

**PBS v1.20 2024 Generic Abacus - 224(inch) 43(gr) Bullet - NORMA Xtreme - Rifle Bore RightTwist 1:16.0 (inch)
- Muzzle Speed 364 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current
conditions : G1 0.114 - G7 0.082**

100 = 0				125 = 10				150 = 22				175 = 34											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	0	-2	-4	0	0	-3	-7	0	-1	-5	-10	0	-1	-7	-14								
Local Absolute Pressure (hPA)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 0.0 W: 2.0 AJ: -0.0	E: 0.0 W: 3.0 AJ: -1.0	E: 0.0 W: 4.0 AJ: -1.0	E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -4.0 AJ: 1.0	E: 0.0 W: -3.0 AJ: 1.0	E: 0.0 W: -2.0 AJ: 0.0	E: 0.0 W: -0.0 AJ: 0.0								
								4								E: 0.0 W: 4.0 AJ: -1.0	E: 0.0 W: 7.0 AJ: -1.0	E: 0.0 W: 7.0 AJ: -1.0	E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -7.0 AJ: 1.0	E: 0.0 W: -6.0 AJ: 1.0	E: 0.0 W: -4.0 AJ: 1.0	E: 0.0 W: -0.0 AJ: 0.0
																E: 0.0 W: 6.0 AJ: -1.0	E: 0.0 W: 10.0 AJ: -2.0	E: 0.0 W: 11.0 AJ: -2.0	E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -11.0 AJ: 2.0	E: 0.0 W: -10.0 AJ: 2.0	E: 0.0 W: -6.0 AJ: 1.0	E: 0.0 W: -0.0 AJ: 0.0
6																E: 0.0 W: 8.0 AJ: -1.0	E: 0.0 W: 14.0 AJ: -2.0	E: 0.0 W: 15.0 AJ: -3.0	E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -15.0 AJ: 3.0	E: 0.0 W: -13.0 AJ: 2.0	E: 0.0 W: -8.0 AJ: 1.0	E: 0.0 W: -0.0 AJ: 0.0
								8								E: 0.0 W: 11.0 AJ: -2.0	E: 0.0 W: 17.0 AJ: -3.0	E: 0.0 W: 18.0 AJ: -3.0	E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -18.0 AJ: 3.0	E: 0.0 W: -17.0 AJ: 3.0	E: 0.0 W: -10.0 AJ: 2.0	E: 0.0 W: -0.0 AJ: 0.0
																10							
Spin Drift (click) : 0 Maximum Y (m) : 0.07 At (m) : 60.0 Time to get there (s) : 0.29																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

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- Muzzle Speed 364 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current
conditions : G1 0.114 - G7 0.082**

200 = 47				225 = 62				250 = 77				275 = 94											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-2	-9	-18	0	-2	-11	-23	0	-3	-13	-28	0	-4	-16	-33								
Local Absolute Pressure (hPA)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
5	4	3	2	2	1	1	0	0	0	-1	-1	-2	-2	-3	-3								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-7	-7	-7	-6	-6	-6	-6	-5	-5	-5	-4	-4	-3	-2	-2	-1								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
0	0	2	4	6	8	10	13	15	18	21	24	27	29	30	32								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
34	36	37	39	40	42	43	45	46	48	49	51	53	55	57	58								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: -0.0 W: 4.0 AJ: -0.0	E: -0.0 W: 7.0 AJ: -1.0	E: 0.0 W: 8.0 AJ: -1.0	E: 1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -8.0 AJ: 1.0	E: 0.0 W: -7.0 AJ: 1.0	E: 1.0 W: -4.0 AJ: 0.0	E: -0.0 W: -0.0 AJ: 0.0								
								4								E: -0.0 W: 8.0 AJ: -1.0	E: -0.0 W: 13.0 AJ: -1.0	E: 0.0 W: 15.0 AJ: -1.0	E: 2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -15.0 AJ: 1.0	E: 1.0 W: -14.0 AJ: 1.0	E: 2.0 W: -9.0 AJ: 1.0	E: -0.0 W: -0.0 AJ: 0.0
																E: -0.0 W: 11.0 AJ: -1.0	E: -0.0 W: 20.0 AJ: -2.0	E: 0.0 W: 23.0 AJ: -2.0	E: 4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -23.0 AJ: 2.0	E: 2.0 W: -22.0 AJ: 2.0	E: 3.0 W: -14.0 AJ: 1.0	E: -0.0 W: -0.0 AJ: 0.0
6																E: -1.0 W: 15.0 AJ: -1.0	E: -0.0 W: 26.0 AJ: -2.0	E: 0.0 W: 31.0 AJ: -3.0	E: 5.0 W: 0.0 AJ: -0.0	E: 0.0 W: -31.0 AJ: 3.0	E: 2.0 W: -30.0 AJ: 2.0	E: 5.0 W: -19.0 AJ: 1.0	E: -1.0 W: -0.0 AJ: 0.0
								8								E: -1.0 W: 19.0 AJ: -2.0	E: -0.0 W: 33.0 AJ: -3.0	E: 0.0 W: 39.0 AJ: -3.0	E: 7.0 W: 0.0 AJ: -0.0	E: 0.0 W: -39.0 AJ: 3.0	E: 3.0 W: -39.0 AJ: 3.0	E: 6.0 W: -26.0 AJ: 2.0	E: -1.0 W: -0.0 AJ: 0.0
																10							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

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- Muzzle Speed 364 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current
conditions : G1 0.114 - G7 0.082**

300 = 112				325 = 130				350 = 150				375 = 172																			
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																			
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																
0	-4	-18	-39	0	-5	-21	-45	0	-6	-25	-51	0	-7	-28	-58																
Local Absolute Pressure (hPa)																															
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																
15	13	11	9	7	5	3	1	0	-2	-3	-5	-6	-8	-9	-11																
Air Temperature (°C)																															
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																
-21	-21	-20	-20	-19	-18	-17	-16	-15	-14	-13	-12	-10	-8	-6	-3																
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																
-1	1	6	12	18	25	33	41	49	58	67	78	90	96	102	108																
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																
115	123	128	133	139	145	151	156	162	168	175	182	189	196	204	212																
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																
2								E: -1.0 W: 6.0 AJ: -0.0	E: -1.0 W: 10.0 AJ: -1.0	E: 0.0 W: 12.0 AJ: -1.0	E: 4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -12.0 AJ: 1.0	E: 2.0 W: -11.0 AJ: 1.0	E: 4.0 W: -6.0 AJ: 0.0	E: -1.0 W: -0.0 AJ: 0.0																
								4								E: -2.0 W: 12.0 AJ: -1.0	E: -1.0 W: 20.0 AJ: -1.0	E: 0.0 W: 24.0 AJ: -1.0	E: 9.0 W: 0.0 AJ: -0.0	E: 0.0 W: -24.0 AJ: 1.0	E: 4.0 W: -23.0 AJ: 1.0	E: 8.0 W: -14.0 AJ: 1.0	E: -3.0 W: -0.0 AJ: 0.0								
																6								E: -3.0 W: 17.0 AJ: -1.0	E: -2.0 W: 30.0 AJ: -2.0	E: 0.0 W: 36.0 AJ: -2.0	E: 14.0 W: 0.0 AJ: -0.0	E: 0.0 W: -36.0 AJ: 2.0	E: 7.0 W: -36.0 AJ: 2.0	E: 12.0 W: -23.0 AJ: 1.0	E: -4.0 W: -0.0 AJ: 0.0
																								8							
																10															
Spin Drift (click) : -3 Maximum Y (m) : 1.6 At (m) : 188.0 Time to get there (s) : 1.01																															
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conditions : G1 0.114 - G7 0.082**

400 = 194				425 = 218				450 = 244				475 = 271																			
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																			
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																
0	-8	-32	-66	0	-9	-36	-74	0	-10	-40	-83	0	-11	-45	-93																
Local Absolute Pressure (hPa)																															
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																
34	29	24	20	15	11	7	3	0	-4	-7	-11	-14	-18	-21	-24																
Air Temperature (°C)																															
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																
-46	-45	-44	-42	-41	-39	-37	-35	-33	-31	-29	-26	-22	-17	-13	-8																
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																
-3	3	15	28	42	58	76	95	115	136	161	188	218	235	251	268																
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																
287	308	322	337	352	368	385	401	418	437	456	475	495	517	540	564																
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																
2								E: -3.0 W: 8.0 AJ: -0.0	E: -2.0 W: 14.0 AJ: -1.0	E: 0.0 W: 17.0 AJ: -1.0	E: 10.0 W: 0.0 AJ: -0.0	E: 0.0 W: -17.0 AJ: 1.0	E: 4.0 W: -15.0 AJ: 1.0	E: 9.0 W: -9.0 AJ: 0.0	E: -4.0 W: -0.0 AJ: 0.0																
								4								E: -6.0 W: 16.0 AJ: -1.0	E: -4.0 W: 28.0 AJ: -1.0	E: 0.0 W: 34.0 AJ: -1.0	E: 22.0 W: 0.0 AJ: -0.0	E: 0.0 W: -34.0 AJ: 1.0	E: 10.0 W: -32.0 AJ: 1.0	E: 19.0 W: -20.0 AJ: 1.0	E: -7.0 W: -0.0 AJ: 0.0								
																6								E: -9.0 W: 23.0 AJ: -1.0	E: -6.0 W: 42.0 AJ: -2.0	E: 0.0 W: 51.0 AJ: -2.0	E: 35.0 W: 0.0 AJ: -0.0	E: 0.0 W: -51.0 AJ: 2.0	E: 16.0 W: -51.0 AJ: 2.0	E: 30.0 W: -32.0 AJ: 1.0	E: -11.0 W: -0.0 AJ: 0.0
																								8							
																10															
Spin Drift (click) : -4 Maximum Y (m) : 3.81 At (m) : 270.0 Time to get there (s) : 1.44																															
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conditions : G1 0.114 - G7 0.082**

500 = 300				525 = 330				550 = 362				575 = 396																											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																								
0	-13	-50	-103	0	-14	-55	-114	0	-16	-61	-126	0	-17	-67	-138																								
Local Absolute Pressure (hPa)																																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																								
66	56	47	38	29	21	13	6	-1	-8	-14	-21	-27	-33	-39	-44																								
Air Temperature (°C)																																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																								
-84	-82	-80	-78	-75	-72	-69	-65	-61	-57	-53	-48	-40	-32	-24	-15																								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																								
-5	6	28	53	82	113	149	188	229	275	327	386	454	490	527	567																								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																								
610	657	690	724	760	798	838	876	917	960	1005	1052	1101	1154	1209	1267																								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																								
2								E: -7.0 W: 11.0 AJ: -0.0	E: -4.0 W: 19.0 AJ: -1.0	E: 0.0 W: 22.0 AJ: -1.0	E: 20.0 W: 0.0 AJ: -0.0	E: 0.0 W: -22.0 AJ: 1.0	E: 9.0 W: -20.0 AJ: 1.0	E: 17.0 W: -12.0 AJ: 0.0	E: -8.0 W: -0.0 AJ: 0.0																								
								4								E: -14.0 W: 21.0 AJ: -1.0	E: -8.0 W: 37.0 AJ: -1.0	E: 0.0 W: 44.0 AJ: -1.0	E: 44.0 W: 0.0 AJ: -0.0	E: 0.0 W: -44.0 AJ: 1.0	E: 20.0 W: -42.0 AJ: 1.0	E: 38.0 W: -27.0 AJ: 1.0	E: -15.0 W: -0.0 AJ: 0.0																
																6								E: -20.0 W: 30.0 AJ: -1.0	E: -12.0 W: 54.0 AJ: -2.0	E: 0.0 W: 67.0 AJ: -2.0	E: 71.0 W: 0.0 AJ: -0.0	E: 0.0 W: -67.0 AJ: 2.0	E: 32.0 W: -67.0 AJ: 2.0	E: 60.0 W: -43.0 AJ: 1.0	E: -23.0 W: -0.0 AJ: 0.0								
																								8								E: -26.0 W: 38.0 AJ: -1.0	E: -15.0 W: 70.0 AJ: -2.0	E: 0.0 W: 89.0 AJ: -3.0	E: 101.0 W: 0.0 AJ: -0.0	E: 0.0 W: -89.0 AJ: 3.0	E: 44.0 W: -94.0 AJ: 2.0	E: 84.0 W: -63.0 AJ: 1.0	E: -29.0 W: -0.0 AJ: 0.0
																																10							
Spin Drift (click) : -6 Maximum Y (m) : 7.91 At (m) : 363.0 Time to get there (s) : 1.93																																							
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