

Depression	Antenna		Distance to		Signal		Signal	Circular
Angle from	Relative	ERP	ERP	Ground	Free Space	2.5 dB Loss	Strength	Distance
<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>at Ground</u> <u>(dBu)</u>	<u>From Tower</u> <u>(m)</u>
90	0.117	3.422	-24.66	0.0370	110.9	0	110.9	0.00
85	0.122	3.721	-24.29	0.0371	111.2	0	111.2	3.24
80	0.151	5.700	-22.44	0.0376	113.0	0	113.0	6.52
75	0.197	9.702	-20.13	0.0383	115.1	0	115.1	9.91
70	0.246	15.129	-18.20	0.0394	116.8	0	116.8	13.47
65	0.295	21.756	-16.62	0.0408	118.1	0	118.1	17.25
60	0.331	27.390	-15.62	0.0427	118.7	0	118.7	21.36
55	0.349	30.450	-15.16	0.0452	118.7	0	118.7	25.91
50	0.336	28.224	-15.49	0.0483	117.7	0	117.7	31.05
45	0.288	20.736	-16.83	0.0523	115.7	0	115.7	37.00
40	0.198	9.801	-20.09	0.0576	111.6	0	111.6	44.09
35	0.062	0.961	-30.17	0.0645	100.6	0	100.6	52.84
30	0.112	3.136	-25.04	0.0740	104.5	0	104.5	64.09
25	0.310	24.025	-16.19	0.0875	111.9	0	111.9	79.35
20	0.518	67.081	-11.73	0.1082	114.5	0	114.5	101.66
15	0.711	126.380	-8.98	0.1430	114.8	0	114.8	138.09
10	0.871	189.660	-7.22	0.2131	113.1	0	113.1	209.84
5	0.967	233.772	-6.31	0.4245	108.0	0	108.0	422.91

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	118.68
Radiation Center AG	0.037	km		
Radiation Center AG	121.391	ft.		