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Calculations according to G1 - Drag Function

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Trajectory calculation:**Date: 6-Feb-2019****Time: 23:44:01****Comment****Peter Sample****Gun / Ammunition****.375 H. & H. Mag.****Bullet****.375, 200, Impala Bullet**

Bullet weight	12.96 g	200.0 gr.	Bullet diameter	9.53 mm	0.375 in.
Sectional Density SD	0.203 lb./sq.in.		1st Coefficient of form (i)	0.666	
Height of sight above bore axis	5.0 cm	1.97 in.	Crosswind velocity	4.47 m/s	10.0 Mph.
Angle of crosswind to L.O.S.	90 deg.		Gyroscopic Stability (Miller)	2.98	
			Twist Length (RH)	279.4 mm	11.0 in.

Single Ballistic Coefficient C1 0.305 (ICAO)

Atmosphere for table:

Std. ICAO

Air temperature

15 °C

59 °F

Altitude ab./bel. sea level

0 m

0 ft

Barometric pressure

1013.25 hPa

29.92 in.Hg.

Relative humidity

0 %

Air density

1.225 kg/m³

0.07647 lb./ft.³

Bullet velocity v0	879 m/s	2884.8 fps.	Bullet energy	E0	5010 Joule	3696 ft.lbs.
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Suggested Point Blank Range settings:

Optimum zero-in range	178 m	195 yd.	Range to peak of path	110 m	120 yd.
Maximum point blank range	204 m	223 yd.	Vital height above/below LOS	3.99 cm	1.57 in.

Your settings for table:

Zero range	400.0 m	437.4 yd.	Sight adjustment, 1 click at 100 m	4.0 cm	1.575 in.
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obtained at level firing

Angle between firing direction and line of bore : 12.964 Minutes of Angle (MOA)

Trajectory Table according to above specified data entry

	Distance	Velocity	Flight time	Energy	Trajectory	Windage defl.	Total drop	Height correction for zero range	Momentum (m·v)	IPSC factor	Distance
	Meter	m/s	s	Joules	cm	cm	cm	clicks	MOA	Ns	Yards
	0.0	879	0.0000	5010	-5.0	0.0	0.0	-----	-----	11.40	0.0
	50.0	828	0.0588	4448	+12.2	-0.8	1.7	-6.1	-8.38	10.74	54.7
	100.0	779	0.1212	3937	+25.8	-3.1	6.9	-6.4	-8.87	10.10	109.4
	150.0	732	0.1869	3474	+35.4	-6.7	16.1	-5.9	-8.12	9.49	164.0
	200.0	687	0.2576	3054	+40.4	-12.4	30.0	-5.1	-6.95	8.90	218.7
M	223.0	666	0.2918	2875	+41.0	-15.7	38.1	-4.6	-6.32	8.63	243.9
	250.0	643	0.3331	2675	+40.1	-20.0	49.1	-4.0	-5.52	8.33	273.4
	300.0	600	0.4128	2334	+34.3	-29.4	73.9	-2.9	-3.93	7.78	328.1
	350.0	559	0.4989	2027	+21.4	-41.4	105.6	-1.5	-2.10	7.25	382.8
X	400.0	521	0.5927	1758	0.0	-56.5	145.8	0.0	0.00	6.75	437.4

M = Peak vs. L.O.S., X = Set Zero, P = Max. Point Blank Range

Table of different zero ranges

Trajectory at table atmosphere, in units of cm

	50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
50 m Zero	X	+1.4	-1.1	-8.4	-20.8	-38.9	-63.9	-97.5	-140.2	-192.4
100 m Zero	-0.7	X	-3.2	-11.2	-24.3	-43.1	-68.9	-103.2	-146.5	-199.5
150 m Zero	+0.4	+2.2	X	-6.8	-18.9	-36.6	-61.3	-94.5	-136.8	-188.7
200 m Zero	+2.1	+5.6	+5.1	X	-10.4	-26.4	-49.3	-80.8	-121.4	-171.6
250 m Zero	+4.2	+9.7	+11.4	+8.3	X	-13.9	-34.8	-64.2	-102.7	-150.8
300 m Zero	+6.5	+14.4	+18.3	+17.6	+11.6	X	-18.6	-45.7	-81.9	-127.6
350 m Zero	+9.1	+19.7	+26.3	+28.2	+24.8	+15.9	X	-24.5	-58.0	-101.1
400 m Zero	+12.2	+25.8	+35.4	+40.4	+40.1	+34.3	+21.4	X	-30.5	-70.5
450 m Zero	+15.6	+32.6	+45.6	+54.0	+57.1	+54.6	+45.1	+27.1	X	-36.7
500 m Zero	+19.2	+39.9	+56.6	+68.6	+75.4	+76.6	+70.8	+56.4	+33.0	X

Trajectory, sighted in at Point Blank Zero range set to 178 m

+1.3	+4.0	+2.7	-3.2	-14.4	-31.2	-55.0	-87.3	-128.7	-179.6
Multiplier for Crosswind Correction in MOA per 1 m/s Windspeed									
-0.124	-0.235	-0.342	-0.476	-0.617	-0.754	-0.909	-1.086	-1.268	-1.448