

Detail Area #1 90 degree azimuth

Freespace Interference Study for a given antenna based on Vertical Radiation Pattern

Antenna Make: PSI

Antenna Model: PSIFML-2-.9wavelength

Depression Angle from Antenna	Antenna Relative Field	ERP Watts	ERP dBk	Distance to Ground from Antenna (km)	Free Space Signal (dBu)	Circular Distance From Tower (m)
90	0.001	0.000	-87.33	0.0820	41.3	0.00
85	0.083	0.013	-48.95	0.0823	79.7	7.17
80	0.163	0.049	-43.08	0.0833	85.4	14.46
75	0.237	0.104	-39.83	0.0849	88.5	21.97
70	0.303	0.170	-37.70	0.0873	90.4	29.85
65	0.354	0.232	-36.35	0.0905	91.4	38.24
60	0.385	0.274	-35.62	0.0947	91.8	47.34
55	0.389	0.280	-35.53	0.1001	91.4	57.42
50	0.361	0.241	-36.18	0.1070	90.2	68.81
45	0.294	0.160	-37.96	0.1160	87.7	82.00
40	0.187	0.065	-41.89	0.1276	82.9	97.72
35	0.042	0.003	-54.86	0.1430	69.0	117.11
30	0.135	0.034	-44.72	0.1640	77.9	142.03
25	0.332	0.204	-36.91	0.1940	84.3	175.85
20	0.533	0.526	-32.79	0.2398	86.5	225.29
15	0.718	0.954	-30.21	0.3168	86.7	306.03
10	0.868	1.394	-28.56	0.4722	84.9	465.05
5	0.966	1.726	-27.63	0.9408	79.8	937.26

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

Maximum ERP 1.85 watts

Radiation Center AG 0.082 km

Radiation Center AG 269.029 ft.

Max dBu to Ground Level

91.78