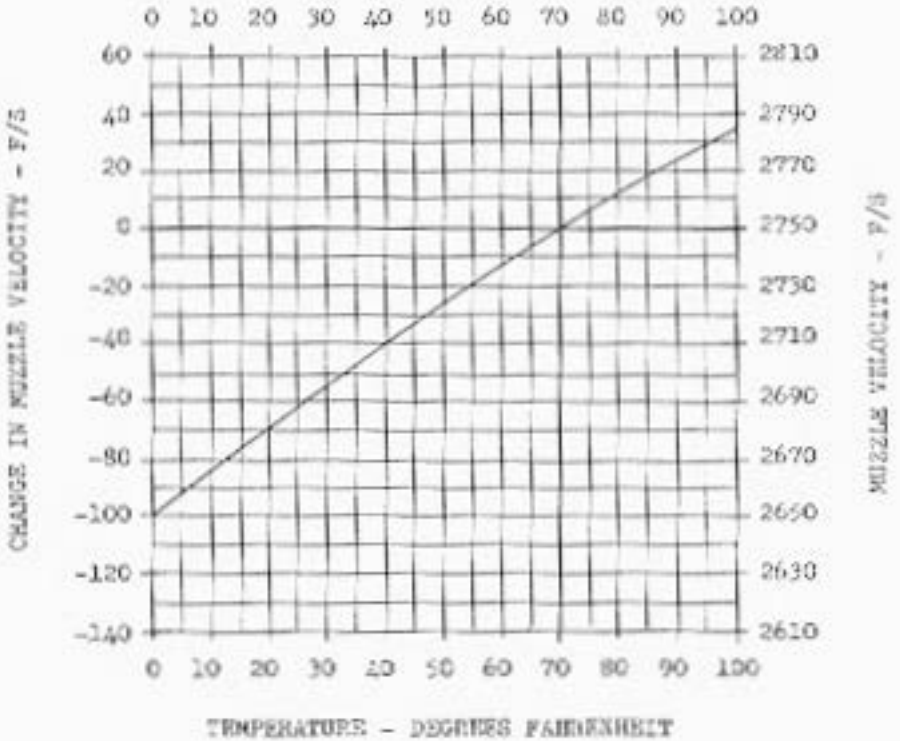
CHANGE IN MUZZLE VELOCITY FOR TEMPERATURE OF POWDER DIFFERENT FROM NORMAL



DIRECTIONS: - Enter chart with temperature of powder. Follow vertical line to the slanting line: from there follow the horizontal line either to the left edge of the chart, where the change in muzzle velocity may be read or to the right edge where the corrected muzzle velocity may be read.

EXAMPLE - Suppose temperature of powder is 59° F. Standard muzzle velocity is 2750 f/s. From the chart, the change in muzzle velocity is -13 f/s and the muzzle velocity to be expected is 2737 f/s.

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PART 2b-2

SHELL, H.E., 260 LB., MK.XX

FUZE, B.D., MK.X

SUPERCHARGE - BASE SECTION AND INCREMENT

MUZZLE VELOCITY 2750 F/S

TABLES A - K INCLUSIVE

JUMP = +1.5 MINUTES

The ballistic coefficients listed in this table are based on the drag function G_6 + 0.1085.

DRAWING OF CHARGE

(SEE PAGE 13)

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation			Change in elev for 100 yd change in range		Change in range for 1 mil change in elev	1 min change in elev	Maximum ordinate	Terminal velocity
(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg	min	mil	min	yd	yd	ft	f/s
0	-0.4	-0	01	0.6	2.2	156	46	0	2750
100	+0.2	+0	01	0.6	2.2	155	46	-0	
200	0.8	0	03	0.6	2.2	154	46	0	
300	1.4	0	06	0.7	2.2	153	45	1	
400	2.0	0	08	0.7	2.2	152	45	1	
500	2.8	0	10	0.7	2.2	151	45	2	2696
600	3.4	0	12	0.7	2.2	151	45	3	
700	4.0	0	14	0.7	2.3	150	45	4	
800	4.8	0	17	0.7	2.3	149	44	5	
900	5.4	0	19	0.7	2.3	148	44	6	
1000	6.2	0	21	0.7	2.3	147	44	7	2642
1100	6.8	0	23	0.7	2.3	146	44	8	
1200	7.4	0	26	0.7	2.3	145	43	9	
1300	8.2	0	28	0.7	2.3	145	43	11	
1400	8.8	0	31	0.7	2.3	144	43	12	
1500	9.6	0	33	0.7	2.4	143	42	14	2589
1600	10.2	0	35	0.7	2.4	142	42	16	
1700	11.0	0	38	0.7	2.4	141	42	18	
1800	11.6	0	40	0.7	2.4	141	42	20	
1900	12.4	0	43	0.7	2.4	140	41	22	
2000	13.2	0	45	0.7	2.4	139	41	24	2536
2100	13.8	0	47	0.7	2.4	138	41	26	
2200	14.6	0	50	0.7	2.5	137	41	29	
2300	15.2	0	52	0.7	2.5	137	40	31	
2400	16.0	0	55	0.7	2.5	136	40	34	
2500	16.8	0	57	0.7	2.5	135	40	37	2483
2600	17.6	1	00	0.7	2.5	134	40	40	
2700	18.2	1	02	0.7	2.5	133	40	43	
2800	19.0	1	05	0.8	2.5	133	39	46	
2900	19.8	1	07	0.8	2.6	132	39	49	
3000	20.6	1	10	0.8	2.6	131	39	52	2431
3100	21.4	1	13	0.8	2.6	130	39	55	
3200	22.0	1	15	0.8	2.6	129	38	59	
3300	22.8	1	18	0.8	2.6	129	38	63	
3400	23.6	1	20	0.8	2.6	128	38	67	
3500	24.4	1	23	0.8	2.7	127	37	71	2379

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FUZE, B.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, S.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coefficient	Probable error in R	Probable error in Dft *	Time of flight	Range
(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
mil	deg	min	1 in—	mil	deg		yd	yd	sec	yd
0	0	00		0	0.00	7.71	65	0	0.0	0
1	0	03	1273						0.1	100
1	0	05	669						0.2	200
2	0	08	446						0.3	300
3	0	10	338						0.4	400
4	0	13	268	-1	-0.05	7.72	65	0	0.6	500
5	0	16	221						0.7	600
5	0	18	189						0.8	700
6	0	21	166						0.9	800
7	0	23	147						1.0	900
8	0	26	132	-1	-0.05	7.72	66	0	1.1	1000
8	0	29	120						1.2	1100
9	0	32	110						1.3	1200
10	0	34	101						1.5	1300
11	0	37	93						1.6	1400
12	0	40	86	-1	-0.05	7.73	66	0	1.7	1500
13	0	43	80						1.8	1600
13	0	46	75						1.9	1700
14	0	48	71						2.0	1800
15	0	51	67						2.1	1900
16	0	54	64	-1	-0.05	7.74	66	0	2.3	2000
17	0	57	60						2.4	2100
18	1	00	57						2.5	2200
19	1	03	55						2.6	2300
19	1	06	52						2.7	2400
20	1	09	50	-1	-0.05	7.74	66	0	2.9	2500
21	1	12	48						3.0	2600
22	1	15	46						3.1	2700
23	1	18	44						3.2	2800
24	1	21	42						3.3	2900
25	1	24	41	-1	-0.05	7.75	66	1	3.5	3000
26	1	27	39						3.6	3100
27	1	30	38						3.7	3200
28	1	34	36						3.8	3300
29	1	37	35						4.0	3400
30	1	40	34	-1	-0.05	7.76	66	1	4.1	3500

* This is the Provi[illegible] Probable Error.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil / 1 min change in elev		Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	mils	yd	yd	ft	f/s
3500	24.4	1 23	0.8	2.7	127	37	71	2379
3600	25.2	1 25	0.8	2.7	126	37	75	
3700	26.0	1 28	0.8	2.7	125	37	79	
3800	26.8	1 31	0.8	2.7	125	37	84	
3900	27.6	1 34	0.8	2.7	124	36	88	
4000	28.4	1 37	0.8	2.7	123	36	93	2327
4100	29.2	1 40	0.8	2.7	122	36	98	
4200	30.0	1 43	0.8	2.8	122	36	103	
4300	30.8	1 45	0.8	2.8	121	35	108	
4400	31.6	1 48	0.8	2.8	120	35	113	
4500	32.6	1 51	0.8	2.8	119	35	119	2276
4600	33.4	1 54	0.8	2.8	119	35	125	
4700	34.2	1 57	0.8	2.9	118	35	131	
4800	35.0	1 59	0.8	2.9	117	34	137	
4900	35.8	2 02	0.9	2.9	117	34	143	
5000	36.8	2 05	0.9	2.9	116	34	150	2225
5100	37.6	2 08	0.9	2.9	115	34	157	
5200	38.4	2 11	0.9	2.9	115	34	164	
5300	39.2	2 14	0.9	3.0	114	33	171	
5400	40.2	2 17	0.9	3.0	113	33	178	
5500	41.2	2 20	0.9	3.0	112	33	185	2174
5600	42.0	2 23	0.9	3.0	112	33	193	
5700	42.8	2 26	0.9	3.0	111	33	201	
5800	43.8	2 29	0.9	3.1	110	32	209	
5900	44.8	2 32	0.9	3.1	110	32	217	
6000	45.8	2 35	0.9	3.1	109	32	225	2124
6100	46.6	2 38	0.9	3.1	108	32	234	
6200	47.4	2 41	0.9	3.1	108	32	243	
6300	48.4	2 45	0.9	3.2	107	31	252	
6400	49.4	2 48	0.9	3.2	106	31	261	
6500	50.4	2 51	1.0	3.2	105	31	270	2075
6600	51.2	2 54	1.0	3.2	105	31	280	
6700	52.2	2 57	1.0	3.2	104	31	290	
6800	53.2	3 01	1.0	3.3	103	30	300	
6900	54.2	3 04	1.0	3.3	103	30	310	
7000	55.2	3 07	1.0	3.3	102	30	320	2026

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FUZE, B.D., MK.X

PART 2b-2 TABLE A

SHELL, A.P., 360 LB., MK.XX
SHELL, T.P., 360 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

Angle of fall (08)		Slope of fall (12)	Deflection due to drift (13)		Ballistic coefficient (15)	Probable error in R (16)	Probable error in D (17)	Time of flight (18)	Range (19)
mil	deg min	l on—	mil	deg		yd	yd	sec	yd
30	1 40	34	-1	-0.05	7.76	66	1	4.1	3500
31	1 43	33						4.2	3600
32	1 47	32						4.3	3700
33	1 50	31						4.5	3800
34	1 54	30						4.6	3900
35	1 57	29	-1	-0.10	7.77	66	1	4.7	4000
36	2 01	28						4.9	4100
37	2 04	28						5.0	4200
38	2 08	27						5.1	4300
39	2 11	26						5.3	4400
40	2 15	25	-1	-0.10	7.77	67	1	5.4	4500
41	2 19	25						5.5	4600
42	2 22	24						5.6	4700
43	2 26	24						5.8	4800
44	2 29	23						5.9	4900
46	2 33	22	-2	-0.10	7.78	67	1	6.0	5000
47	2 37	22						6.2	5100
48	2 41	21						6.3	5200
49	2 45	21						6.4	5300
40	2 49	20						6.6	5400
51	2 53	19.9	-2	-0.10	7.79	67	1	6.7	5500
52	2 57	19.4						6.9	5600
54	3 01	19.0						7.0	5700
55	3 05	18.6						7.1	5800
56	3 09	18.2						7.3	5900
57	3 13	17.8	-2	-0.10	7.80	67	1	7.4	6000
58	3 17	17.4						7.5	6100
60	3 21	17.0						7.7	6200
61	3 26	16.7						7.9	6300
62	3 30	16.4						8.0	6400
63	3 34	16.0	-2	-0.10	7.81	67	2	8.1	6500
65	3 39	15.7						8.3	6600
66	3 43	15.4						8.4	6700
67	3 48	15.1						8.6	6800
69	3 52	14.8						8.7	6900
70	3 57	14.5	-2	-0.15	7.82	67	2	8.9	7000

* This is the Provi[sional] [E]rror.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2a-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil / 1 min change in elev		Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
7000	55.2	3 07	1.0	3.3	102	30	320	2026
7100	56.0	3 10	1.0	3.3	101	30	331	
7200	56.8	3 14	1.0	3.3	101	30	342	
7300	57.8	3 17	1.0	3.4	100	29	353	
7400	59.0	3 21	1.0	3.4	100	29	364	
7500	60.2	3 24	1.0	3.4	99	29	375	1978
7600	61.2	3 27	1.0	3.4	98	29	387	
7700	62.2	3 31	1.0	3.5	98	29	399	
7800	63.2	3 34	1.0	3.5	97	28	411	
7900	64.2	3 38	1.0	3.5	97	28	424	
8000	65.2	3 41	1.0	3.5	96	28	437	1931
8100	66.2	3 45	1.0	3.5	95	28	450	
8200	67.2	3 48	1.1	3.6	95	28	463	
8300	68.2	3 52	1.1	3.6	94	28	477	
8400	69.2	3 55	1.1	3.6	94	28	491	
8500	70.4	3 59	1.1	3.6	93	28	505	1884
8600	71.4	4 03	1.1	3.7	92	27	519	
8700	72.4	4 06	1.1	3.7	92	27	534	
8800	73.6	4 10	1.1	3.7	91	27	549	
8900	74.8	4 13	1.2	3.7	91	27	564	
9000	76.0	4 17	1.1	3.8	90	27	580	1838
9100	77.0	4 21	1.1	3.8	89	27	596	
9200	78.2	4 25	1.1	3.8	89	27	612	
9300	79.4	4 28	1.1	3.8	88	26	628	
9400	80.6	4 32	1.1	3.9	88	26	645	
9500	81.8	4 36	1.2	3.9	87	26	662	1792
9600	82.8	4 40	1.2	3.9	86	26	679	
9700	84.0	4 44	1.2	3.9	86	26	697	
9800	85.2	4 48	1.2	4.0	85	25	715	
9900	86.4	4 52	1.2	4.0	85	25	734	
10000	87.6	4 56	1.2	4.0	84	25	753	1747
10100	88.8	5 00	1.2	4.0	83	25	772	
10200	90.0	5 04	1.2	4.1	83	25	791	
10300	91.2	5 09	1.2	4.1	82	24	811	
10400	92.4	5 13	1.2	4.1	82	24	831	
10500	93.6	5 17	1.2	4.2	81	24	852	1703

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FUZE, S.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coefficient	Probable error in R	Probable error in Dr	Time of flight	Range
(C)	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
mil	deg	min	+ on −	mil	deg		yd	yd	sec	yd
70	3	57	14.5	-2	-0.15	7.82	67	2	8.9	7000
72	4	02	14.2						9.0	7100
73	4	07	13.9						9.2	7200
74	4	11	13.7						9.3	7300
76	4	16	13.4						9.5	7400
77	4	21	13.2	-2	-0.15	7.83	67	2	9.6	7500
79	4	26	12.9						9.8	7600
80	4	31	12.7						9.9	7700
82	4	36	12.4						10.1	7800
83	4	41	12.2						10.2	7900
85	4	46	12.0	-3	-0.15	7.84	68	2	10.4	8000
86	4	51	11.8						10.6	8100
88	4	57	11.5						10.7	8200
90	5	02	11.3						10.9	8300
91	5	08	11.1						11.0	8400
93	5	13	10.9	-3	-0.15	7.85	68	2	11.2	8500
94	5	19	10.7						11.4	8600
96	5	24	10.6						11.5	8700
98	5	30	10.4						11.7	8800
99	5	35	10.2						11.8	8900
101	5	41	10.0	-3	-0.15	7.86	68	2	12.0	9000
103	5	47	9.9						12.2	9100
105	5	53	9.7						12.3	9200
107	5	59	9.5						12.5	9300
108	6	05	9.4						12.7	9400
110	6	11	9.2	-3	-0.20	7.87	68	3	12.8	9500
112	6	18	9.0						13.0	9600
114	6	24	8.9						13.2	9700
116	6	31	8.7						13.3	9800
118	6	37	8.6						13.5	9900
120	6	44	8.5	-3	-0.20	7.88	68	3	13.7	10000
122	6	51	8.3						13.8	10100
124	6	58	8.2						14.0	10200
126	7	05	8.0						14.2	10300
128	7	12	7.9						14.4	10400
130	7	19	7.8	-3	-0.20	7.89	68	3	14.6	10500

* This is the Prov[illegible] Error.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil / 1 min change in elev		Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	fps
10500	93.6	5 17	1.2	4.2	81	24	852	1703
10600	94.8	5 21	1.2	4.2	80	24	873	
10700	96.0	5 25	1.3	4.2	80	24	894	
10800	97.2	5 30	1.3	4.3	79	23	916	
10900	98.6	5 34	1.3	4.3	79	23	938	
11000	100.0	5 38	1.3	4.3	78	23	960	1659
11100	101.2	5 42	1.3	4.3	77	23	982	
11200	102.4	5 47	1.3	4.4	77	23	1006	
11300	103.8	5 51	1.3	4.4	76	23	1029	
11400	105.2	5 56	1.3	4.4	76	23	1053	
11500	106.6	6 00	1.3	4.5	75	22	1077	1616
11600	107.8	6 04	1.3	4.5	75	22	1102	
11700	109.0	6 09	1.3	4.5	74	22	1127	
11800	110.4	6 13	1.4	4.6	74	22	1153	
11900	111.8	6 18	1.4	4.6	73	22	1179	
12000	113.2	6 22	1.4	4.6	73	22	1205	1575
12100	114.6	6 27	1.4	4.7	72	22	1232	
12200	116.0	6 31	1.4	4.7	72	21	1259	
12300	117.4	6 36	1.4	4.7	71	21	1287	
12400	118.8	6 40	1.4	4.8	71	21	1315	
12500	120.2	6 45	1.4	4.8	70	21	1343	1535
12600	121.6	6 50	1.4	4.8	70	21	1372	
12700	123.0	6 55	1.4	4.9	69	21	1402	
12800	124.4	7 00	1.5	4.9	69	21	1432	
12900	125.8	7 05	1.5	4.9	68	20	1462	
13000	127.4	7 10	1.5	5.0	68	20	1493	1497
13100	128.8	7 15	1.5	5.0	67	20	1524	
13200	130.2	7 20	1.5	5.0	67	20	1556	
13300	131.6	7 26	1.5	5.1	66	20	1588	
13400	133.2	7 31	1.5	5.1	66	20	1621	
13500	134.8	7 36	1.5	5.1	65	20	1655	1460
13600	136.2	7 41	1.5	5.2	65	19	1689	
13700	137.6	7 46	1.5	5.2	64	19	1723	
13800	139.2	7 52	1.6	5.2	64	19	1758	
13900	140.8	7 57	1.6	5.3	63	19	1793	
14000	142.6	8 02	1.6	5.3	63	19	1829	1424

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FUZE, B.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - K.Y. 2750 f/s

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coeffi-cient	Probable error in R	Probable error in DR	Time of flight	Range
002	003		023	039	043	059	063	067	089	109
mil	deg	min.	1 in—	mil	deg		yd	yd	sec	yd
130	7	19	7.8	-3	-0.20	7.89	68	3	14.6	10500
132	7	26	7.7						14.7	10600
134	7	33	7.5						14.9	10700
136	7	41	7.4						15.1	10800
138	7	48	7.3						15.3	10900
141	7	55	7.2	-4	-0.20	7.91	68	3	15.5	11000
143	8	03	7.1						15.6	11100
145	8	10	7.0						15.8	11200
147	8	18	6.9						16.0	11300
150	8	25	6.8						16.2	11400
152	8	33	6.6	-4	-0.20	7.92	69	3	16.4	11500
154	8	41	6.5						16.6	11600
157	8	50	6.4						16.8	11700
159	8	58	6.3						16.9	11800
162	9	07	6.2						17.1	11900
164	9	15	6.1	-4	-0.20	7.93	69	4	17.3	12000
167	9	24	6.1						17.5	12100
169	9	33	6.0						17.7	12200
172	9	41	5.9						17.9	12300
174	9	50	5.8						18.1	12400
177	9	59	5.7	-4	-0.25	7.94	69	4	18.3	12500
180	10	08	5.6						18.5	12600
183	10	17	5.5						18.7	12700
185	10	27	5.4						18.9	12800
188	10	36	5.4						19.1	12900
191	10	45	5.3	-5	-0.25	7.96	69	4	19.3	13000
194	10	55	5.2						19.5	13100
197	11	05	5.1						19.7	13200
199	11	14	5.0						19.9	13300
202	11	24	5.0						20.1	13400
206	11	34	4.9	-5	-0.25	7.97	69	4	20.3	13500
209	11	44	4.8						20.5	13600
212	11	54	4.7						20.7	13700
215	12	05	4.7						20.9	13800
218	12	15	4.6						21.1	13900
221	12	25	4.5	-5	-0.30	7.98	70	5	21.4	14000

* This is the Provi[illegible]rmr.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil / 1 min change in elev		Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
14000	142.6	8 02	1.6	5.3	63	19	1829	1424
14100	144.2	8 07	1.6	5.4	63	19	1865	
14200	145.8	8 13	1.6	5.4	62	18	1902	
14300	147.4	8 18	1.6	5.4	62	18	1940	
14400	149.0	8 24	1.6	5.5	61	18	1978	
14500	150.6	8 29	1.6	5.5	61	18	2017	1389
14600	152.2	8 35	1.6	5.5	61	18	2056	
14700	153.8	8 40	1.7	5.6	60	18	2096	
14800	155.4	8 46	1.7	5.6	60	18	2137	
14900	157.0	8 51	1.7	5.7	59	17	2178	
15000	158.8	8 57	1.7	5.7	59	17	2220	1356
15100	160.4	9 03	1.7	5.7	59	17	2262	
15200	162.2	9 09	1.7	5.8	58	17	2305	
15300	163.8	9 14	1.7	5.8	58	17	2349	
15400	165.6	9 20	1.7	5.9	57	17	2393	
15500	167.4	9 26	1.8	5.9	57	17	2438	1325
15600	169.2	9 32	1.8	5.9	57	17	2484	
15700	171.0	9 38	1.8	6.0	56	17	2530	
15800	172.8	9 44	1.8	6.0	56	17	2577	
15900	174.6	9 50	1.8	6.1	55	16	2624	
16000	176.4	9 56	1.8	6.1	55	16	2672	1295
16100	178.2	10 02	1.8	6.2	55	16	2721	
16200	180.0	10 08	1.8	6.2	54	16	2770	
16300	182.0	10 15	1.8	6.2	54	16	2820	
16400	183.8	10 21	1.9	6.3	53	16	2871	
16500	185.6	10 27	1.9	6.3	53	16	2923	1267
16600	187.6	10 33	1.9	6.4	53	16	2976	
16700	189.4	10 40	1.9	6.4	52	16	3029	
16800	191.4	10 46	1.9	6.5	52	15	3083	
16900	193.2	10 53	1.9	6.5	51	15	3138	
17000	195.2	10 59	1.9	6.6	51	15	3193	1242
17100	197.0	11 06	2.0	6.6	51	15	3249	
17200	199.0	11 12	2.0	6.6	50	15	3306	
17300	201.0	11 19	2.0	6.7	50	15	3364	
17400	203.0	11 25	2.0	6.7	50	15	3423	
17500	205.0	11 32	2.0	6.8	49	15	3482	1218

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FUZE, B.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coefficient	Probable * error in R	Probable * error in Dft	Time of flight	Range
(09)	(10)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
mil	deg	min.	1 on -	mil	deg		yd	yd	sec	yd
221	12	25	4.5	-5	-0.30	7.98	70	5	21.4	14000
224	12	36	4.5						21.6	14100
227	12	47	4.4						21.8	14200
230	12	57	4.3						22.0	14300
233	13	08	4.3						22.2	14400
237	13	19	4.2	-5	-0.30	7.99	70	5	22.4	14500
240	13	31	4.2						22.6	14600
243	13	42	4.1						22.9	14700
247	13	54	4.0						23.1	14800
250	14	05	4.0						23.3	14900
254	14	17	3.9	-6	-0.30	8.01	70	5	23.5	15000
257	14	29	3.9						23.7	15100
261	14	41	3.8						24.0	15200
264	14	53	3.8						24.2	15300
268	15	05	3.7						24.4	15400
271	15	17	3.7	-6	-0.35	8.02	70	5	24.6	15500
275	15	30	3.6						24.9	15600
279	15	42	3.6						25.1	15700
283	15	55	3.5						25.4	15800
286	16	07	3.5						25.6	15900
290	16	20	3.4	-6	-0.35	8.04	71	6	25.8	16000
294	16	33	3.4						26.0	16100
298	16	46	3.3						26.3	16200
302	17	00	3.3						26.5	16300
306	17	13	3.2						26.8	16400
310	17	26	3.2	-6	-0.35	8.05	71	6	27.0	16500
314	17	40	3.1						27.2	16600
318	17	54	3.1						27.5	16700
322	18	07	3.1						27.7	16800
326	18	21	3.0						28.0	16900
330	18	35	3.0	-7	-0.40	8.07	71	6	28.2	17000
335	18	49	2.9						28.5	17100
339	19	04	2.9						28.7	17200
343	19	18	2.9						29.0	17300
347	19	33	2.8						29.2	17400
352	19	47	2.8	-7	-0.40	8.08	72	7	29.5	17500

* This is the Prov[illegible] Error.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, D.D., MK.X

PART 2b-2 TABLE 1

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil change in elev	1 min change in elev	Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	fs
17500	205.0	11 32	2.0	6.8	49	15	3482	1218
17600	207.0	11 39	2.0	6.8	49	14	3542	
17700	209.0	11 46	2.0	6.9	49	14	3603	
17800	211.2	11 53	2.1	6.9	49	14	3665	
17900	213.2	12 00	2.1	7.0	48	14	3728	
18000	215.2	12 07	2.1	7.0	48	14	3791	1196
18100	217.4	12 14	2.1	7.0	48	14	3855	
18200	219.4	12 21	2.1	7.1	47	14	3920	
18300	221.6	12 29	2.1	7.2	47	14	3986	
18400	223.6	12 36	2.1	7.2	47	14	4053	
18500	225.8	12 43	2.2	7.2	46	14	4122	1176
18600	228.0	12 50	2.2	7.3	46	14	4192	
18700	230.0	12 57	2.2	7.3	46	14	4262	
18800	232.2	13 05	2.2	7.4	46	13	4332	
18900	234.4	13 12	2.2	7.4	45	13	4403	
19000	236.6	13 19	2.2	7.5	45	13	4475	1158
19100	238.8	13 27	2.2	7.5	45	13	4548	
19200	241.0	13 34	2.2	7.6	44	13	4622	
19300	243.2	13 42	2.3	7.6	44	13	4697	
19400	245.4	13 49	2.3	7.7	44	13	4774	
19500	247.8	13 57	2.3	7.7	43	13	4851	1142
19600	250.0	14 05	2.3	7.8	43	13	4929	
19700	252.4	14 13	2.3	7.8	43	13	5010	
19800	254.8	14 21	2.3	7.9	43	13	5090	
19900	257.2	14 29	2.4	7.9	42	13	5170	
20000	259.6	14 37	2.4	8.0	42	12	5250	1128
20100	262.0	14 45	2.4	8.1	42	12	5331	
20200	264.4	14 53	2.4	8.1	41	12	5420	
20300	266.8	15 02	2.4	8.2	41	12	5505	
20400	269.2	15 10	2.4	8.2	41	12	5590	
20500	271.6	15 18	2.5	8.3	40	12	5675	1116
20600	274.2	15 26	2.5	8.3	40	12	5765	
20700	276.8	15 35	2.5	8.4	40	12	5855	
20800	279.2	15 43	2.5	8.4	40	12	5945	
20900	281.8	15 52	2.5	8.5	39	12	6035	
21000	284.2	16 00	2.5	8.5	39	12	6130	1105

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FUZE, S.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall (00) mil	Angle of fall (01) deg	Angle of fall (01) min	Slope of fall (02) 1 on—	Deflection due to drift (03) mil	Deflection due to drift (04) deg	Ballistic coeff. clast (05)	Probable error in R (06) yd	Probable error in D (07) yd	Time of flight (08) sec	Range (09) yd
352	19	47	2.8	-7	-0.40	8.08	72	7	29.5	17500
356	20	02	2.7						29.7	17600
360	20	17	2.7						30.0	17700
365	20	31	2.7						30.2	17800
369	20	46	2.6						30.5	17900
374	21	01	2.6	-7	-0.40	8.10	72	7	30.7	18000
378	21	16	2.6						31.0	18100
383	21	32	2.5						31.3	18200
387	21	47	2.5						31.5	18300
392	22	03	2.5						31.8	18400
397	22	18	2.4	-8	-0.45	8.11	72	7	32.0	18500
401	22	34	2.4						32.3	18600
406	22	50	2.4						32.6	18700
411	23	05	2.3						32.8	18800
415	23	21	2.3						33.1	18900
420	23	37	2.3	-8	-0.45	8.13	73	8	33.4	19000
425	23	53	2.3						33.6	19100
430	24	09	2.2						33.9	19200
434	24	26	2.2						34.2	19300
439	24	42	2.2						34.5	19400
444	24	58	2.1	-9	-0.50	8.14	73	8	34.8	19500
449	25	15	2.1						35.0	19600
454	25	31	2.1						35.3	19700
459	25	48	2.1						35.6	19800
463	26	04	2.0						35.9	19900
468	26	21	2.0	-9	-0.50	8.16	73	8	36.2	20000
472	26	38	1.99						36.4	20100
478	26	55	1.97						36.7	20200
483	27	11	1.95						37.0	20300
488	27	28	1.92						37.3	20400
493	27	45	1.90	-9	-0.55	8.18	74	9	37.6	20500
498	28	02	1.88						37.9	20600
503	28	19	1.86						38.2	20700
508	28	35	1.84						38.5	20800
513	28	52	1.81						38.8	20900
518	29	09	1.79	-10	-0.55	8.20	74	9	39.1	21000

* This is the Provi[illegible]rror.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil / 1 min change in elev		Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
21000	284.2	16 00	2.5	8.5	39	12	6130	1105
21100	286.8	16 09	2.6	8.6	39	12	6225	
21200	289.2	16 17	2.6	8.6	39	12	6320	
21300	291.8	16 26	2.6	8.7	38	12	6415	
21400	294.4	16 34	2.6	8.7	38	11	6510	
21500	297.0	16 43	2.6	8.8	38	11	6610	1096
21600	299.6	16 52	2.6	8.9	38	11	6710	
21700	302.4	17 01	2.6	8.9	38	11	6810	
21800	305.0	17 10	2.7	9.0	37	11	6910	
21900	307.8	17 19	2.7	9.0	37	11	7015	
22000	310.4	17 28	2.7	9.1	37	11	7120	1089
22100	313.2	17 37	2.7	9.1	37	11	7225	
22200	315.8	17 46	2.7	9.2	37	11	7330	
22300	318.6	17 56	2.7	9.2	36	11	7435	
22400	321.2	18 05	2.8	9.3	36	11	7545	
22500	324.0	18 14	2.8	9.3	36	11	7655	1084
22600	326.8	18 23	2.8	9.4	36	11	7765	
22700	329.6	18 33	2.8	9.5	36	11	7875	
22800	332.4	18 42	2.8	9.5	35	10	7990	
22900	335.2	18 52	2.8	9.6	35	10	8105	
23000	338.0	19 01	2.9	9.6	35	10	8220	1080
23100	340.8	19 11	2.9	9.7	35	10	8340	
23200	343.8	19 21	2.9	9.7	35	10	8455	
23300	346.6	19 30	2.9	9.8	34	10	8575	
23400	349.6	19 40	2.9	9.8	34	10	8700	
23500	352.4	19 50	2.9	9.9	34	10	8820	1078
23600	355.4	20 00	2.9	10.0	34	10	8945	
23700	358.2	20 10	3.0	10.0	34	10	9070	
23800	361.2	20 20	3.0	10.1	33	10	9195	
23900	364.2	20 30	3.0	10.2	33	10	9325	
24000	367.2	20 40	3.0	10.2	33	10	9455	1077
24100	370.2	20 50	3.0	10.3	33	10	9585	
24200	373.2	21 01	3.1	10.3	33	10	9715	
24300	376.2	21 11	3.1	10.4	32	10	9850	
24400	379.2	21 22	3.1	10.4	32	10	9985	
24500	382.4	21 32	3.1	10.5	32	9	10120	1077

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FUZE, B.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s.

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coeff-icient	Probable * error in R	Probable * error in Dfl	Time of flight	Range
(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
mil	deg	min	1 in—	mil	deg		yd	yd	sec	yd
518	29	09	1.79	-10	-0.55	8.20	74	9	39.1	21000
523	29	26	1.77						39.3	21100
528	29	43	1.75						39.6	21200
533	30	00	1.73						39.9	21300
538	30	17	1.71						40.2	21400
544	30	34	1.69	-10	-0.60	8.21	75	9	40.6	21500
549	30	51	1.67						40.9	21600
554	31	08	1.65						41.2	21700
559	31	26	1.64						41.5	21800
564	31	43	1.62						41.8	21900
569	32	00	1.60	-11	-0.60	8.23	75	10	42.1	22000
574	32	17	1.58						42.4	22100
579	32	34	1.56						42.7	22200
584	32	52	1.55						43.0	22300
589	33	09	1.53						43.3	22400
595	33	26	1.51	-11	-0.65	8.25	75	10	43.6	22500
600	33	43	1.50						43.9	22600
605	34	00	1.48						44.2	22700
610	34	18	1.47						44.5	22800
615	34	35	1.45						44.9	22900
620	34	52	1.43	-12	-0.65	8.27	76	11	45.2	23000
625	35	09	1.42						45.5	23100
630	35	26	1.40						45.8	23200
635	35	43	1.39						46.1	23300
640	36	00	1.38						46.5	23400
645	36	17	1.36	-12	-0.70	8.28	76	11	46.8	23500
650	36	34	1.35						47.1	23600
655	36	51	1.33						47.4	23700
660	37	08	1.32						47.7	23800
665	37	25	1.31						48.1	23900
670	37	42	1.29	-13	-0.75	8.30	76	12	48.4	24000
675	37	59	1.28						48.7	24100
680	38	16	1.27						49.1	24200
685	38	32	1.25						49.4	24300
690	38	49	1.24						49.7	24400
695	39	06	1.23	-14	-0.75	8.32	77	12	50.1	24500

* This is the Prov[illegible]rror.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE – M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil change in elev	1 min change in elev	Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
24500	382.4	21 32	3.1	10.5	32	9	10120	1077
24600	385.4	21 43	3.1	10.6	32	9	10260	
24700	388.6	21 53	3.1	10.6	32	9	10400	
24800	391.8	22 04	3.2	10.7	31	9	10540	
24900	395.0	22 14	3.2	10.7	31	9	10680	
25000	398.2	22 25	3.2	10.8	31	9	10830	1079
25100	401.4	22 36	3.2	10.9	31	9	10970	
25200	404.6	22 47	3.2	10.9	31	9	11120	
25300	407.8	22 58	3.3	11.0	30	9	11270	
25400	411.0	23 09	3.3	11.1	30	9	11420	
25500	414.4	23 20	3.3	11.1	30	9	11570	1082
25600	417.6	23 31	3.3	11.2	30	9	11720	
25700	421.0	23 42	3.3	11.3	30	9	11880	
25800	424.4	23 54	3.4	11.4	29	9	12040	
25900	427.8	24 05	3.4	11.4	29	9	12190	
26000	431.2	24 16	3.4	11.5	29	9	12350	1085
26100	434.6	24 28	3.4	11.6	29	9	12520	
26200	438.0	24 39	3.5	11.7	29	9	12680	
26300	441.4	24 51	3.5	11.7	28	9	12850	
26400	445.0	25 02	3.5	11.8	28	8	13010	
26500	448.6	25 14	3.5	11.9	28	8	13180	1089
26600	452.2	25 26	3.6	12.0	28	8	13360	
26700	455.8	25 38	3.6	12.1	28	8	13530	
26800	459.4	25 51	3.6	12.2	27	8	13710	
26900	463.0	26 03	3.6	12.3	27	8	13880	
27000	466.6	26 15	3.7	12.4	27	8	14060	1094
27100	470.2	26 28	3.7	12.5	27	8	14250	
27200	474.0	26 40	3.7	12.6	27	8	14430	
27300	477.8	26 53	3.7	12.7	26	8	14620	
27400	481.6	27 05	3.8	12.8	26	8	14810	
27500	485.4	27 18	3.8	12.9	26	8	15000	1100
27600	489.2	27 31	3.8	13.0	26	8	15190	
27700	493.0	27 44	3.9	13.1	26	8	15390	
27800	496.8	27 57	3.9	13.2	25	8	15590	
27900	500.8	28 10	3.9	13.3	25	7	15790	
28000	504.8	28 24	4.0	13.4	25	7	16000	1106

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FUZE, D.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall (10) mil	Angle of fall (11) deg	Angle of fall (11) min	Slope of fall (12) 1 on—	Deflection due to drift (13) mil	Deflection due to drift (14) deg	Ballistic coefficient (15)	Probable error in R (16) yd	Probable error in DE (17) yd	Time of flight (18) sec	Range (19) yd
695	39	06	1.23	-12	-0.75	8.32	77	12	50.1	24500
700	39	23	1.22						50.4	24600
705	39	40	1.21						50.7	24700
710	39	56	1.19						51.1	24800
715	40	13	1.18						51.4	24900
720	40	30	1.17	-14	-0.80	8.34	77	13	51.8	25000
725	40	47	1.16						52.1	25100
730	41	03	1.15						52.5	25200
735	41	20	1.14						52.8	25300
740	41	36	1.13						53.2	25400
745	41	53	1.12	-15	-0.85	8.35	78	13	53.5	25500
750	42	09	1.11						53.9	25600
754	42	26	1.09						54.2	25700
759	42	42	1.08						54.6	25800
764	42	59	1.07						54.9	25900
769	43	15	1.06	-16	-0.90	8.37	78	14	55.3	26000
774	43	31	1.05						55.6	26100
779	43	47	1.04						56.0	26200
783	44	04	1.03						56.4	26300
788	44	20	1.02						56.7	26400
793	44	36	1.01	-17	-0.95	8.38	79	14	57.1	26500
798	44	52	1.00						57.5	26600
803	45	08	0.99						57.8	26700
807	45	25	0.99						58.2	26800
812	45	41	0.98						58.6	26900
817	45	57	0.97	-17	-1.00	8.40	79	15	59.0	27000
822	46	13	0.96						59.3	27100
826	46	29	0.95						59.7	27200
831	46	45	0.94						60.1	27300
836	47	01	0.93						60.5	27400
840	47	17	0.92	-18	-1.05	8.41	80	16	60.9	27500
845	47	33	0.92						61.3	27600
850	47	49	0.91						61.7	27700
855	48	04	0.90						62.1	27800
859	48	20	0.89						62.5	27900
864	48	36	0.88	-19	-1.10	8.43	80	16	62.9	28000

* This is the Prov[illegible] Error.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, S.D., MK.X

PART 2b-2 TABLE A

Range	Elevation		Change in elev for 100 yd change in range		Change in range for 1 mil change in elev	1 min change in elev	Maximum ordinate	Terminal velocity
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
28000	504.8	28 24	4.0	13.4	25	7	16000	1106
28100	508.8	28 38	4.0	13.5	25	7	16200	
28200	512.8	28 52	4.0	13.7	25	7	16410	
28300	516.8	29 05	4.1	13.8	24	7	16620	
28400	520.8	29 19	4.1	13.9	24	7	16840	
28500	525.0	29 33	4.2	14.0	24	7	17060	1113
28600	529.2	29 47	4.2	14.2	24	7	17280	
28700	533.4	30 01	4.2	14.3	24	7	17500	
28800	537.6	30 16	4.3	14.5	23	7	17730	
28900	542.0	30 30	4.3	14.6	23	7	17960	
29000	546.4	30 45	4.4	14.7	23	7	18190	1120
29100	550.8	31 00	4.4	14.9	23	7	18430	
29200	555.2	31 15	4.5	15.1	22	7	18670	
29300	559.6	31 30	4.5	15.2	22	7	18910	
29400	564.2	31 45	4.6	15.4	22	6	19160	
29500	568.8	32 01	4.6	15.6	21	6	19410	1128
29600	573.4	32 16	4.7	15.8	21	6	19670	
29700	578.2	32 32	4.7	16.0	21	6	19940	
29800	583.0	32 48	4.8	16.2	21	6	20200	
29900	587.8	33 04	4.9	16.4	20	6	20480	
30000	592.6	33 21	4.9	16.7	20	6	20740	1138
30100	597.6	33 38	5.0	16.9	20	6	21020	
30200	602.6	33 55	5.1	17.1	19	6	21300	
30300	607.8	34 12	5.2	17.4	19	6	21600	
30400	613.0	34 29	5.2	17.7	19	6	21880	
30500	618.2	34 47	5.3	18.0	18	6	22180	1149
30600	623.6	35 05	5.4	18.3	18	5	22480	
30700	629.0	35 23	5.5	18.6	18	5	22800	
30800	634.6	35 42	5.6	18.9	18	5	23120	
30900	640.2	36 01	5.7	19.2	17	5	23440	
31000	646.0	36 20	5.8	19.6	17	5	23780	1161
31100	651.8	36 40	5.9	20.0	17	5	24120	
31200	657.8	37 00	6.1	20.4	16	5	24460	
31300	663.8	37 20	6.2	20.9	16	5	24820	
31400	670.0	37 41	6.3	21.4	15	5	25200	
31500	676.4	38 03	6.5	21.9	15	5	25580	1175

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FUZE, S.D., MK.X
PART 2b-2 TABLE A

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

Angle of fall (10) mil	Angle of fall (11) deg	Angle of fall (11) min	Slope of fall (12) 1 on—	Deflection due to drift (13) mil	Deflection due to drift (14) deg	Ballistic coefficient (15)	Probable * error in R (16) yd	Probable * error in Dfl (17) yd	Time of flight (18) sec	Range (19) yd
864	48	36	0.88	-19	-1.10	8.43	80	16	62.9	28000
869	48	52	0.87						63.3	28100
873	49	07	0.87						63.7	28200
878	49	23	0.86						64.1	28300
883	49	38	0.85						64.5	28400
887	49	54	0.84	-20	-1.15	8.44	81	17	65.0	28500
892	50	10	0.83						65.4	28600
897	50	26	0.83						65.8	28700
901	50	41	0.82						66.2	28800
906	50	57	0.81						66.6	28900
910	51	13	0.80	-21	-1.20	8.46	82	17	67.1	29000
915	51	29	0.80						67.5	29100
920	51	44	0.79						68.0	29200
924	52	00	0.78						68.4	29300
929	52	15	0.77						68.9	29400
934	52	31	0.77	-22	-1.25	8.47	82	18	69.3	29500
938	52	47	0.76						69.8	29600
943	53	03	0.75						70.3	29700
948	53	18	0.75						70.7	29800
952	53	34	0.74						71.2	29900
957	53	50	0.73	-23	-1.30	8.49	83	19	71.7	30000
962	54	06	0.72						72.2	30100
966	54	21	0.72						72.7	30200
971	54	37	0.71						73.2	30300
976	54	52	0.70						73.7	30400
980	55	08	0.70	-25	-1.40	8.50	84	20	74.2	30500
985	55	24	0.69						74.7	30600
990	55	40	0.68						75.2	30700
994	55	55	0.68						75.8	30800
999	56	11	0.67						76.3	30900
1004	56	27	0.66	-26	-1.50	8.52	85	21	76.8	31000
1009	56	43	0.66						77.3	31100
1013	57	00	0.65						77.9	31200
1018	57	16	0.64						78.5	31300
1023	57	33	0.64						79.1	31400
1028	57	49	0.63	-28	-1.60	8.53	86	22	79.7	31500

* This is the Provin[illegible]ror.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X
PART 2b-2 TABLE A

Range (1)	Elevation (2)		Change in elev for 100 yd change in range (4)		Change in range for 1 mil change in elev (6)	1 min (7)	Maximum ordinate (8)	Terminal velocity (9)
yd	mil	deg min	mil	min	yd	yd	ft	f/s
31500	676.4	38 03	6.5	22.9	15	5	25580	1175
31600	683.0	38 25	6.7	22.4	15	4	25960	
31700	689.8	38 48	6.9	23.0	14	4	26360	
31800	696.8	39 12	7.1	23.7	14	4	26780	
31900	704.0	39 36	7.3	24.5	13	4	27220	
32000	711.4	40 01	7.6	25.6	13	4	27660	1191
32100	719.2	40 27	8.0	27.0	12	4	28120	
32200	727.4	40 55	8.5	28.7	12	3	28620	
32300	736.2	41 25	9.1	30.7	11	3	29150	
32400	745.6	41 57	9.8	33.0	10	3	29720	
32500	755.8	42 31	10.6	35.7	10	3	30340	1223
32600	767.0	43 08	11.6	39.2	9	3	31020	
32700	779.4	43 50	13.1	44.2	8	3	31800	
32800	793.8	44 40	15.7	53.0	6	2	32680	
32900	813.2	45 45					33680	
32980	851.8	47 55					36280	1264

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FUZE, T.D., MK.X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

PART 2b-2 TABLE A

Angle of fall			Slope of fall	Deflection due to drift		Ballistic coefficient	Probable error in R	Probable error in DR	Time of flight	Range
(01)			(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)
mil	deg	min	1 on—	mil	deg		yd	yd	sec	yd
1028	57	49	0.63	-28	-1.60	8.53	86	22	79.7	32500
1033	58	06	0.62						80.3	31600
1038	58	24	0.62						80.9	31700
1043	58	41	0.61						81.6	31800
1048	58	59	0.60						82.3	31900
1054	59	16	0.59	-30	-1.70	8.55	87	23	83.0	32000
1059	59	34	0.59						83.7	32100
1065	59	52	0.58						84.4	32200
1071	60	14	0.57						85.2	32300
1077	60	35	0.56						86.0	32400
1084	60	57	0.56	-33	-1.85	8.56	88	24	86.9	32500
1091	61	21	0.55						87.9	32600
1099	61	48	0.54						89.0	32700
1108	62	19	0.52						90.3	32800
1119	62	57	0.51						92.0	32900
1142	64	14	0.48	-38	-2.15	8.59	91	27	95.3	32900

a This is the Proving Ground Probable Error.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, D.D., MK.X
PART 2b-2 TABLE B

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Height of Target	Map Range - Yards								
Feet	1000	1500	2000	2500	3000	3500	4000	4500	5000
-10	503	325	236	184	149	124	106	91	79
-20		656	476	370	299	249	212	183	159
-30		994	719	558	451	375	319	275	240
-40		1340	965	748	604	502	427	368	321
-50			1215	940	759	631	535	461	402
-60			1468	1134	916	761	644	554	483
-70			1725	1330	1073	890	753	648	565
-80			1986	1528	1231	1020	863	743	647
-90				1728	1389	1151	974	838	730
-100				1931	1547	1282	1086	934	813
-110				2136	1707	1414	1198	1030	896
-120				2343	1869	1548	1311	1127	980
-130					2034	1684	1425	1224	1064
-140					2202	1821	1539	1322	1149
-150					2372	1958	1654	1420	1234
-160					2543	2096	1770	1519	1320
-170					2715	2236	1886	1618	1406
-180					2888	2377	2003	1718	1492
-190						2519	2121	1818	1579
-200						2662	2240	1919	1666
-220						2951	2479	2123	1841
-240						3243	2721	2329	2018
-260							2967	2538	2198
-280							3216	2749	2379
-300							3468	2963	2562
-320							3723	3179	2748
-340							3981	3397	2935
-360								3617	3123
-380								3840	3313
-400								4065	3506
-420								4293	3701
-440									3898
-460									4096
-480									4297
-500									4500

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FUZE, B.D., MK.X

PART 2b-2 TABLE B

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
5500	6000	6500	7000	7500	8000	8500	9000	Feet
70	62	55	50	45	41	37	34	-10
140	124	111	100	90	82	75	68	-20
211	186	166	150	136	123	112	102	-30
282	249	222	200	181	164	149	136	-40
353	312	278	250	226	205	186	170	-50
424	375	334	300	271	246	224	204	-60
496	439	391	351	317	287	261	238	-70
569	503	448	402	363	329	299	273	-80
641	567	505	453	409	370	336	307	-90
714	631	562	504	455	412	374	341	-100
787	696	619	555	501	454	412	376	-110
860	761	677	607	548	496	450	410	-120
934	826	735	659	594	538	488	445	-130
1008	891	793	711	641	580	526	479	-140
1083	957	851	763	688	622	564	514	-150
1158	1023	910	815	735	665	603	549	-160
1233	1089	969	868	782	707	641	584	-170
1308	1156	1028	920	829	750	680	619	-180
1384	1222	1087	973	877	793	719	654	-190
1460	1289	1146	1026	924	836	758	689	-200
1613	1424	1266	1133	1020	922	836	760	-220
1767	1560	1387	1241	1116	1008	914	831	-240
1923	1697	1508	1349	1213	1095	993	903	-260
2080	1835	1630	1457	1310	1183	1073	975	-280
2239	1974	1753	1567	1408	1271	1152	1047	-300
2400	2114	1877	1678	1507	1360	1232	1119	-320
2562	2256	2002	1789	1607	1450	1312	1191	-340
2725	2399	2128	1901	1708	1540	1393	1264	-360
2890	2543	2255	2014	1808	1630	1474	1337	-380
3056	2688	2383	2127	1909	1721	1556	1411	-400
3224	2834	2512	2241	2011	1812	1638	1485	-420
3393	2982	2642	2356	2113	1904	1721	1560	-440
3564	3131	2773	2472	2216	1996	1804	1636	-460
3736	3281	2904	2588	2320	2089	1888	1712	-480
3909	3431	3036	2705	2424	2182	1972	1788	-500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 25-2 TABLE B

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Height of Target Feet	Map Range - Yards							
	9500	10000	10500	11000	11500	12000	12500	13000
-10	31	28	26	24	22	21	19	18
-20	62	57	52	48	45	41	38	35
-30	93	85	79	73	67	62	57	53
-40	124	114	105	97	89	82	76	71
-50	155	142	131	121	112	103	95	88
-60	186	171	157	145	134	124	115	106
-70	218	200	184	169	156	144	134	124
-80	249	228	210	194	179	165	153	142
-90	281	257	236	218	201	186	172	160
-100	312	286	263	242	223	206	191	177
-110	344	315	289	266	245	227	210	195
-120	375	344	316	291	268	248	230	213
-130	407	373	343	315	290	268	249	231
-140	438	402	369	340	313	289	268	249
-150	470	431	396	364	335	310	288	267
-160	502	460	423	389	358	331	307	285
-170	534	489	449	413	381	352	327	303
-180	565	518	476	438	404	374	346	321
-190	597	547	502	462	427	395	366	339
-200	629	576	529	487	450	416	385	357
-220	693	635	583	537	496	458	424	393
-240	758	694	637	586	541	501	464	430
-260	823	753	691	636	587	543	503	466
-280	888	812	745	686	633	586	543	503
-300	954	872	800	736	679	628	582	539
-320	1019	932	855	786	725	671	622	576
-340	1085	992	910	837	771	713	661	613
-360	1151	1052	965	887	818	756	701	650
-380	1217	1112	1020	938	865	799	740	686
-400	1284	1173	1075	988	911	842	780	723
-420	1352	1235	1131	1039	958	885	820	760
-440	1420	1296	1187	1090	1005	929	860	797
-460	1488	1357	1243	1142	1052	972	901	835
-480	1556	1419	1299	1193	1099	1016	941	872
-500	1625	1481	1355	1244	1146	1059	981	909

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FUZE, B.D., MK.X

PART 2b-2 TABLE B

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - N.V. 2750 f/s

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
13500	14000	14500	15000	15500	16000	16500	17000	Feet
16	15	14	13	12	11	11	10	-10
33	30	28	26	24	23	21	20	-20
49	46	42	39	37	34	32	30	-30
66	61	56	52	49	46	42	39	-40
82	76	70	65	61	57	53	49	-50
98	91	84	78	73	68	64	59	-60
115	106	98	91	85	80	74	69	-70
131	122	113	105	98	91	85	79	-80
148	137	127	118	110	103	96	89	-90
164	152	141	131	122	114	106	99	-100
182	168	155	144	134	125	117	109	-110
197	183	170	158	147	137	128	119	-120
214	198	184	171	159	148	138	129	-130
231	214	199	185	172	160	149	139	-140
247	229	213	198	184	171	159	149	-150
264	245	227	211	196	182	170	159	-160
281	261	242	225	209	194	181	169	-170
298	276	256	238	221	206	192	179	-180
315	292	271	252	234	217	202	189	-190
331	307	285	265	246	229	213	199	-200
364	338	314	292	272	252	235	219	-220
398	369	343	319	296	275	256	239	-240
432	401	372	345	320	298	278	259	-260
466	432	401	372	345	321	299	279	-280
500	464	430	399	370	344	320	299	-300
534	495	459	426	395	367	342	319	-320
568	526	488	453	420	390	363	339	-340
602	558	517	480	445	413	385	360	-360
636	589	546	506	470	437	407	380	-380
670	621	575	533	495	460	428	400	-400
704	652	604	560	520	483	450	421	-420
739	684	633	587	545	507	472	441	-440
773	716	663	615	571	531	495	462	-460
808	748	693	642	596	554	517	483	-480
842	780	722	669	621	578	539	503	-500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE – M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE B

TARGET BELOW GUN – RANGE EFFECTS IN YARDS

Height of Target	Map Range – Yards							
Feet	17500	18000	18500	19000	19500	20000	20500	21000
-10	9	9	8	8	7	7	6	6
-20	18	17	16	15	14	14	13	12
-30	28	26	25	23	22	20	19	18
-40	37	35	33	31	29	27	26	24
-50	46	43	41	38	36	34	32	30
-60	55	52	49	46	43	41	38	36
-70	65	61	57	54	51	48	45	42
-80	74	69	65	61	58	54	51	48
-90	83	78	74	69	65	61	58	54
-100	93	87	82	77	72	68	64	60
-110	102	96	90	85	80	75	70	66
-120	111	104	98	92	87	82	77	72
-130	121	113	106	100	94	88	83	78
-140	130	122	114	107	101	95	90	84
-150	139	130	122	115	108	102	96	90
-160	149	139	130	122	115	109	102	96
-170	158	148	139	130	122	115	109	102
-180	167	157	147	138	130	122	115	108
-190	177	166	155	145	137	129	121	114
-200	186	174	163	153	144	136	128	120
-220	205	192	180	169	159	150	141	133
-240	223	209	196	184	173	163	154	145
-260	242	227	213	200	188	177	167	157
-280	261	244	229	215	202	190	179	169
-300	280	262	246	231	217	204	192	181
-320	299	280	263	247	232	218	205	193
-340	318	298	279	262	246	231	217	204
-360	337	316	296	278	261	245	230	216
-380	356	333	312	293	275	258	243	229
-400	375	351	329	308	289	272	256	241
-420	394	369	346	324	304	286	269	253
-440	413	387	362	339	318	299	282	266
-460	432	404	379	355	333	313	295	278
-480	451	422	395	370	347	326	307	290
-500	470	440	412	386	362	340	320	302

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FUZE, B.D., MK.X

PART 2b-2 TABLE B

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
21500	22000	22500	23000	23500	24000	24500	25000	Feet
6	5	5	5	4	4	4	4	-10
11	11	10	10	9	8	8	8	-20
17	16	15	14	13	13	12	11	-30
23	22	20	19	18	17	16	15	-40
28	27	25	24	22	21	20	19	-50
34	32	30	29	27	25	24	23	-60
40	38	36	34	32	30	28	27	-70
45	43	41	38	36	34	33	31	-80
51	49	46	43	41	39	37	35	-90
57	54	51	48	45	43	41	39	-100
63	59	56	53	50	47	45	43	-110
68	65	61	58	54	51	49	47	-120
74	70	66	62	59	56	53	50	-130
79	75	71	67	63	60	57	54	-140
85	81	76	72	68	64	61	58	-150
91	86	81	77	73	69	65	62	-160
96	91	86	82	77	73	69	66	-170
102	97	91	86	82	78	74	70	-180
108	102	96	91	86	82	78	74	-190
113	107	101	96	91	86	82	78	-200
125	118	112	106	100	95	90	86	-220
137	129	122	115	109	103	98	94	-240
148	140	132	125	118	112	107	102	-260
159	150	142	134	127	121	115	109	-280
171	161	152	144	136	129	123	117	-300
182	172	162	153	145	138	131	125	-320
193	183	173	163	154	146	139	133	-340
204	193	183	173	164	155	147	140	-360
216	204	193	183	173	164	156	148	-380
227	215	204	193	182	172	164	156	-400
239	226	214	202	191	181	172	164	-420
251	237	224	212	200	190	181	172	-440
263	249	235	222	210	199	189	180	-460
274	260	246	232	219	208	198	188	-480
285	270	256	242	229	217	206	196	-500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.F., 260 LB., MK.XVIII
SUPERCHARGE - N.V. 2750 f/s

FUZE, B.D., MK.X
PART 2b-2 TABLE B

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Height of Target Feet	Map Range - Yards							
	25500	26000	26500	27000	27500	28000	28500	29000
-10	4	4	3	3	3	3	3	3
-20	7	7	7	6	6	6	6	5
-30	11	11	10	10	9	8	8	8
-40	14	14	14	13	12	11	11	10
-50	18	18	17	16	15	14	14	13
-60	22	21	20	19	18	17	17	16
-70	26	25	24	22	21	20	20	19
-80	30	29	27	26	25	23	22	21
-90	33	32	31	29	28	26	25	24
-100	37	36	34	32	31	29	28	27
-110	41	39	37	35	34	32	31	30
-120	45	43	41	39	37	35	34	32
-130	48	46	44	42	40	38	36	35
-140	52	50	48	45	43	41	39	37
-150	55	53	51	48	46	44	42	40
-160	59	57	54	51	49	47	45	43
-170	63	60	58	55	52	50	48	46
-180	66	63	61	58	56	53	50	48
-190	70	67	65	62	59	56	53	51
-200	74	71	68	65	62	59	56	54
-220	82	78	75	72	68	65	62	59
-240	89	85	82	78	74	71	68	65
-260	97	93	89	85	81	77	73	70
-280	104	100	95	91	87	83	79	76
-300	112	107	102	98	93	89	85	81
-320	119	114	109	105	100	95	91	86
-340	127	121	116	111	106	101	96	92
-360	134	128	122	117	112	107	102	97
-380	141	135	129	124	119	113	108	103
-400	149	142	136	131	125	119	113	108
-420	156	149	143	137	131	125	119	114
-440	164	157	150	144	137	131	125	119
-460	172	164	157	150	144	137	131	125
-480	179	171	164	157	150	143	136	130
-500	187	178	170	163	156	149	142	136

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FUZE, B.D., MK.X

PART 2b-2 TABLE B

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET BELOW GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
29500	30000	30500	31000	31500	32000	32500	33000	Feet
3	2	2	2	2	2	2		-10
5	5	4	4	4	4	4		-20
8	7	7	7	6	6	5		-30
10	10	9	9	8	8	7		-40
13	12	11	11	10	10	9		-50
16	15	14	13	12	12	11		-60
18	17	16	15	14	14	13		-70
21	20	19	18	17	16	14		-80
23	22	21	20	19	18	16		-90
26	25	23	22	21	20	18	17	-100
28	27	25	24	23	22	20	19	-110
31	30	28	26	25	24	22	20	-120
33	32	30	29	27	25	23	22	-130
36	35	33	31	29	27	25	23	-140
38	37	35	33	31	29	27	25	-150
41	39	37	35	33	31	29	27	-160
44	42	39	37	35	33	31	29	-170
46	44	42	40	38	35	32	30	-180
49	47	44	42	40	37	34	32	-190
51	49	46	44	42	39	36	34	-200
56	54	51	49	46	43	40	37	-220
62	59	56	53	50	47	44	41	-240
67	64	61	58	55	51	47	44	-260
72	69	65	62	59	55	51	48	-280
77	74	70	67	63	59	55	51	-300
82	79	75	71	67	63	59	54	-320
88	84	80	75	72	67	62	58	-340
93	89	84	80	76	72	66	61	-360
98	94	89	85	80	75	70	65	-380
103	99	94	90	85	79	73	68	-400
109	104	99	94	89	83	77	71	-420
114	109	104	99	93	87	81	75	-440
119	114	108	103	97	91	84	78	-460
125	119	113	108	102	95	88	82	-480
130	124	118	112	106	99	92	85	-500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE C

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Height of Target Feet	Map Range - Yards								
	1000	1500	2000	2500	3000	3500	4000	4500	5000
10	-490	-320	-233	-182	-148	-123	-105	-91	-79
20	-967	-634	-464	-362	-295	-246	-209	-181	-158
30		-942	-692	-541	-441	-368	-313	-270	-236
40		-1245	-917	-718	-585	-489	-416	-359	-314
50			-1139	-892	-728	-609	-518	-448	-392
60			-1359	-1065	-870	-728	-620	-536	-469
70			-1576	-1236	-1010	-846	-721	-624	-546
80			-1792	-1406	-1149	-963	-822	-711	-622
90				-1574	-1287	-1079	-922	-798	-698
100				-1741	-1424	-1195	-1021	-884	-774
110				-1907	-1559	-1310	-1120	-970	-849
120				-2071	-1694	-1424	-1218	-1055	-924
130				-2234	-1828	-1537	-1315	-1140	-999
140				-2395	-1961	-1649	-1412	-1225	-1073
150					-2093	-1760	-1508	-1309	-1147
160					-2224	-1871	-1604	-1392	-1220
170					-2354	-1981	-1699	-1475	-1293
180					-2483	-2090	-1793	-1558	-1366
190					-2612	-2199	-1887	-1640	-1438
200					-2740	-2308	-1980	-1721	-1510
220					-2995	-2523	-2165	-1883	-1653
240						-2734	-2347	-2043	-1795
260						-2941	-2527	-2202	-1935
280						-3145	-2706	-2359	-2074
300						-3347	-2882	-2514	-2212
320							-3056	-2668	-2348
340							-3228	-2820	-2483
360							-3398	-2971	-2617
380							-3566	-3120	-2749
400							-3733	-3267	-2880
420							-3899	-3413	-3010
440								-3558	-3139
460								-3702	-3267
480								-3844	-3394
500								-3984	-3520

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FUZE, B.D., MK.X

PART 25-2 TABLE C

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
5500	6000	6500	7000	7500	8000	8500	9000	Feet
-70	-62	-55	-50	-45	-41	-37	-34	10
-139	-123	-110	-99	-90	-81	-73	-67	20
-208	-185	-165	-148	-134	-121	-110	-101	30
-277	-246	-220	-198	-179	-162	-147	-134	40
-346	-306	-274	-247	-223	-202	-184	-168	50
-413	-367	-328	-295	-267	-242	-220	-201	60
-481	-427	-382	-344	-311	-282	-257	-234	70
-549	-487	-436	-393	-355	-322	-293	-267	80
-616	-547	-490	-441	-399	-362	-329	-300	90
-683	-607	-543	-489	-442	-401	-365	-333	100
-749	-666	-596	-537	-486	-441	-401	-366	110
-816	-725	-649	-585	-529	-480	-437	-399	120
-882	-784	-702	-632	-572	-519	-472	-431	130
-948	-843	-755	-680	-615	-558	-508	-463	140
-1013	-901	-807	-727	-658	-598	-544	-496	150
-1078	-959	-859	-774	-701	-637	-580	-529	160
-1143	-1017	-911	-821	-744	-676	-615	-561	170
-1207	-1074	-963	-868	-786	-715	-651	-594	180
-1271	-1132	-1015	-915	-829	-753	-686	-626	190
-1335	-1189	-1066	-962	-872	-792	-721	-658	200
-1462	-1302	-1168	-1055	-957	-869	-791	-722	220
-1588	-1415	-1270	-1147	-1041	-946	-861	-786	240
-1713	-1527	-1371	-1239	-1124	-1022	-931	-850	260
-1837	-1638	-1472	-1330	-1207	-1097	-1000	-914	280
-1960	-1749	-1572	-1421	-1290	-1173	-1069	-977	300
-2082	-1859	-1671	-1511	-1372	-1248	-1138	-1040	320
-2203	-1968	-1770	-1601	-1454	-1323	-1206	-1102	340
-2322	-2076	-1869	-1691	-1535	-1397	-1274	-1165	360
-2441	-2184	-1967	-1780	-1616	-1471	-1342	-1227	380
-2559	-2291	-2064	-1868	-1696	-1544	-1409	-1289	400
-2676	-2397	-2161	-1956	-1776	-1617	-1476	-1351	420
-2792	-2502	-2256	-2043	-1855	-1689	-1542	-1412	440
-2906	-2605	-2350	-2129	-1934	-1761	-1608	-1473	460
-3020	-2708	-2444	-2215	-2013	-1833	-1674	-1534	480
-3133	-2810	-2537	-2301	-2091	-1904	-1739	-1594	500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE C

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Height of Target	Map Range - Yards							
Feet	9500	10000	10500	11000	11500	12000	12500	13000
10	-31	-28	-26	-24	-22	-20	-19	-18
20	-62	-57	-52	-48	-44	-41	-38	-35
30	-93	-85	-78	-72	-67	-62	-57	-53
40	-123	-113	-104	-96	-89	-82	-76	-71
50	-154	-141	-130	-120	-110	-102	-95	-88
60	-184	-169	-155	-143	-132	-122	-114	-106
70	-214	-197	-181	-167	-154	-143	-133	-123
80	-245	-225	-207	-191	-176	-163	-151	-140
90	-275	-252	-232	-214	-198	-184	-170	-157
100	-305	-280	-258	-238	-220	-204	-189	-175
110	-335	-308	-283	-261	-242	-224	-208	-193
120	-365	-335	-308	-285	-264	-244	-226	-210
130	-395	-363	-334	-308	-285	-264	-245	-227
140	-424	-390	-359	-332	-307	-285	-264	-244
150	-454	-417	-384	-355	-329	-305	-282	-261
160	-484	-444	-409	-378	-350	-324	-300	-278
170	-514	-472	-434	-401	-371	-344	-318	-295
180	-543	-499	-460	-425	-393	-364	-337	-313
190	-573	-526	-485	-448	-415	-384	-356	-330
200	-603	-554	-510	-471	-436	-404	-374	-347
220	-662	-608	-560	-517	-479	-444	-411	-381
240	-720	-662	-610	-563	-521	-483	-448	-415
260	-779	-716	-660	-610	-564	-522	-484	-449
280	-838	-770	-710	-656	-607	-562	-521	-483
300	-896	-824	-759	-701	-649	-602	-558	-518
320	-954	-877	-808	-746	-691	-641	-595	-552
340	-1011	-930	-857	-792	-733	-680	-631	-586
360	-1069	-983	-906	-837	-775	-719	-667	-619
380	-1126	-1036	-955	-882	-817	-758	-703	-653
400	-1183	-1088	-1003	-927	-859	-797	-740	-687
420	-1240	-1140	-1051	-972	-901	-836	-776	-720
440	-1296	-1192	-1099	-1016	-942	-874	-812	-754
460	-1353	-1245	-1148	-1061	-983	-913	-848	-788
480	-1409	-1297	-1196	-1105	-1024	-951	-884	-821
500	-1465	-1348	-1242	-1148	-1065	-990	-920	-855

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FUZE, B.D., MK.X

PART 2b-2 TABLE C

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
13500	14000	14500	15000	15500	16000	16500	17000	Feet
-16	-15	-14	-13	-12	-11	-11	-10	10
-33	-30	-28	-26	-24	-23	-21	-20	20
-49	-46	-42	-39	-37	-34	-32	-30	30
-66	-61	-56	-52	-49	-46	-42	-39	40
-82	-76	-70	-65	-61	-57	-53	-49	50
-98	-91	-84	-78	-73	-68	-63	-59	60
-114	-106	-98	-91	-85	-79	-74	-69	70
-130	-121	-112	-104	-97	-91	-85	-79	80
-146	-136	-126	-117	-109	-102	-95	-89	90
-162	-151	-140	-130	-121	-113	-105	-98	100
-179	-166	-154	-143	-133	-124	-116	-108	110
-195	-181	-168	-156	-145	-135	-126	-118	120
-210	-195	-182	-169	-157	-146	-136	-127	130
-226	-210	-195	-181	-169	-158	-147	-137	140
-242	-225	-209	-194	-181	-169	-158	-147	150
-258	-240	-223	-207	-193	-180	-168	-157	160
-274	-255	-237	-220	-205	-191	-179	-167	170
-290	-269	-250	-233	-217	-203	-190	-177	180
-306	-284	-264	-246	-229	-214	-200	-186	190
-322	-299	-278	-259	-241	-225	-210	-196	200
-354	-329	-306	-285	-265	-247	-231	-216	220
-385	-358	-333	-310	-289	-270	-252	-235	240
-417	-388	-361	-336	-313	-292	-272	-254	260
-449	-417	-388	-361	-336	-314	-293	-274	280
-481	-447	-416	-387	-360	-336	-314	-294	300
-512	-476	-443	-412	-384	-358	-335	-313	320
-544	-505	-470	-438	-408	-381	-356	-333	340
-575	-535	-498	-464	-432	-403	-376	-352	360
-607	-564	-525	-489	-456	-425	-397	-372	380
-638	-593	-552	-514	-479	-447	-418	-391	400
-669	-622	-579	-539	-503	-469	-438	-410	420
-700	-651	-606	-564	-526	-491	-459	-429	440
-732	-680	-633	-590	-550	-513	-479	-448	460
-763	-709	-660	-615	-573	-535	-500	-468	480
-794	-738	-687	-640	-597	-557	-520	-487	500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - N.V. 2750 f/s

FUZE, B.D., MK.X
PART 2b-2 TABLE C

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Height of Target	Map Range - Yards							
Feet	17500	18000	18500	19000	19500	20000	20500	21000
10	-9	-9	-8	-8	-7	-7	-6	-6
20	-18	-17	-16	-15	-14	-14	-13	-12
30	-28	-26	-25	-23	-22	-20	-19	-18
40	-37	-35	-33	-31	-29	-27	-26	-24
50	-46	-43	-41	-38	-36	-34	-32	-30
60	-55	-52	-49	-46	-43	-41	-38	-36
70	-64	-60	-57	-53	-50	-47	-44	-42
80	-74	-69	-65	-61	-57	-54	-51	-48
90	-83	-78	-73	-68	-64	-60	-57	-54
100	-92	-86	-81	-76	-71	-67	-63	-60
110	-101	-95	-89	-83	-78	-74	-70	-66
120	-110	-103	-97	-91	-85	-80	-76	-72
130	-119	-112	-105	-99	-93	-87	-82	-78
140	-128	-120	-113	-106	-100	-94	-89	-84
150	-137	-128	-121	-114	-107	-101	-95	-90
160	-146	-137	-129	-121	-114	-107	-101	-96
170	-156	-146	-137	-129	-121	-114	-108	-102
180	-165	-155	-146	-137	-129	-121	-114	-108
190	-174	-163	-154	-145	-136	-128	-121	-114
200	-183	-172	-162	-152	-143	-135	-127	-120
220	-202	-189	-178	-167	-157	-148	-140	-132
240	-220	-206	-194	-183	-172	-162	-153	-144
260	-238	-223	-210	-198	-186	-175	-165	-156
280	-256	-240	-226	-213	-200	-188	-177	-167
300	-275	-258	-242	-228	-215	-202	-190	-179
320	-293	-275	-258	-243	-229	-216	-203	-191
340	-312	-292	-274	-258	-243	-229	-215	-203
360	-330	-309	-290	-273	-257	-242	-228	-215
380	-348	-326	-306	-288	-272	-256	-241	-227
400	-366	-343	-322	-303	-286	-269	-253	-239
420	-384	-360	-338	-318	-299	-282	-266	-251
440	-402	-377	-354	-333	-313	-295	-278	-262
460	-420	-394	-370	-348	-328	-309	-291	-274
480	-438	-411	-386	-363	-342	-322	-303	-286
500	-456	-428	-402	-378	-356	-335	-316	-298

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FUZE, B.D., MK.X

PART 2b-2 TABLE C

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
21500	22000	22500	23000	23500	24000	24500	25000	Feet
-6	-5	-5	-5	-4	-4	-4	-4	10
-11	-11	-10	-10	-9	-8	-8	-8	20
-17	-16	-15	-14	-13	-13	-12	-11	30
-22	-21	-20	-19	-18	-17	-16	-15	40
-28	-27	-25	-24	-22	-21	-20	-19	50
-34	-32	-30	-29	-27	-25	-24	-23	60
-40	-38	-36	-34	-32	-30	-28	-27	70
-45	-43	-41	-38	-36	-34	-33	-31	80
-51	-49	-46	-43	-41	-39	-37	-35	90
-57	-54	-51	-48	-45	-43	-41	-39	100
-63	-59	-56	-53	-50	-47	-45	-43	110
-68	-65	-61	-58	-54	-51	-49	-47	120
-74	-70	-66	-62	-59	-56	-53	-50	130
-79	-75	-71	-67	-63	-60	-57	-54	140
-85	-81	-76	-72	-68	-64	-61	-58	150
-91	-86	-81	-77	-73	-69	-65	-62	160
-96	-91	-86	-82	-77	-73	-69	-66	170
-102	-97	-91	-86	-82	-78	-74	-70	180
-108	-102	-96	-91	-86	-82	-78	-74	190
-113	-107	-101	-96	-91	-86	-82	-78	200
-125	-118	-111	-105	-100	-95	-90	-86	220
-136	-128	-121	-115	-109	-103	-98	-94	240
-147	-139	-131	-124	-118	-112	-107	-101	260
-158	-149	-141	-134	-127	-121	-115	-109	280
-169	-160	-151	-143	-136	-129	-123	-117	300
-180	-170	-161	-153	-145	-138	-131	-125	320
-192	-181	-171	-162	-154	-146	-139	-133	340
-203	-192	-182	-172	-163	-155	-147	-140	360
-215	-203	-192	-182	-172	-163	-155	-148	380
-226	-213	-202	-191	-181	-172	-164	-156	400
-237	-224	-212	-200	-190	-181	-172	-163	420
-248	-235	-222	-210	-199	-189	-180	-171	440
-259	-245	-232	-219	-208	-198	-188	-179	460
-270	-255	-242	-229	-217	-206	-196	-187	480
-281	-266	-252	-238	-225	-214	-204	-194	500

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, S.D., MK.X
PART 2b-2 TABLE C

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Height of Target Feet	Map Range - Yards							
	25500	26000	26500	27000	27500	28000	28500	29000
10	-4	-4	-3	-3	-3	-3	-3	-3
20	-7	-7	-7	-6	-6	-6	-6	-5
30	-11	-11	-10	-10	-9	-8	-8	-8
40	-14	-14	-14	-13	-12	-11	-11	-10
50	-18	-18	-17	-16	-15	-14	-14	-13
60	-22	-21	-20	-19	-18	-17	-17	-16
70	-26	-25	-24	-22	-21	-20	-20	-19
80	-29	-28	-27	-26	-25	-23	-22	-21
90	-33	-32	-31	-29	-28	-26	-25	-24
100	-37	-36	-34	-32	-31	-29	-28	-27
110	-41	-39	-37	-35	-34	-32	-31	-30
120	-45	-43	-41	-39	-37	-35	-34	-32
130	-48	-46	-44	-42	-40	-38	-36	-35
140	-52	-50	-48	-45	-43	-41	-39	-37
150	-55	-53	-51	-48	-46	-44	-42	-40
160	-59	-57	-54	-51	-49	-47	-45	-43
170	-63	-60	-58	-55	-52	-50	-48	-46
180	-67	-64	-61	-58	-56	-53	-50	-48
190	-70	-67	-65	-62	-59	-56	-53	-51
200	-74	-71	-68	-65	-62	-59	-56	-54
220	-82	-78	-75	-71	-68	-65	-62	-59
240	-89	-85	-81	-78	-74	-71	-68	-65
260	-96	-92	-88	-84	-80	-75	-73	-70
280	-104	-99	-94	-90	-86	-82	-78	-75
300	-111	-106	-101	-97	-92	-88	-84	-81
320	-119	-113	-108	-103	-98	-94	-90	-86
340	-126	-120	-115	-110	-105	-100	-96	-92
360	-133	-127	-121	-116	-111	-106	-101	-97
380	-141	-134	-128	-123	-117	-112	-107	-103
400	-148	-141	-135	-129	-123	-118	-113	-108
420	-155	-148	-142	-135	-129	-124	-119	-113
440	-163	-156	-149	-142	-136	-130	-124	-119
460	-171	-163	-155	-148	-142	-136	-130	-124
480	-178	-170	-162	-155	-148	-141	-135	-130
500	-186	-177	-169	-161	-154	-147	-141	-135

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FUZE, B.D., MK.X

PART 2b-2 TABLE C

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

TARGET ABOVE GUN - RANGE EFFECTS IN YARDS

Map Range - Yards								Height of Target
29500	30000	30500	31000	31500	32000	32500	32930	Feet
-3	-2	-2	-2	-2	-2	-2	-2	10
-5	-5	-4	-4	-4	-4	-4	-4	20
-8	-7	-7	-7	-6	-6	-5	-5	30
-10	-10	-9	-9	-8	-8	-7	-7	40
-13	-12	-11	-11	-10	-10	-9	-9	50
-16	-15	-14	-13	-12	-12	-11	-11	60
-18	-17	-16	-15	-14	-14	-13	-12	70
-21	-20	-19	-18	-17	-16	-15	-14	80
-23	-22	-21	-20	-19	-18	-16	-15	90
-26	-25	-23	-22	-21	-20	-18	-17	100
-28	-27	-25	-24	-23	-22	-20	-19	110
-31	-30	-28	-26	-25	-24	-22	-21	120
-33	-32	-30	-29	-27	-25	-23	-22	130
-36	-35	-33	-31	-29	-27	-25	-24	140
-38	-37	-35	-33	-31	-29	-27	-26	150
-41	-39	-37	-35	-33	-31	-29	-28	160
-44	-42	-39	-37	-35	-33	-31	-29	170
-46	-44	-42	-40	-38	-35	-33	-31	180
-49	-47	-44	-42	-40	-37	-34	-32	190
-51	-49	-46	-44	-42	-39	-36	-34	200
-56	-54	-51	-49	-46	-43	-40	-37	220
-62	-59	-56	-53	-50	-47	-43	-40	240
-67	-64	-61	-58	-55	-51	-47	-44	260
-72	-69	-65	-62	-59	-55	-51	-47	280
-77	-74	-70	-67	-63	-59	-54	-50	300
-82	-79	-75	-71	-67	-63	-58	-53	320
-88	-84	-80	-76	-72	-67	-62	-56	340
-93	-89	-84	-80	-76	-71	-65	-60	360
-98	-94	-89	-85	-80	-75	-69	-63	380
-103	-99	-94	-90	-85	-79	-73	-66	400
-108	-104	-99	-94	-89	-83	-76	-69	420
-114	-109	-104	-99	-93	-87	-80	-72	440
-119	-114	-108	-103	-97	-91	-84	-76	460
-124	-119	-113	-108	-102	-95	-87	-79	480
-129	-124	-118	-112	-106	-99	-91	-82	500

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FUZE, B.D., MK.X
PART 2b-2 TABLE D

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

WEIGHT OF PROJECTILE
EFFECTS IN YARDS OF RANGE DUE TO VARIATIONS IN

Range	Variation in Weight of Projectile - Per Cent										
Yards	-5	-4	-3	-2	-1	0	+1	+2	+3	+4	+5
1000	+25	+20	+15	+10	+5	0	-5	-11	-17	-23	-29
2000	+47	+38	+29	+19	+10	0	-10	-21	-32	-43	-54
3000	+65	+53	+40	+27	+14	0	-14	-29	-44	-59	-75
4000	+80	+65	+49	+33	+17	0	-17	-35	-54	-73	-92
5000	+92	+75	+57	+38	+19	0	-20	-40	-61	-83	-104
6000	+100	+81	+62	+41	+21	0	-21	-43	-66	-89	-112
7000	+104	+84	+64	+43	+22	0	-22	-45	-68	-92	-116
8000	+103	+83	+63	+43	+22	0	-22	-45	-68	-92	-116
9000	+98	+79	+60	+41	+21	0	-21	-43	-65	-88	-111
10000	+89	+72	+55	+37	+19	0	-19	-39	-60	-81	-102
11000	+75	+61	+47	+32	+16	0	-17	-34	-52	-71	-90
12000	+57	+47	+36	+25	+13	0	-14	-28	-43	-59	-75
13000	+36	+31	+24	+17	+9	0	-10	-20	-32	-44	-57
14000	+13	+13	+11	+8	+5	0	-6	-12	-19	-28	-37
15000	-12	-7	-4	-2	0	0	-1	-3	-6	-10	-15
16000	-39	-29	-20	-12	-5	0	+4	+7	+8	+9	+8
17000	-67	-51	-36	-23	-11	0	+9	+17	+23	+29	+32
18000	-95	-73	-52	-33	-16	0	+14	+27	+39	+49	+57
19000	-122	-94	-68	-44	-21	0	+20	+38	+54	+69	+82
20000	-148	-115	-84	-54	-26	0	+25	+48	+69	+89	+107
21000	-173	-135	-99	-64	-31	0	+30	+58	+84	+109	+132
22000	-197	-154	-113	-74	-36	0	+35	+68	+99	+128	+156
23000	-219	-172	-127	-83	-41	0	+39	+77	+112	+146	+179
24000	-239	-188	-139	-91	-45	0	+43	+85	+125	+163	+200
25000	-257	-203	-150	-98	-48	0	+47	+92	+136	+178	+219
26000	-273	-215	-159	-105	-52	0	+50	+99	+146	+192	+236
27000	-286	-226	-167	-110	-55	0	+53	+105	+155	+204	+251
28000	-296	-234	-174	-115	-57	0	+55	+109	+162	+214	+264
29000	-302	-239	-178	-118	-58	0	+57	+113	+168	+222	+274
30000	-304	-241	-180	-119	-59	0	+58	+115	+171	+227	+281
31000	-299	-238	-177	-117	-58	0	+58	+115	+171	+227	+282
32000	-279	-223	-167	-111	-55	0	+55	+109	+163	+217	+270
33000	-215	-173	-131	-88	-45	0	+45	+91	+138	+186	+234
33200							+40	+81	+122	+164	+207

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X
PART 2b-2 TABLE E

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 0°

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+3-	+6-	+8-	+10-	+11-	+12-
2000	0	+6-	+11-	+15-	+19-	+21-	+22-
3000	0	+9-	+16-	+22-	+27-	+30-	+32-
4000	0	+11-	+21-	+29-	+35-	+39-	+41-
5000	0	+13-	+25-	+35-	+42-	+47-	+49-
6000	0	+15-	+29-	+40-	+49-	+55-	+57-
7000	0	+17-	+32-	+45-	+55-	+62-	+64-
8000	0	+18-	+35-	+50-	+61-	+68-	+70-
9000	0	+20-	+38-	+54-	+66-	+73-	+76-
10000	0	+21-	+40-	+57-	+70-	+78-	+81-
11000	0	+22-	+42-	+59-	+73-	+82-	+85-
12000	0	+23-	+44-	+62-	+76-	+85-	+88-
13000	0	+23-	+45-	+64-	+78-	+87-	+90-
14000	0	+24-	+46-	+65-	+80-	+89-	+92-
15000	0	+25-	+47-	+66-	+81-	+91-	+94-
16000	0	+25-	+48-	+67-	+82-	+92-	+95-
17000	0	+25-	+48-	+68-	+83-	+93-	+96-
18000	0	+25-	+48-	+68-	+84-	+94-	+97-
19000	0	+25-	+49-	+69-	+84-	+94-	+97-
20000	0	+26-	+49-	+69-	+84-	+94-	+98-
21000	0	+26-	+49-	+69-	+85-	+95-	+98-
22000	0	+26-	+50-	+70-	+85-	+95-	+99-
23000	0	+26-	+50-	+70-	+86-	+96-	+99-
24000	0	+26-	+50-	+71-	+87-	+97-	+100-
25000	0	+26-	+50-	+71-	+87-	+97-	+101-
26000	0	+27-	+51-	+72-	+88-	+98-	+101-
27000	0	+27-	+51-	+72-	+88-	+98-	+101-
28000	0	+27-	+51-	+72-	+88-	+98-	+101-
29000	0	+26-	+50-	+71-	+87-	+97-	+101-
30000	0	+25-	+49-	+70-	+86-	+96-	+100-
31000	0	+25-	+48-	+68-	+84-	+94-	+97-
32000	0	+24-	+46-	+65-	+80-	+89-	+92-
32980	0	+17-	+33-	+46-	+56-	+62-	+65-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X
PART 2b-2 TABLE E

SHELL, A.P., 250 LB., MK.XX
SHELL, T.P., 250 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 10° (North or South)

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+3-	+6-	+8-	+10-	+11-	+11-
2000	0	+6-	+11-	+15-	+19-	+21-	+21-
3000	0	+9-	+16-	+22-	+27-	+30-	+31-
4000	0	+11-	+20-	+28-	+35-	+39-	+40-
5000	0	+13-	+24-	+34-	+42-	+47-	+48-
6000	0	+15-	+28-	+40-	+49-	+54-	+56-
7000	0	+17-	+32-	+45-	+55-	+61-	+63-
8000	0	+18-	+35-	+49-	+60-	+67-	+69-
9000	0	+19-	+37-	+52-	+64-	+72-	+74-
10000	0	+21-	+40-	+56-	+68-	+76-	+79-
11000	0	+22-	+42-	+59-	+72-	+80-	+83-
12000	0	+22-	+43-	+61-	+75-	+83-	+86-
13000	0	+23-	+44-	+63-	+77-	+86-	+89-
14000	0	+23-	+45-	+64-	+79-	+88-	+91-
15000	0	+24-	+46-	+65-	+80-	+89-	+92-
16000	0	+24-	+47-	+66-	+81-	+90-	+93-
17000	0	+24-	+47-	+67-	+82-	+91-	+94-
18000	0	+25-	+48-	+67-	+82-	+92-	+95-
19000	0	+25-	+48-	+68-	+83-	+92-	+96-
20000	0	+25-	+48-	+68-	+83-	+93-	+96-
21000	0	+25-	+48-	+68-	+84-	+94-	+97-
22000	0	+26-	+49-	+69-	+84-	+94-	+97-
23000	0	+26-	+49-	+69-	+85-	+95-	+98-
24000	0	+26-	+50-	+70-	+86-	+95-	+99-
25000	0	+26-	+50-	+70-	+86-	+96-	+99-
26000	0	+26-	+50-	+70-	+86-	+96-	+100-
27000	0	+26-	+50-	+71-	+87-	+97-	+100-
28000	0	+26-	+50-	+71-	+87-	+97-	+100-
29000	0	+26-	+50-	+70-	+86-	+96-	+99-
30000	0	+26-	+49-	+69-	+85-	+95-	+98-
31000	0	+25-	+48-	+68-	+83-	+92-	+96-
32000	0	+24-	+46-	+65-	+79-	+88-	+91-
32980	0	+17-	+32-	+45-	+55-	+61-	+62-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - K.V. 2750 f/s

FUZE, S.D., MK.X

PART 2b-2 TABLE I

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 20° (North or South)

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+3-	+5-	+7-	+9-	+10-	+11-
2000	0	+5-	+10-	+14-	+18-	+20-	+21-
3000	0	+8-	+15-	+21-	+26-	+29-	+30-
4000	0	+10-	+19-	+27-	+33-	+37-	+38-
5000	0	+12-	+23-	+33-	+40-	+44-	+46-
6000	0	+14-	+27-	+38-	+46-	+51-	+53-
7000	0	+16-	+30-	+42-	+52-	+58-	+60-
8000	0	+17-	+33-	+47-	+57-	+64-	+66-
9000	0	+19-	+36-	+51-	+62-	+69-	+71-
10000	0	+20-	+38-	+54-	+66-	+73-	+75-
11000	0	+21-	+40-	+56-	+69-	+77-	+79-
12000	0	+21-	+41-	+58-	+71-	+80-	+82-
13000	0	+22-	+42-	+59-	+73-	+82-	+85-
14000	0	+22-	+43-	+61-	+75-	+84-	+87-
15000	0	+23-	+44-	+62-	+76-	+85-	+88-
16000	0	+23-	+45-	+63-	+77-	+86-	+89-
17000	0	+23-	+45-	+64-	+78-	+87-	+90-
18000	0	+23-	+45-	+64-	+79-	+88-	+91-
19000	0	+24-	+46-	+65-	+79-	+88-	+91-
20000	0	+24-	+46-	+65-	+80-	+89-	+92-
21000	0	+24-	+46-	+65-	+80-	+89-	+92-
22000	0	+24-	+46-	+65-	+80-	+90-	+93-
23000	0	+25-	+47-	+66-	+81-	+90-	+93-
24000	0	+25-	+47-	+66-	+81-	+91-	+94-
25000	0	+25-	+48-	+67-	+82-	+92-	+95-
26000	0	+25-	+48-	+67-	+82-	+92-	+95-
27000	0	+25-	+48-	+67-	+82-	+92-	+95-
28000	0	+25-	+48-	+67-	+82-	+92-	+95-
29000	0	+25-	+48-	+67-	+82-	+92-	+95-
30000	0	+25-	+47-	+66-	+81-	+91-	+94-
31000	0	+24-	+46-	+65-	+79-	+88-	+91-
32000	0	+23-	+44-	+62-	+76-	+84-	+87-
32980	0	+16-	+30-	+43-	+53-	+59-	+61-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X

PART 2b-2 TABLE E

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2790 f/s

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 30° (North or South)

Range Yards	Azimuth of Target - Degrees 0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+3-	+5-	+7-	+8-	+9-	+10-
2000	0	+5-	+9-	+13-	+16-	+18-	+19-
3000	0	+7-	+13-	+19-	+24-	+27-	+27-
4000	0	+9-	+17-	+25-	+31-	+35-	+35-
5000	0	+11-	+21-	+30-	+37-	+42-	+43-
6000	0	+13-	+25-	+35-	+43-	+48-	+50-
7000	0	+15-	+28-	+39-	+48-	+54-	+56-
8000	0	+16-	+32-	+43-	+53-	+59-	+61-
9000	0	+17-	+33-	+47-	+57-	+63-	+66-
10000	0	+18-	+35-	+49-	+60-	+67-	+70-
11000	0	+19-	+36-	+51-	+63-	+70-	+73-
12000	0	+20-	+38-	+53-	+65-	+72-	+76-
13000	0	+20-	+39-	+55-	+67-	+75-	+78-
14000	0	+21-	+40-	+56-	+69-	+77-	+80-
15000	0	+21-	+40-	+57-	+70-	+78-	+81-
16000	0	+21-	+41-	+58-	+71-	+79-	+82-
17000	0	+22-	+42-	+59-	+72-	+80-	+83-
18000	0	+22-	+42-	+59-	+72-	+81-	+84-
19000	0	+22-	+42-	+59-	+72-	+81-	+84-
20000	0	+22-	+42-	+60-	+73-	+82-	+84-
21000	0	+22-	+42-	+60-	+74-	+83-	+85-
22000	0	+22-	+42-	+60-	+74-	+83-	+85-
23000	0	+22-	+43-	+61-	+75-	+84-	+86-
24000	0	+22-	+43-	+61-	+75-	+84-	+87-
25000	0	+23-	+44-	+62-	+76-	+85-	+87-
26000	0	+23-	+44-	+62-	+76-	+85-	+88-
27000	0	+23-	+44-	+62-	+76-	+85-	+88-
28000	0	+23-	+44-	+62-	+76-	+85-	+88-
29000	0	+23-	+44-	+62-	+76-	+85-	+87-
30000	0	+22-	+43-	+61-	+75-	+84-	+86-
31000	0	+22-	+42-	+59-	+72-	+81-	+84-
32000	0	+21-	+40-	+56-	+69-	+77-	+80-
32980	0	+14-	+28-	+40-	+49-	+54-	+56-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE E

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 40° (North or South)

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+2-	+4-	+6-	+7-	+8-	+9-
2000	0	+4-	+8-	+11-	+14-	+16-	+17-
3000	0	+6-	+12-	+17-	+21-	+23-	+24-
4000	0	+8-	+16-	+22-	+27-	+30-	+31-
5000	0	+10-	+19-	+27-	+33-	+37-	+38-
6000	0	+11-	+22-	+31-	+38-	+43-	+44-
7000	0	+13-	+25-	+35-	+43-	+48-	+49-
8000	0	+14-	+27-	+38-	+47-	+52-	+54-
9000	0	+15-	+29-	+41-	+50-	+56-	+58-
10000	0	+16-	+31-	+44-	+53-	+59-	+62-
11000	0	+17-	+33-	+46-	+56-	+62-	+65-
12000	0	+18-	+34-	+48-	+58-	+65-	+67-
13000	0	+18-	+35-	+49-	+60-	+67-	+69-
14000	0	+18-	+35-	+50-	+61-	+68-	+71-
15000	0	+19-	+36-	+51-	+62-	+69-	+72-
16000	0	+19-	+36-	+51-	+63-	+70-	+73-
17000	0	+19-	+37-	+52-	+64-	+71-	+73-
18000	0	+19-	+37-	+52-	+64-	+72-	+74-
19000	0	+19-	+37-	+52-	+64-	+72-	+74-
20000	0	+19-	+37-	+53-	+65-	+72-	+75-
21000	0	+20-	+38-	+53-	+65-	+73-	+75-
22000	0	+20-	+38-	+53-	+65-	+73-	+76-
23000	0	+20-	+38-	+54-	+66-	+74-	+76-
24000	0	+20-	+38-	+54-	+66-	+74-	+77-
25000	0	+20-	+39-	+55-	+67-	+75-	+77-
26000	0	+20-	+39-	+55-	+67-	+75-	+77-
27000	0	+20-	+39-	+55-	+67-	+75-	+78-
28000	0	+20-	+39-	+55-	+67-	+75-	+78-
29000	0	+20-	+39-	+55-	+67-	+75-	+77-
30000	0	+20-	+38-	+54-	+66-	+74-	+76-
31000	0	+19-	+37-	+52-	+64-	+72-	+74-
32000	0	+18-	+35-	+50-	+61-	+68-	+71-
32980	0	+13-	+25-	+35-	+43-	+48-	+50-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X
PART 2b-2 TABLE E

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - N.V. 2750 f/s

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 50° (North or South)

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+2-	+4-	+5-	+6-	+7-	+7-
2000	0	+4-	+7-	+10-	+12-	+13-	+14-
3000	0	+5-	+10-	+14-	+17-	+19-	+20-
4000	0	+7-	+13-	+18-	+22-	+25-	+26-
5000	0	+9-	+16-	+22-	+27-	+30-	+32-
6000	0	+10-	+19-	+26-	+32-	+35-	+37-
7000	0	+11-	+21-	+29-	+36-	+40-	+41-
8000	0	+12-	+23-	+32-	+39-	+44-	+45-
9000	0	+13-	+25-	+35-	+42-	+47-	+49-
10000	0	+13-	+26-	+37-	+45-	+50-	+52-
11000	0	+14-	+27-	+38-	+47-	+52-	+54-
12000	0	+15-	+28-	+40-	+49-	+54-	+56-
13000	0	+15-	+29-	+41-	+50-	+56-	+58-
14000	0	+16-	+30-	+42-	+51-	+57-	+59-
15000	0	+16-	+31-	+43-	+52-	+58-	+60-
16000	0	+16-	+31-	+43-	+53-	+59-	+61-
17000	0	+16-	+31-	+44-	+54-	+60-	+62-
18000	0	+16-	+31-	+44-	+54-	+60-	+62-
19000	0	+16-	+31-	+44-	+54-	+60-	+62-
20000	0	+16-	+31-	+44-	+54-	+61-	+63-
21000	0	+17-	+32-	+45-	+55-	+61-	+63-
22000	0	+17-	+32-	+45-	+55-	+61-	+63-
23000	0	+17-	+32-	+45-	+55-	+62-	+64-
24000	0	+17-	+32-	+45-	+55-	+62-	+64-
25000	0	+17-	+33-	+46-	+56-	+63-	+65-
26000	0	+17-	+33-	+46-	+56-	+63-	+65-
27000	0	+17-	+33-	+46-	+56-	+63-	+65-
28000	0	+17-	+33-	+46-	+56-	+63-	+65-
29000	0	+17-	+33-	+46-	+56-	+63-	+65-
30000	0	+17-	+32-	+45-	+55-	+62-	+64-
31000	0	+16-	+31-	+44-	+54-	+60-	+62-
32000	0	+16-	+30-	+42-	+51-	+57-	+59-
32980	0	+11-	+21-	+29-	+36-	+40-	+42-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE E

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 60° (North or South)

Range Yards	Azimuth of Target - Degrees						
	0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+1-	+3-	+4-	+5-	+5-	+6-
2000	0	+3-	+6-	+8-	+9-	+10-	+11-
3000	0	+4-	+8-	+11-	+13-	+15-	+16-
4000	0	+5-	+10-	+14-	+17-	+20-	+21-
5000	0	+6-	+12-	+17-	+21-	+24-	+25-
6000	0	+7-	+14-	+20-	+25-	+28-	+29-
7000	0	+8-	+16-	+23-	+28-	+31-	+32-
8000	0	+9-	+18-	+25-	+31-	+34-	+35-
9000	0	+10-	+19-	+27-	+33-	+37-	+38-
10000	0	+10-	+20-	+28-	+35-	+39-	+40-
11000	0	+11-	+21-	+30-	+37-	+41-	+42-
12000	0	+11-	+22-	+31-	+38-	+42-	+44-
13000	0	+12-	+23-	+32-	+39-	+44-	+46-
14000	0	+12-	+23-	+33-	+40-	+45-	+47-
15000	0	+12-	+23-	+33-	+40-	+45-	+47-
16000	0	+12-	+24-	+34-	+41-	+46-	+48-
17000	0	+12-	+24-	+34-	+42-	+47-	+48-
18000	0	+12-	+24-	+34-	+42-	+47-	+48-
19000	0	+13-	+24-	+34-	+42-	+47-	+49-
20000	0	+13-	+24-	+34-	+42-	+47-	+49-
21000	0	+13-	+25-	+35-	+42-	+47-	+49-
22000	0	+13-	+25-	+35-	+42-	+47-	+49-
23000	0	+13-	+25-	+35-	+43-	+48-	+50-
24000	0	+13-	+25-	+35-	+43-	+48-	+50-
25000	0	+13-	+25-	+36-	+44-	+49-	+50-
26000	0	+13-	+25-	+36-	+44-	+49-	+51-
27000	0	+13-	+25-	+36-	+44-	+49-	+51-
28000	0	+13-	+25-	+36-	+44-	+49-	+51-
29000	0	+13-	+25-	+36-	+44-	+49-	+50-
30000	0	+13-	+25-	+35-	+43-	+48-	+50-
31000	0	+13-	+24-	+34-	+42-	+47-	+49-
32000	0	+12-	+23-	+33-	+40-	+45-	+46-
32980	0	+8-	+16-	+23-	+28-	+31-	+32-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D. MK.X

PART 2b-2 TABLE E

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, EFFECTS IN YARDS OF RANGE DUE TO

Latitude 70° (North or South)

Range Yards	Azimuth of Target - Degrees 0 180	15 165	30 150	45 135	60 120	75 105	90 90
1000	0	+1-	+2-	+3-	+3-	+4-	+4-
2000	0	+2-	+4-	+5-	+6-	+7-	+7-
3000	0	+3-	+6-	+8-	+9-	+10-	+11-
4000	0	+4-	+7-	+10-	+12-	+13-	+14-
5000	0	+4-	+8-	+12-	+15-	+16-	+17-
6000	0	+5-	+10-	+14-	+17-	+19-	+20-
7000	0	+6-	+11-	+16-	+19-	+21-	+22-
8000	0	+6-	+12-	+17-	+21-	+23-	+24-
9000	0	+7-	+13-	+18-	+22-	+25-	+26-
10000	0	+7-	+13-	+19-	+24-	+27-	+28-
11000	0	+7-	+14-	+20-	+25-	+28-	+29-
12000	0	+8-	+15-	+21-	+26-	+29-	+30-
13000	0	+8-	+15-	+22-	+27-	+30-	+31-
14000	0	+8-	+16-	+22-	+27-	+30-	+32-
15000	0	+8-	+16-	+23-	+28-	+31-	+32-
16000	0	+8-	+16-	+23-	+28-	+31-	+33-
17000	0	+8-	+16-	+23-	+28-	+31-	+33-
18000	0	+8-	+16-	+23-	+29-	+32-	+33-
19000	0	+8-	+16-	+23-	+29-	+32-	+33-
20000	0	+9-	+17-	+24-	+29-	+32-	+33-
21000	0	+9-	+17-	+24-	+29-	+32-	+34-
22000	0	+9-	+17-	+24-	+29-	+33-	+34-
23000	0	+9-	+17-	+24-	+29-	+33-	+34-
24000	0	+9-	+17-	+24-	+30-	+33-	+34-
25000	0	+9-	+17-	+24-	+30-	+33-	+34-
26000	0	+9-	+17-	+24-	+30-	+34-	+35-
27000	0	+9-	+17-	+24-	+30-	+34-	+35-
28000	0	+9-	+17-	+24-	+30-	+34-	+35-
29000	0	+9-	+17-	+24-	+30-	+34-	+35-
30000	0	+9-	+17-	+24-	+30-	+33-	+34-
31000	0	+9-	+17-	+24-	+29-	+32-	+33-
32000	0	+8-	+16-	+22-	+27-	+30-	+32-
32980	0	+6-	+11-	+16-	+19-	+21-	+22-
	180 360	195 345	210 330	225 315	240 300	255 285	270 270
	Azimuth of Target - Degrees						

NOTE: For the argument at the top of the tables use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE Fa

MUZZLE VELOCITY, EFFECTS IN YARDS OF RANGE, DUE TO INCREASE IN

Range Yards	Increase in Muzzle Velocity - Feet Per Second							
	10	20	30	40	50	60	70	80
1000	7	14	21	28	34	40	47	53
2000	14	28	41	54	67	80	92	104
3000	20	41	60	79	98	117	135	153
4000	26	53	78	103	128	152	176	199
5000	32	64	95	126	156	186	215	244
6000	38	75	111	147	183	218	253	287
7000	43	85	126	167	208	248	288	327
8000	47	94	140	186	231	276	320	364
9000	52	103	153	204	253	302	350	398
10000	56	111	165	220	273	326	378	430
11000	60	119	177	235	292	349	405	460
12000	63	126	188	249	310	370	429	488
13000	67	132	197	262	326	389	452	514
14000	70	139	207	275	342	408	473	538
15000	73	145	216	287	357	426	494	561
16000	76	151	226	299	372	444	515	585
17000	80	159	237	313	389	463	537	610
18000	84	166	248	328	407	485	561	637
19000	88	174	259	343	426	507	587	666
20000	92	183	272	360	447	532	616	699
21000	97	192	286	378	469	559	647	734
22000	102	202	301	398	494	588	680	772
23000	107	213	317	419	520	619	716	812
24000	113	225	335	443	549	653	756	857
25000	120	238	354	469	581	691	800	907
26000	127	252	375	496	615	732	847	960
27000	135	268	398	526	652	776	897	1017
28000	143	284	422	558	692	823	952	1079
29000	153	302	449	594	736	875	1012	1146
30000	163	322	479	633	784	932	1078	1220
31000	175	345	512	676	837	995	1150	1301
32000	188	371	550	725	897	1064	1227	1388
33000	209	410	603	789	970	1147	1321	1491
33500	262	457	649	837	1021	1201	1378	1551
34000			720	905	1088	1269	1447	1622
34500					1182	1359	1536	1710
35000							1650	1822
35500								
36000								
36500								

FT 8-I-1

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FUZE, S.D., MK.X

PART 2b-2 TABLE Fa

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

MUZZLE VELOCITY, EFFECTS IN YARDS OF RANGE, DUE TO INCREASE IN

Increase in Muzzle Velocity - Feet Per Second							Range
90	100	110	120	130	140	150	Yards
59	65	71	77	82	88	93	1000
116	128	139	150	161	172	183	2000
170	188	205	221	237	254	270	3000
222	245	268	289	311	332	353	4000
272	300	328	354	382	408	433	5000
320	353	385	417	449	480	510	6000
365	403	440	477	513	549	583	7000
407	449	491	532	572	612	651	8000
445	492	538	583	628	672	715	9000
481	532	582	631	680	728	775	10000
515	569	622	675	727	779	830	11000
546	603	660	716	771	826	880	12000
575	635	695	754	812	869	926	13000
602	665	728	790	850	910	969	14000
628	694	759	823	886	948	1013	15000
654	722	789	856	922	987	1051	16000
681	752	822	891	959	1026	1093	17000
711	785	858	929	1000	1070	1139	18000
744	821	897	971	1045	1118	1189	19000
781	861	940	1018	1095	1170	1244	20000
820	904	986	1068	1148	1227	1305	21000
862	950	1037	1123	1207	1290	1371	22000
907	1000	1092	1182	1271	1358	1444	23000
957	1055	1152	1247	1340	1432	1523	24000
1012	1116	1218	1318	1416	1513	1608	25000
1071	1183	1288	1394	1498	1600	1700	26000
1134	1250	1364	1476	1586	1694	1800	27000
1203	1326	1446	1564	1681	1795	1907	28000
1278	1408	1535	1660	1783	1904	2022	29000
1360	1497	1632	1764	1894	2022	2147	30000
1449	1595	1739	1879	2016	2151	2283	31000
1546	1702	1854	2003	2149	2291	2431	32000
1658	1821	1981	2138	2292	2443	2592	33000
1721	1887	2051	2212	2370	2525	2678	33500
1794	1963	2129	2293	2454	2613	2769	34000
1882	2052	2219	2384	2547	2708	2866	34500
1992	2160	2327	2491	2653	2814	2973	35000
	2298	2461	2622-2801	2782 2954	2940 3104 3336	3097 3254 3481	35500 36000 36500

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948853 O - 45 - 18

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE Fb

MUZZLE VELOCITY, EFFECTS IN YARDS OF RANGE, DUE TO DECREASE IN

Range	Decrease in Muzzle Velocity - Feet Per Second							
Yards	10	20	30	40	50	60	70	80
1000	-7	-14	-22	-30	-38	-46	-54	-62
2000	-14	-28	-43	-58	-73	-89	-105	-121
3000	-21	-42	-63	-85	-107	-130	-153	-176
4000	-27	-54	-82	-110	-139	-168	-198	-228
5000	-33	-66	-100	-134	-169	-204	-240	-277
6000	-38	-77	-117	-157	-197	-238	-280	-323
7000	-43	-87	-132	-177	-223	-270	-317	-365
8000	-48	-97	-146	-196	-247	-299	-351	-404
9000	-52	-106	-160	-214	-270	-326	-383	-440
10000	-57	-114	-172	-231	-291	-351	-412	-474
11000	-61	-122	-184	-247	-310	-374	-439	-505
12000	-64	-129	-195	-262	-329	-397	-466	-536
13000	-68	-136	-206	-275	-346	-418	-491	-565
14000	-71	-143	-216	-289	-363	-439	-516	-594
15000	-74	-150	-226	-303	-381	-460	-541	-623
16000	-78	-157	-236	-317	-399	-482	-567	-653
17000	-81	-164	-247	-332	-418	-505	-594	-684
18000	-85	-172	-259	-348	-438	-530	-623	-717
19000	-89	-180	-272	-365	-460	-556	-654	-753
20000	-93	-189	-285	-383	-483	-584	-687	-791
21000	-98	-198	-300	-403	-507	-614	-722	-832
22000	-104	-209	-316	-425	-535	-647	-761	-877
23000	-109	-220	-333	-448	-564	-682	-803	-925
24000	-115	-232	-352	-473	-596	-721	-849	-978
25000	-122	-246	-373	-501	-631	-764	-899	-1036
26000	-129	-261	-395	-531	-670	-811	-954	-1100
27000	-137	-277	-419	-564	-711	-861	-1014	-1169
27500	-141	-286	-433	-582	-734	-888	-1046	-1206
28000	-146	-295	-446	-600	-757	-917	-1080	-1245
28500	-151	-304	-460	-619	-782	-947	-1116	-1287
29000	-156	-314	-476	-640	-808	-979	-1154	-1332
29500	-161	-325	-492	-662	-836	-1014	-1196	-1382
30000	-166	-336	-509	-686	-867	-1052	-1242	-1437
30500	-172	-348	-528	-712	-901	-1096	-1297	-1506
31000	-179	-362	-549	-742	-940	-1147	-1363	-1596
31500	-187	-378	-575	-779	-994	-1224	-1473	-1765
32000	-195	-395	-610	-841	-1094	-1377		
32500	-207	-429	-671	-945				
33000	-215	-491						

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FUZE, B.D., MK.X

PART 2b-2 TABLE Fb

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LD., MK.XVIII
SUPERCHARGE - K.V. 2750 f/s

MUZZLE VELOCITY, EFFECTS IN YARDS OF RANGE, DUE TO DECREASE IN

Decrease in Muzzle Velocity - Feet Per Second							Range
90	100	110	120	130	140	150	Yards
-70	-79	-88	-97	-106	-115	-124	1000
-137	-154	-171	-188	-205	-223	-241	2000
-200	-224	-249	-274	-299	-325	-351	3000
-259	-290	-322	-354	-387	-420	-454	4000
-314	-352	-390	-429	-469	-509	-550	5000
-366	-409	-453	-499	-545	-591	-638	6000
-413	-462	-512	-563	-614	-666	-718	7000
-457	-511	-566	-622	-678	-735	-792	8000
-498	-557	-617	-677	-738	-800	-862	9000
-536	-599	-664	-729	-794	-861	-928	10000
-572	-639	-708	-777	-847	-918	-990	11000
-606	-678	-750	-823	-898	-973	-1050	12000
-639	-715	-791	-868	-947	-1027	-1108	13000
-672	-752	-832	-914	-997	-1081	-1166	14000
-705	-789	-874	-960	-1048	-1136	-1226	15000
-739	-827	-917	-1008	-1100	-1193	-1288	16000
-775	-868	-962	-1058	-1155	-1253	-1353	17000
-813	-911	-1010	-1110	-1212	-1315	-1420	18000
-854	-956	-1060	-1165	-1272	-1381	-1491	19000
-897	-1004	-1113	-1224	-1337	-1451	-1567	20000
-943	-1056	-1171	-1288	-1407	-1527	-1649	21000
-994	-1113	-1234	-1358	-1483	-1610	-1739	22000
-1049	-1175	-1303	-1434	-1567	-1701	-1838	23000
-1109	-1243	-1379	-1517	-1658	-1801	-1946	24000
-1176	-1318	-1462	-1609	-1759	-1911	-2065	25000
-1249	-1400	-1553	-1709	-1868	-2030	-2195	26000
-1327	-1488	-1652	-1819	-1989	-2161	-2336	27000
-1370	-1536	-1705	-1878	-2054	-2232	-2413	27500
-1414	-1586	-1761	-1940	-2122	-2307	-2496	28000
-1462	-1640	-1821	-2007	-2195	-2391	-2591	28500
-1514	-1699	-1888	-2082	-2281	-2488	-2704	29000
-1572	-1766	-1966	-2173	-2391	-2631	-2901	29500
-1638	-1845	-2061	-2291	-2543	-2856	-3330	30000
-1729	-1969	-2228	-2511	-2836	-3277		30500
-1865	-2193	-2569					31000
-2091							31500
							32000
							32500
							33000

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X
PART 2b-2 TABLE 6a

AIR DENSITY, EFFECTS IN YARDS OF RANGE, DUE TO DECREASE IN
(59° F. and 29.5 + in.)

Range Yards	Decrease in Air Density - Per Cent							
	1	2	3	4	5	6	7	8
1000	0	0	0	0	0	0	0	0
2000	1	2	3	3	4	4	4	5
3000	2	4	6	8	10	11	12	14
4000	4	8	11	15	18	21	24	27
5000	6	12	18	24	29	34	40	44
6000	9	18	27	35	43	51	59	66
7000	12	25	37	48	60	71	82	93
8000	16	33	49	64	80	95	110	125
9000	21	42	62	82	102	122	141	160
10000	26	52	77	102	127	152	176	200
11000	31	62	93	124	154	184	214	243
12000	37	74	111	148	184	219	255	290
13000	44	87	130	174	216	258	300	341
14000	51	101	151	201	250	299	347	395
15000	58	116	173	230	286	341	396	451
16000	66	131	195	259	323	386	448	510
17000	74	146	218	290	361	432	502	571
18000	82	162	242	322	401	479	557	634
19000	90	179	267	355	442	528	614	699
20000	98	196	292	388	484	578	672	763
21000	107	213	317	422	526	629	731	833
22000	115	230	343	456	569	680	791	901
23000	124	247	369	491	612	732	852	971
24000	133	265	396	526	656	785	913	1041
25000	142	283	423	562	701	839	976	1113
26000	151	301	450	598	746	893	1039	1185
27000	160	319	477	635	792	948	1103	1258
28000	169	337	505	672	838	1003	1167	1331
29000	178	356	533	710	885	1059	1233	1406
30000	188	376	562	748	933	1116	1299	1481
31000	198	395	591	786	980	1173	1365	1556
32000	208	414	619	824	1027	1229	1430	1630
33000	217	433	647	861	1073	1284	1494	1703
34000	226	451	675	897	1118	1338	1557	1774
35000					1159	1388	1616	1841
36000								
37000								

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FUZE, B.D., MK.X

PART 2b-2 TABLE 8a

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

AIR DENSITY, EFFECTS IN YARDS OF RANGE, DUE TO DECREASE IN
(59° F. and 29.5 + in.)

Decrease in Air Density - Per Cent								Range
9	10	11	12	13	14	15	16	Yards
0	0	0	0	0	0	0	0	1000
5	5	5	5	5	5	5	5	2000
15	16	17	17	18	18	18	18	3000
30	32	34	36	38	39	41	42	4000
49	53	57	61	65	69	73	76	5000
73	80	87	94	101	107	113	119	6000
104	114	124	134	144	154	163	172	7000
139	154	167	181	195	209	222	234	8000
179	198	216	234	252	270	288	305	9000
223	247	271	294	316	339	361	383	10000
272	301	329	358	386	414	441	468	11000
325	359	393	427	461	494	527	559	12000
382	422	462	502	541	580	619	657	13000
442	489	535	582	627	672	717	761	14000
505	559	612	665	717	769	820	871	15000
571	632	692	752	811	870	928	985	16000
640	708	775	842	908	974	1040	1104	17000
710	786	861	936	1009	1082	1155	1227	18000
783	867	950	1032	1113	1194	1274	1354	19000
858	950	1041	1131	1220	1309	1397	1485	20000
934	1034	1133	1232	1330	1427	1523	1619	21000
1011	1119	1227	1334	1441	1547	1652	1756	22000
1089	1206	1323	1439	1554	1669	1783	1896	23000
1168	1294	1420	1545	1669	1793	1916	2038	24000
1249	1384	1519	1653	1786	1918	2050	2181	25000
1330	1474	1618	1761	1903	2044	2185	2325	26000
1412	1565	1718	1870	2021	2171	2320	2469	27000
1495	1657	1818	1979	2139	2298	2456	2614	28000
1578	1749	1919	2089	2257	2425	2592	2758	29000
1662	1842	2021	2199	2376	2552	2728	2902	30000
1746	1935	2122	2309	2495	2680	2864	3026	31000
1829	2027	2223	2418	2613	2807	2999	3190	32000
1911	2117	2322	2526	2729	2931	3132	3331	33000
1990	2205	2418	2631	2842	3051	3260	3467	34000
2065	2288	2509	2729	2948	3166	3381	3596	35000
2131	2361	2590	2817	3042	3267	3489	3711	36000
				3115	3344	3572	3799	37000

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SHELL, A.P., 250 LB., MK.XX
SHELL, T.P., 250 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, S.D., MK.X

PART 2b-2 TABLE Gb

AIR DENSITY, EFFECTS IN YARDS OF RANGE, DUE TO INCREASE IN
(59° F. and 29.5 + in.)

Range Yards	Increase in Air Density - Per Cent							
	1	2	3	4	5	6	7	8
1000	0	-1	-1	-2	-3	-3	-4	-5
2000	-1	-2	-4	-5	-7	-8	-10	-12
3000	-2	-5	-8	-10	-13	-16	-20	-25
4000	-4	-9	-13	-18	-22	-27	-33	-38
5000	-6	-13	-20	-27	-34	-41	-49	-57
6000	-9	-19	-28	-38	-49	-59	-69	-80
7000	-13	-26	-39	-52	-66	-80	-94	-108
8000	-17	-34	-51	-68	-86	-104	-122	-140
9000	-21	-43	-64	-86	-108	-131	-154	-176
10000	-26	-53	-79	-106	-133	-161	-189	-217
11000	-32	-64	-96	-128	-161	-194	-228	-262
12000	-38	-76	-114	-153	-192	-231	-271	-311
13000	-44	-89	-134	-179	-225	-271	-318	-365
14000	-51	-103	-155	-207	-260	-314	-368	-423
15000	-58	-118	-177	-237	-298	-359	-421	-484
16000	-66	-133	-200	-268	-337	-406	-476	-546
17000	-74	-149	-224	-300	-377	-454	-532	-610
18000	-82	-165	-249	-333	-418	-503	-589	-676
19000	-90	-182	-274	-366	-459	-553	-648	-743
20000	-98	-198	-299	-400	-501	-604	-707	-811
21000	-107	-215	-324	-434	-544	-655	-766	-879
22000	-116	-232	-350	-468	-587	-706	-826	-947
23000	-125	-250	-376	-503	-630	-758	-887	-1016
24000	-133	-267	-402	-537	-673	-810	-948	-1086
25000	-142	-285	-429	-573	-718	-864	-1011	-1158
26000	-151	-303	-456	-609	-764	-919	-1075	-1231
27000	-160	-321	-483	-646	-810	-974	-1139	-1304
28000	-170	-340	-511	-683	-856	-1029	-1203	-1378
29000	-180	-360	-541	-723	-906	-1090	-1274	-1458
30000	-191	-382	-574	-767	-962	-1157	-1353	-1549
31000	-204	-406	-610	-816	-1024	-1233	-1444	-1658
32000	-220	-434	-652	-874	-1098	-1325	-1555	-1789
33000	-240	-468	-701	-940				

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FUZE, B.D., MK.X
PART 2b-2 TABLE 6b

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

AIR DENSITY, EFFECTS IN YARDS OF RANGE, DUE TO INCREASE IN
(59° F. and 29.5 + in.)

Increase in Air Density - Per Cent								Range
9	10	11	12	13	14	15	16	Yards
-5	-6	-7	-8	-9	-10	-11	-12	1000
-14	-16	-18	-20	-23	-24	-27	-30	2000
-27	-30	-34	-38	-42	-46	-51	-55	3000
-44	-49	-55	-61	-67	-74	-80	-87	4000
-65	-73	-82	-90	-99	-108	-117	-126	5000
-91	-102	-114	-125	-137	-149	-161	-173	6000
-122	-137	-152	-167	-182	-198	-213	-229	7000
-158	-177	-196	-215	-234	-254	-274	-294	8000
-199	-222	-246	-270	-294	-318	-342	-367	9000
-245	-273	-302	-332	-361	-390	-420	-450	10000
-296	-330	-365	-400	-435	-471	-507	-543	11000
-352	-392	-434	-475	-517	-559	-602	-645	12000
-413	-460	-508	-557	-606	-655	-705	-755	13000
-478	-533	-588	-645	-701	-758	-815	-873	14000
-546	-609	-673	-737	-801	-866	-931	-997	15000
-617	-689	-760	-832	-904	-978	-1052	-1126	16000
-690	-769	-849	-930	-1011	-1093	-1176	-1259	17000
-764	-852	-940	-1030	-1120	-1211	-1302	-1394	18000
-839	-936	-1033	-1131	-1230	-1330	-1430	-1530	19000
-915	-1021	-1126	-1233	-1341	-1449	-1558	-1667	20000
-992	-1106	-1220	-1336	-1452	-1568	-1686	-1804	21000
-1069	-1191	-1314	-1438	-1563	-1688	-1814	-1941	22000
-1147	-1278	-1410	-1542	-1675	-1809	-1944	-2079	23000
-1226	-1366	-1506	-1647	-1789	-1932	-2075	-2219	24000
-1306	-1455	-1604	-1754	-1905	-2057	-2209	-2362	25000
-1387	-1545	-1704	-1863	-2023	-2184	-2345	-2507	26000
-1470	-1637	-1805	-1973	-2142	-2312	-2482	-2653	27000
-1554	-1730	-1908	-2085	-2264	-2443	-2622	-2803	28000
-1645	-1832	-2020	-2208	-2398	-2588	-2779	-2971	29000
-1748	-1948	-2148	-2350	-2552	-2756	-2962	-3168	30000
-1872	-2088	-2309	-2524	-2743	-2965	-3190		31000
-2026								32000
								33000

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE II

TEMPERATURE (ELASTICITY), EFFECTS IN YARDS OF RANGE
(59° F.)

Range	Temperature of Air - Degrees Fahrenheit											
Yards	0	10	20	30	40	50	59	60	70	80	90	100
1000	2	2	2	2	2	1	0	0	-1	-2	-3	-4
2000	7	6	6	5	4	2	0	0	-2	-4	-6	-9
3000	15	13	11	8	6	3	0	0	-3	-7	-10	-14
4000	26	22	17	13	9	4	0	0	-5	-10	-14	-19
5000	40	33	26	19	13	6	0	0	-7	-13	-19	-25
6000	58	47	37	27	17	8	0	-1	-9	-17	-24	-31
7000	80	64	49	35	22	10	0	-1	-11	-21	-30	-38
8000	105	84	64	46	29	13	0	-1	-15	-27	-38	-47
9000	132	106	81	58	37	17	0	-1	-18	-33	-47	-59
10000	160	129	100	72	46	21	0	-2	-23	-42	-59	-75
11000	189	153	119	86	55	26	0	-2	-28	-52	-74	-94
12000	219	178	139	101	65	30	0	-3	-34	-63	-91	-117
13000	248	203	159	116	75	35	0	-3	-40	-76	-110	-143
14000	277	228	180	132	86	40	0	-4	-47	-90	-132	-172
15000	306	253	201	149	97	46	0	-5	-55	-104	-153	-202
16000	335	278	221	165	108	51	0	-6	-62	-119	-175	-232
17000	365	304	242	180	118	56	0	-7	-70	-133	-196	-260
18000	395	329	263	196	129	61	0	-7	-76	-146	-216	-286
19000	426	355	284	212	139	66	0	-8	-83	-158	-234	-310
20000	458	382	305	228	150	71	0	-8	-88	-169	-251	-333
21000	491	409	327	244	160	76	0	-9	-94	-180	-267	-354
22000	525	437	349	260	170	81	0	-9	-99	-190	-281	-373
23000	559	464	370	275	180	85	0	-10	-105	-200	-295	-390
24000	592	491	390	289	189	89	0	-10	-109	-208	-307	-405
25000	623	516	409	303	198	93	0	-11	-114	-216	-317	-418
26000	651	538	426	315	206	97	0	-11	-117	-222	-326	-429
27000	676	558	442	326	212	100	0	-11	-120	-227	-333	-437
28000	697	574	453	334	217	102	0	-11	-122	-230	-336	-440
29000	715	587	462	340	220	103	0	-11	-123	-231	-337	-440
30000	729	597	469	344	222	104	0	-11	-123	-232	-338	-440
30500	736	603	473	347	224	104	0	-12	-125	-234	-340	-442
31000	740	607	476	349	226	105	0	-12	-127	-238	-345	-450
31500	742	610	480	353	228	106	0	-14	-131	-246	-358	-468
32000	742	613	485	358	232	107	0	-17	-140	-262	-383	-503
32500	737	620	498	373	243	110	0	-27	-169	-314	-464	-617
33000	728	614	496	373	247	117	0	-37	-198	-366		
33500	725	612	499	381	258	131						
34000	890	692										

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FUZE, B.D., MK.X

PART 2b-2 TABLE Ia

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

REAR WIND, EFFECTS IN YARDS OF RANGE, DUE TO

Range Yards	Rear Wind - Miles Per Hour									
	5	10	15	20	25	30	35	40	45	50
1000	0	0	0	0	0	0	0	0	0	0
2000	0	1	1	1	1	1	1	1	1	1
3000	1	1	2	3	3	3	4	4	4	4
4000	1	2	4	5	6	7	8	9	9	10
5000	2	4	6	8	10	12	14	16	17	19
6000	4	7	10	13	16	19	22	25	28	31
7000	5	10	15	19	24	28	33	37	42	46
8000	7	14	20	27	33	39	46	52	58	64
9000	9	18	26	35	44	52	61	69	77	85
10000	12	23	34	45	56	67	78	88	98	108
11000	15	29	43	56	70	84	97	110	122	135
12000	18	35	52	69	86	102	118	134	149	165
13000	21	42	62	83	103	122	141	160	178	197
14000	25	50	74	98	121	144	166	188	210	231
15000	29	58	86	113	140	166	192	218	243	267
16000	33	66	98	129	160	190	220	249	277	305
17000	37	74	110	146	181	215	248	281	313	345
18000	42	83	124	164	203	241	278	315	351	387
19000	46	92	137	182	225	268	309	350	390	430
20000	51	101	151	200	248	295	341	386	431	475
21000	56	111	165	219	272	323	374	424	473	522
22000	61	121	180	239	296	352	408	463	517	570
23000	66	131	195	259	321	382	442	502	561	618
24000	71	141	210	279	346	412	477	542	606	668
25000	76	151	226	300	372	443	513	583	652	719
26000	81	162	242	321	398	474	549	624	698	770
27000	87	173	258	342	424	506	586	666	745	822
28000	93	184	274	363	451	538	624	709	792	874
29000	98	195	291	386	479	571	662	752	840	927
30000	104	207	309	409	508	606	702	797	891	983
31000	110	219	327	433	538	642	744	845	945	1043
32000	117	232	346	459	570	680	788	895	1001	1106
33000	124	246	366	485	603	719	833	946	1058	1169
34000	131	261	388	513	636	758	878	996	1111	1229
35000									1169	1262

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE Ib

HEAD WIND, EFFECTS IN YARDS OF RANGE, DUE TO

Range Yards	Head Wind - Miles Per Hour									
	5	10	15	20	25	30	35	40	45	50
1000	0	0	0	-1	-1	-1	-1	-1	-1	-1
2000	0	-1	-1	-2	-2	-2	-2	-2	-3	-3
3000	-1	-1	-2	-2	-3	-3	-4	-4	-5	-6
4000	-1	-2	-3	-4	-5	-6	-7	-8	-9	-11
5000	-2	-4	-6	-8	-9	-11	-13	-15	-17	-19
6000	-3	-7	-10	-13	-16	-19	-22	-26	-29	-32
7000	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50
8000	-7	-14	-21	-28	-35	-43	-50	-57	-64	-72
9000	-9	-19	-28	-37	-47	-57	-67	-77	-87	-98
10000	-12	-24	-36	-48	-61	-74	-87	-100	-113	-127
11000	-15	-30	-45	-61	-77	-93	-110	-126	-143	-160
12000	-18	-37	-55	-74	-94	-114	-134	-154	-175	-196
13000	-22	-44	-66	-89	-112	-136	-160	-184	-209	-235
14000	-26	-52	-78	-105	-132	-160	-188	-217	-246	-276
15000	-30	-60	-90	-121	-153	-185	-218	-251	-285	-319
16000	-34	-68	-103	-138	-174	-211	-249	-287	-325	-364
17000	-38	-77	-116	-156	-197	-238	-280	-323	-366	-410
18000	-43	-86	-130	-175	-220	-266	-313	-360	-408	-457
19000	-47	-95	-144	-194	-244	-295	-347	-399	-452	-506
20000	-52	-105	-159	-213	-268	-324	-381	-439	-497	-556
21000	-57	-115	-174	-233	-293	-354	-416	-479	-543	-607
22000	-62	-125	-189	-254	-319	-385	-452	-520	-589	-659
23000	-67	-135	-204	-274	-345	-417	-489	-562	-636	-712
24000	-72	-145	-219	-295	-372	-449	-526	-605	-685	-766
25000	-77	-156	-235	-316	-398	-481	-564	-648	-734	-820
26000	-83	-167	-252	-338	-425	-513	-602	-692	-783	-875
27000	-88	-178	-269	-360	-452	-545	-640	-736	-833	-931
28000	-94	-189	-286	-383	-480	-579	-680	-782	-885	-989
29000	-100	-201	-303	-406	-510	-616	-723	-831	-940	-1051
30000	-106	-213	-321	-431	-542	-655	-769	-884	-1000	-1119
31000	-112	-226	-341	-458	-576	-696	-818	-941	-1066	-1193
32000	-119	-240	-363	-487	-613	-741	-872	-1004	-1138	-1274
33000	-126	-254	-385	-518	-653	-791	-932			

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FUZE, B.D., MK.X
PART 2b-2 TABLE J

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

CROSS WIND EFFECTS

Range Yards	In Mils					In Degrees				
	Cross Wind - Miles Per Hour									
	10	20	30	40	50	10	20	30	40	50
1000	0.1	0.2	0.3	0.4	0.5	0.01	0.01	0.02	0.02	0.03
2000	0.2	0.4	0.7	0.9	1.1	0.01	0.02	0.04	0.05	0.06
3000	0.3	0.7	1.0	1.3	1.7	0.02	0.04	0.06	0.07	0.09
4000	0.5	0.9	1.4	1.8	2.3	0.03	0.05	0.08	0.10	0.13
5000	0.6	1.2	1.8	2.4	2.9	0.03	0.07	0.10	0.14	0.17
6000	0.7	1.5	2.2	2.9	3.6	0.04	0.08	0.13	0.17	0.21
7000	0.9	1.7	2.6	3.5	4.4	0.05	0.10	0.15	0.20	0.25
8000	1.0	2.0	3.1	4.1	5.1	0.06	0.12	0.17	0.23	0.29
9000	1.2	2.4	3.6	4.7	5.9	0.07	0.13	0.20	0.26	0.33
10000	1.4	2.7	4.1	5.4	6.8	0.08	0.15	0.23	0.30	0.38
11000	1.5	3.1	4.6	6.1	7.7	0.09	0.17	0.26	0.34	0.43
12000	1.7	3.4	5.2	6.9	8.6	0.10	0.19	0.29	0.38	0.48
13000	1.9	3.8	5.7	7.6	9.6	0.11	0.22	0.32	0.43	0.54
14000	2.1	4.2	6.3	8.4	10.5	0.12	0.24	0.35	0.47	0.59
15000	2.3	4.6	6.9	9.2	11.5	0.13	0.26	0.39	0.52	0.65
16000	2.5	5.0	7.5	10.1	12.6	0.14	0.28	0.43	0.57	0.71
17000	2.7	5.5	8.2	10.9	13.7	0.15	0.31	0.46	0.62	0.77
18000	2.9	5.9	8.8	11.8	14.7	0.17	0.33	0.50	0.66	0.83
19000	3.2	6.3	9.5	12.7	15.8	0.18	0.36	0.53	0.71	0.89
20000	3.4	6.8	10.2	13.5	16.9	0.19	0.38	0.57	0.76	0.95
21000	3.6	7.2	10.8	14.4	18.0	0.20	0.40	0.61	0.81	1.01
22000	3.8	7.6	11.5	15.3	19.1	0.21	0.43	0.64	0.86	1.07
23000	4.0	8.1	12.1	16.1	20.2	0.23	0.45	0.68	0.90	1.13
24000	4.2	8.5	12.7	16.9	21.2	0.24	0.48	0.71	0.95	1.19
25000	4.4	8.9	13.3	17.7	22.2	0.25	0.50	0.75	1.00	1.25
26000	4.6	9.2	13.9	18.5	23.1	0.26	0.52	0.78	1.04	1.30
27000	4.8	9.6	14.4	19.3	24.1	0.27	0.54	0.81	1.08	1.35
28000	5.0	10.0	15.0	20.0	25.0	0.28	0.56	0.85	1.13	1.41
29000	5.2	10.4	15.6	20.8	26.0	0.29	0.58	0.88	1.17	1.46
30000	5.4	10.8	16.2	21.6	27.0	0.30	0.60	0.91	1.22	1.52
31000	5.6	11.2	16.8	22.4	28.0	0.31	0.62	0.94	1.26	1.57
32000	5.8	11.6	17.4	23.2	29.0	0.32	0.65	0.98	1.30	1.63
32500	6.0	11.9	17.9	23.8	29.8	0.33	0.67	1.00	1.34	1.67
32980	6.3	12.5	18.8	25.1	31.4	0.35	0.70	1.06	1.41	1.76

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE K

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude C°

Range Yards	Azimuth of Target - Degrees						
	0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13000	+0.1-	0.0	0.0	0.0	0.0	0.0	-0.1+
14000	+0.1-	+0.1-	0.0	0.0	0.0	-0.1+	-0.1+
15000	+0.1-	+0.1-	0.0	0.0	0.0	-0.1+	-0.1+
16000	+0.1-	+0.1-	0.0	0.0	0.0	-0.1+	-0.1+
17000	+0.1-	+0.1-	+0.1-	0.0	-0.1+	-0.1+	-0.1+
18000	+0.1-	+0.1-	+0.1-	0.0	-0.1+	-0.1+	-0.1+
19000	+0.2-	+0.1-	+0.1-	0.0	-0.1+	-0.1+	-0.2+
20000	+0.2-	+0.2-	+0.1-	0.0	-0.1+	-0.2+	-0.2+
21000	+0.2-	+0.2-	+0.1-	0.0	-0.1+	-0.2+	-0.2+
22000	+0.3-	+0.2-	+0.1-	0.0	-0.1+	-0.2+	-0.3+
23000	+0.3-	+0.3-	+0.2-	0.0	-0.2+	-0.3+	-0.3+
24000	+0.4-	+0.3-	+0.2-	0.0	-0.2+	-0.3+	-0.4+
25000	+0.4-	+0.3-	+0.2-	0.0	-0.2+	-0.3+	-0.4+
26000	+0.5-	+0.4-	+0.2-	0.0	-0.2+	-0.4+	-0.5+
27000	+0.6-	+0.5-	+0.3-	0.0	-0.3+	-0.5+	-0.6+
28000	+0.7-	+0.6-	+0.3-	0.0	-0.3+	-0.6+	-0.7+
29000	+0.8-	+0.7-	+0.4-	0.0	-0.4+	-0.7+	-0.8+
30000	+0.9-	+0.8-	+0.5-	0.0	-0.5+	-0.8+	-0.9+
31000	+1.1-	+1.0-	+0.6-	0.0	-0.6+	-1.0+	-1.1+
32000	+1.4-	+1.3-	+0.8-	0.0	-0.8+	-1.3+	-1.4+
32980	+2.2-	+1.9-	+1.1-	0.0	-1.1+	-1.9+	-2.2+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 0°

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X
PART 2b-2 TABLE K

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 10° (North)

Range Yards	Azimuth of Target - Degrees						
	0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
5000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
6000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
7000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
8000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
9000	-0.1+	-0.1+	-0.1+	-0.1+	-0.2+	-0.2+	-0.2+
10000	-0.1+	-0.1+	-0.1+	-0.2+	-0.2+	-0.2+	-0.2+
11000	-0.1+	-0.1+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
12000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
13000	-0.2+	-0.2+	-0.2+	-0.2+	-0.3+	-0.3+	-0.3+
14000	-0.2+	-0.2+	-0.2+	-0.2+	-0.3+	-0.3+	-0.3+
15000	-0.2+	-0.2+	-0.2+	-0.3+	-0.3+	-0.3+	-0.3+
16000	-0.2+	-0.2+	-0.2+	-0.3+	-0.3+	-0.4+	-0.4+
17000	-0.2+	-0.2+	-0.3+	-0.3+	-0.4+	-0.4+	-0.4+
18000	-0.2+	-0.2+	-0.3+	-0.3+	-0.4+	-0.5+	-0.5+
19000	-0.2+	-0.2+	-0.3+	-0.4+	-0.4+	-0.5+	-0.5+
20000	-0.2+	-0.2+	-0.3+	-0.4+	-0.5+	-0.6+	-0.6+
21000	-0.2+	-0.2+	-0.3+	-0.4+	-0.5+	-0.6+	-0.6+
22000	-0.2+	-0.2+	-0.3+	-0.5+	-0.6+	-0.7+	-0.7+
23000	-0.2+	-0.2+	-0.3+	-0.5+	-0.6+	-0.7+	-0.8+
24000	-0.2+	-0.2+	-0.3+	-0.5+	-0.7+	-0.8+	-0.9+
25000	-0.1+	-0.2+	-0.4+	-0.6+	-0.8+	-0.9+	-1.0+
26000	-0.1+	-0.2+	-0.4+	-0.6+	-0.8+	-1.0+	-1.1+
27000	-0.1+	-0.1+	-0.3+	-0.6+	-0.9+	-1.1+	-1.2+
28000	0.0	0.0	-0.3+	-0.7+	-1.0+	-1.2+	-1.3+
29000	+0.1-	0.0	-0.3+	-0.7+	-1.1+	-1.4+	-1.5+
30000	+0.2-	0.0	-0.3+	-0.7+	-1.2+	-1.6+	-1.7+
31000	+0.3-	+0.1-	-0.3+	-0.8+	-1.4+	-1.8+	-1.9+
32000	+0.4-	+0.3-	-0.2+	-0.9+	-1.6+	-2.1+	-2.2+
32920	+1.1-	+0.8-	0.0	-1.0+	-2.1+	-2.9+	-3.2+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 10° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, S.D., MK.X
PART 2b-2 TABLE X

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 20° (North)

Range Yards	Azimuth of Target - Degrees 0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
3000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
4000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
5000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.2+	-0.2+
6000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
7000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
8000	-0.2+	-0.2+	-0.2+	-0.2+	-0.3+	-0.3+	-0.3+
9000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
10000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
11000	-0.3+	-0.3+	-0.3+	-0.4+	-0.4+	-0.4+	-0.4+
12000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
13000	-0.4+	-0.4+	-0.4+	-0.4+	-0.5+	-0.5+	-0.5+
14000	-0.4+	-0.4+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
15000	-0.5+	-0.5+	-0.5+	-0.5+	-0.6+	-0.6+	-0.6+
16000	-0.5+	-0.5+	-0.5+	-0.6+	-0.6+	-0.7+	-0.7+
17000	-0.5+	-0.5+	-0.6+	-0.6+	-0.7+	-0.7+	-0.7+
18000	-0.5+	-0.6+	-0.6+	-0.7+	-0.7+	-0.8+	-0.8+
19000	-0.6+	-0.6+	-0.6+	-0.7+	-0.8+	-0.9+	-0.9+
20000	-0.6+	-0.6+	-0.7+	-0.8+	-0.9+	-0.9+	-1.0+
21000	-0.6+	-0.6+	-0.7+	-0.8+	-0.9+	-1.0+	-1.0+
22000	-0.6+	-0.7+	-0.8+	-0.9+	-1.0+	-1.1+	-1.1+
23000	-0.7+	-0.7+	-0.8+	-1.0+	-1.1+	-1.2+	-1.2+
24000	-0.7+	-0.7+	-0.8+	-1.0+	-1.2+	-1.3+	-1.4+
25000	-0.7+	-0.8+	-0.9+	-1.1+	-1.3+	-1.4+	-1.5+
26000	-0.7+	-0.8+	-1.0+	-1.2+	-1.4+	-1.5+	-1.6+
27000	-0.7+	-0.8+	-1.0+	-1.2+	-1.5+	-1.7+	-1.8+
28000	-0.7+	-0.8+	-1.0+	-1.3+	-1.6+	-1.8+	-1.9+
29000	-0.7+	-0.8+	-1.0+	-1.4+	-1.8+	-2.0+	-2.1+
30000	-0.6+	-0.8+	-1.1+	-1.5+	-1.9+	-2.2+	-2.4+
31000	-0.6+	-0.7+	-1.1+	-1.6+	-2.1+	-2.5+	-2.7+
32000	-0.5+	-0.7+	-1.1+	-1.7+	-2.4+	-2.9+	-3.0+
32980	0.0	-0.3+	-1.1+	-2.1+	-3.1+	-3.8+	-4.1+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 20° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X

PART 2b-2 TABLE X

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 30° (North)

Range Yards	Azimuth of Target - Degrees						
	0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
3000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
4000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
5000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
6000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
7000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
8000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
9000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
10000	-0.4+	-0.4+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
11000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.6+	-0.6+
12000	-0.5+	-0.5+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+
13000	-0.6+	-0.6+	-0.6+	-0.6+	-0.7+	-0.7+	-0.7+
14000	-0.6+	-0.7+	-0.7+	-0.7+	-0.7+	-0.8+	-0.8+
15000	-0.7+	-0.7+	-0.7+	-0.8+	-0.8+	-0.8+	-0.8+
16000	-0.8+	-0.8+	-0.8+	-0.8+	-0.9+	-0.9+	-0.9+
17000	-0.8+	-0.8+	-0.9+	-0.9+	-1.0+	-1.0+	-1.0+
18000	-0.9+	-0.9+	-0.9+	-1.0+	-1.0+	-1.1+	-1.1+
19000	-0.9+	-0.9+	-1.0+	-1.1+	-1.1+	-1.2+	-1.2+
20000	-1.0+	-1.0+	-1.1+	-1.1+	-1.2+	-1.3+	-1.3+
21000	-1.0+	-1.0+	-1.1+	-1.2+	-1.3+	-1.4+	-1.4+
22000	-1.1+	-1.2+	-1.2+	-1.3+	-1.4+	-1.5+	-1.5+
23000	-1.1+	-1.2+	-1.3+	-1.4+	-1.5+	-1.6+	-1.7+
24000	-1.2+	-1.2+	-1.3+	-1.5+	-1.6+	-1.7+	-1.8+
25000	-1.2+	-1.3+	-1.4+	-1.6+	-1.8+	-1.9+	-2.0+
26000	-1.3+	-1.4+	-1.5+	-1.7+	-1.9+	-2.0+	-2.1+
27000	-1.3+	-1.4+	-1.6+	-1.8+	-2.0+	-2.2+	-2.3+
28000	-1.3+	-1.4+	-1.6+	-1.9+	-2.2+	-2.4+	-2.5+
29000	-1.4+	-1.5+	-1.7+	-2.1+	-2.4+	-2.6+	-2.7+
30000	-1.4+	-1.5+	-1.8+	-2.2+	-2.6+	-2.9+	-3.0+
31000	-1.4+	-1.5+	-1.9+	-2.4+	-2.9+	-3.2+	-3.3+
32000	-1.4+	-1.5+	-2.0+	-2.6+	-3.2+	-3.6+	-3.7+
32980	-1.1+	-1.4+	-2.1+	-3.0+	-3.9+	-4.6+	-4.9+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 30° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE K

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 40° (North)

Range Yards	Azimuth of Target - Degrees						
	0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
2000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
3000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
4000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
5000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
6000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
7000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
8000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
9000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
10000	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+
11000	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+
12000	-0.7+	-0.7+	-0.7+	-0.8+	-0.8+	-0.8+	-0.8+
13000	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.9+	-0.9+
14000	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-1.0+	-1.0+
15000	-0.9+	-0.9+	-1.0+	-1.0+	-1.0+	-1.0+	-1.1+
16000	-1.0+	-1.0+	-1.0+	-1.1+	-1.1+	-1.1+	-1.2+
17000	-1.1+	-1.1+	-1.1+	-1.2+	-1.2+	-1.2+	-1.3+
18000	-1.2+	-1.2+	-1.2+	-1.3+	-1.3+	-1.4+	-1.4+
19000	-1.2+	-1.2+	-1.3+	-1.4+	-1.4+	-1.5+	-1.5+
20000	-1.3+	-1.3+	-1.4+	-1.5+	-1.5+	-1.6+	-1.6+
21000	-1.4+	-1.4+	-1.5+	-1.6+	-1.6+	-1.7+	-1.7+
22000	-1.5+	-1.5+	-1.6+	-1.7+	-1.8+	-1.9+	-1.9+
23000	-1.6+	-1.6+	-1.7+	-1.8+	-1.9+	-2.0+	-2.0+
24000	-1.6+	-1.7+	-1.8+	-1.9+	-2.0+	-2.1+	-2.2+
25000	-1.7+	-1.8+	-1.9+	-2.0+	-2.2+	-2.3+	-2.4+
26000	-1.8+	-1.9+	-2.0+	-2.2+	-2.4+	-2.5+	-2.6+
27000	-1.9+	-2.0+	-2.1+	-2.3+	-2.5+	-2.7+	-2.8+
28000	-2.0+	-2.0+	-2.2+	-2.5+	-2.7+	-2.9+	-3.0+
29000	-2.0+	-2.1+	-2.3+	-2.6+	-2.9+	-3.1+	-3.2+
30000	-2.1+	-2.2+	-2.4+	-2.8+	-3.2+	-3.4+	-3.5+
31000	-2.2+	-2.3+	-2.6+	-3.0+	-3.5+	-3.8+	-3.9+
32000	-2.2+	-2.4+	-2.8+	-3.3+	-3.8+	-4.2+	-4.3+
32980	-2.2+	-2.4+	-3.0+	-3.9+	-4.7+	-5.3+	-5.5+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 40° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X

PART 2b-2 TABLE K

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 50° (North)

Range Yards	Azimuth of Target - Degrees 0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
2000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
3000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
4000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
5000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
6000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
7000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
8000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
9000	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+
10000	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+
11000	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+
12000	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+
13000	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+
14000	-1.0+	-1.0+	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+
15000	-1.1+	-1.1+	-1.2+	-1.2+	-1.2+	-1.2+	-1.2+
16000	-1.2+	-1.2+	-1.3+	-1.3+	-1.3+	-1.3+	-1.3+
17000	-1.3+	-1.3+	-1.4+	-1.4+	-1.4+	-1.5+	-1.5+
18000	-1.4+	-1.4+	-1.5+	-1.5+	-1.5+	-1.6+	-1.6+
19000	-1.5+	-1.5+	-1.6+	-1.6+	-1.7+	-1.7+	-1.7+
20000	-1.6+	-1.6+	-1.7+	-1.7+	-1.8+	-1.8+	-1.9+
21000	-1.7+	-1.7+	-1.8+	-1.9+	-1.9+	-2.0+	-2.0+
22000	-1.8+	-1.9+	-1.9+	-2.0+	-2.1+	-2.1+	-2.2+
23000	-1.9+	-2.0+	-2.0+	-2.1+	-2.2+	-2.3+	-2.3+
24000	-2.0+	-2.1+	-2.2+	-2.3+	-2.4+	-2.5+	-2.5+
25000	-2.2+	-2.2+	-2.3+	-2.4+	-2.6+	-2.7+	-2.7+
26000	-2.3+	-2.3+	-2.4+	-2.6+	-2.7+	-2.8+	-2.9+
27000	-2.4+	-2.5+	-2.6+	-2.8+	-2.9+	-3.0+	-3.1+
28000	-2.5+	-2.6+	-2.7+	-2.9+	-3.1+	-3.3+	-3.4+
29000	-2.6+	-2.7+	-2.9+	-3.1+	-3.4+	-3.6+	-3.7+
30000	-2.8+	-2.9+	-3.1+	-3.4+	-3.7+	-3.9+	-4.0+
31000	-2.9+	-3.0+	-3.3+	-3.7+	-4.0+	-4.2+	-4.3+
32000	-3.0+	-3.2+	-3.5+	-3.9+	-4.3+	-4.6+	-4.8+
32980	-3.2+	-3.4+	-3.9+	-4.6+	-5.3+	-5.8+	-6.0+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 50° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

EugeneLeeSlover.com

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

FUZE, B.D., MK.X

PART 2b-2 TABLE K

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 60° (North)

Range Yards	Azimuth of Target - Degrees 0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
2000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
3000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
4000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
5000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
6000	-0.4+	-0.4+	-0.4+	-0.5+	-0.5+	-0.5+	-0.5+
7000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
8000	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+
9000	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+
10000	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+
11000	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+
12000	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+
13000	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+
14000	-1.2+	-1.2+	-1.2+	-1.2+	-1.2+	-1.3+	-1.3+
15000	-1.3+	-1.3+	-1.3+	-1.3+	-1.4+	-1.4+	-1.4+
16000	-1.4+	-1.4+	-1.4+	-1.5+	-1.5+	-1.5+	-1.5+
17000	-1.5+	-1.5+	-1.5+	-1.6+	-1.6+	-1.6+	-1.6+
18000	-1.6+	-1.6+	-1.7+	-1.7+	-1.7+	-1.8+	-1.8+
19000	-1.7+	-1.8+	-1.8+	-1.8+	-1.9+	-1.9+	-1.9+
20000	-1.9+	-1.9+	-1.9+	-2.0+	-2.0+	-2.0+	-2.1+
21000	-2.0+	-2.0+	-2.1+	-2.1+	-2.2+	-2.2+	-2.2+
22000	-2.1+	-2.1+	-2.2+	-2.3+	-2.3+	-2.4+	-2.4+
23000	-2.3+	-2.3+	-2.3+	-2.4+	-2.5+	2.5+	-2.6+
24000	-2.4+	-2.4+	-2.5+	-2.6+	-2.7+	-2.7+	-2.8+
25000	-2.5+	-2.6+	-2.6+	-2.7+	-2.8+	-2.9+	-3.0+
26000	-2.7+	-2.7+	-2.8+	-2.9+	-3.0+	-3.1+	-3.2+
27000	-2.8+	-2.9+	-3.0+	-3.1+	-3.3+	-3.4+	-3.4+
28000	-3.0+	-3.1+	-3.2+	-3.3+	-3.5+	-3.6+	-3.7+
29000	-3.1+	-3.2+	-3.4+	-3.5+	-3.7+	-3.9+	-4.0+
30000	-3.3+	-3.4+	-3.6+	-3.8+	-4.0+	-4.2+	-4.3+
31000	-3.5+	-3.6+	-3.8+	-4.1+	-4.4+	-4.6+	-4.7+
32000	-3.7+	-3.8+	-4.1+	-4.5+	-4.8+	-5.0+	-5.1+
32980	-4.1+	-4.3+	-4.7+	-5.2+	-5.7+	-6.1+	-6.3+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 60° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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FUZE, B.D., MK.X
PART 2b-2 TABLE K

SHELL, A.P., 260 LB., MK.XX
SHELL, T.P., 260 LB., MK.XVIII
SUPERCHARGE - M.V. 2750 f/s

ROTATION OF THE EARTH, DEFLECTION EFFECTS IN MILS DUE TO

Latitude 70° (North)

Range Yards	Azimuth of Target - Degrees						
	0 360	30 330	60 300	90 270	120 240	150 210	180 180
1000	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+	-0.1+
2000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
3000	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+	-0.2+
4000	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+	-0.3+
5000	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+	-0.4+
6000	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+	-0.5+
7000	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+	-0.6+
8000	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+	-0.7+
9000	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+	-0.8+
10000	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+	-0.9+
11000	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+	-1.0+
12000	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+	-1.1+
13000	-1.2+	-1.2+	-1.2+	-1.2+	-1.2+	-1.2+	-1.2+
14000	-1.3+	-1.3+	-1.3+	-1.3+	-1.3+	-1.3+	-1.3+
15000	-1.4+	-1.4+	-1.4+	-1.4+	-1.5+	-1.5+	-1.5+
16000	-1.5+	-1.5+	-1.6+	-1.6+	-1.6+	-1.6+	-1.6+
17000	-1.7+	-1.7+	-1.7+	-1.7+	-1.7+	-1.7+	-1.7+
18000	-1.8+	-1.8+	-1.8+	-1.8+	-1.9+	-1.9+	-1.9+
19000	-1.9+	-1.9+	-2.0+	-2.0+	-2.0+	-2.0+	-2.0+
20000	-2.1+	-2.1+	-2.1+	-2.1+	-2.2+	-2.2+	-2.2+
21000	-2.3+	-2.3+	-2.3+	-2.3+	-2.4+	-2.4+	-2.4+
22000	-2.4+	-2.4+	-2.5+	-2.5+	-2.6+	-2.6+	-2.6+
23000	-2.5+	-2.5+	-2.6+	-2.6+	-2.7+	-2.7+	-2.7+
24000	-2.7+	-2.7+	-2.7+	-2.8+	-2.9+	-2.9+	-2.9+
25000	-2.8+	-2.9+	-2.9+	-3.0+	-3.1+	-3.1+	-3.1+
26000	-3.0+	-3.0+	-3.1+	-3.2+	-3.3+	-3.3+	-3.3+
27000	-3.2+	-3.2+	-3.3+	-3.4+	-3.5+	-3.6+	-3.6+
28000	-3.4+	-3.4+	-3.5+	-3.6+	-3.7+	-3.8+	-3.8+
29000	-3.6+	-3.6+	-3.7+	-3.9+	-4.0+	-4.1+	-4.1+
30000	-3.8+	-3.8+	-3.9+	-4.1+	-4.3+	-4.4+	-4.4+
31000	-4.0+	-4.1+	-4.2+	-4.4+	-4.6+	-4.7+	-4.8+
32000	-4.3+	-4.4+	-4.6+	-4.8+	-5.0+	-5.2+	-5.3+
32980	-4.9+	-5.0+	-5.3+	-5.6+	-6.0+	-6.3+	-6.4+
	180 180	150 210	120 240	90 270	60 300	30 330	0 360
	Azimuth of Target - Degrees						

Latitude 70° (South)

NOTE: A negative sign means that the effect is to the right; a positive sign, to the left. For the argument at the top of the tables, use the sign that precedes the number; for the argument at the bottom, the sign that follows the number. Azimuth is measured clockwise from the North.

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TABLE FOR CALCULATING THE EQUIVALENT FULL CHARGE EROSION EFFECT OF REDUCED CHARGES

Charge	No. of Rounds Equivalent in erosion effect to one full charge	Equivalent erosion effect in decimals
Normal	7	.15
Supercharge	1	1

APPENDIX

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