

Controlled Test	Date	Weight	MFG	Projo.	Bullet Length	Case	G1	G7	# Shots	MV AVG	SD	ES	MV Low	MV High	5rd	ATZ E	Dir.	ATZ W	Dir.	10rd	ATZ E	Dir.	ATZ W	Dir.	Temp	Humidity	inHG	D ALT	Notes	
Y	6/14/2024	55	Barnes	TSX FB	0.797	Brass	0.209	0.107	15	2906.7	31.3	115.9	2855.9	2971.9	2.319	0.04	U	1.13	L	2.287	0.75	U	1.26	L	87°	65%	29.93	2150	G7 Converted from G1	
Y	6/14/2024	55	Federal XM193	FMJ	0.735	Brass	0.246	0.12	15	3139.8	24.9	72.8	3103.9	3167.7	1.499	0.22	U	0.67	R	2.121	1.08	U	0.06	R	88°	65%	29.95	2165		
Y	6/14/2024	55	Hornady	FMJ BT	0.735	Brass	0.243	0.125	15	2892	39.3	142.6	2802.5	2945.1	1.649	1.01	U	0.49	L	1.55	1.05	U	0.54	L	87°	65%	29.95	2140	Litz length .741. G7 Converted from G1.	
AVERAGE															1.822	0.4233333		0.763333		1.966	0.96		0.62							
Y	6/14/2024	62	Barnes	TSX BT	0.973	Brass	0.296	0.152	15	3036.9	22.5	88.3	2994.7	3083	1.853	0.04	U	0.55	L	3.355	0.26	U	0.95	L	87°	65%	29.95	2130	G1 Converted from G7	
Y	6/14/2024	62	PMC XM855	Green Tip	0.907	Brass	0.301	0.151	15	2907.9	29.1	97	2864.4	2961.5	1.068	0.56	U	0.45	L	1.608	0.46	U	0.82	L	88°	64%	29.29	2205		
AVERAGE															1.461	0.3		0.5		2.482	0.36		0.885							
Y	6/14/2024	69	FGMM	SMK	0.921	Brass	0.301	0.165	15	2597.8	23.3	109.5	2557.4	2666.9	0.996	1.18	U	0.37	L	0.737	1.71	U	0.8	L	88°	66%	29.95	2170	10 RD group data here is 9 RD Group; called shot	
AVERAGE																														
Y	6/14/2024	70	Barnes	TSX BT	1.037	Brass	0.314	0.161	15	2880.8	17.1	61.1	2850.3	2911.4	1.29	0.14	U	0.74	L	1.789	0.44	U	0.58	L	88°	66%	29.95	2165	G7 Converted from G1	
Y	7/3/2024	70	Black Arc Munitions	TSK	1.037	NAS3	0.314	0.161	15	2907	11.1	43	2889.7	2932.7	1.63	Did not use control zero				2.122	Did not use control zero				85°	78%	30.16	1813	G7 Converted from G1	
AVERAGE															1.46	0.14		0.74		1.956	0.44		0.58							
N	6/1/2024	77	AAC Lot CF	OTM	0.9914	Brass	0.362	0.192	11	2637.3	10.8	38.6	2612.9	2651.5	0.37										78°	39%	28.59	2952	Averaged (2) 5rd groups: .36 & .38	
N	6/2/2024	77	AAC Lot CF	OTM	0.9914	Brass	0.362	0.192	5	2631	8.5	22.2	2619.2	2641.4	0.46															
Y	6/14/2024	77	AAC Lot MR	OTM	0.9914	Brass	0.362	0.192	15	2607.2	22.5	88.3	2552.2	2640.4	0.571	0.67	U	0.35	L	0.949	0.76	U	0.26	L	87°	66%	29.96	2142		
Y	6/14/2024	77	Black Arc Munitions	SMK	0.994	NAS3	0.362	0.19	15	2801.5	20.8	70.1	2766.6	2836.7	0.822	0.04	U	0.25	R	0.964	0.33	D	0.25	L	91°	60%	29.96	2363		
Y	6/14/2024	77	Black Arc Munitions Lot 1	SMK	0.994	NAS3	0.362	0.19	15	2852.4	18	63.6	2824.2	2887.8	0.401	0.94	U	1.02	L	1.249	0.84	U	1.08	L	90°	62%	29.95	2327		
Y	6/14/2024	77	Black Hills	OTM NATO (Hornady OTM)	0.994	Brass	0.33	0.19	15	2704.4	19	70.7	2671.7	2742.4	0.662	0.2	U	1	L	0.89	0.45	U	0.4	L	87°	69%	29.95	2115	10 RD group data includes 1 called shot	
Y	6/14/2024	77	Black Hills	MK262 Mod 1 C (SMK)	0.994	Brass	0.362	0.19	15	2739.9	14.3	53.6	2713.8	2767.4	0.433	0.46	U	0.62	L	1.159	0.65	U	0.58	L	86°	70%	29.95	2037		
Y	6/14/2024	77	FGMM	SMK	0.982	Brass	0.372	0.0188	15	2549.2	18.9	64.5	2520.9	2585.4	0.547	0.5	U	0.46	L	0.648	0.4	U	0.08	L	84°	73%	29.96	1960	10 RD group data here is 9 RD Group; called shot	
Y	6/14/2024	77	FGMM	SMK	0.982	Brass	0.372	0.0188	15	2549.2	18.9	64.5	2520.9	2585.4	0.547	0.5	U	0.46	L	0.877	0.36	U	0.13	L	84°	73%	29.96	1960	10 RD group data includes 1 called shot	
Y	6/14/2024	77	IMI Mod 1	SMK	0.994	Brass	0.362	0.19	15	2633.8	23.3	76.7	2601	2677.7	0.799	0.69	U	0.59	L	1.313	0.95	U	0.69	L	85°	73%	29.98	1985		
N	5/31/2024	77	Nosler Pro Match	HPBT	0.98	Brass	0.34	0.174	11	2490.2	25.2	75.9	2447	2522.9	0.38										59°	50%	29.92		Litz length .973. G7 Converted from G1.	
Y	6/14/2024	77	Black Hills	TMK	1.072	Brass	0.42	0.21	15	2687.4	18.1	77.8	2651.7	2729.5	3.137	1.27	U	1.07	L	2.168	1.37	U	1.34	L	87°	68%	29.95	2127	CRAZY GROUP DRIFTING; INVALID DATA; RESHOOT	
N	6/1/2024	77	Defender	SMK	0.994	Brass	0.355	0.189	10	2575.9	31.1	101	2547.4	2648.4											78°	39%	28.59	2952	Grouped terrible, did not bother to measure. BC from Litz testing.	
Y	7/3/2024	77	IMI Razorcore	SMK	0.994	Brass	0.362	0.19	15	2673.7	17.5	78.7	2629.7	2708.4	0.578	Did not use control zero				0.91	Did not use control zero				85°	78%	30.16	1813	used 9 round group due to called flyer	
Y	7/3/2024	77	Black Hills TMK	TMK	1.072	Brass	0.42	0.21	15	2687.8	12.9	49.2	2664.8	2713.9	2.214	Did not use control zero				1.586	Did not use control zero				85°	78%	30.16	1813		
AVERAGE										2654.7	18.7	66.4	2622.9	2689.3	0.852	0.5855556		0.65		1.156	0.68		0.53							AVERAGE

Ridgeline Defense LPR 16" 1:7SS

Leupold MK5 3.6-18x

KGM R6 Direct Thread

All shots were from rear bag & bipod in the prone

All groups were shot from a brand new 20 round magpul p mag

All (5) round groups fire the mag was only loaded to 5

All (10) round groups fire the mag was only loaded to 10

The bipod remained in the same firing position the entire firing schedule both on the rifle and distance from target and chronograph

The Garmin C1 Xero chronograph was positioned in the same location, including distance from the muzzle and rifle for all groups shot.

Chronograph data was collected from shooting (1) 5 round and (1) 10 round group for a total of 15 rounds.

Average ATZ for brass cased ammo

ATZ E

0.265

U

ATZ W

0.107

L

All Brass Cased 77g Match ammo will fall within .3 mils of elevation and .1 windage across all ammo