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WARNING: Since we have no control over equipment or data which may be used with this program, no responsibility is implied or assumed for results obtained through its use. The user must assume the entire risk of using program and computed results.  
Calculations according to G1 - Drag Function

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<b>Trajectory calculation:</b>	<b>Date: 6-Feb-2019</b>	<b>Time: 23:40:55</b>			
<b>Comment</b>	<b>Peter Sample</b>				
<b>Gun / Ammunition</b>	<b>.308 Win.</b>				
<b>Bullet</b>	<b>.308, 130, Impala Bullet</b>				
Bullet weight	8.42 g	129.94 gr.	Bullet diameter	7.82 mm	0.308 in.
Sectional Density SD	0.196 lb./sq.in.		1st Coefficient of form (i)	0.625	
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)	1.42	
			Twist Length (RH)	279.4 mm	11.0 in.
Single Ballistic Coefficient C1	0.313	(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	858 m/s	2815.0 fps.	Bullet energy E0	3099 Joule	2286 ft.lbs.

<b>Suggested Point Blank Range settings:</b>					
Optimum zero-in range	174 m	190 yd.	Range to peak of path	108 m	118 yd.
Maximum point blank range	200 m	219 yd.	Vital height above/below LOS	3.99 cm	1.57 in.

<b>Your settings for table:</b>					
Zero range	400.0 m	437.4 yd.	Sight adjustment, 1 click at 100 m	4.0 cm	1.575 in.
obtained at level firing					
Angle between firing direction and line of bore : 13.501 Minutes of Angle (MOA)					

**Trajectory Table according to above specified data entry**

	Dist- ance	Velo- city	Flight time	Energy	Trajec- tory	Windage defl.	Total drop	Height correction for zero range	Momen- tum (m·v)	IPSC factor	Dist- ance	
	Meter	m/s	s	Joules	cm	cm	cm	clicks	MOA	Ns	Yards	
	0.0	858	0.0000	3099	-5.0	0.0	0.0	-----	-----	7.22	365.8	0.0
	50.0	809	0.0603	2758	+12.9	-0.9	1.7	-6.4	-8.86	6.81	345.0	54.7
	100.0	762	0.1239	2447	+27.0	-3.1	7.2	-6.8	-9.29	6.42	325.0	109.4
	150.0	717	0.1911	2164	+37.0	-6.9	16.9	-6.2	-8.49	6.04	305.6	164.0
	200.0	673	0.2634	1907	+42.1	-12.8	31.4	-5.3	-7.24	5.67	286.9	218.7
M	223.0	653	0.2982	1798	+42.7	-16.2	39.9	-4.8	-6.58	5.50	278.6	243.9
	250.0	631	0.3402	1675	+41.8	-20.7	51.3	-4.2	-5.75	5.31	268.9	273.4
	300.0	590	0.4211	1465	+35.8	-30.2	77.0	-3.0	-4.10	4.97	251.5	328.1
	350.0	551	0.5091	1277	+22.2	-42.8	110.2	-1.6	-2.18	4.64	234.8	382.8
X	400.0	514	0.6043	1112	0.0	-58.4	152.1	0.0	0.00	4.33	219.1	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	+1.3	-1.6	-9.4	-22.6	-41.5	-68.0	-103.1	-147.3	-201.4
100 m Zero	-0.6	X	-3.5	-12.0	-25.8	-45.3	-72.4	-108.2	-153.0	-207.7
150 m Zero	+0.5	+2.4	X	-7.2	-19.9	-38.3	-64.2	-98.7	-142.4	-196.0
200 m Zero	+2.4	+6.0	+5.4	X	-10.8	-27.4	-51.5	-84.2	-126.1	-177.9
250 m Zero	+4.5	+10.3	+11.9	+8.7	X	-14.4	-36.3	-66.9	-106.7	-156.2
300 m Zero	+6.9	+15.1	+19.1	+18.3	+12.0	X	-19.5	-47.7	-85.0	-132.2
350 m Zero	+9.7	+20.7	+27.5	+29.4	+26.0	+16.7	X	-25.4	-59.9	-104.3
400 m Zero	+12.9	+27.0	+37.0	+42.1	+41.8	+35.8	+22.2	X	-31.4	-72.6
450 m Zero	+16.4	+34.0	+47.5	+56.1	+59.3	+56.7	+46.6	+27.9	X	-37.7
500 m Zero	+20.1	+41.5	+58.8	+71.1	+78.1	+79.3	+73.0	+58.0	+33.9	X
Trajectory, sighted in at Point Blank Zero range set to 174 m										
	+1.4	+4.0	+2.4	-4.0	-15.8	-33.4	-58.5	-92.2	-135.1	-187.8
Multiplier for Crosswind Correction in MOA per 1 m/s Windspeed										
	-0.131	-0.238	-0.353	-0.493	-0.636	-0.775	-0.941	-1.123	-1.308	-1.493