

Uintah UPR-15. Vortex Viper PST-II 5-25X Scope
.224 Valkyrie Hornady 88 grain ELD Match
Barrel 1:7 Right Hand Twist
Scope Height 2.8185"

Trajectory (Simplified)

Input Data

Manufacturer:	Hornady	Description:	ELD M (Extremely Low Drag Match)
Caliber:	0.224 in	Weight:	88.0 gr
Ballistic Coefficient:	0.274 G7 (ASM)		
Muzzle Velocity:	2637.0 ft/s		
Sight Height:	2.82 in	Line Of Sight Angle:	0.0 deg
Cant Angle:	0.0 deg		
Wind Speed:	10.0 mph	Target Speed:	10.0 mph
Temperature:	63.0 °F	Pressure:	29.09 in Hg
Humidity:	51 %	Altitude:	946.0 ft
Std. Atmosphere at Altitude:	No	Pressure is Corrected:	No
Zero at Max. Point Blank Range:	No	Target Relative Drops:	Yes
Column 1 Units:	1.00 in	Column 2 Units:	1.00 mil
Round Output to Whole Numbers:	No		

Output Data

Elevation:	5.180 MOA	Windage:	0.000 MOA
Atmospheric Density:	0.07350 lb/ft ³	Speed of Sound:	1120.8 ft/s
Maximum PBR:	338 yd	Maximum PBR Zero:	288 yd
Range of Maximum Height:	165 yd	Energy at Maximum PBR:	874.9 ft•lbs
Sectional Density:	0.251 lb/in ²		

Calculated Table

Range (yd)	Drop (in)	Drop (mil)	Windage (in)	Windage (mil)	Velocity (ft/s)	Mach (none)	Energy (ft•lbs)	Time (s)	Lead (in)	Lead (mil)
100	-0.0	-0.0	0.6	0.2	2476.1	2.209	1197.8	0.117	20.7	5.7
150	-0.7	-0.1	1.5	0.3	2397.8	2.139	1123.2	0.179	31.5	5.8
200	-2.9	-0.4	2.6	0.4	2320.8	2.071	1052.3	0.243	42.7	5.9
250	-6.7	-0.7	4.2	0.5	2245.4	2.003	985.0	0.308	54.3	6.0
300	-12.2	-1.1	6.1	0.6	2171.4	1.937	921.2	0.376	66.2	6.1
350	-19.5	-1.6	8.5	0.7	2099.0	1.873	860.7	0.446	78.6	6.2
400	-28.9	-2.0	11.3	0.8	2027.9	1.809	803.4	0.519	91.4	6.3
450	-40.3	-2.5	14.5	0.9	1958.1	1.747	749.1	0.594	104.6	6.5
500	-54.1	-3.0	18.2	1.0	1889.5	1.686	697.5	0.672	118.3	6.6
550	-70.2	-3.5	22.5	1.1	1822.1	1.626	648.6	0.753	132.6	6.7
600	-89.0	-4.1	27.2	1.3	1755.7	1.567	602.2	0.837	147.3	6.8
650	-110.6	-4.7	32.5	1.4	1690.5	1.508	558.3	0.924	162.7	7.0
700	-135.2	-5.4	38.4	1.5	1626.3	1.451	516.7	1.015	178.6	7.1
750	-163.1	-6.0	45.0	1.7	1563.1	1.395	477.3	1.109	195.1	7.2

**Maximum Turret
Adjustment = 17 Mils**

**Use 10 Mils of additional
holdover with 17 Mils on
elevation turret.**

800	-194.6	-6.8	52.2	1.8	1501.0	1.339	440.2	1.207	212.4	7.4
850	-229.9	-7.5	60.1	2.0	1440.1	1.285	405.2	1.309	230.3	7.5
900	-269.5	-8.3	68.9	2.1	1380.3	1.232	372.2	1.415	249.1	7.7
950	-313.6	-9.2	78.4	2.3	1321.9	1.179	341.4	1.526	268.6	7.9
1000	-362.7	-10.1	88.8	2.5	1265.0	1.129	312.6	1.642	289.0	8.0
1050	-417.2	-11.0	100.2	2.6	1209.7	1.079	285.9	1.764	310.4	8.2
1100	-477.6	-12.1	112.5	2.8	1156.5	1.032	261.3	1.891	332.7	8.4
1150	-544.6	-13.2	125.8	3.0	1108.0	0.989	239.8	2.023	356.1	8.6
1200	-618.7	-14.3	140.1	3.2	1073.2	0.958	225.0	2.161	380.3	8.8
1250	-700.2	-15.6	155.0	3.4	1049.4	0.936	215.2	2.303	405.3	9.0
1300	-789.7	-16.9	170.4	3.6	1029.8	0.919	207.2	2.447	430.7	9.2
1350	-887.4	-18.3	186.3	3.8	1012.4	0.903	200.2	2.594	456.6	9.4
1400	-993.7	-19.7	202.6	4.0	996.4	0.889	193.9	2.744	482.9	9.6
1450	-1108.7	-21.2	219.4	4.2	981.2	0.875	188.1	2.896	509.7	9.8
1500	-1232.7	-22.8	236.5	4.4	966.8	0.863	182.6	3.050	536.9	9.9
1550	-1366.1	-24.5	254.1	4.6	953.0	0.850	177.4	3.207	564.4	10.1
1600	-1509.1	-26.2	272.1	4.7	939.6	0.838	172.5	3.366	592.4	10.3
1650	-1662.1	-28.0	290.4	4.9	926.7	0.827	167.8	3.527	620.8	10.5
1700	-1825.2	-29.8	309.2	5.1	914.1	0.816	163.3	3.691	649.6	10.6
1750	-1998.8	-31.7	328.4	5.2	901.9	0.805	158.9	3.857	678.8	10.8
1800	-2183.2	-33.7	348.0	5.4	890.0	0.794	154.7	4.025	708.5	10.9
1850	-2378.7	-35.7	368.1	5.5	878.3	0.784	150.7	4.196	738.5	11.1
1900	-2585.6	-37.8	388.5	5.7	866.9	0.773	146.8	4.369	769.0	11.2
1950	-2804.2	-39.9	409.4	5.8	855.7	0.764	143.1	4.545	799.8	11.4
2000	-3034.9	-42.2	430.7	6.0	844.8	0.754	139.4	4.722	831.1	11.5