

NICOM		BKG77-2						
Depression	Antenna							
Angle from	Relative	ERP	ERP	Distance to	Free Space	2.5 dB Loss	Signal	Circular
<u>Antenna</u>	<u>Field</u>	<u>Watts</u>	<u>dBk</u>	<u>from</u> <u>Antenna</u> <u>(km)</u>	<u>Signal</u> <u>(dBu)</u>	<u>for</u> <u>Reflection</u>	<u>Strength</u> <u>at Ground</u> <u>(dBu)</u>	<u>Distance</u> <u>From Tower</u> <u>(m)</u>
90	0.117	3.422	-24.66	0.0450	109.2	0	109.2	0.00
85	0.122	3.721	-24.29	0.0452	109.5	0	109.5	3.94
80	0.151	5.700	-22.44	0.0457	111.3	0	111.3	7.93
75	0.197	9.702	-20.13	0.0466	113.4	0	113.4	12.06
70	0.246	15.129	-18.20	0.0479	115.1	0	115.1	16.38
65	0.295	21.756	-16.62	0.0497	116.4	0	116.4	20.98
60	0.331	27.390	-15.62	0.0520	117.0	0	117.0	25.98
55	0.349	30.450	-15.16	0.0549	117.0	0	117.0	31.51
50	0.336	28.224	-15.49	0.0587	116.0	0	116.0	37.76
45	0.288	20.736	-16.83	0.0636	114.0	0	114.0	45.00
40	0.198	9.801	-20.09	0.0700	109.9	0	109.9	53.63
35	0.062	0.961	-30.17	0.0785	98.9	0	98.9	64.27
30	0.112	3.136	-25.04	0.0900	102.8	0	102.8	77.94
25	0.310	24.025	-16.19	0.1065	110.2	0	110.2	96.50
20	0.518	67.081	-11.73	0.1316	112.8	0	112.8	123.64
15	0.711	126.380	-8.98	0.1739	113.1	0	113.1	167.94
10	0.871	189.660	-7.22	0.2591	111.4	0	111.4	255.21
5	0.967	233.772	-6.31	0.5163	106.3	0	106.3	514.35

Distance to Ground Level assumes flat ground or a site where the ground level is above average terrain in all azimuths.

Maximum ERP	250	watts	Max dBu to Ground Level	116.98
Radiation Center AG	0.045	km		
Radiation Center AG	147.638	ft.		