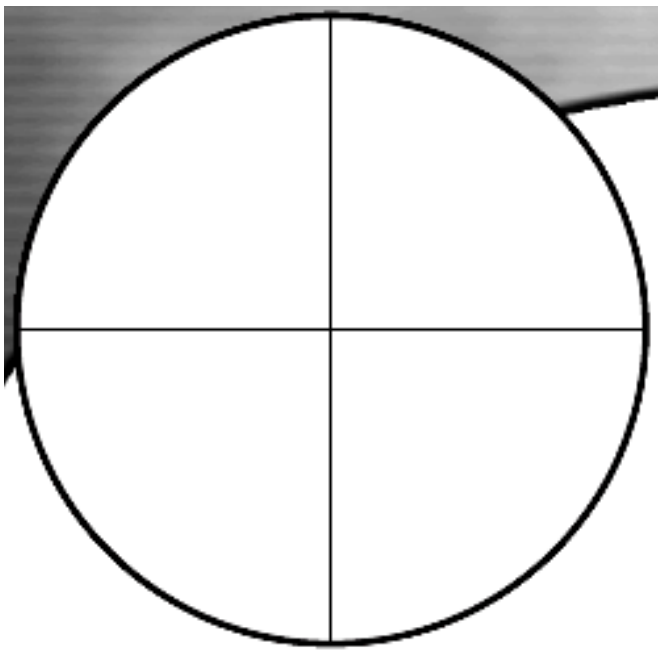


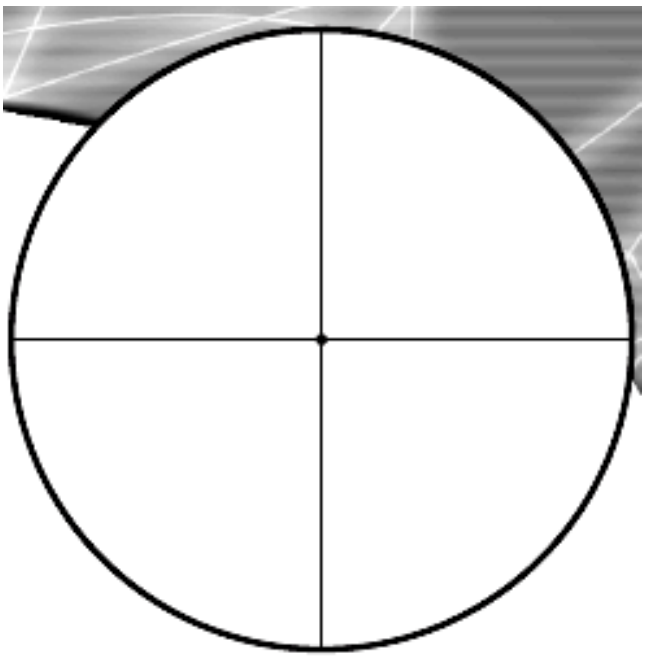
Riflescope Model	Ranging Power
3.5-15x NXS	15x
5.5-22x NXS	22x
8-32x NXS and Benchrest	22x*
12-42x NXS and Benchrest	22x*
*Signified by an "R" on the Power Zoom Ring	

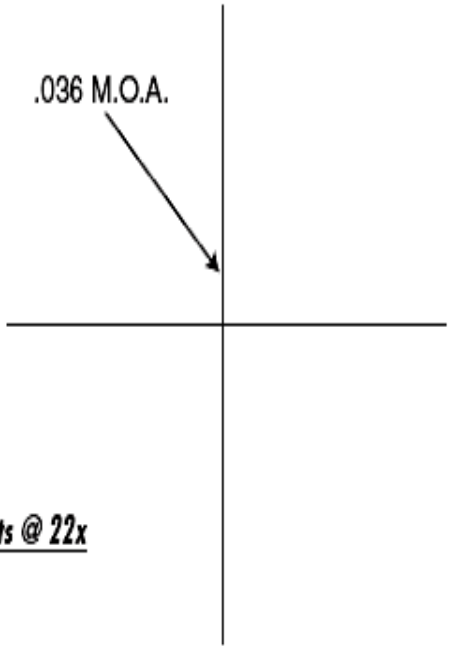
Suggested Use

Varmint, 1000 yard benchrest

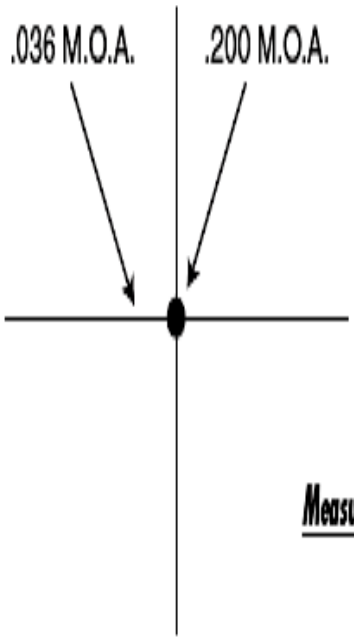
NightForce Reticle Patterns
CH-1 & CH-2





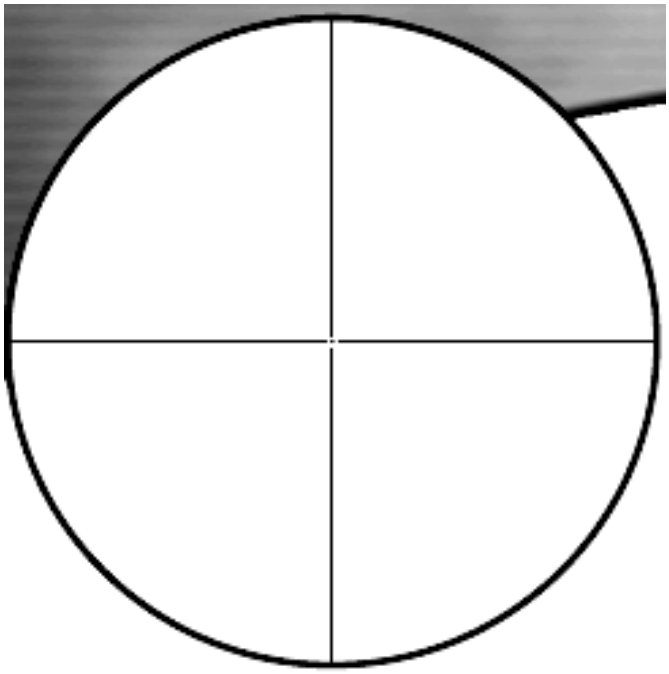


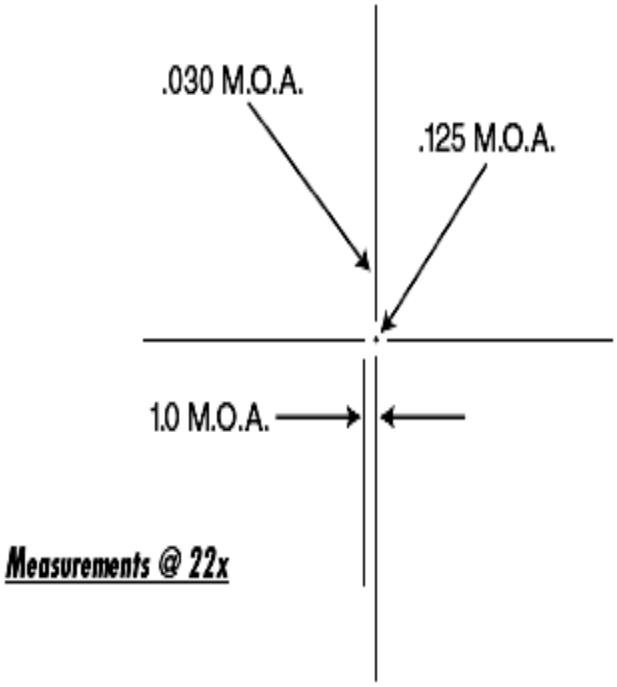
Measurements @ 22x



Measurements @ 22x

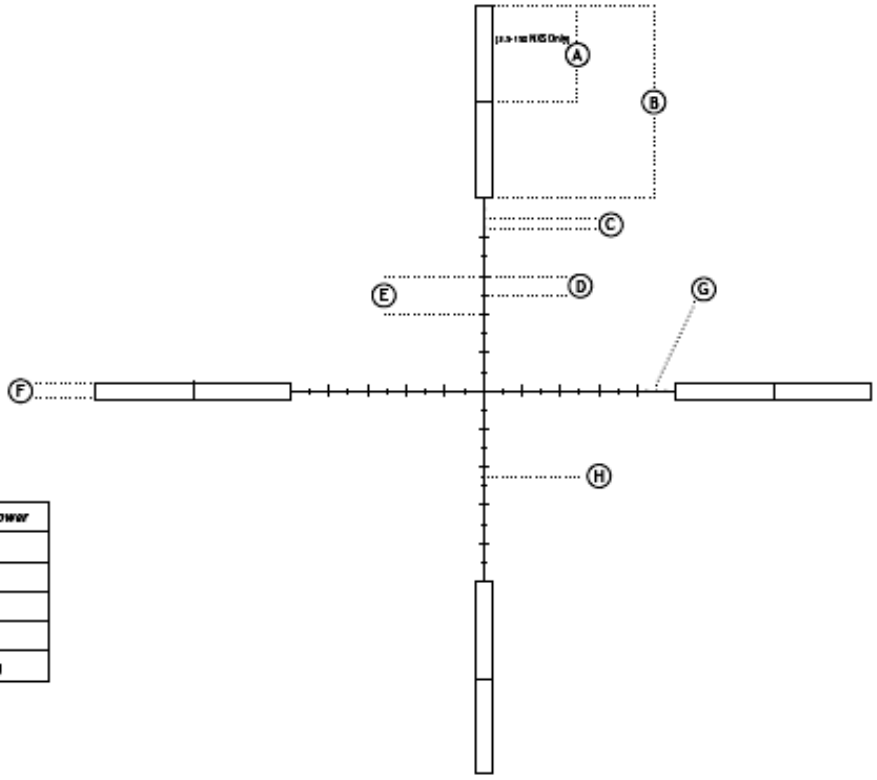
NightForce Reticle Patterns
CH-3





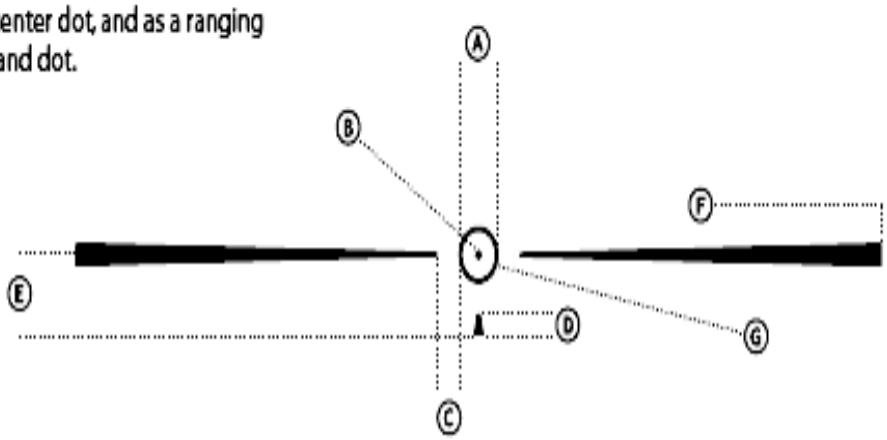
NightForce Reticle Patterns
MLR & FC-2

MLR



Riflescope Model	*Ranging Power*
3.5-15x NXS	15x
5.5-22x NXS	22x
8-32x NXS	22x*
12-42x NXS	22x*
*Signified by an "R" on the Power Zoom Ring	

The triangular aiming point under the circle can be used as a 10 M.O.A. holdover point from the center dot, and as a ranging tool in combination with the circle and dot.



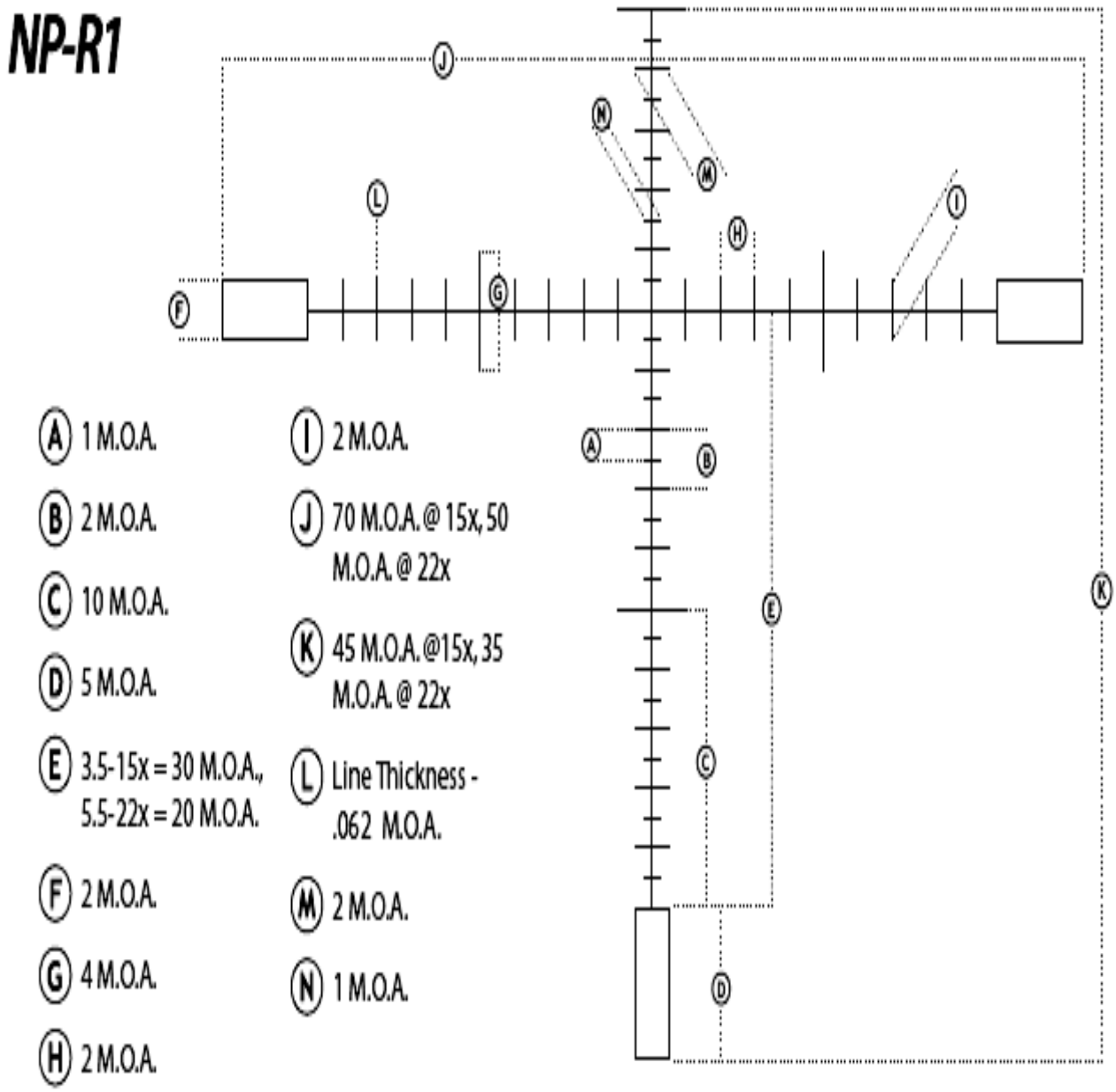
- (A) 10 M.O.A.
- (B) 2 M.O.A. for 1-4x, 1.5 M.O.A - for 2.5-10x
- (C) 5 M.O.A.
- (D) 5 M.O.A.
- (E) 15 M.O.A.
- (F) 40 M.O.A. for 1-4x, 30 M.O.A. for 2.5-10x
- (G) Line Thickness = .50 M.O.A. @ 4x, .30 M.O.A. @ 10x

Riflescope Model	*Ranging Power*
1-4x NXS	4x
2.5-10x NXS	10x

Suggested Use

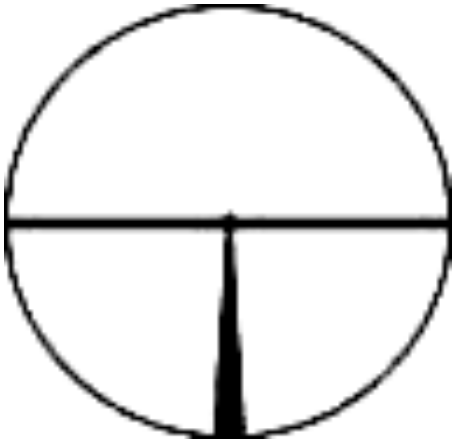
CQB, hunting

NightForce Reticle Patterns
NP-R1

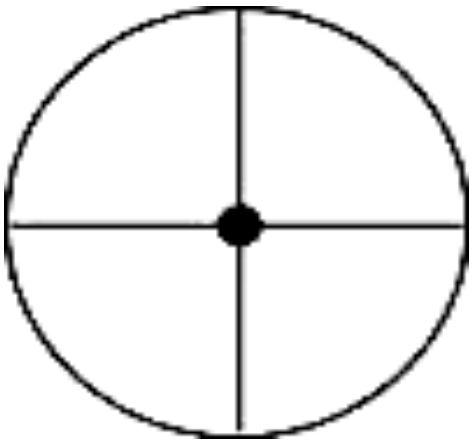


Premier Reticle Patterns

#1 – German Post

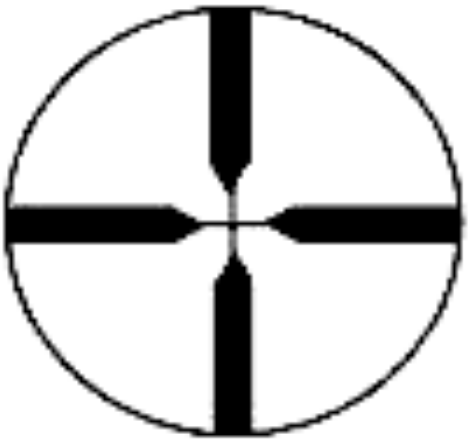


#2 – Post & Crosshair

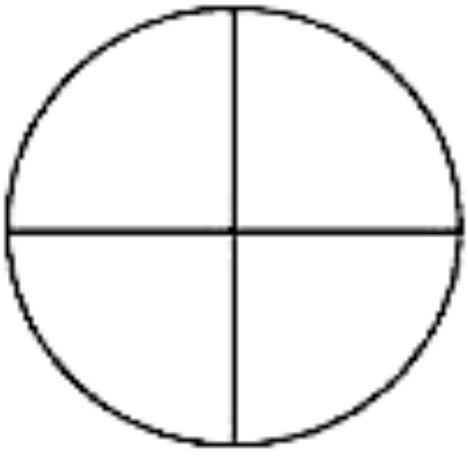


#3 – Dot & Crosshair

#4 – 3 Post & Crosshair

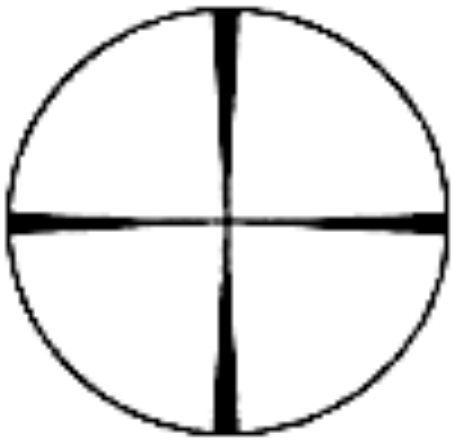


#5 – Duplex

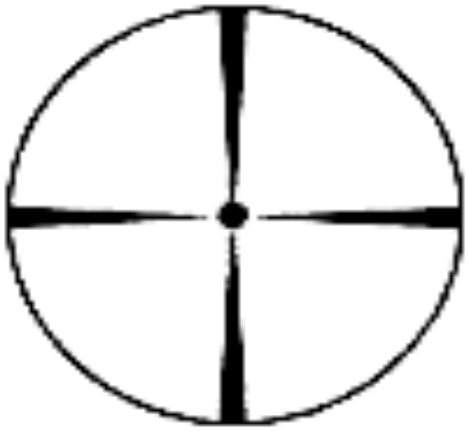


#6 – Crosshair

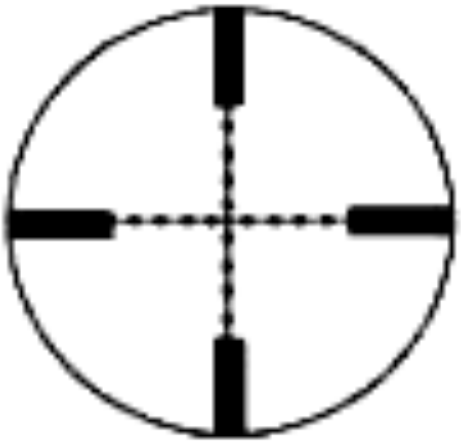
Premier Reticle Patterns



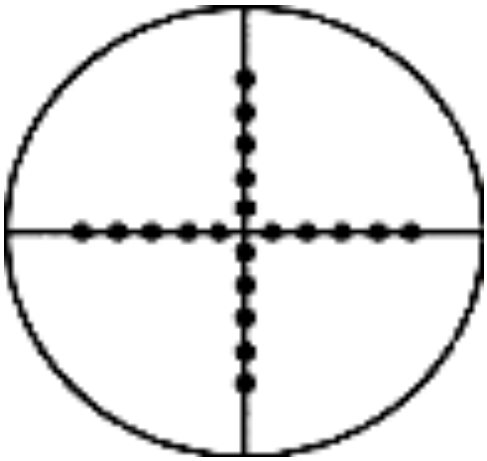
#7 – CPC Tapering



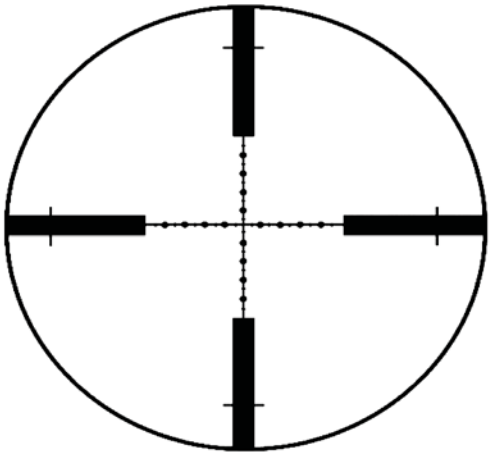
#9 – Leupold Dot



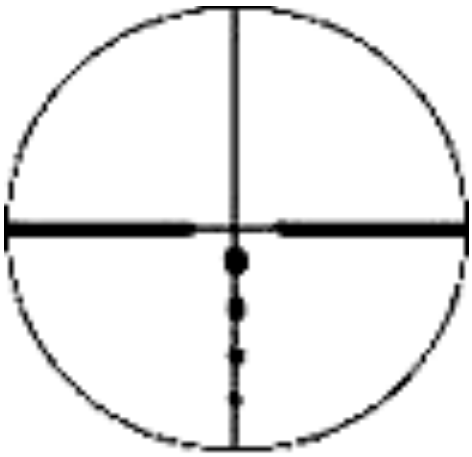
#10 – Std Mil Dot



#10a – Modified Mil Dot



Gen 2 Mil Dot



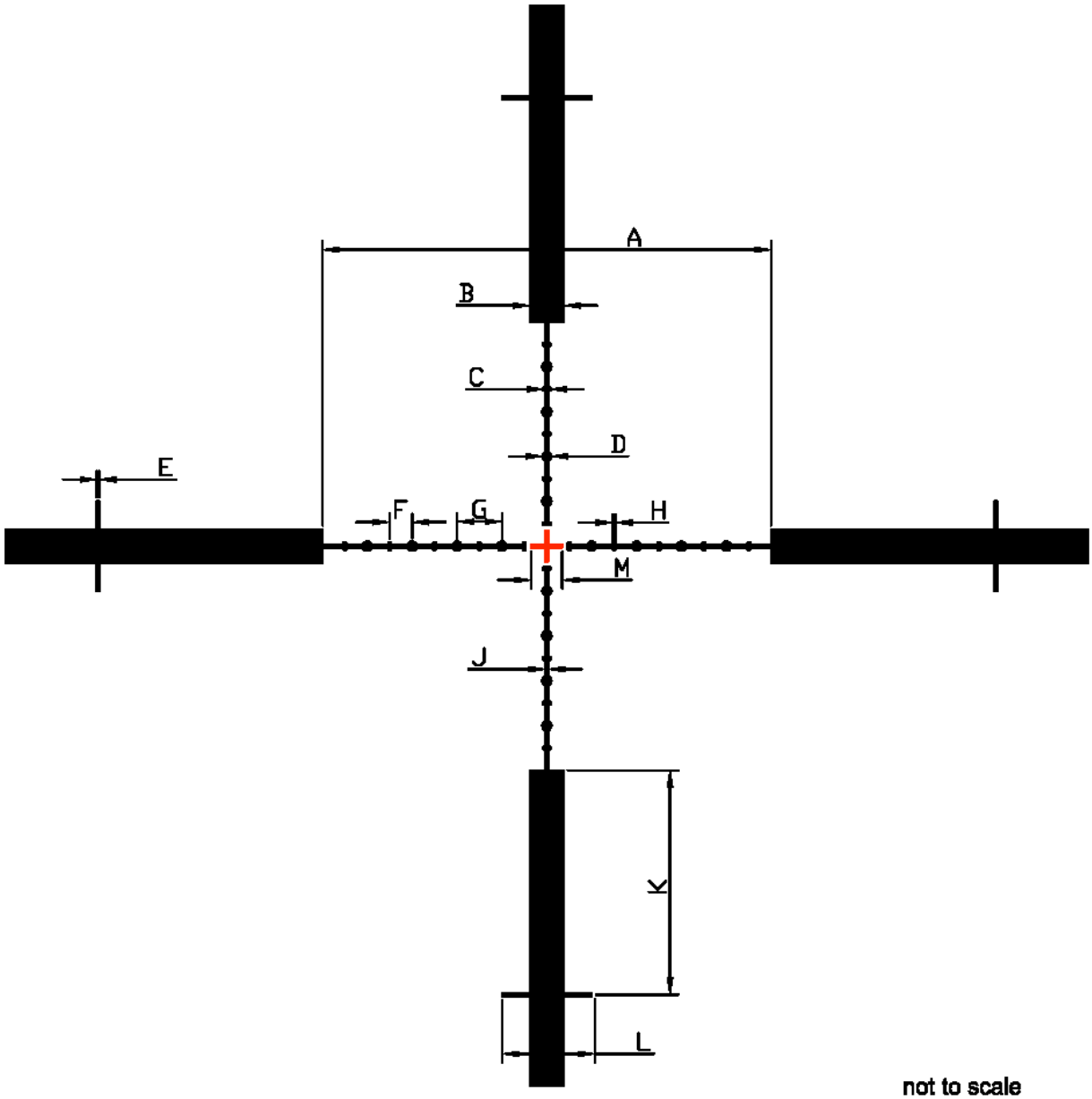
Range Compensating

Premier Reticle Patterns
Premier Gen 2 Mil Dot

Gen 2 Mil-Dot

3-12x PMII

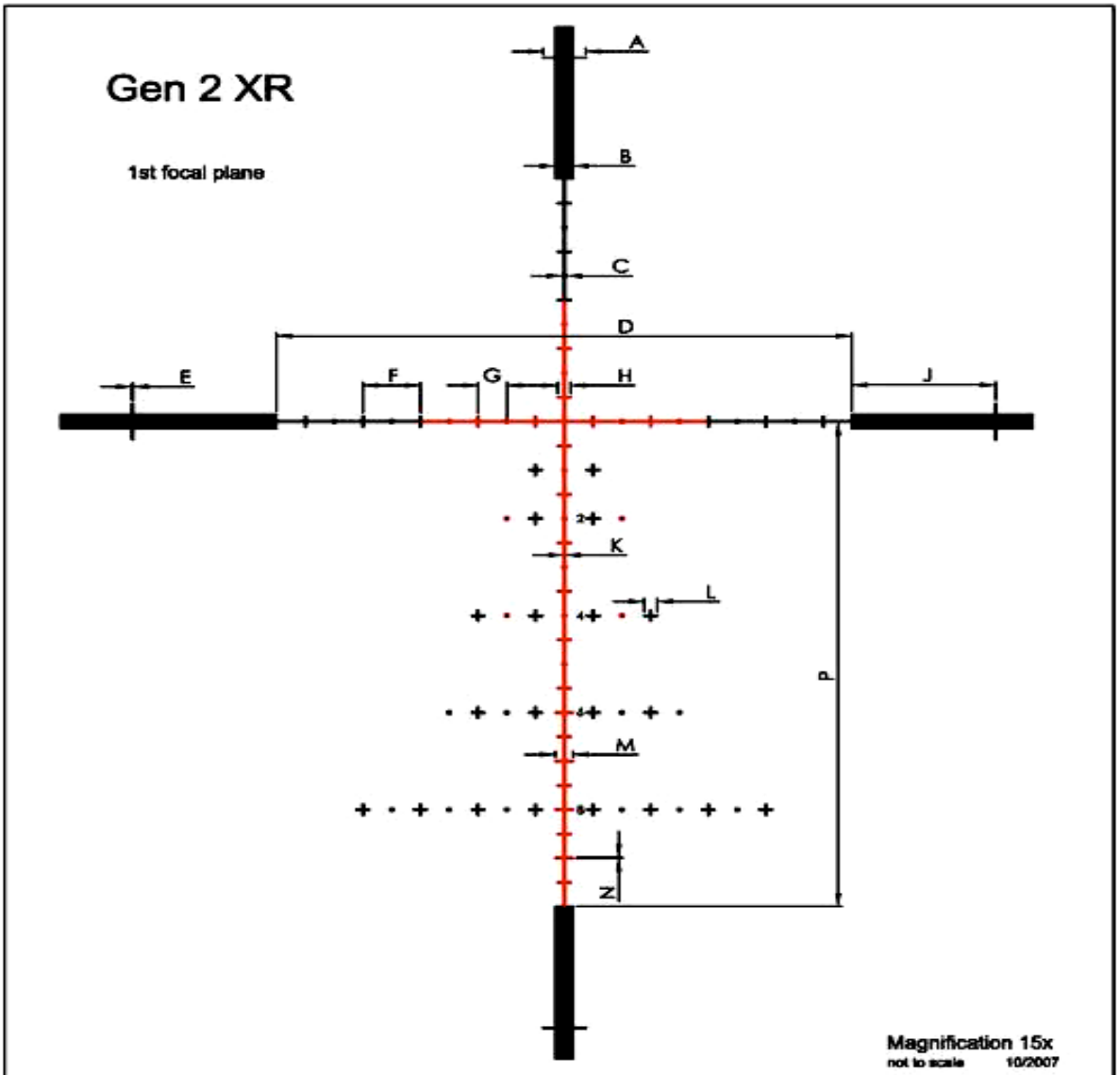
1st focal plane



not to scale
10/2007

Units	A	B	C	D	E	F	G	H	J	K	L	M
mrad	10	0.75	0.15	0.2	0.06	0.5	1	0.06	0.06	5	2	0.56
In/100yd	36	2.7	0.54	0.72	0.216	1.8	3.6	0.216	0.216	18	7.2	2.0
cm/100m	100	7.5	1.5	2	0.6	5	10	0.6	0.6	50	20	5.6

Premier Reticle Patterns
Premier Gen 2 Extreme Range

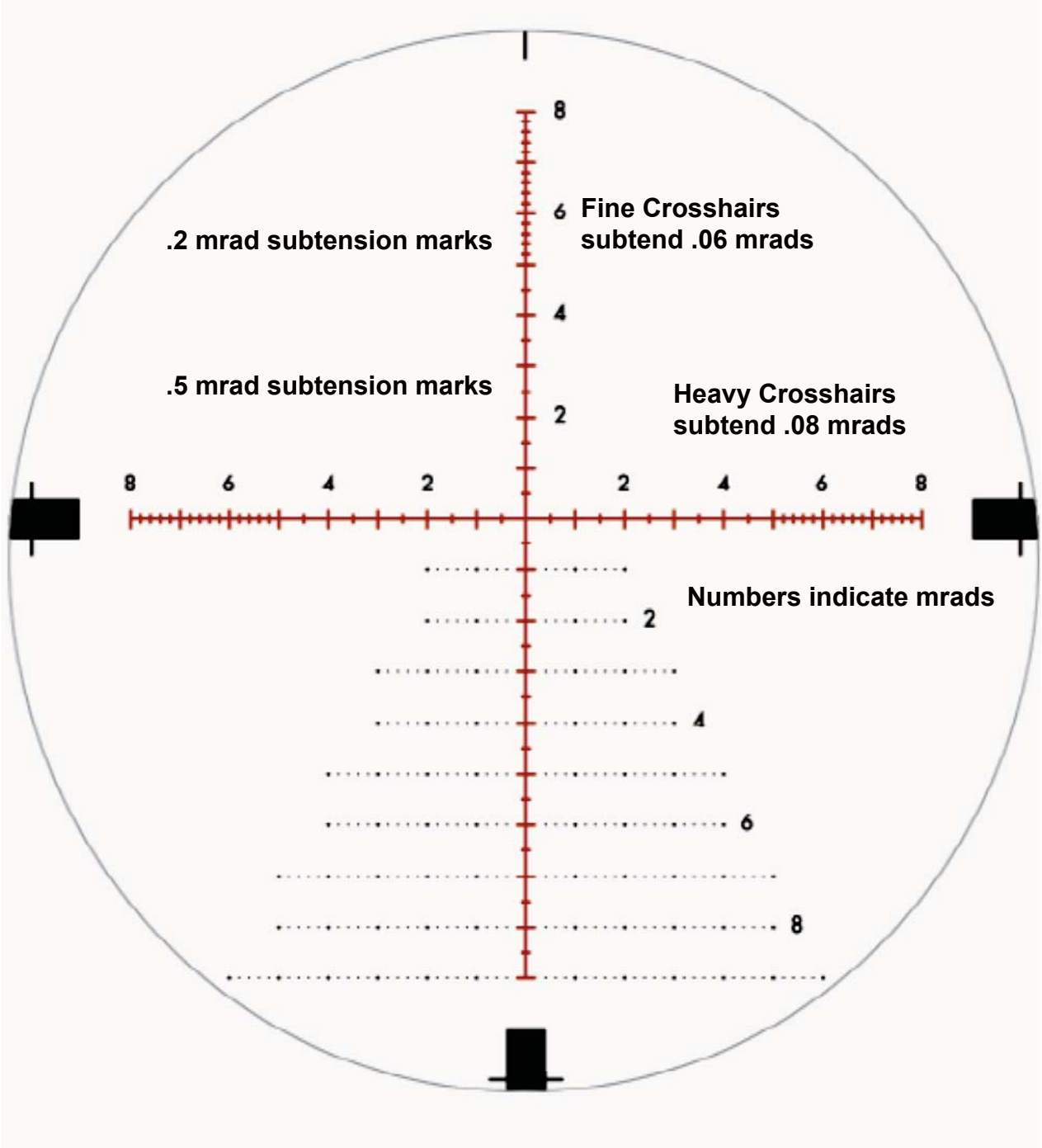


Units	A	B	C	D	E	F	G	H	J	K	L	M	N	P
mrad	0.75	0.30	0.10	10	0.025	1.0	0.5	0.2	2.5	0.025	0.2	0.25	0.025	10
in/100yd	2.7	1.08	0.36	36	0.075	3.6	1.8	0.72	18	0.075	0.72	0.75	0.075	36
cm/100m	7.5	3.0	1.0	100	0.25	10	5	2	25	0.25	2	2.5	0.25	100

Premier Reticles Ltd.

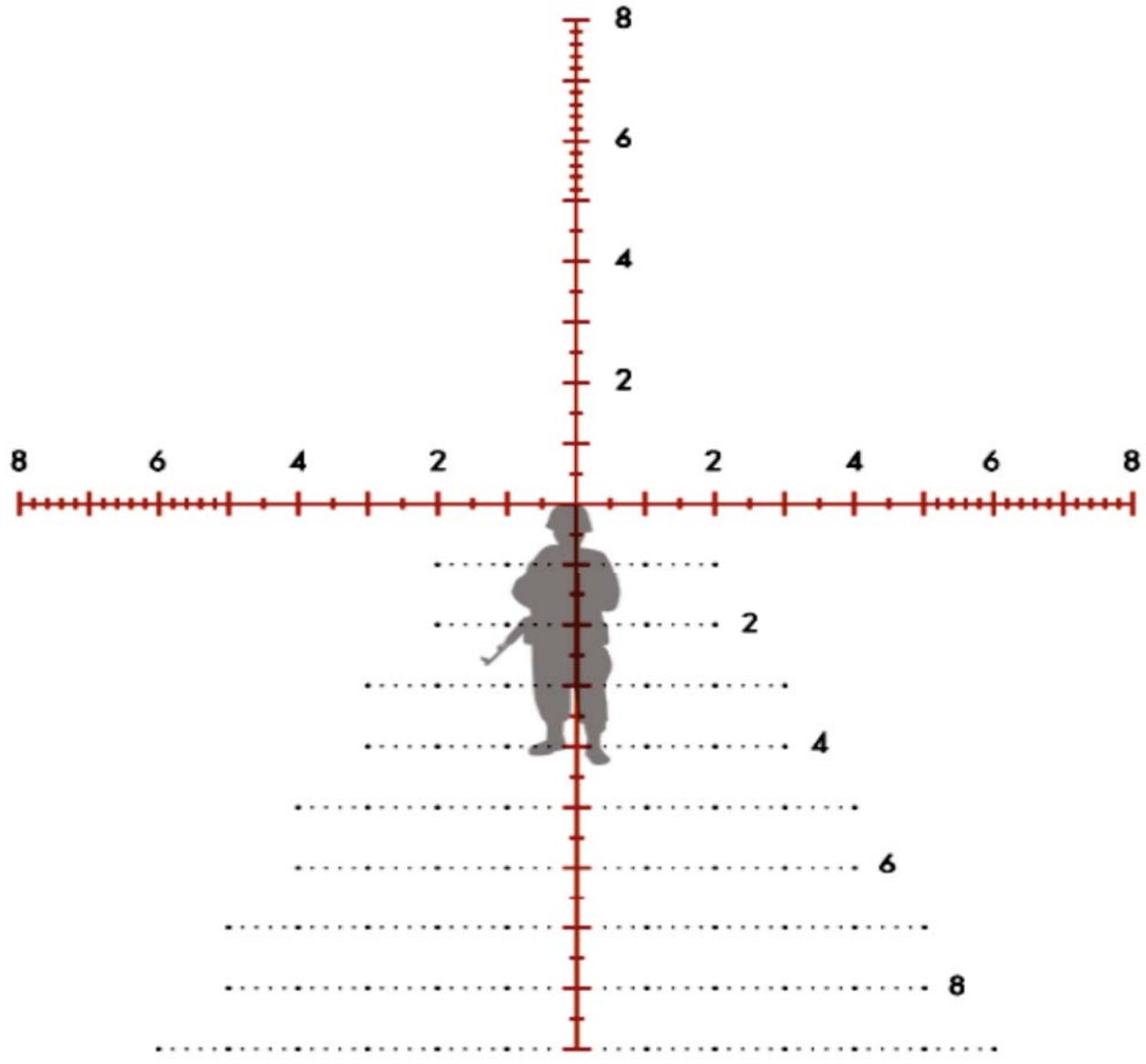
175 Commonwealth Ct
Winchester, Va 22602
540-868-2044

Vortex Razor HD
EBR-2 MRAD Reticle



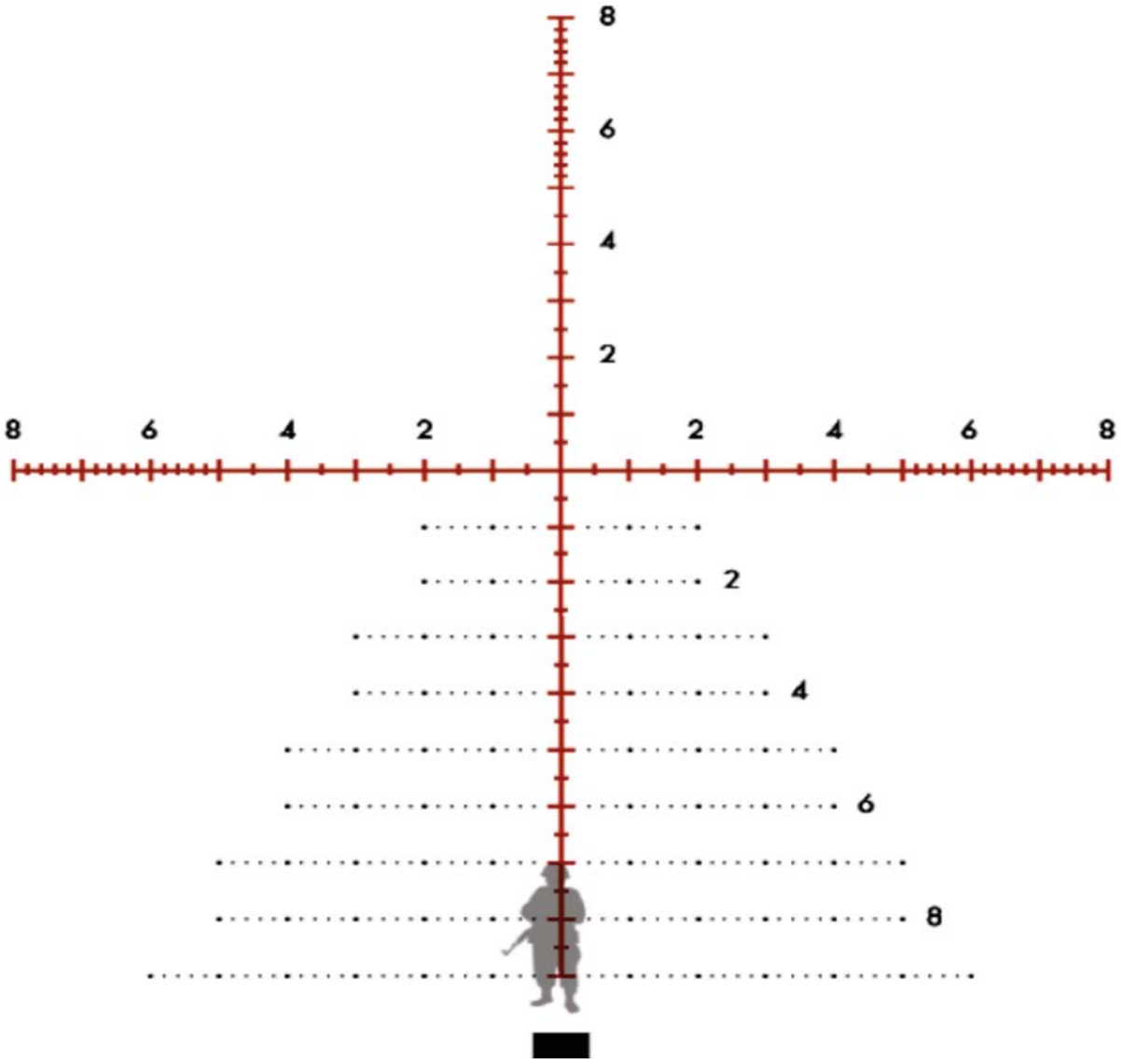
Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples

[Target Size (Meters) x 1000]/mrads Read = Range(Meters)
[Target Size (Yards) x 1000]/mrads Read = Range (Yards)
[Target Size (Inches) x 27.77]/mrads Read = Range (Yards)



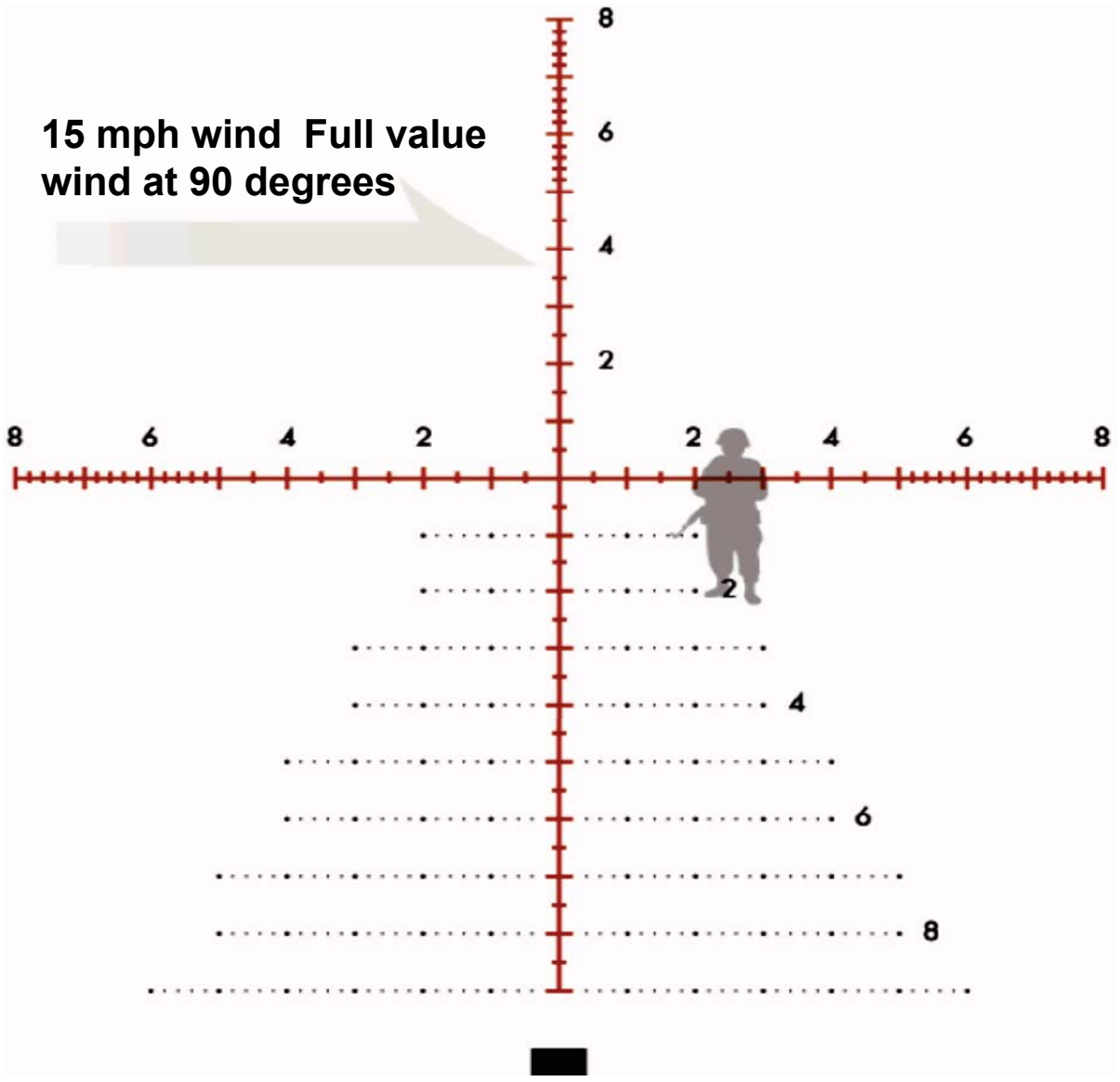
Ranging a 6-foot figure (2 yards) at 4 mrads to get 500 yards.
[2 x 1000]/4 mrads = 500 Yards

Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples



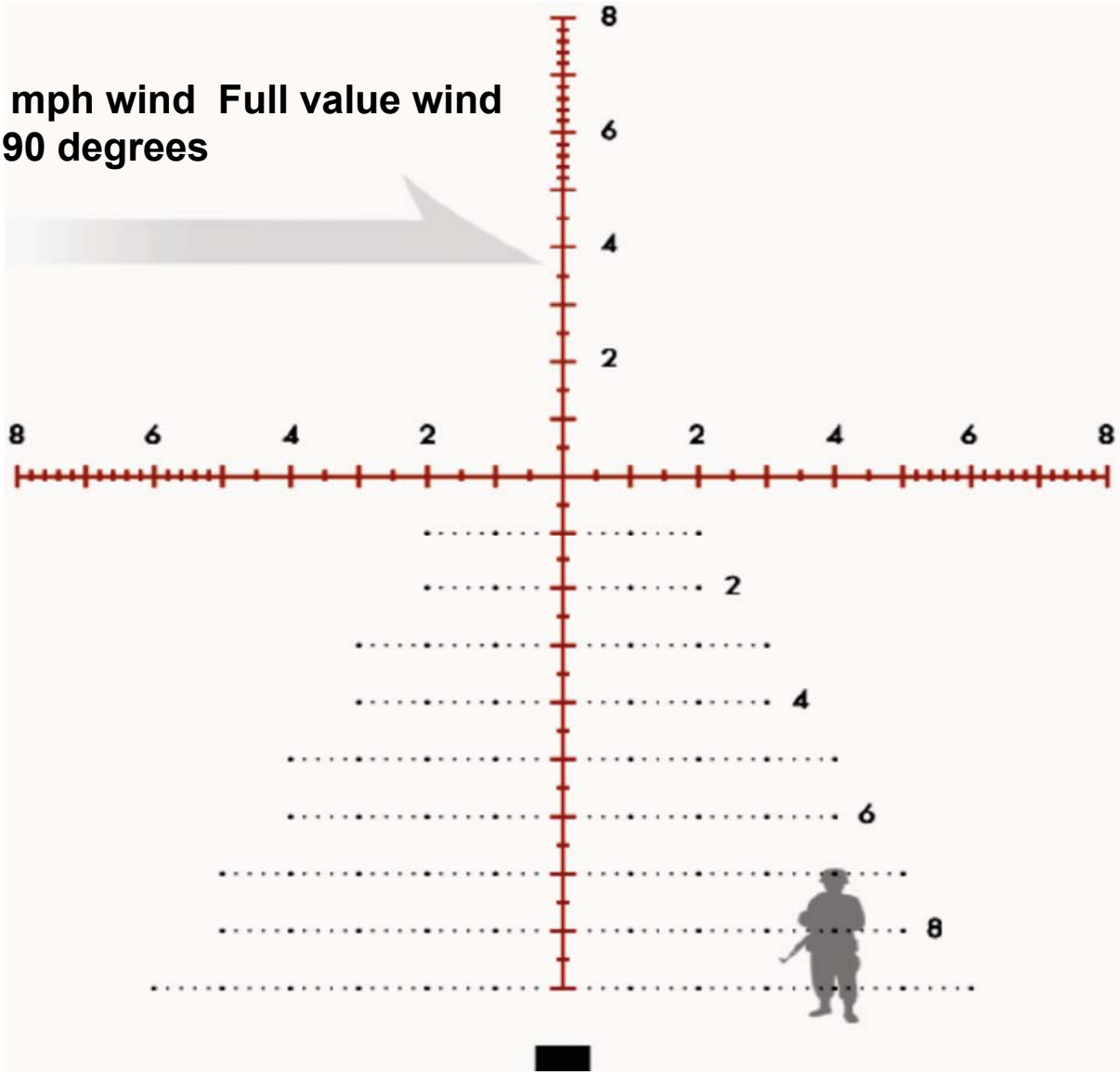
7.7 mrad reticle holdover correction for 800 yard shot using 7.62mm with 175 gr. SMK. No wind.

Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples



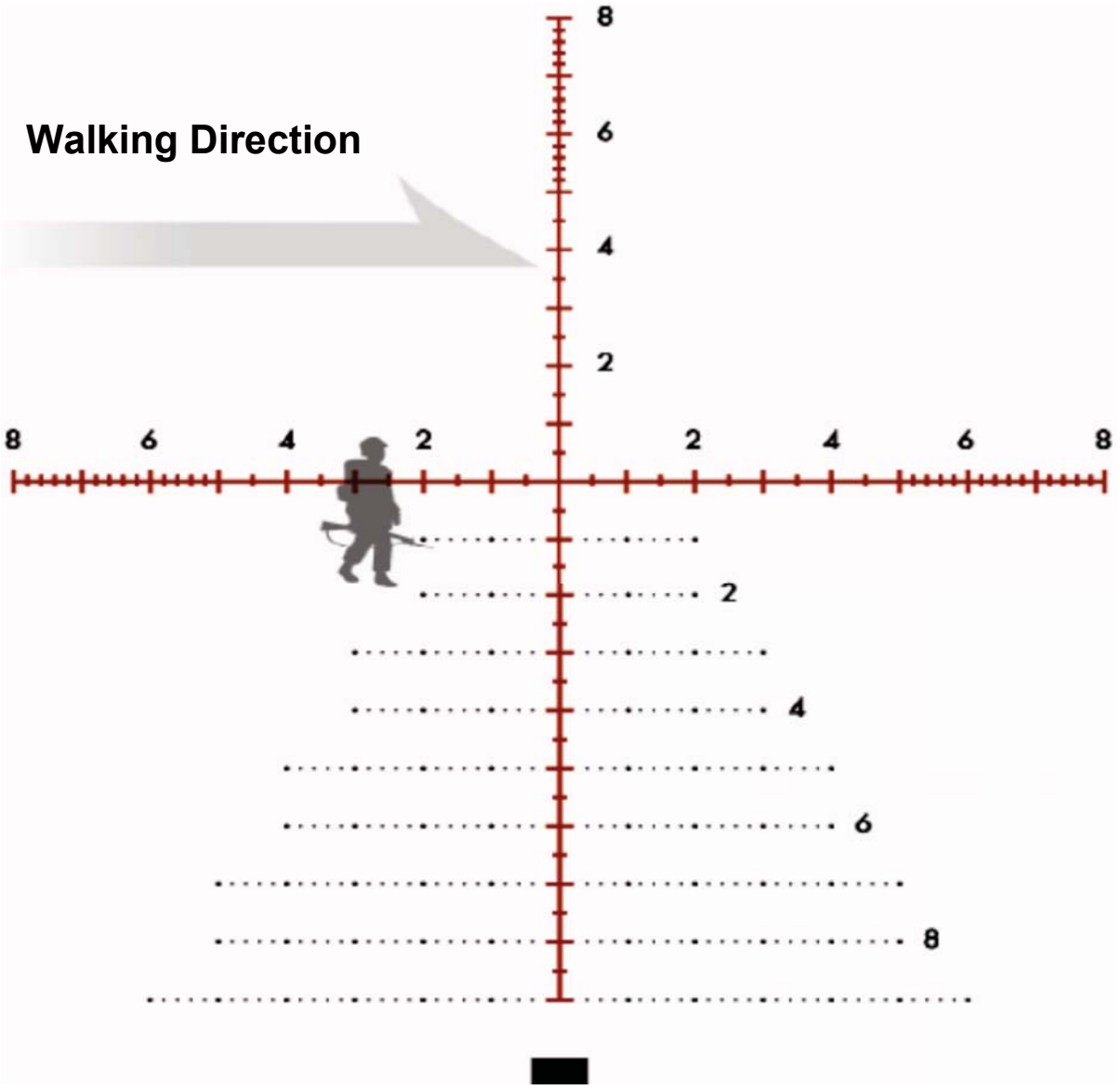
2.6 mrad reticle correction for 15 mph wind at 700 yards using 7.62mm with 175 gr. SMK. Elevation already dialed into turret.

Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples



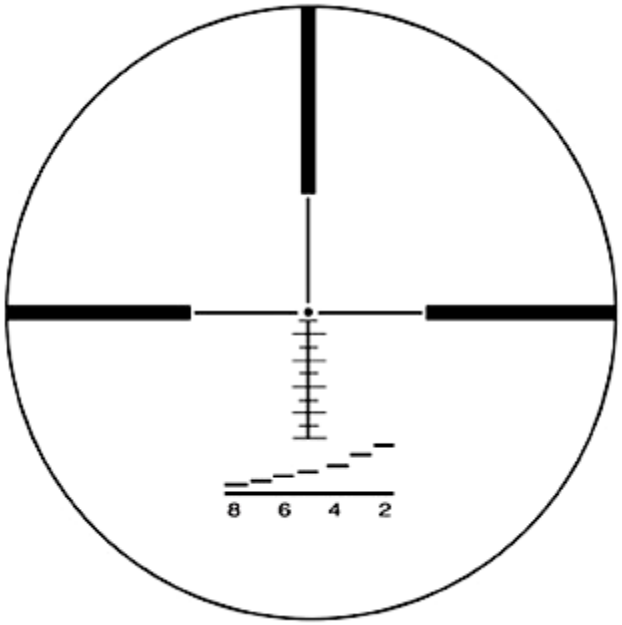
4.2 mrad reticle windage correction for 20 mph wind at 800 yards with 7.62mm with 175 gr. SMK using 7.7 mrad reticle drop line.

Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples

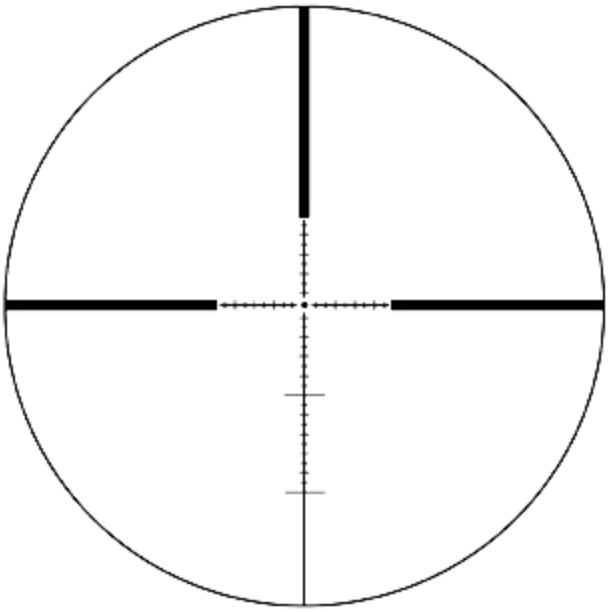


2.74 mrad reticle correction for a figure walking 3 mph at a distance of 800 yards. 7.62mm with 175 gr. SMK. No wind. Total bullet time of flight from moment of trigger pull is 1.5 seconds during which the figure travels 6.6 feet. Elevation already dialed into turret.

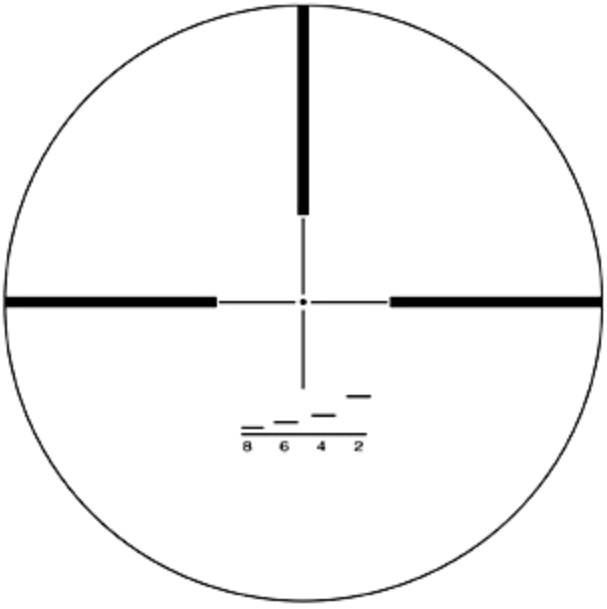
IOR Valdada Reticle Patterns



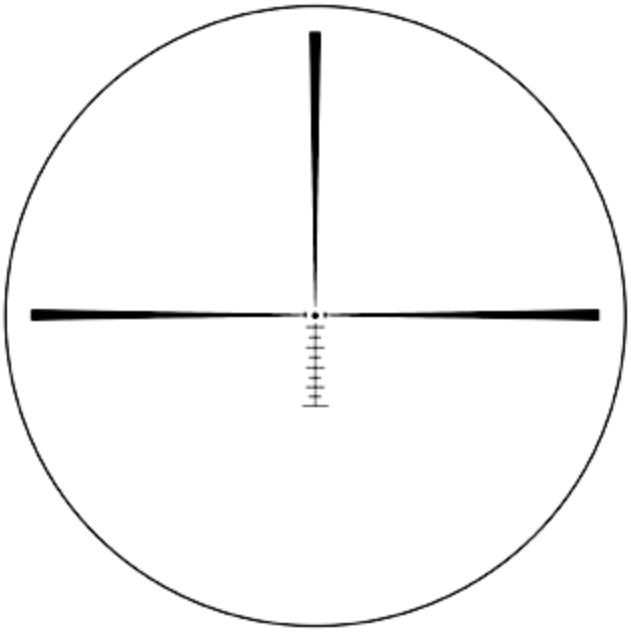
HR5



MP-8 Dot

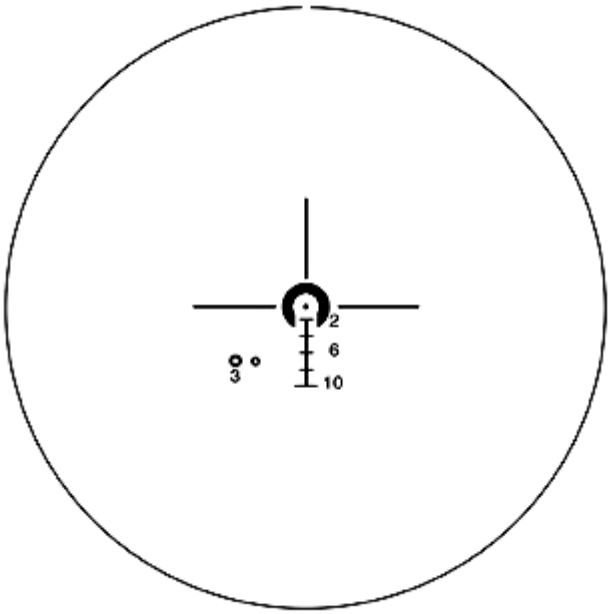


NATO

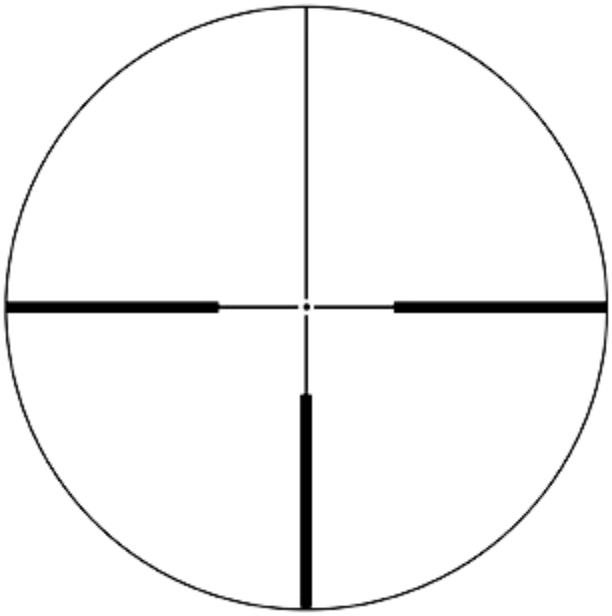


VRM Varmint

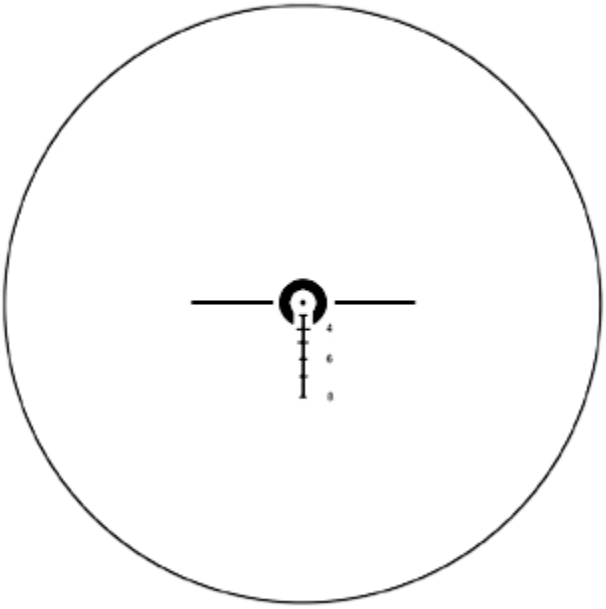
IOR Valdada Reticle Patterns



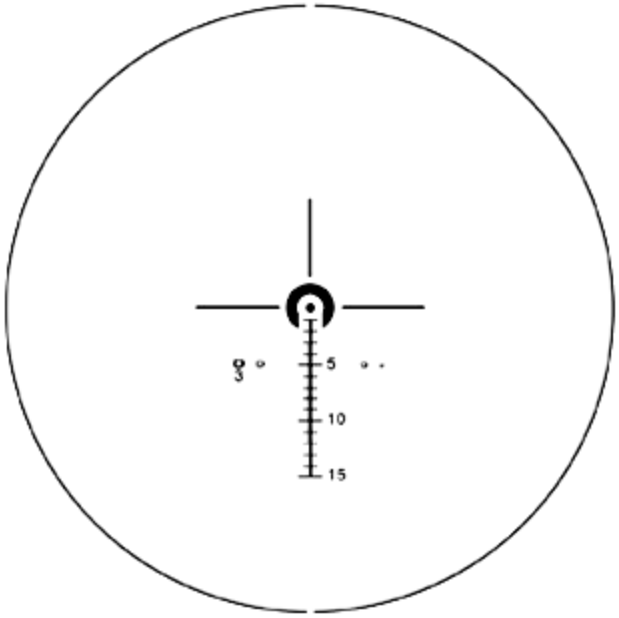
3x25



4A Dot



CQB-BDC



M Series CQB

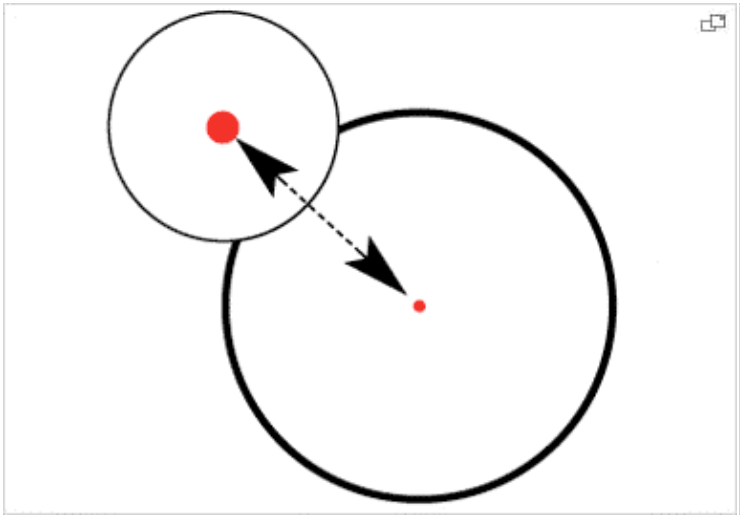
Zeiss Reticle Patterns

		Non-Illuminated Reticles								Reticles With Illumination										
Model	image plane	4	8	20	43	RZ 600	RZ 800	RZ 1000	RZ Varmint	0	40	43	44	56	60	66	RZ 600	RZ 800	RZ 1000	RZ Varmint
Victory Diarange with reticle in the 2nd image plane																				
Diarange 2.5–10x50 T*	2																●△	●△		
Diarange 3–12x56 T*	2																●△	●△		
Victory Varipoint with reticle in the 1st or 2nd image plane																				
Varipoint 1.1–4x24 T*	1+2									●△				●△						
Varipoint 1.5–6x42 T*	1+2									●△				●△						
Varipoint 2.5–10x42 T*	1+2									●△				●△						
Varipoint 2.5–10x50 T*	1+2									●△				●△						
Varipoint 3–12x56 T*	1+2									●△				●△						
Victory Diavari with reticle in the 1st image plane																				
Diavari 1.5–6x42 T*	1	●	●																	
Diavari 2.5–10x42 T*	1	●	●																	
Diavari 2.5–10x50 T*	1	●	●								●		●		●	●				
Diavari 3–12x56 T*	1	●	●		●						●	●	●		●	●				
Victory Diavari with reticle in the 2nd image plane																				
Diavari 6–24x56 T*	2	●			●			●	●		●	●			●				●	●
Diavari 6–24x72 T* FL	2										●	●			●				●	●
Conquest																				
1.8x5.5x38 MC	2			●																
2.5-8x32 MC	2			●																
4x32 MC	2			●																
3-9x40 MC	2	●		●		●														
3.5-10x44 MC	2	●		●	●	●	●													
4.5-14x44 MC	2	●		●	●		●	●												
3-9x50 MC	2	●		●		●														
3.5-10x50 MC	2	●		●	●	●	●													
4.5-14x50 MC	2	●		●	●		●	●												
6.5-20x50 MC	2	●		●	●			●	●											
3-12x56 MC	1		●																	

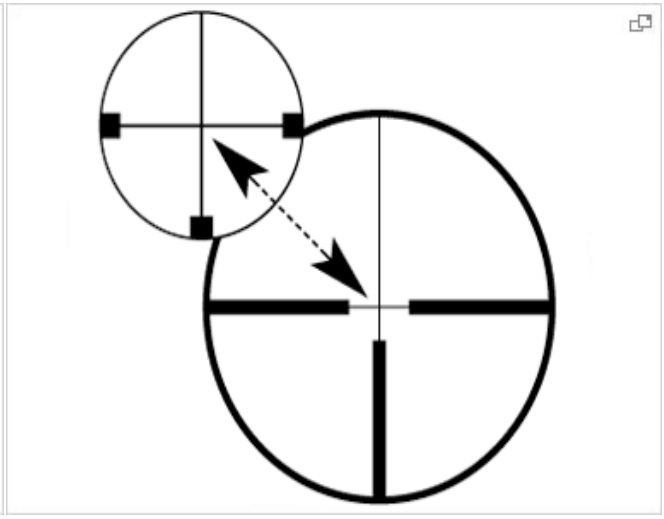
T* = Carl Zeiss T* multi-coating. FL = Fluoride Glass. △ Illuminated Reticles for Daytime and Twilight.

RETICLES BY MODEL

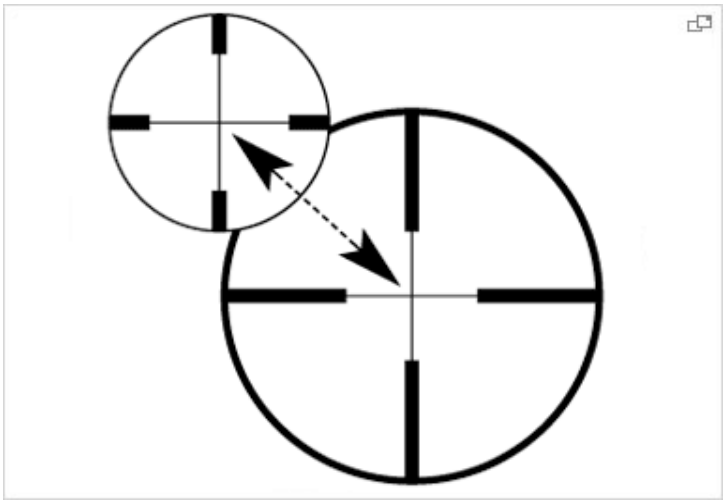
Zeiss Reticle Patterns



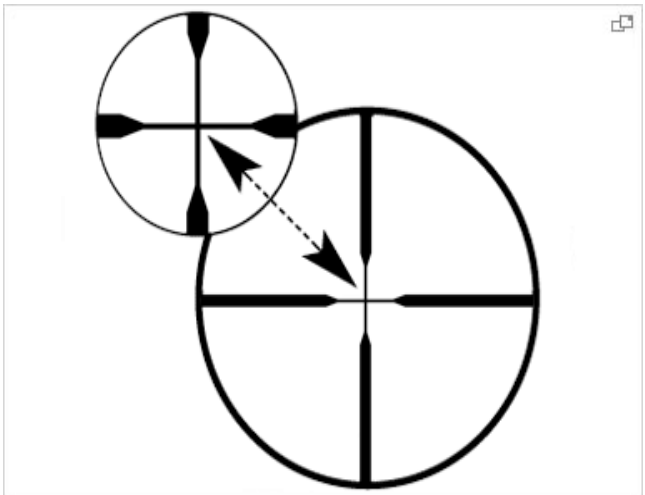
Reticle 0



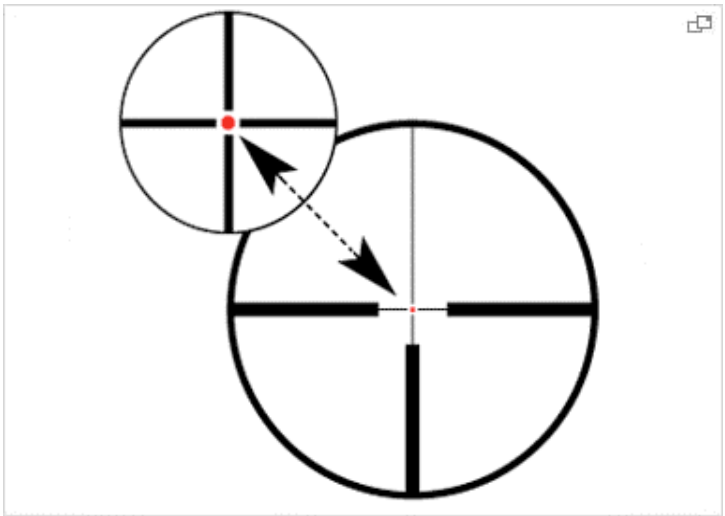
Reticle 4



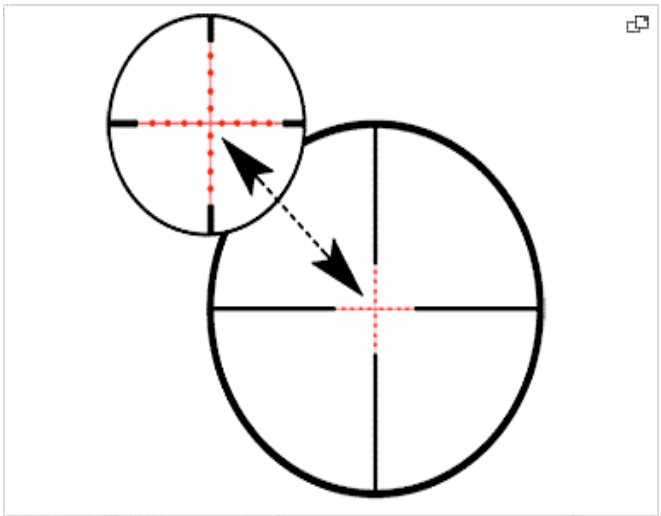
Reticle 8



Reticle 20 Z-Plex

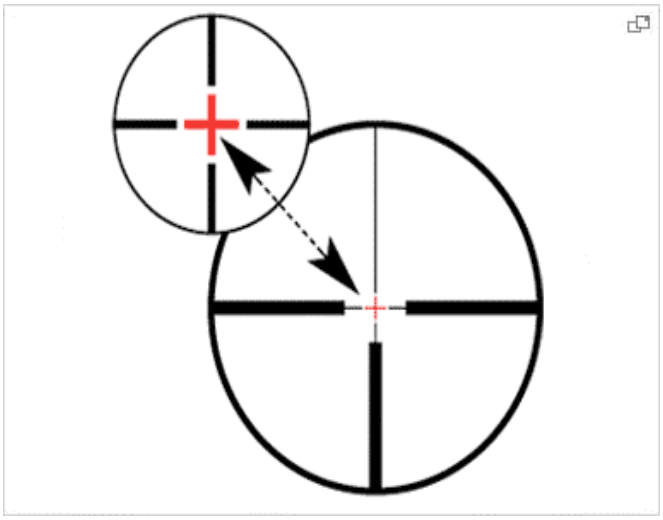


Reticle 40

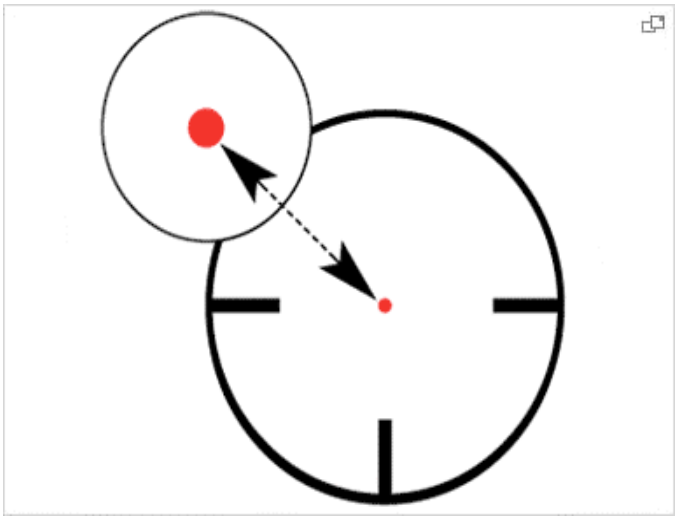


Reticle 43

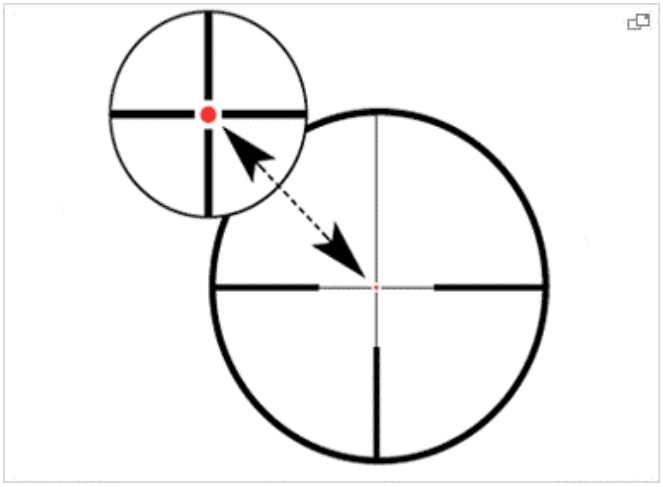
Zeiss Reticle Patterns



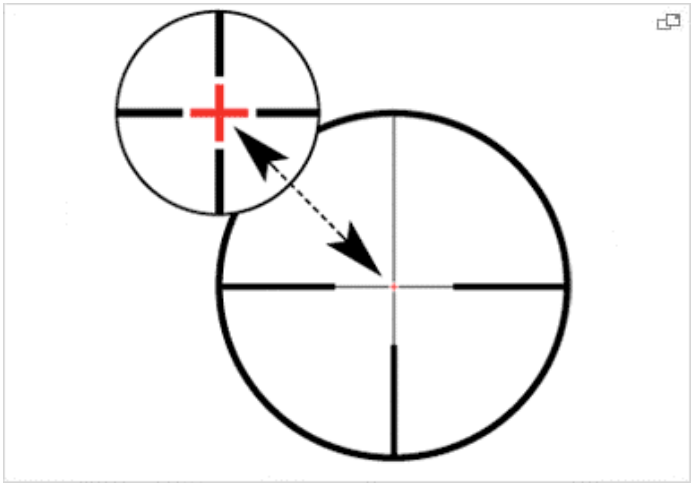
Reticle 44



Reticle 56

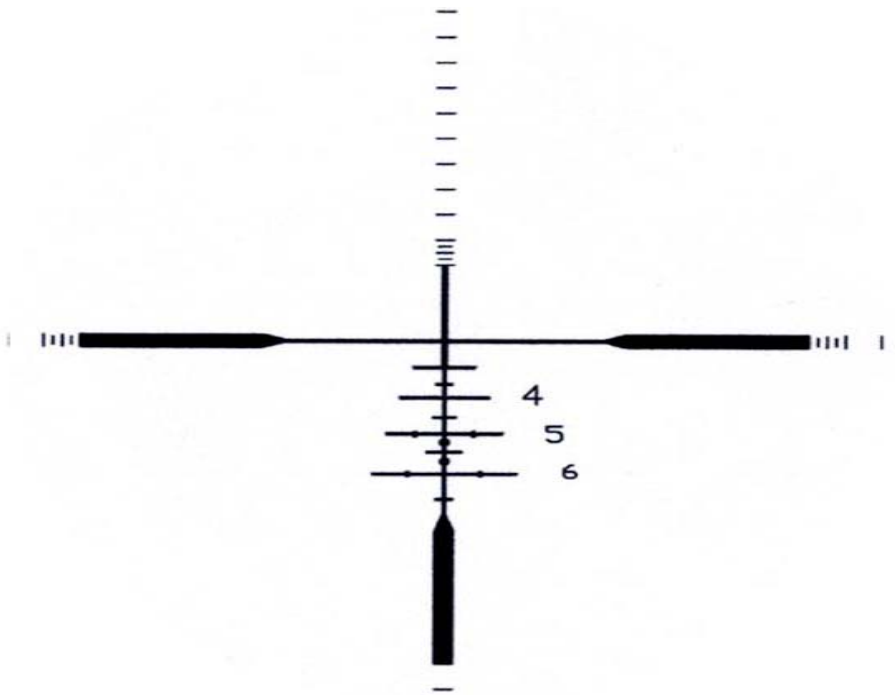


Reticle 60

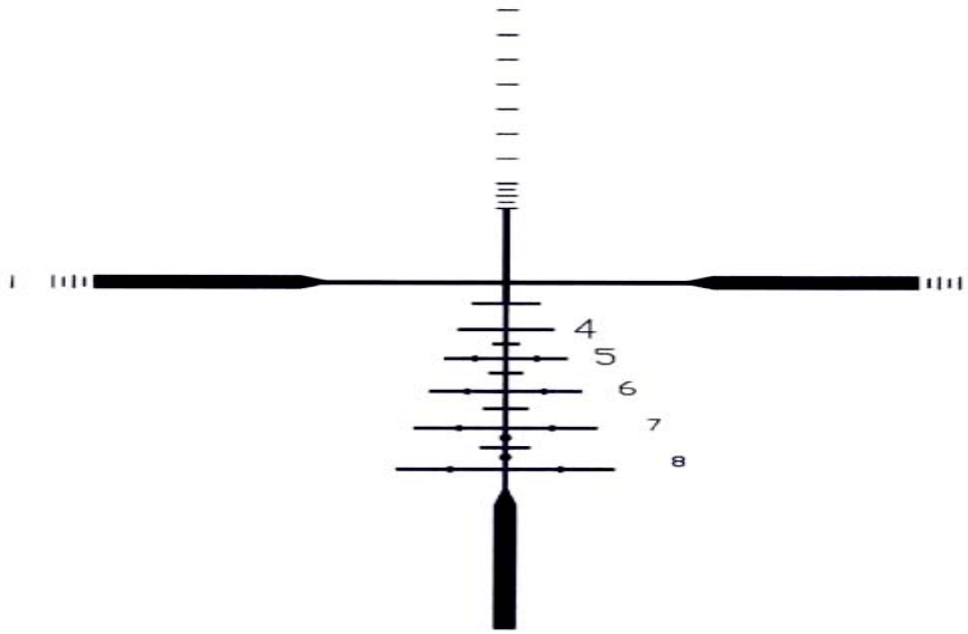


Reticle 66

Zeiss Rapid-Z Reticle Patterns

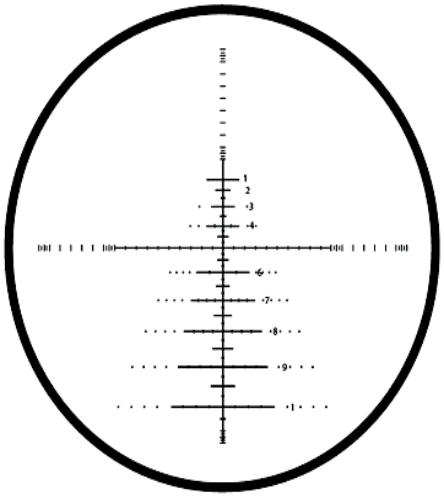


RAPID - Z ® 600

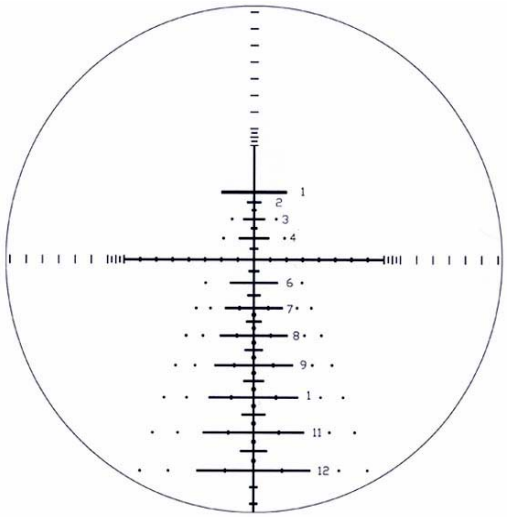


RAPID - Z ® 800

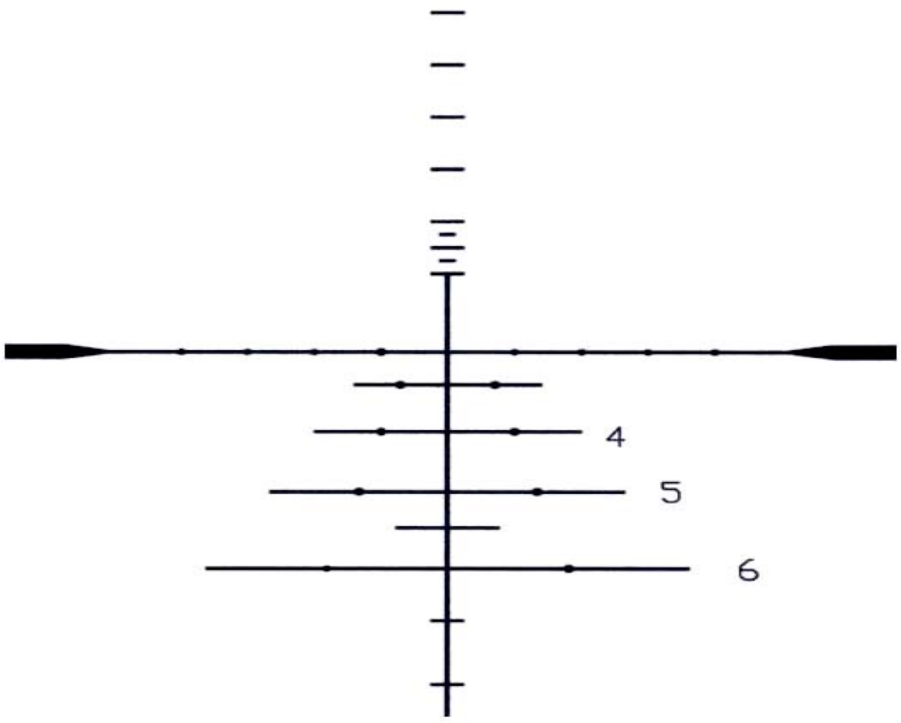
Zeiss Rapid-Z Reticle Patterns



RAPID - Z ® 1000

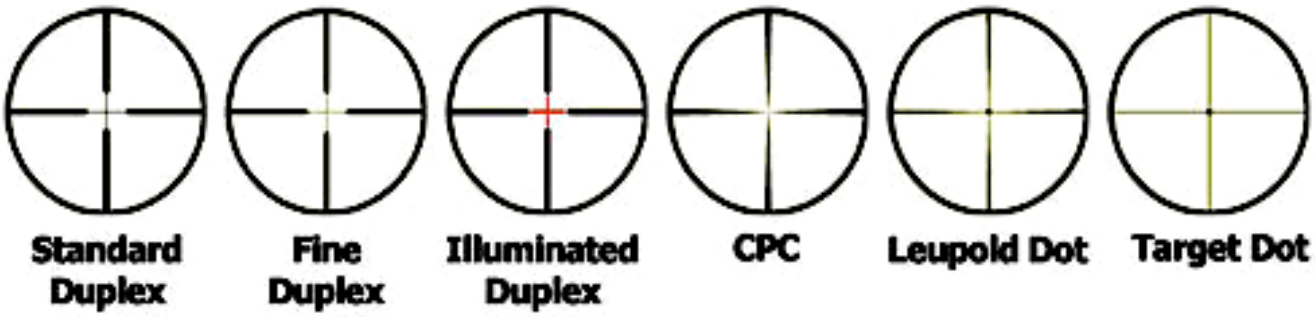


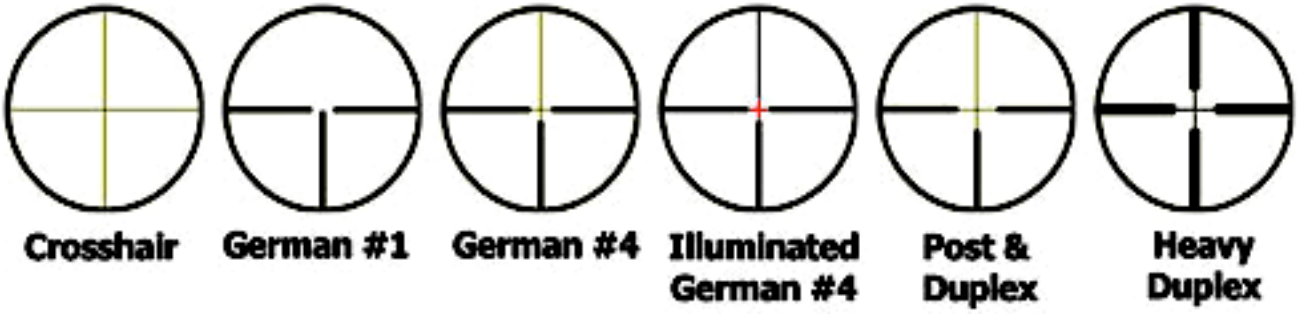
RAPID - Z ® 1200

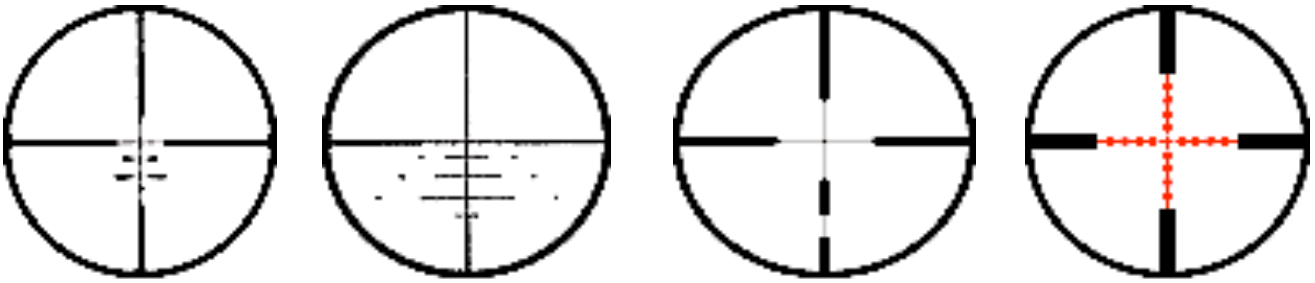


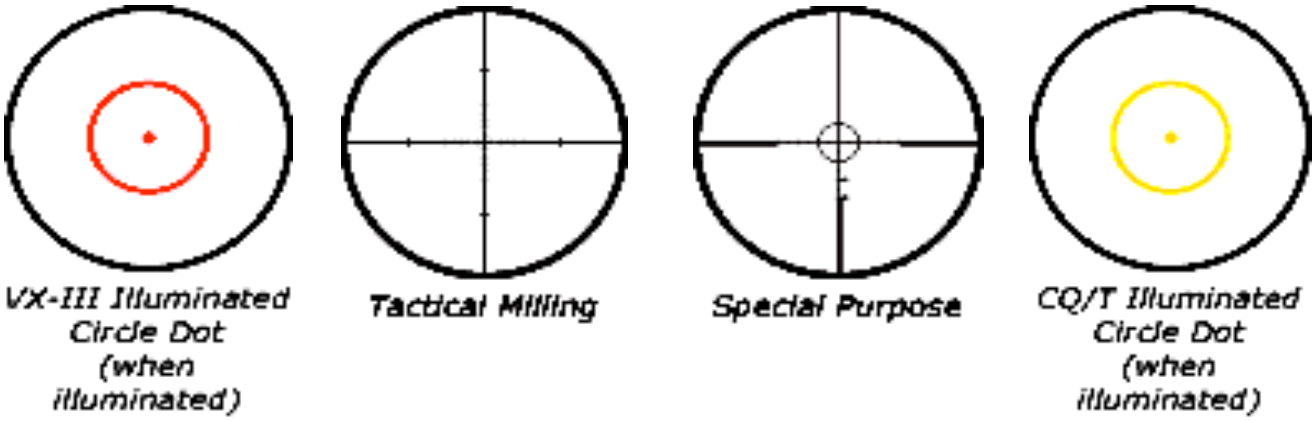
RAPID – Z ® VARMINTER

Leupold Reticle Patterns



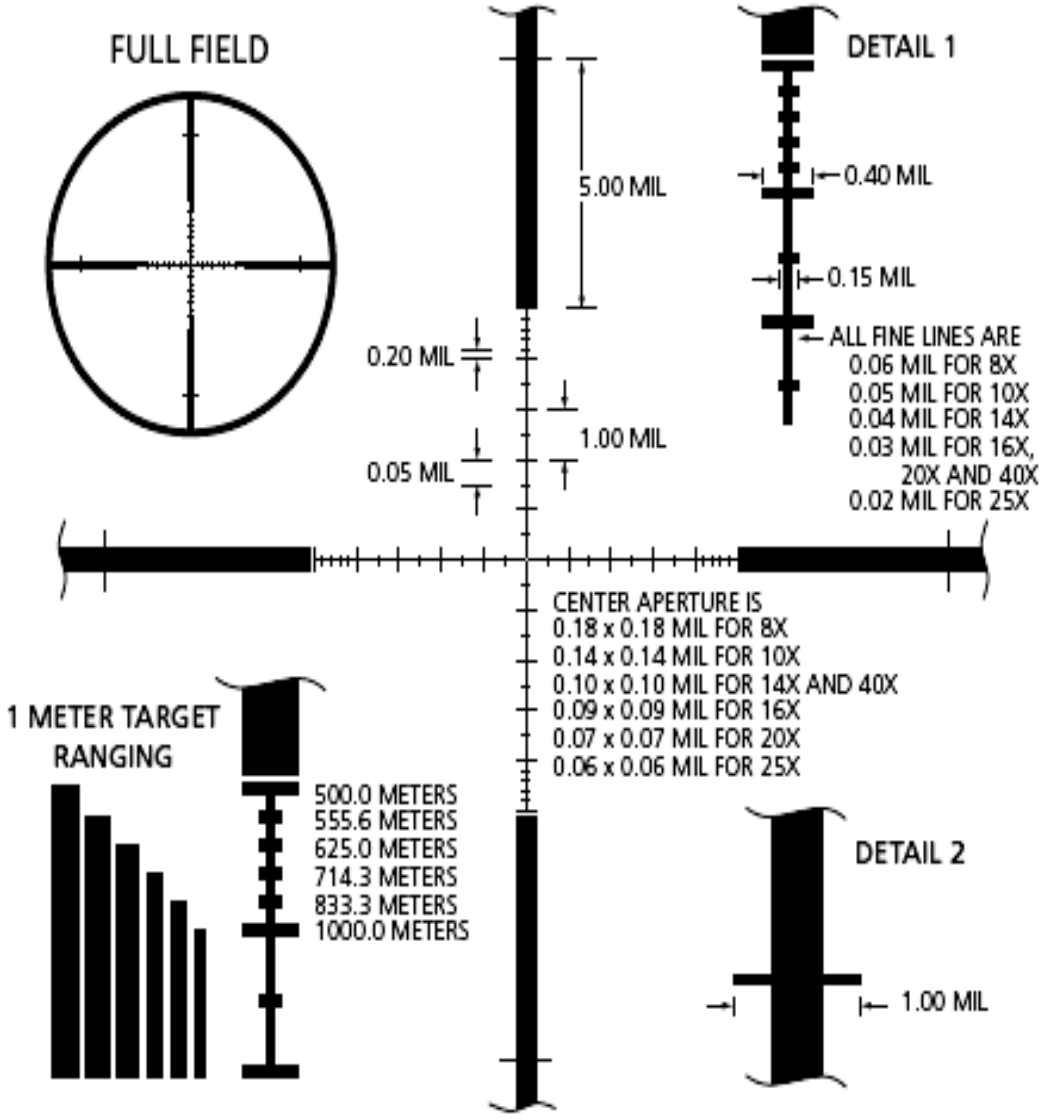






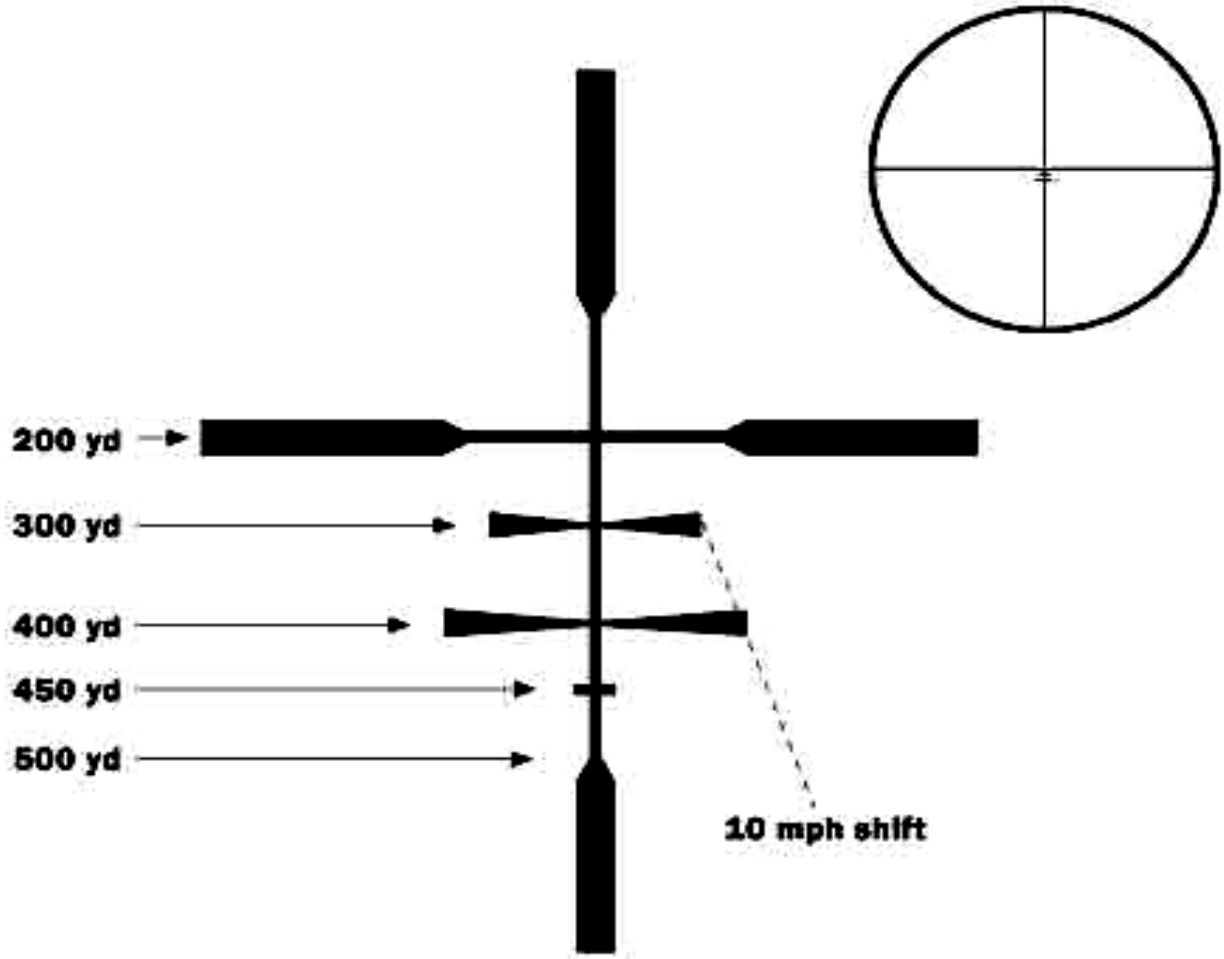
Leupold Reticle Pattern
Tactical Milling Reticle

TACTICAL MILLING RETICLE MEASUREMENTS



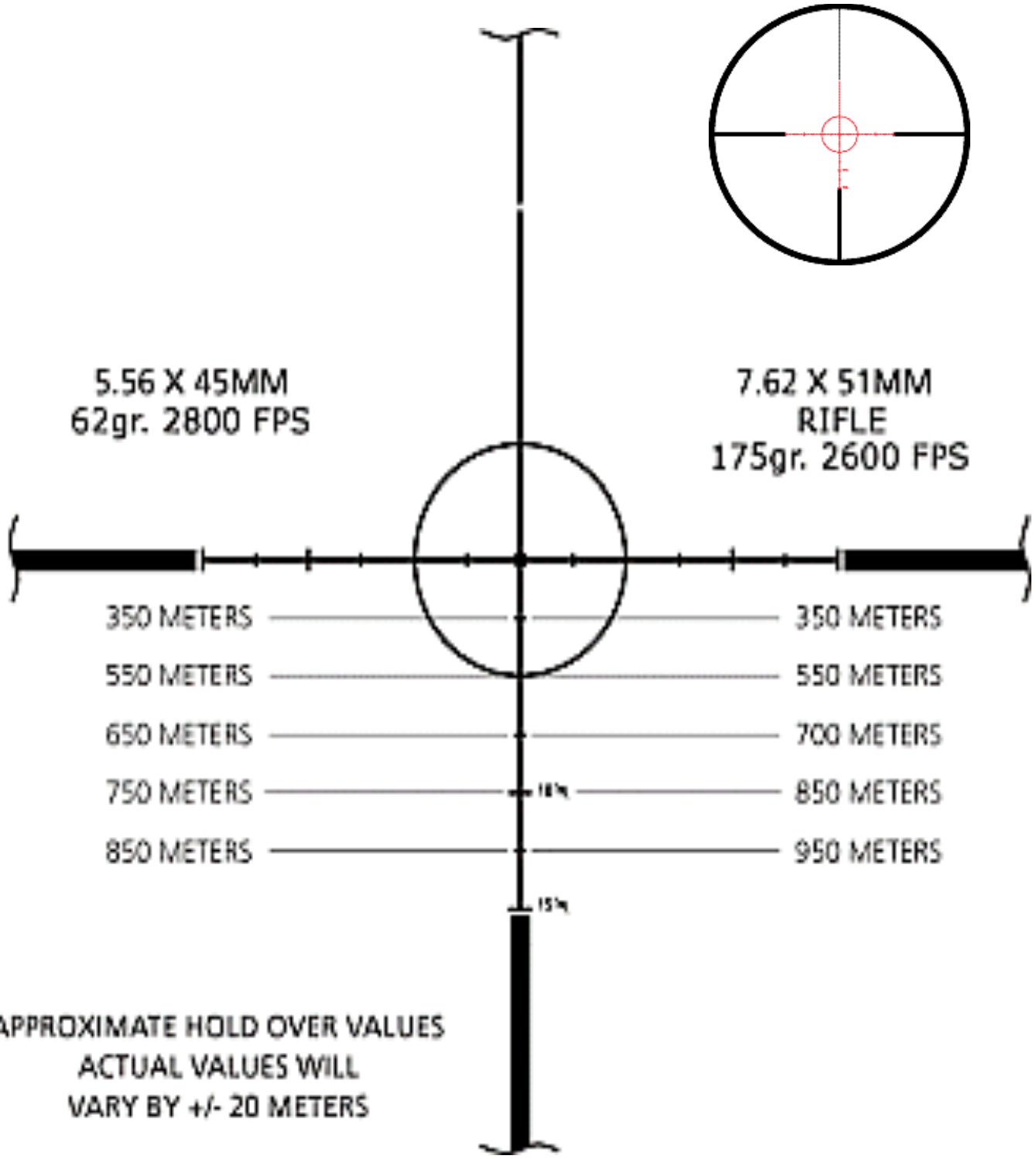
@100 Meters	5.0 mil = 18.000" 1.0 mil = 3.600" 0.5 mil = 1.800" 0.4 mil = 1.400"	0.20 mil = 0.720" 0.15 mil = 0.54" 0.10 mil = 0.360" 1.0 mil = 3.438 Minutes of Angle = 3.600"

Leupold Reticle Patterns
(Detail – Boone & Crockett Reticle)

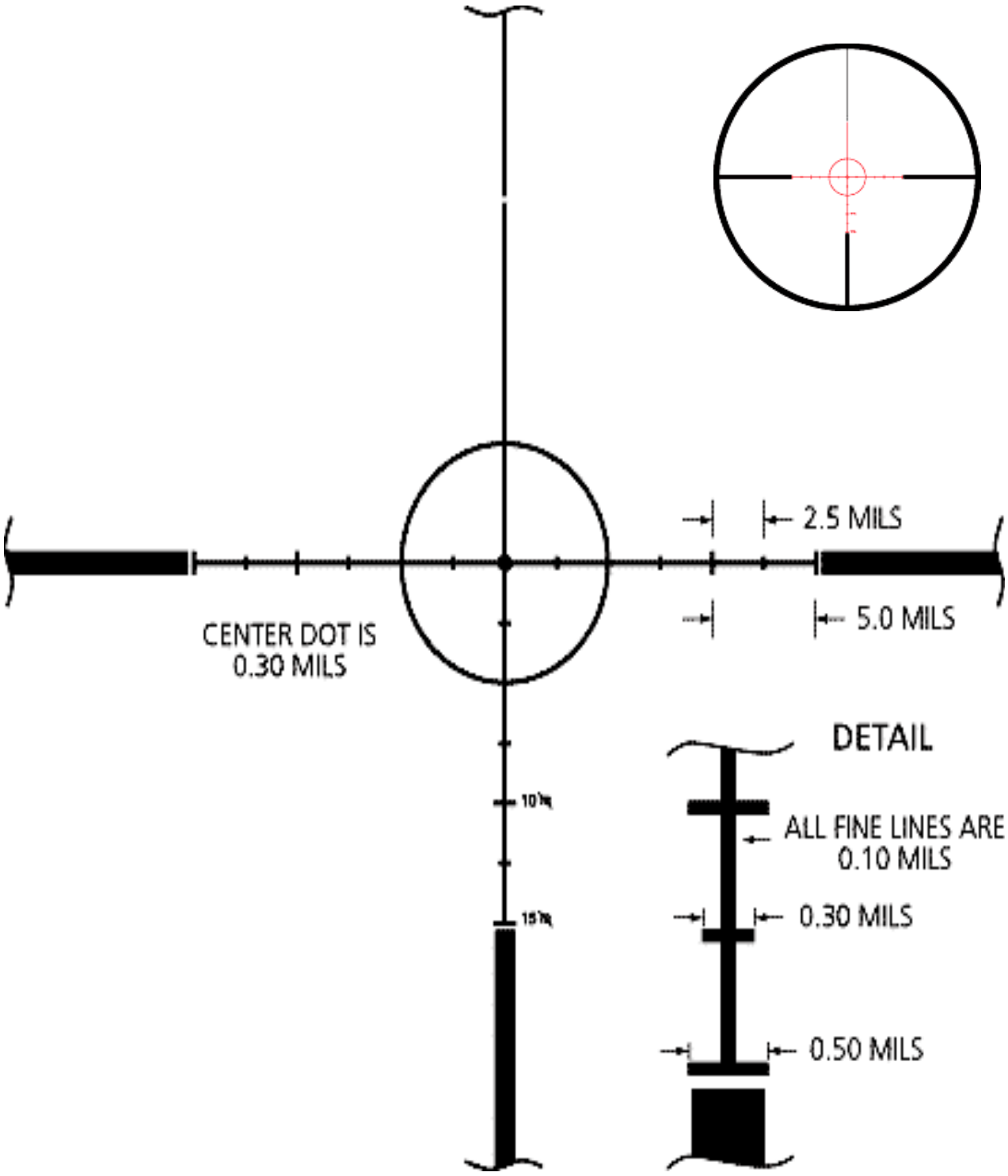


Range	Power Selector Values		10 MPH Drift
	Large ▼ Bullet Drop	Small ▼ Bullet Drop	
200 yd MOA	0.00	0.00	—
200 yd inches	0.00	0.00	—
300 yd MOA	2.19	2.74	2.16
300 yd inches	6.88	8.61	6.79
400 yd MOA	4.80	6.00	3.03
400 yd inches	20.11	25.13	12.69
450 yd MOA	6.26	7.83	—
450 yd inches	29.50	36.87	0.00
500 yd MOA	7.82	9.775	—
500 yd inches	40.95	51.18	0.00

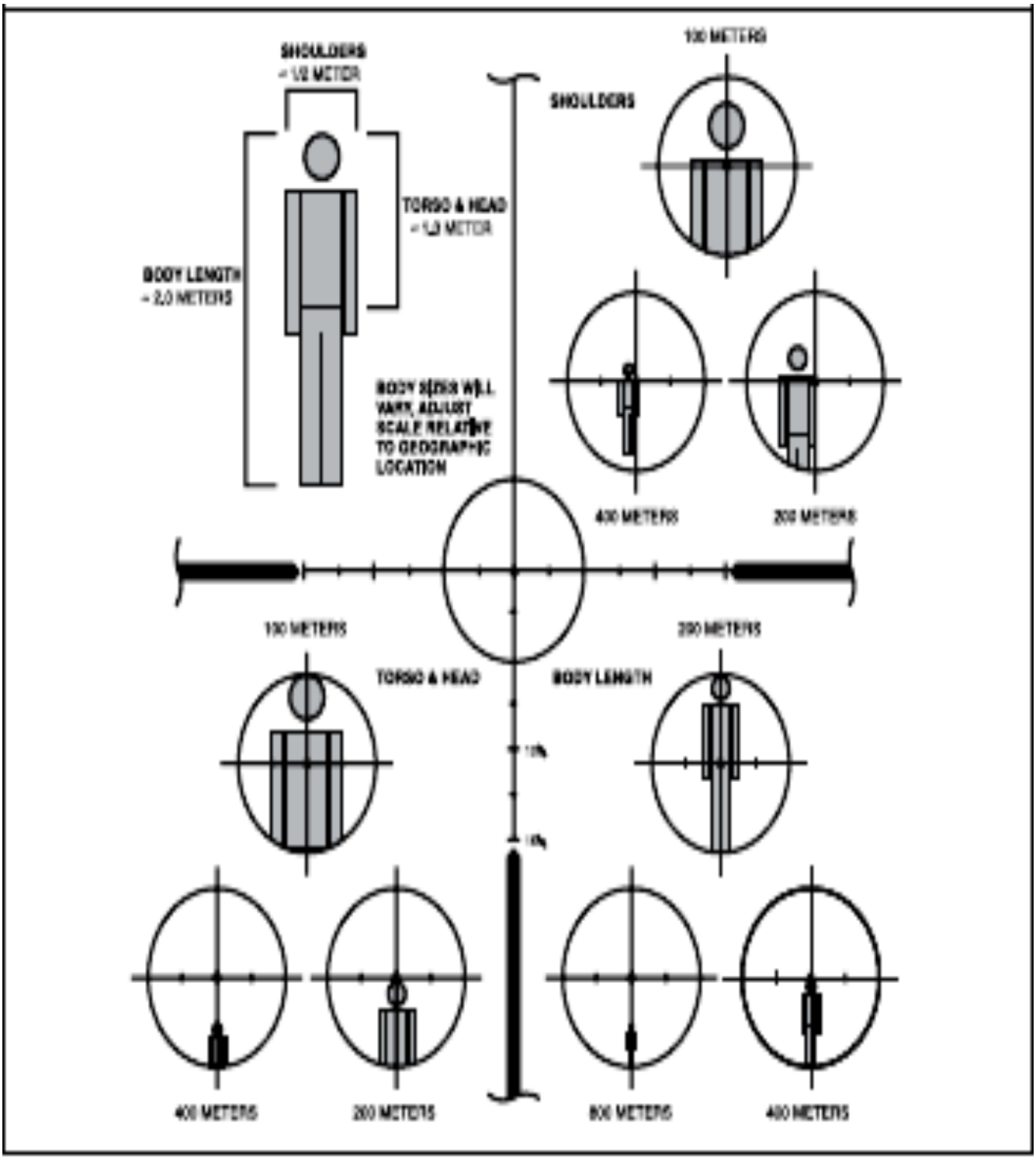
Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Holdover Diagram



Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Subtensions Diagram

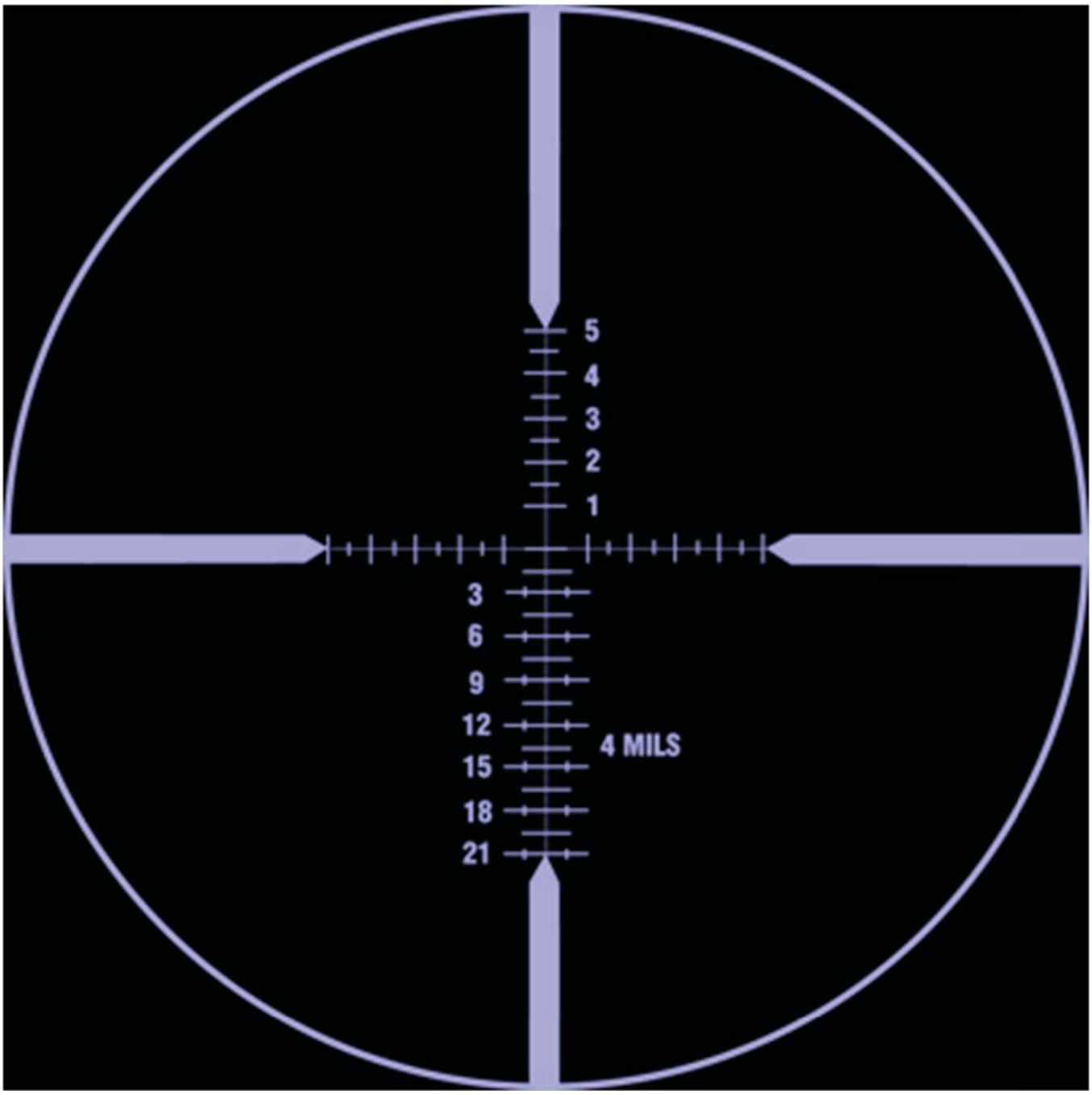


Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Range Estimating Methods



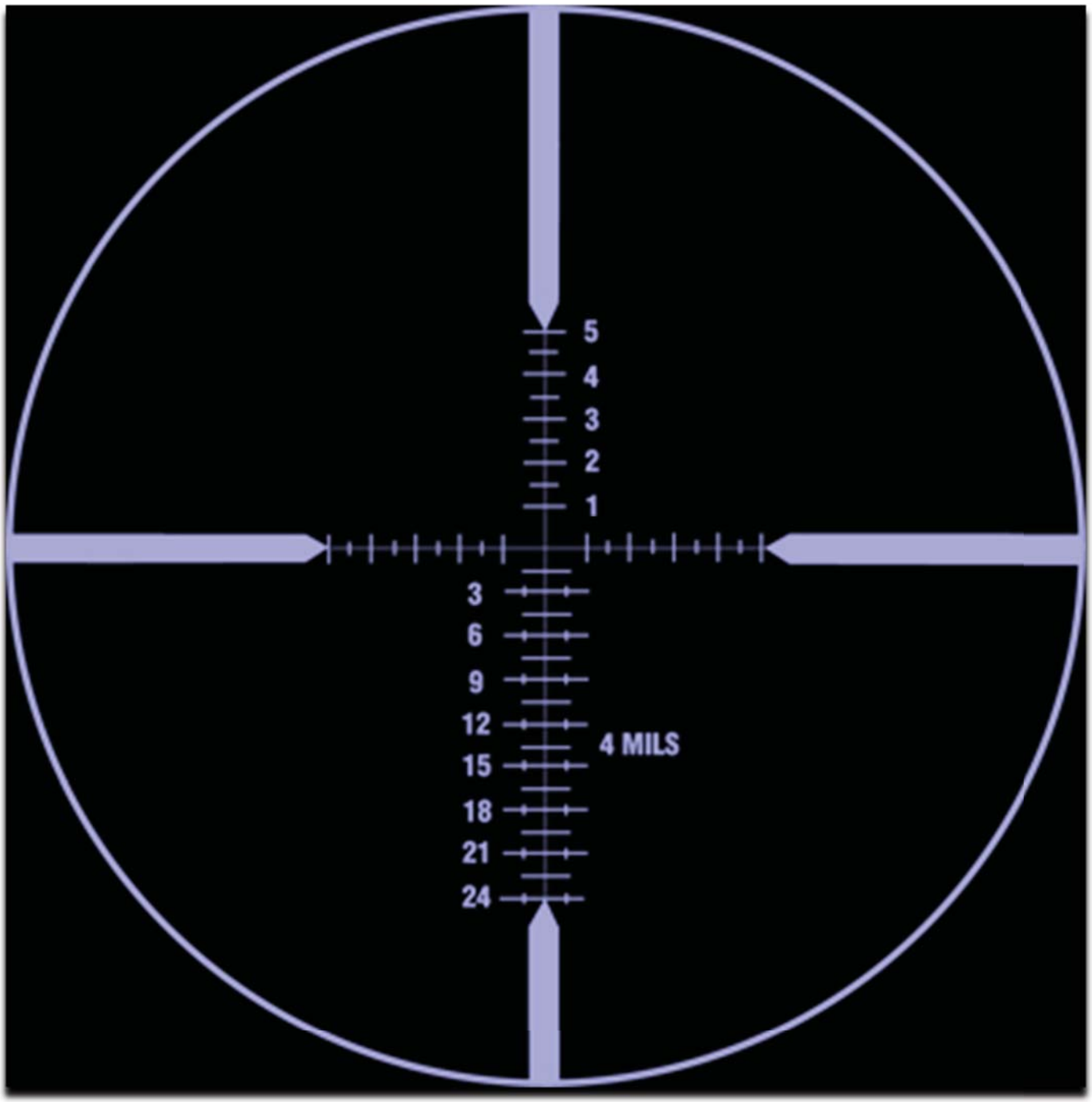
ART 21 MOA Reticle

Ranges in MOA or MILS



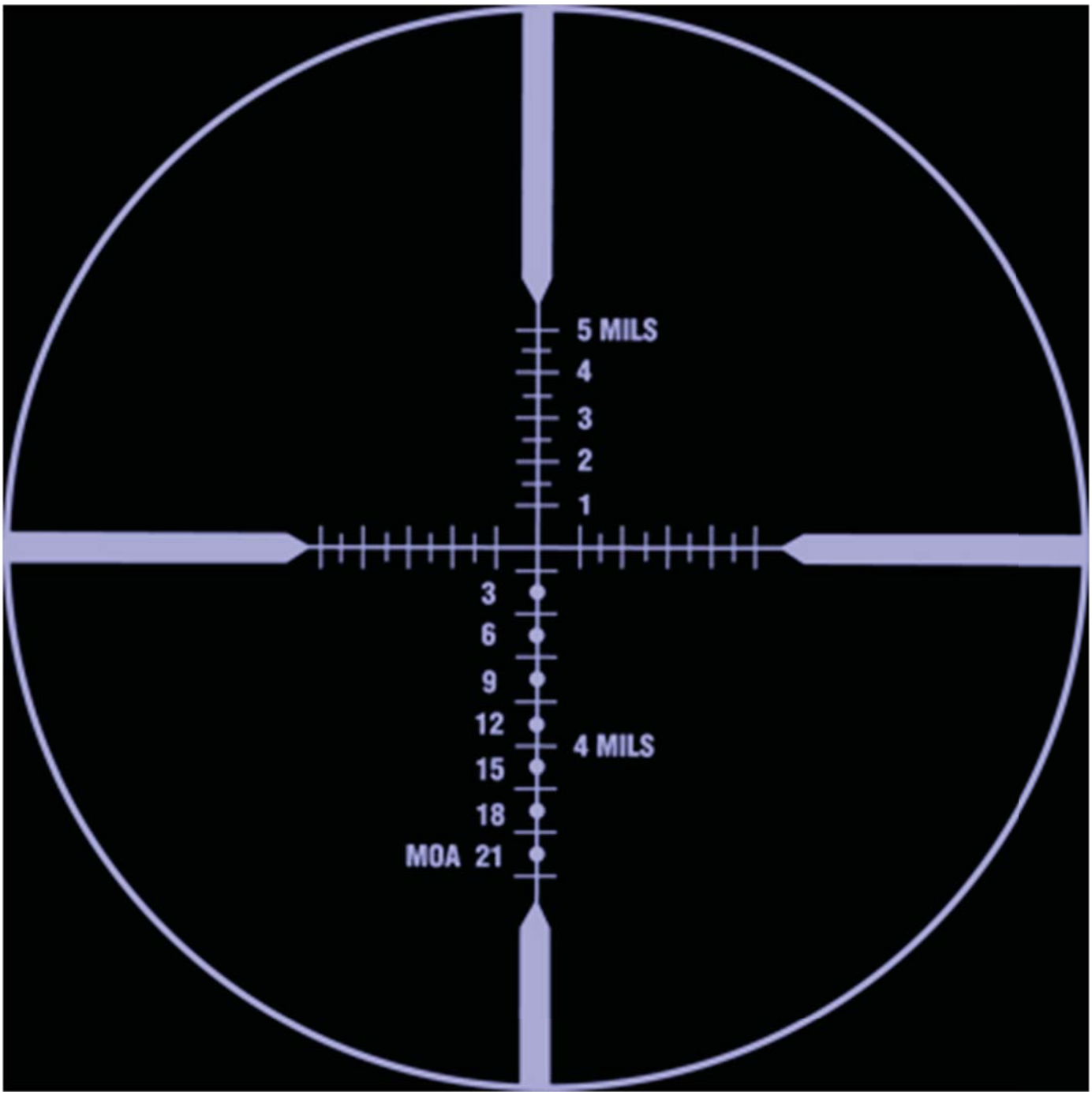
ART 24 MOA Reticle

Ranges in MOA or MILS



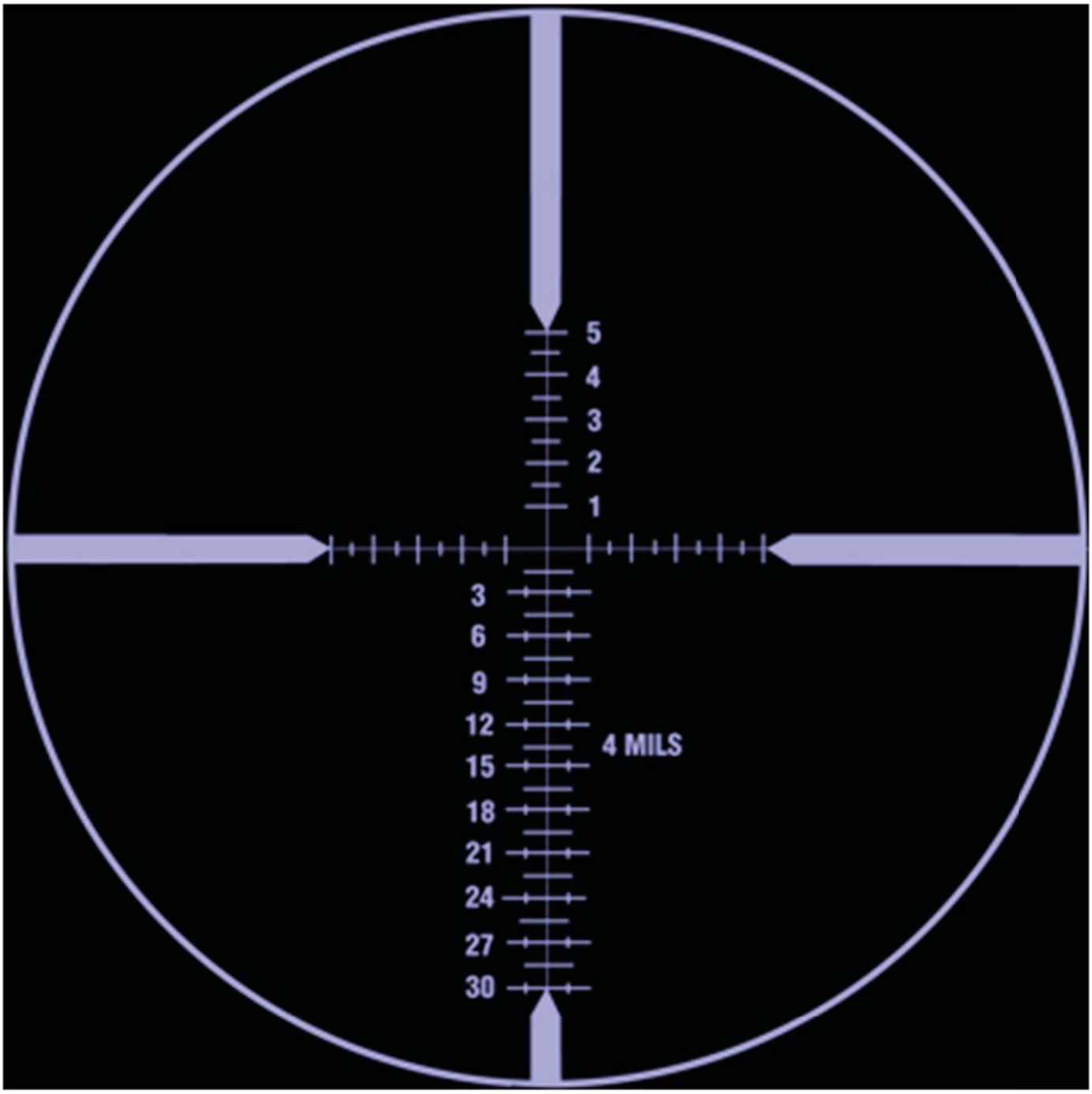
ART 24 MOA Bar-Dot Reticle

Ranges in MOA or MILS



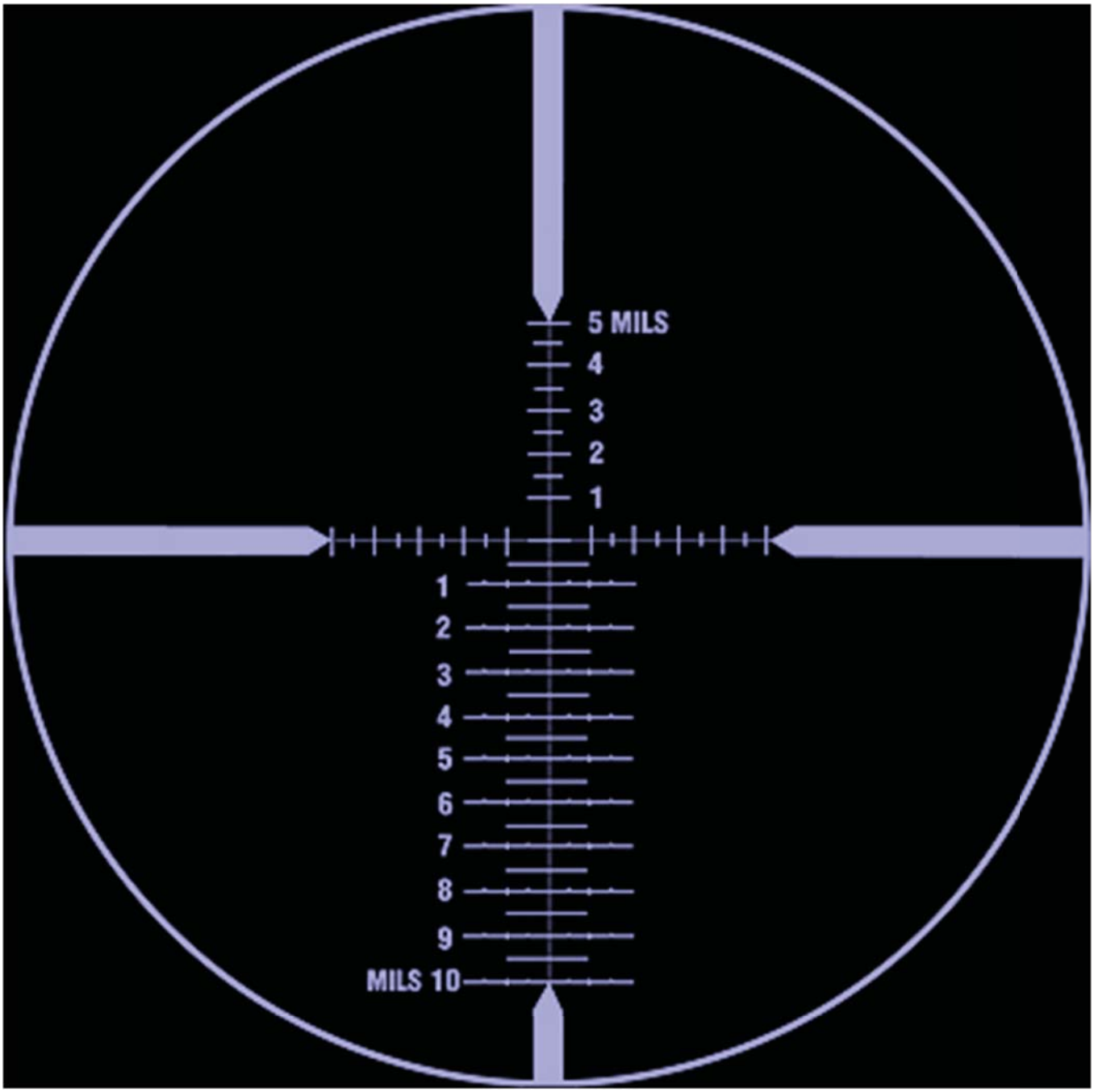
ART 30 MOA Reticle

Ranges in MOA or MILS

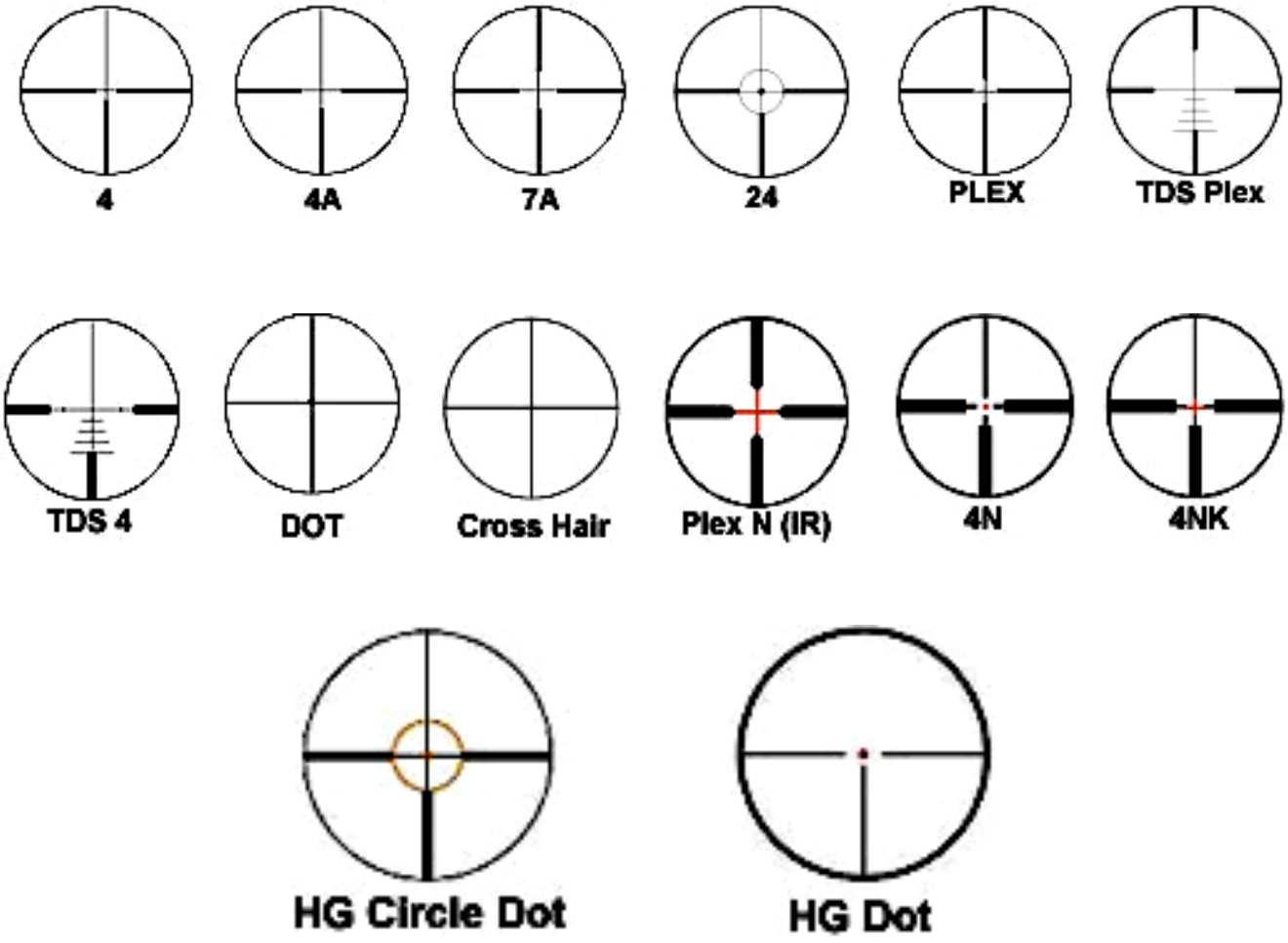


ART ULTIMATE MIL Reticle

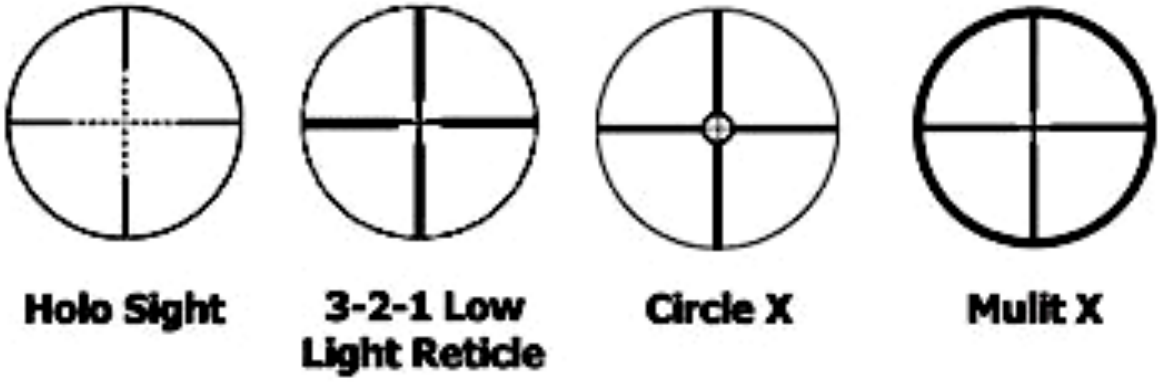
Ranges in MILS



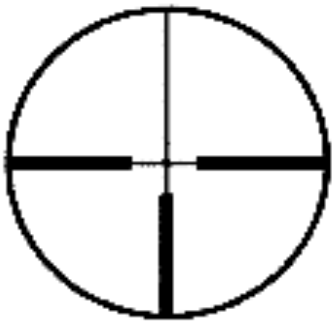
Swarovski Reticle Patterns



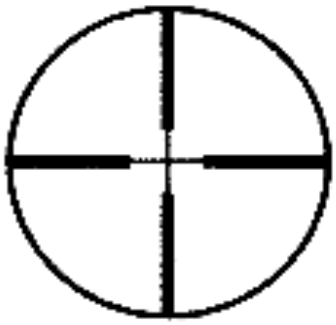
Bushnell Reticle Patterns



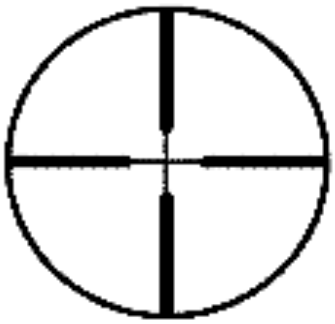
Kahles Reticle Patterns



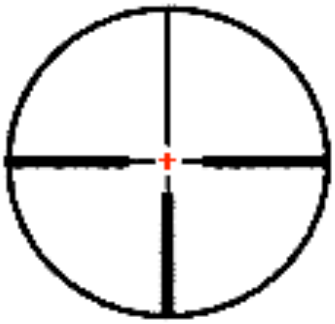
4A



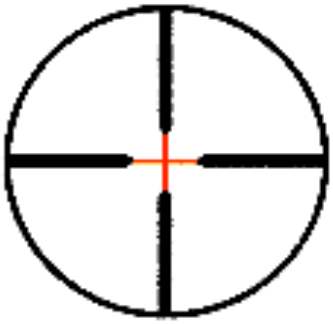
7A



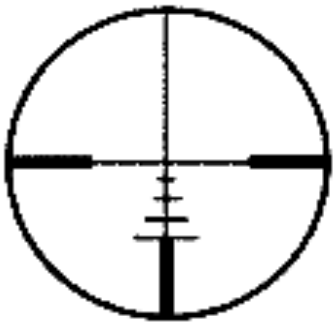
Plex



Illuminated Reticle 4NK

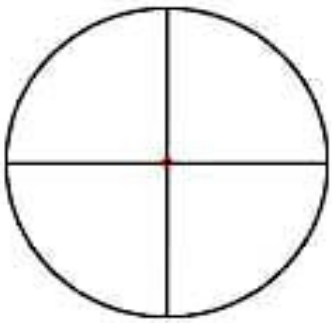


Illuminated Reticle PlexN



TD Smith Reticle

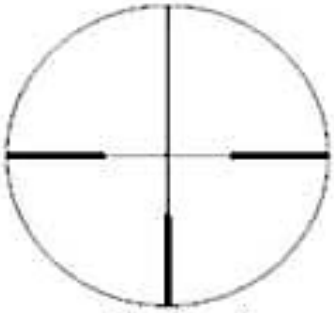
C-Dot



D-Dot

P-Dot

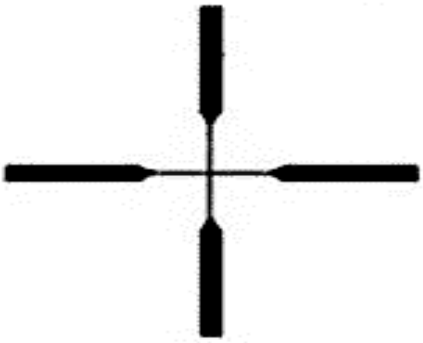
CSX Illuminated Reticles



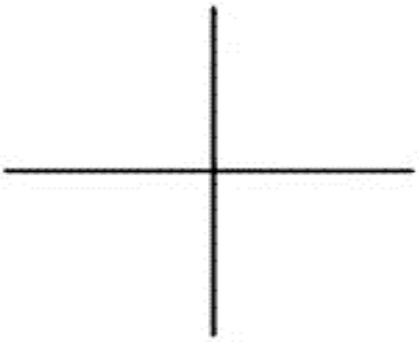
4-Dot

Nikon Reticle Patterns

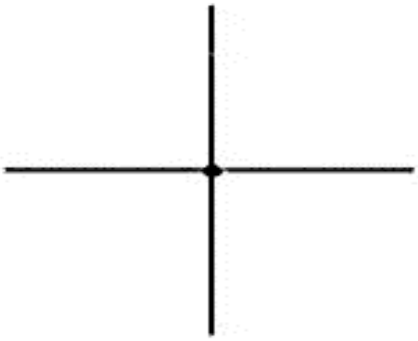
Nikoplex (Duplex)



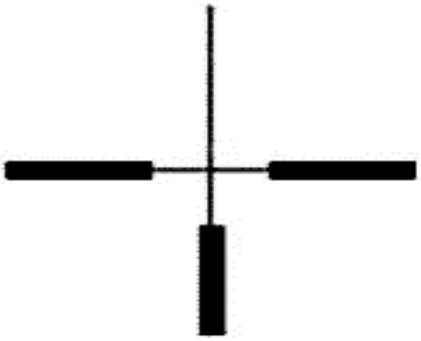
Fine Crosshair



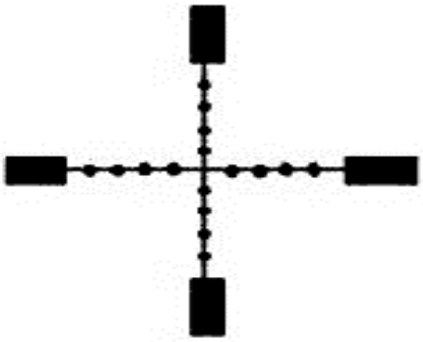
Target Dot



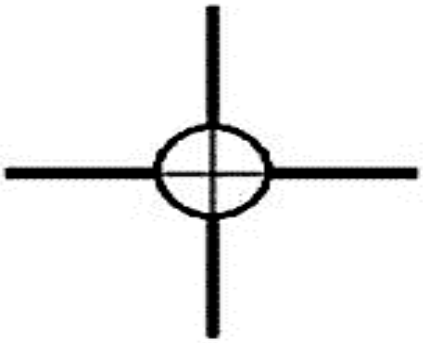
German #4



Mildot

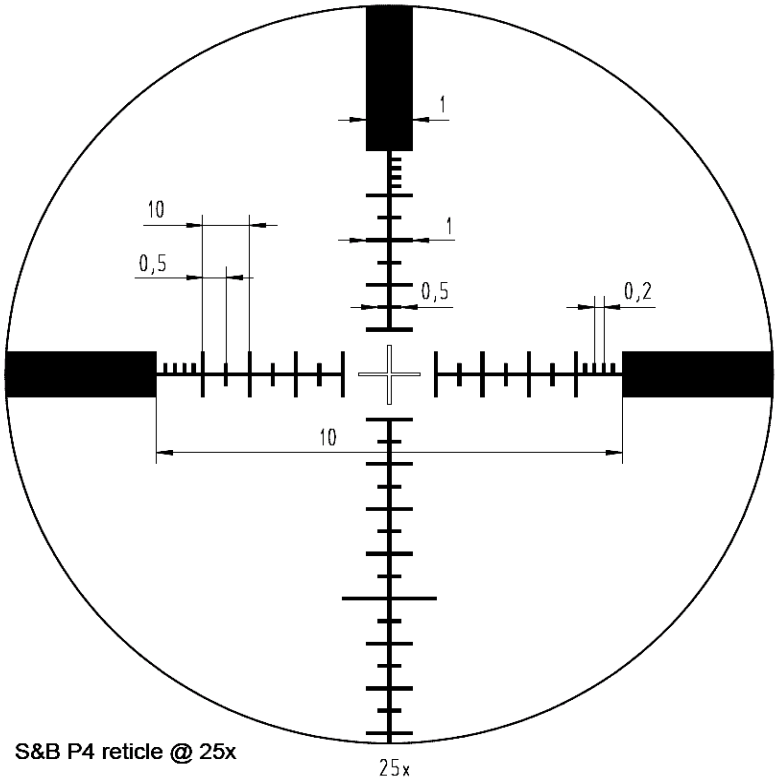


Turkey Pro



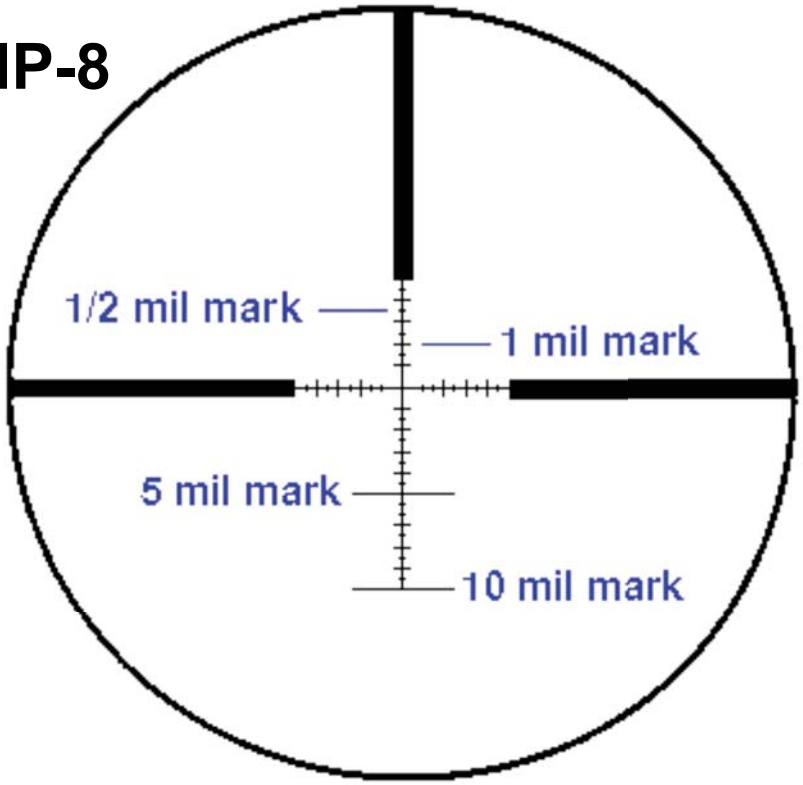
Misc. Reticle Patterns

S&B P4



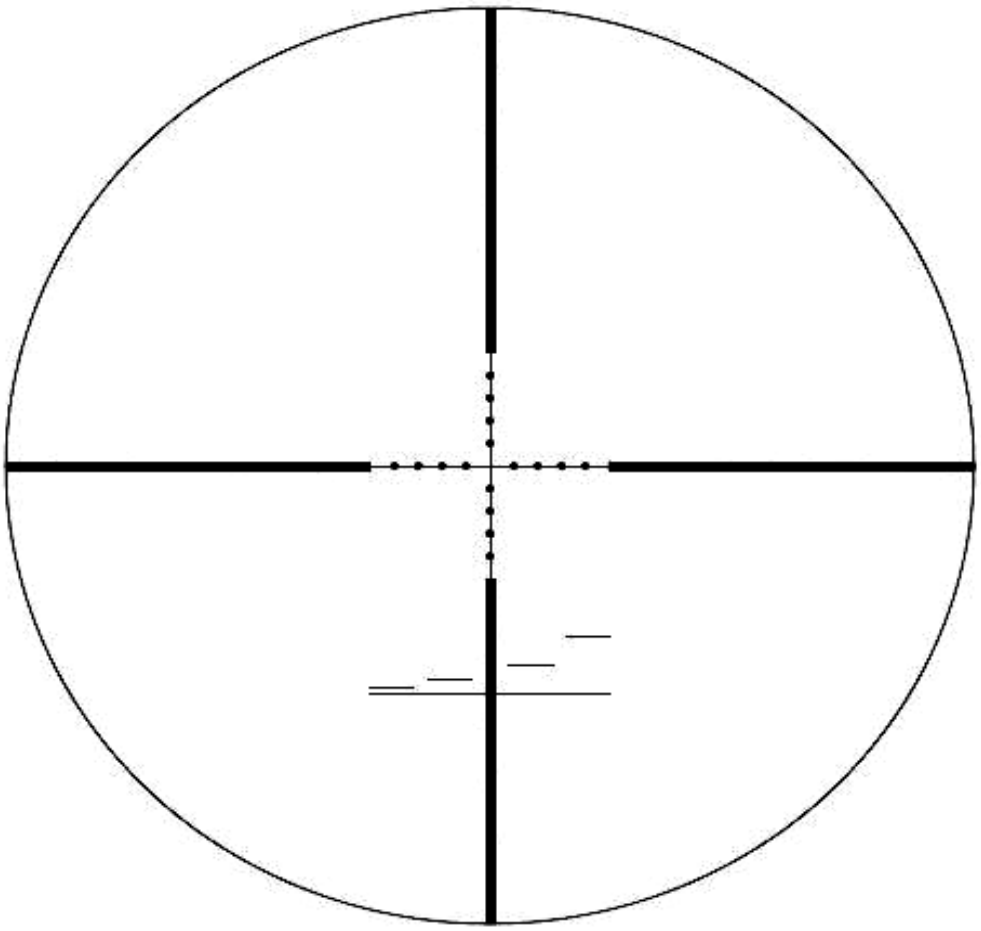
S&B P4 reticle @ 25x

I.O.R. MP-8

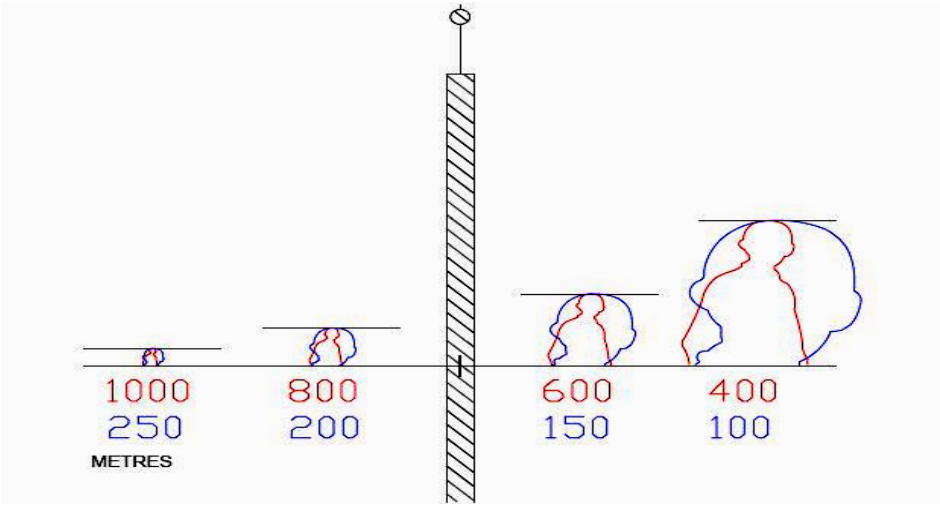


Misc. Reticle Patterns

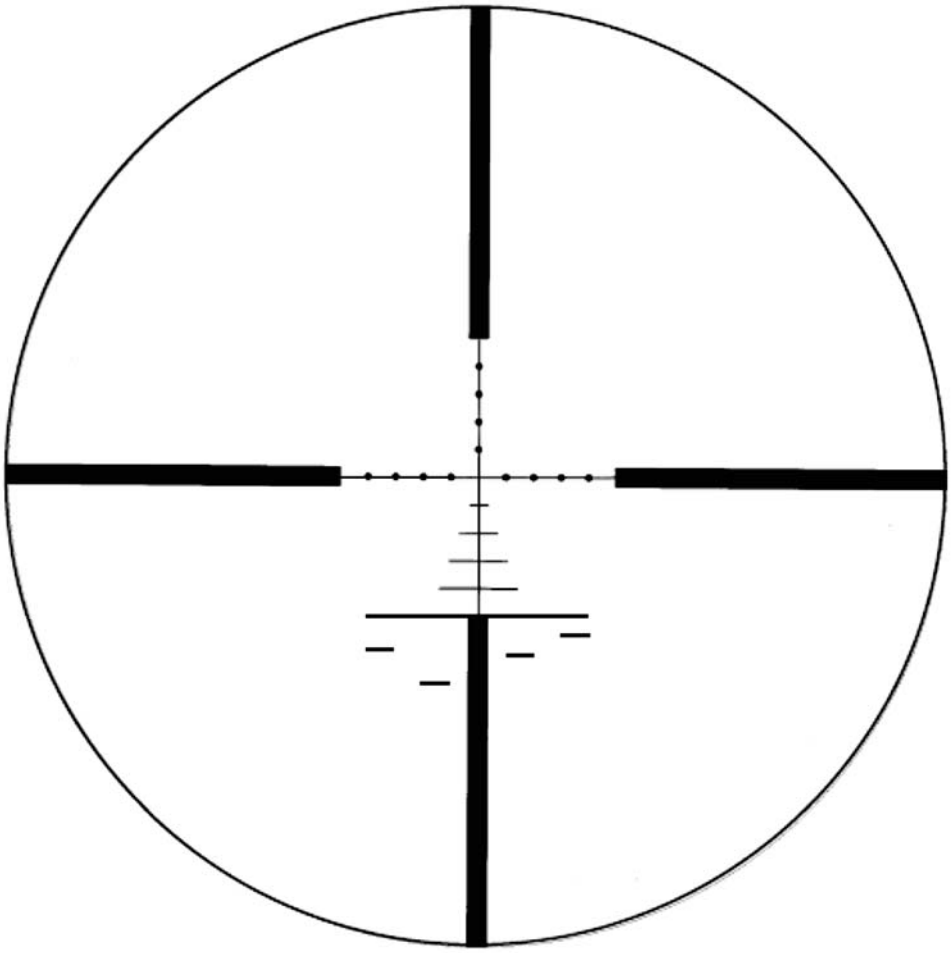
AI Mil Dot



ACCURACY INTERNATIONAL MilDot



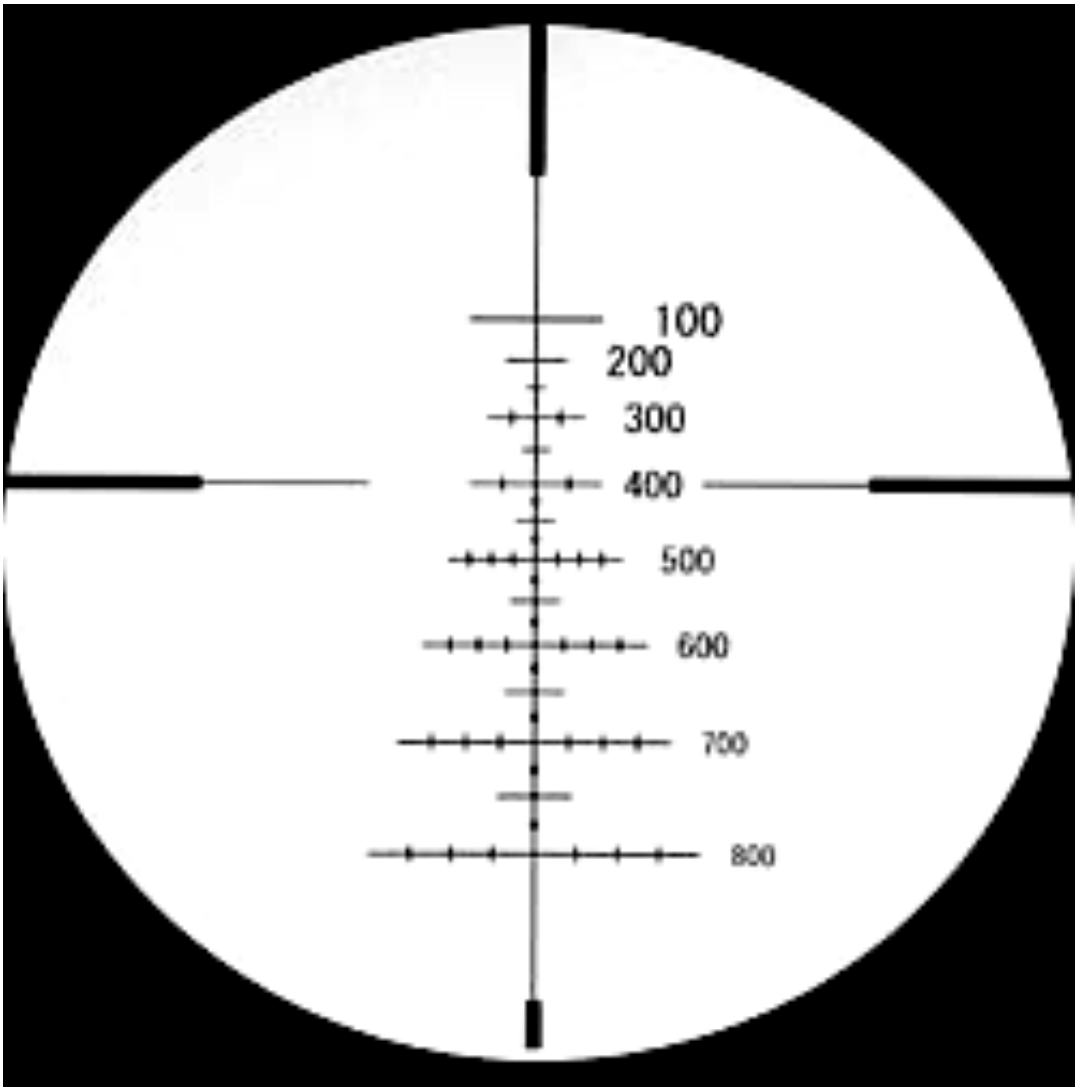
Misc. Reticle Patterns
Brugger & Thomet TRS



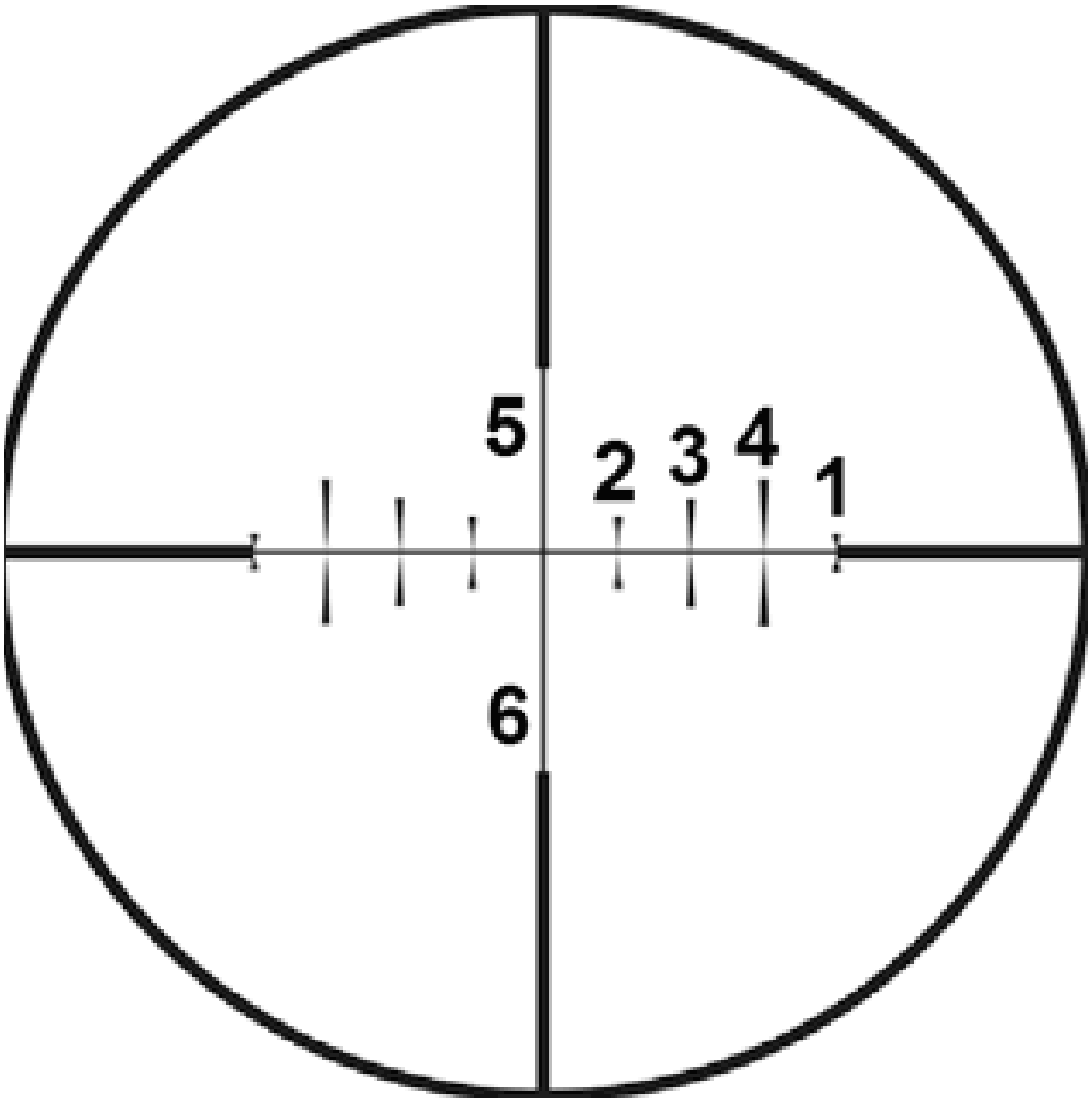
B&T TRS Reticle Pattern.
Distance dot to dot = 100 mm/100m.

Range estimation scale for 1 m reference height at 800 m, 400 m, 600 m and 1200 m (from left to right).

Misc. Reticle Patterns
(Pride/Fowler Rapid Reticle)



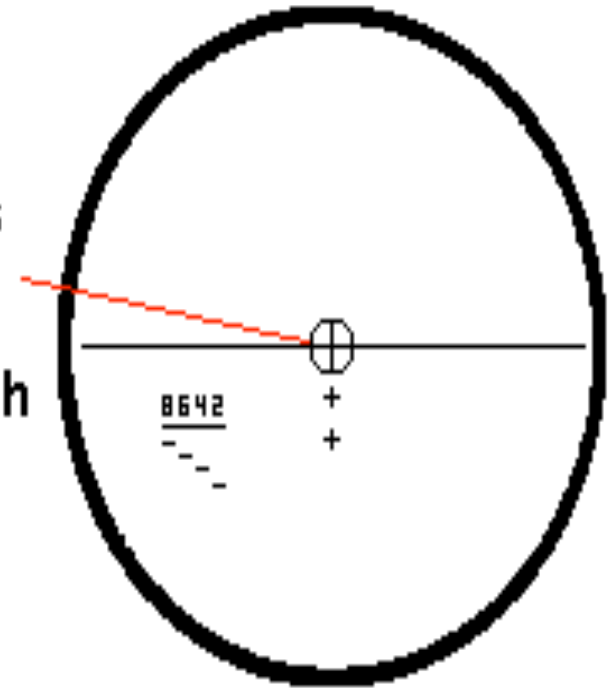
Misc. Reticle Patterns
(Huskemaw Long Range Reticle)



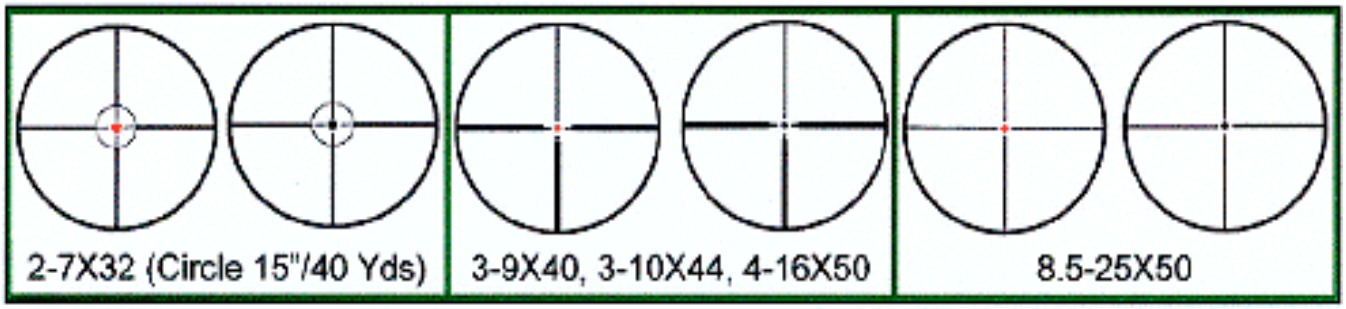
Hunt Smart Reticle. MOA subtensions for 10X magnification. Halve values for 20X.

Misc. Reticle Patterns
(HK G36 Style)

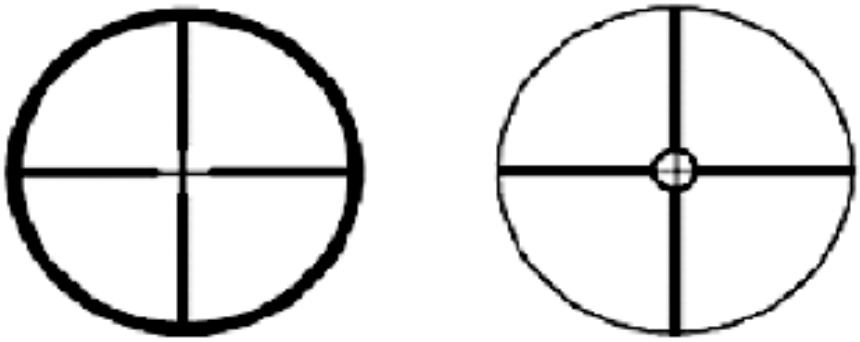
Lead mark for firing at targets moving from left to right at a speed of approximately 15km/h at a range of 200 meters



Misc. Reticle Patterns
(Mueller, Burris)

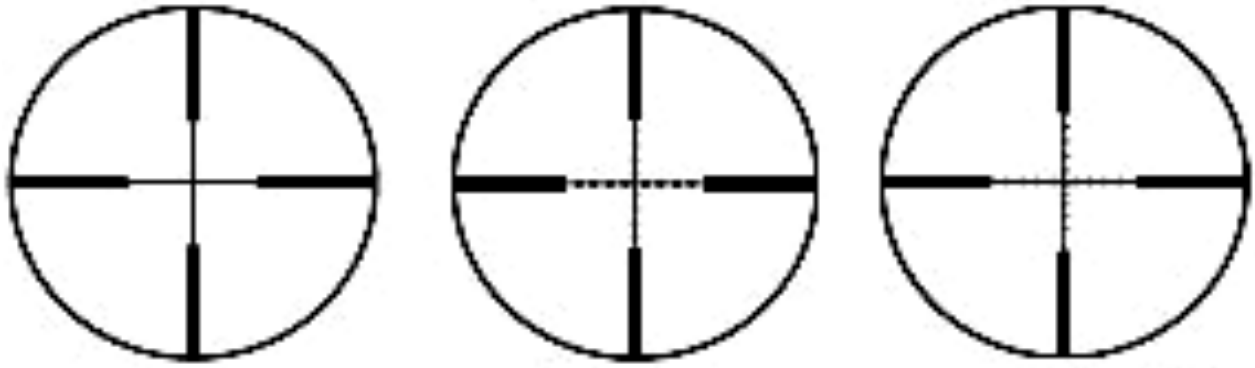


Scope	Dot Size 100 Yds	Adj. Per Click	Brightness Settings	FOV 100 Yds	Wt. (oz)	Length (inch)	Eye Relief
2-7X32mm Red Dot	1 MOA	1/4"	11	47-18'	13.3	11.3	3.25
3-9X40 Red Dot	1/8 MOA	1/8"	11	39-13'	14	13	3.25"
3-10X44 Red Dot	1/8 MOA	1/8"	11	40.8-12.8'	15.2	13.1	3.25"
4-16X50AO Red Dot	1/8 MOA	1/8"	11	30.6-7.5'	19.7	14.53	3.25"
8.5-25X50mm AO Red Dot	1/16 MOA	1/8"	11	18.8-6.3'	20.8	15.53	3.00"



Multi-X Reticle

Circle X Reticle

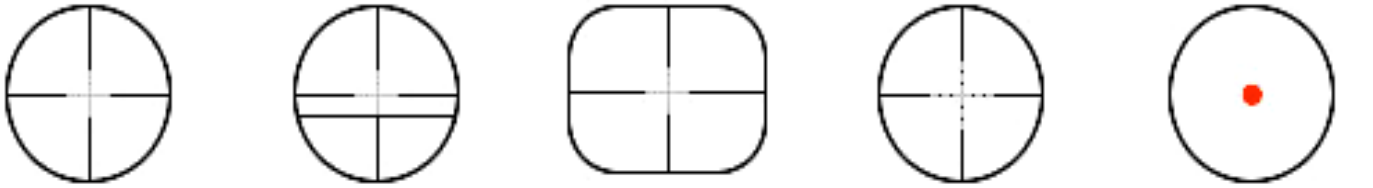


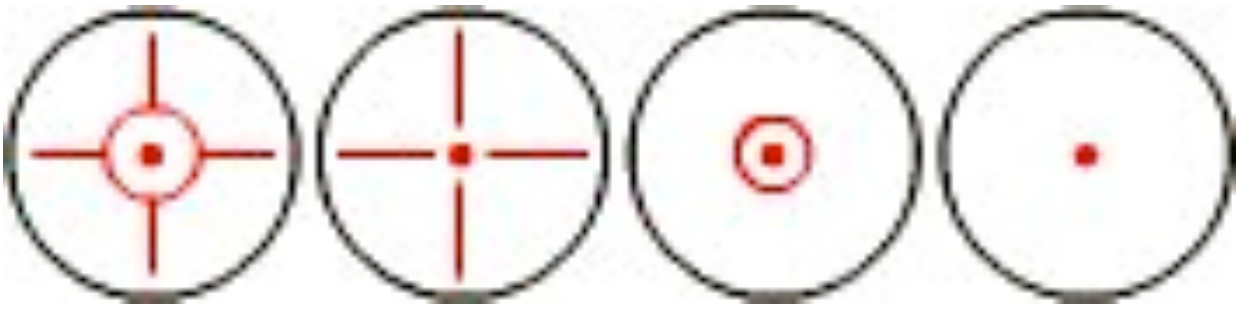
Plex

Mil-Dot

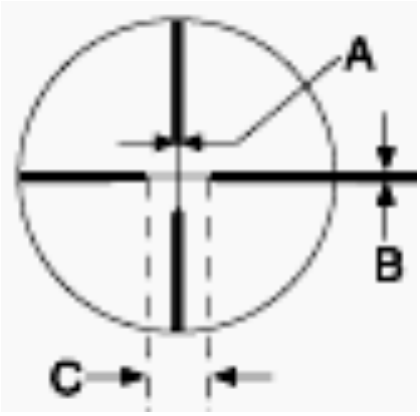
Ballistic Mil-Dot

Misc. Reticle Patterns
(Tasco, Hakko ElectroDot, Weaver)

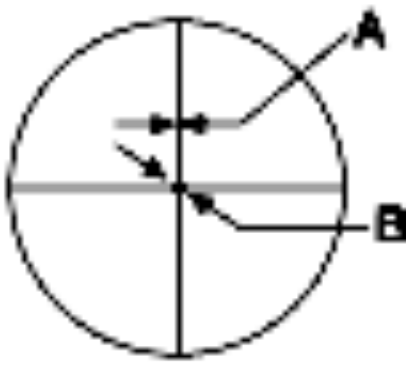




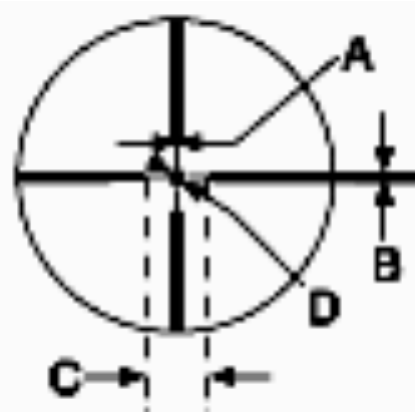
Hakko Multi-Reticle (MR-02 pattern)



Weaver Dual-X Reticle

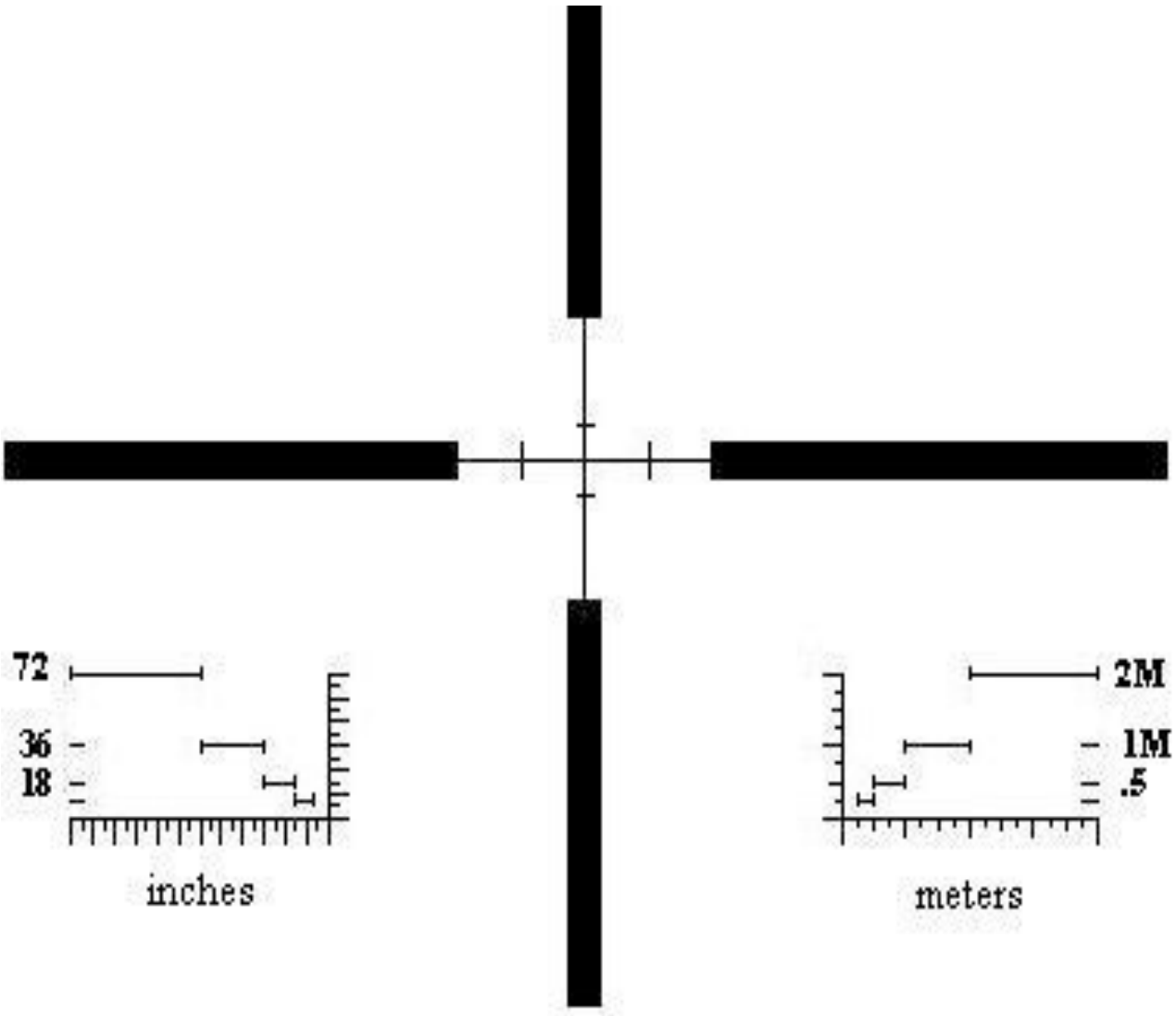


Weaver DOT Reticle

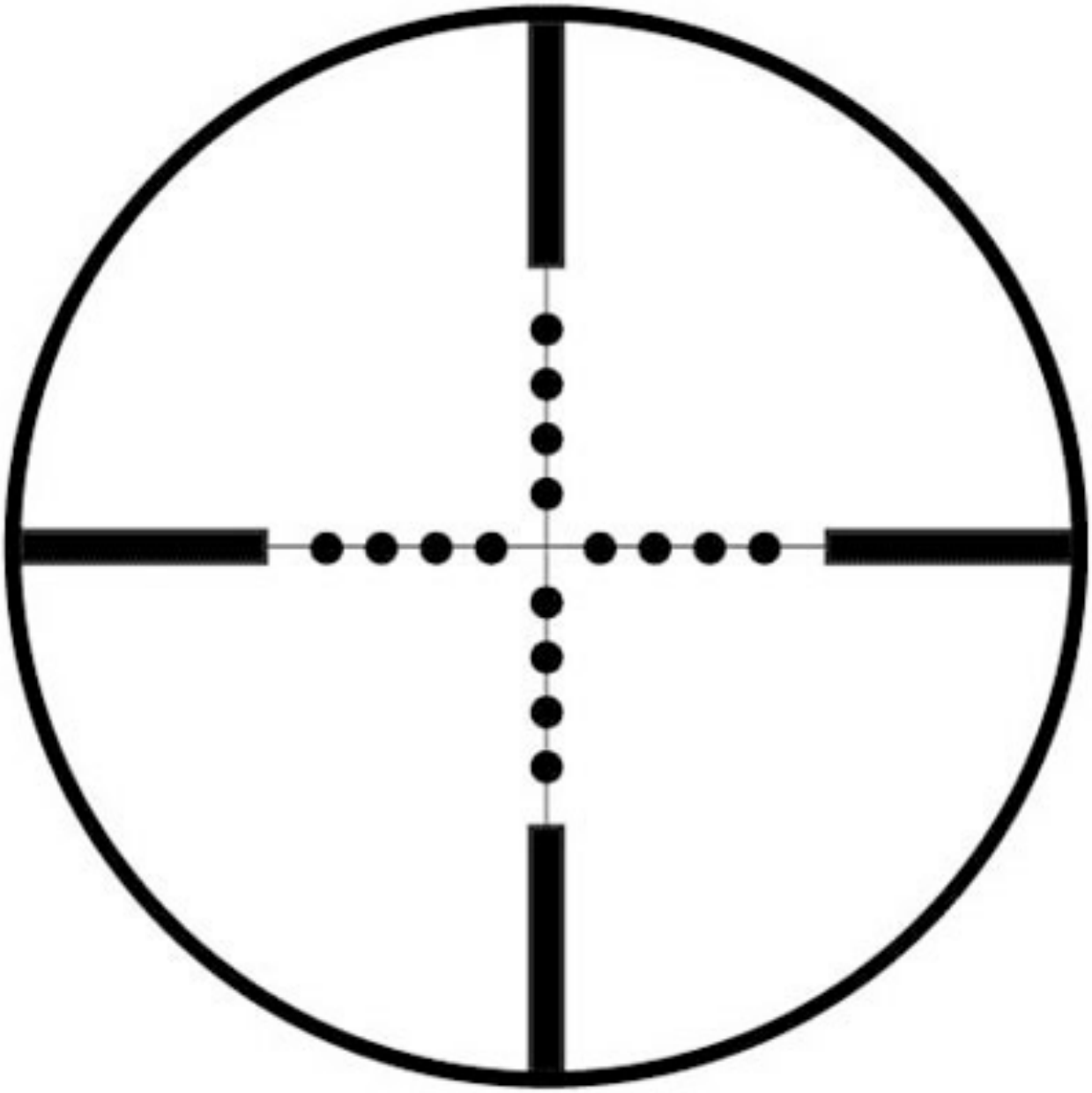


Weaver Varminter Reticle

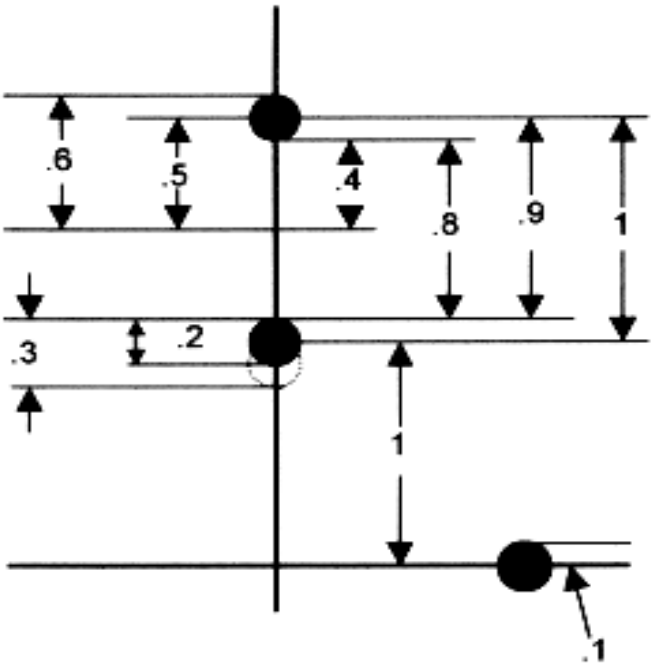
Misc. Reticle Patterns
(Leatherwood Auto/Range Reticle)



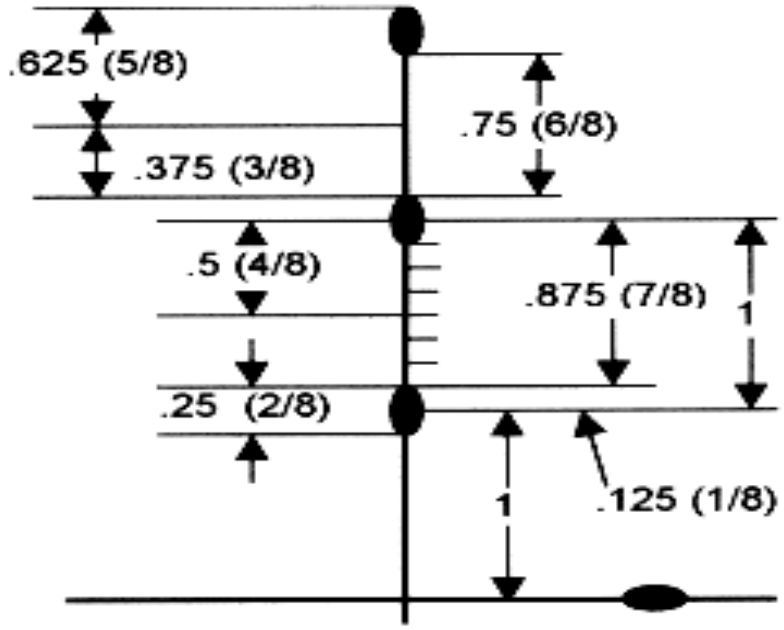
Super Sniper Reticle
Standard MIL DOT



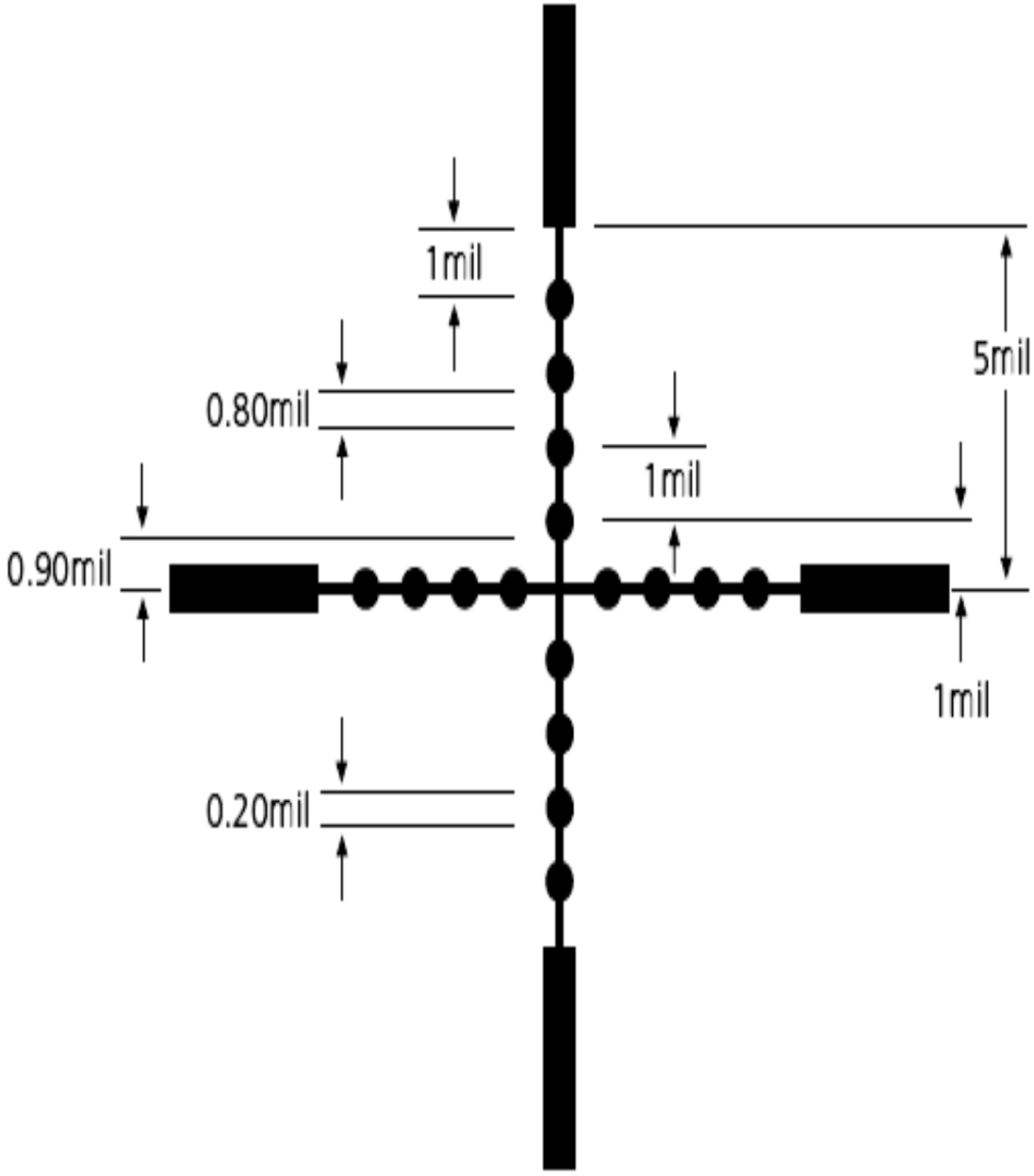
INFO - US ARMY MILDOT RETICLE



INFO - USMC MILDOT RETICLE

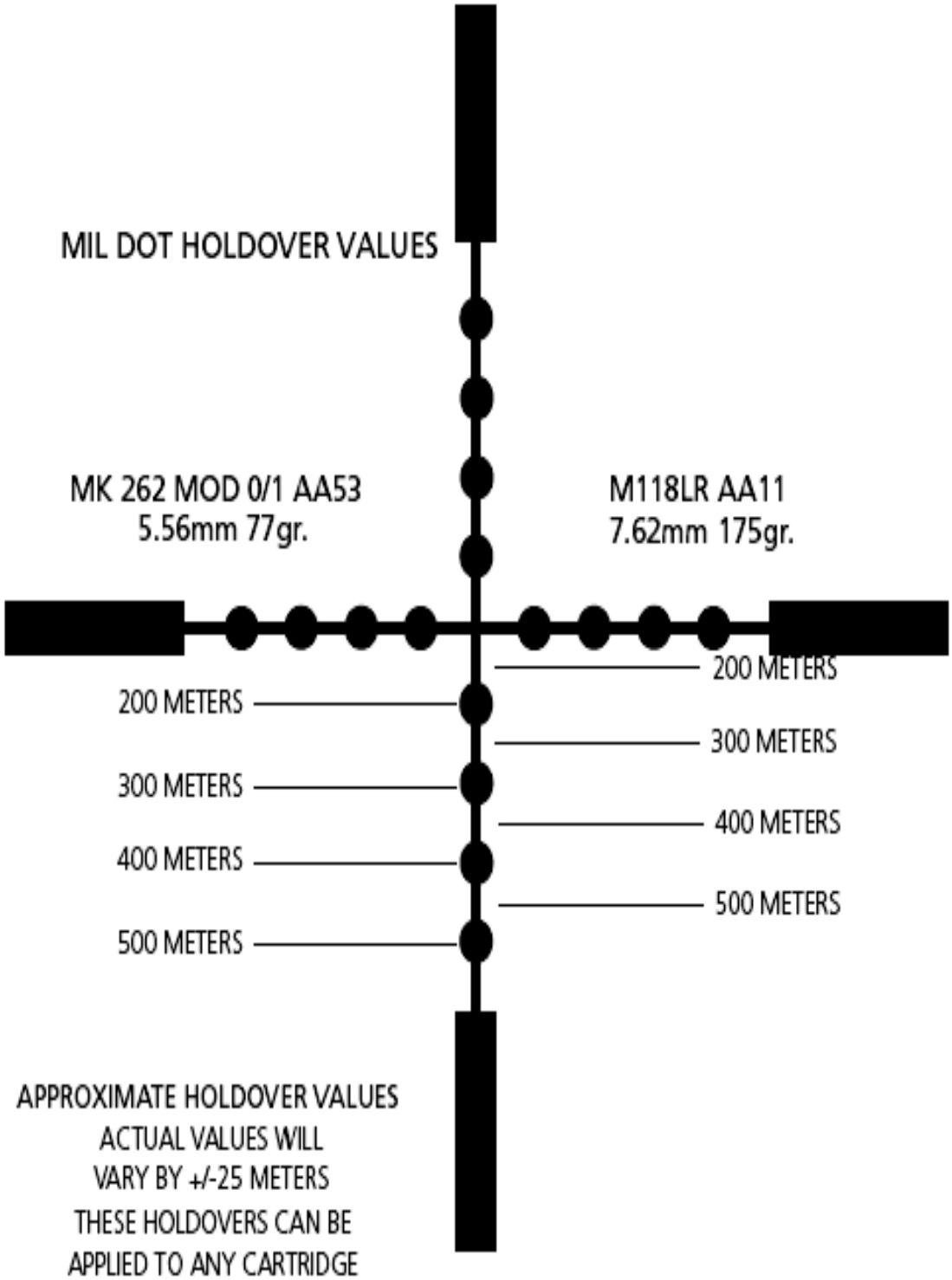


MIL DOT RETICLE MEASUREMENTS

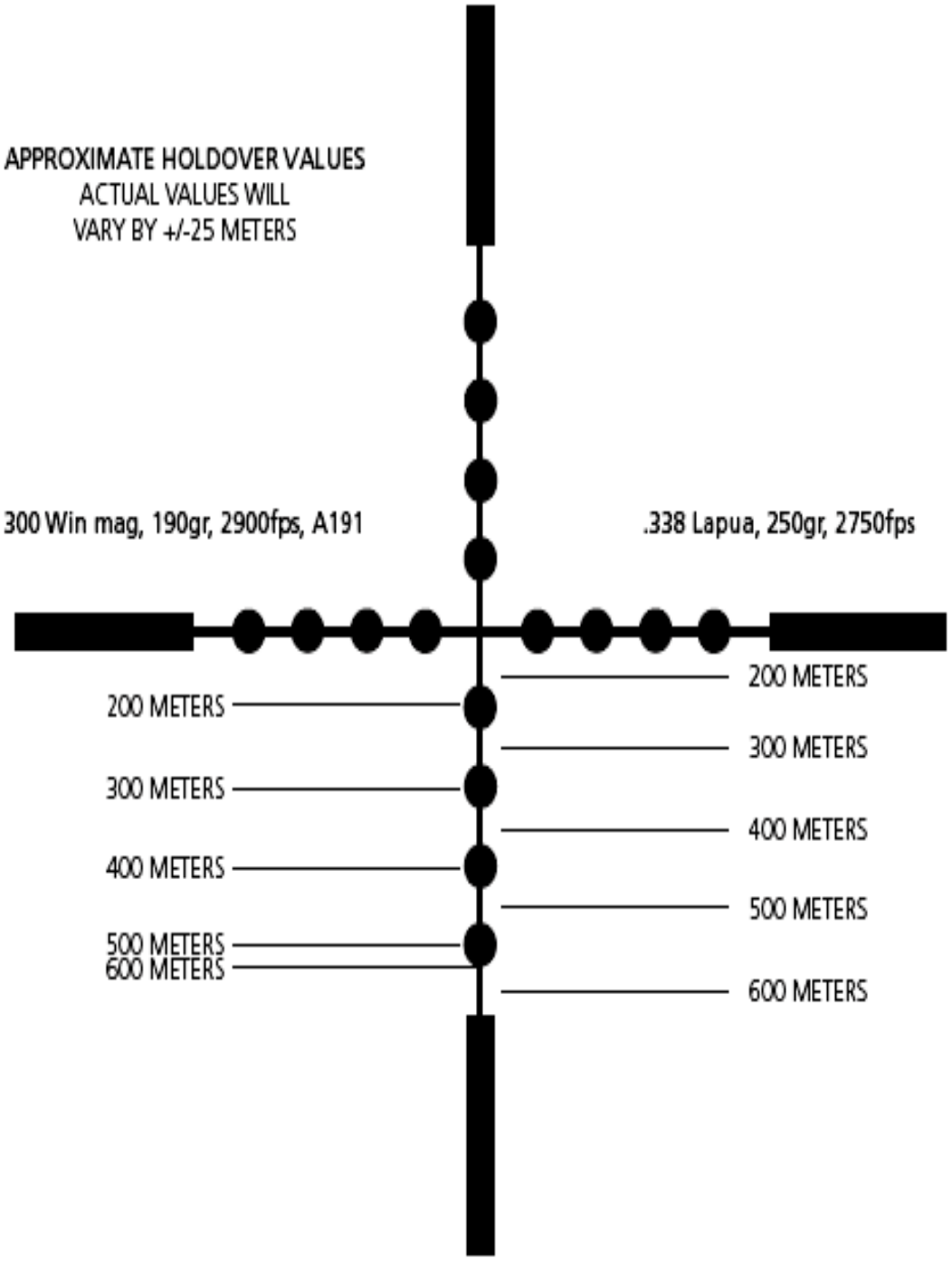


@ 100 YARDS	1 mil = 3.600" 0.9 mil = 3.240" 0.8 mil = 2.880"	0.5 mil = 1.800" 0.2 mil = 0.720" 1 mil = 3.438 Minutes of Angle = 3.600"

MIL DOT RETICLE HOLDOVER CONCEPT



MIL DOT RETICLE HOLDOVER CONCEPT



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- **Mueller**
- **IOR Valdada**
- **Nikon**
- **Weaver**
- **Leupold**
- **Kahles**
- **NightForce**
- **Swarovski**
- **Leatherwood**
- **Pride Fowler**
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