

Detail Area #4 210 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 <u>Antenna</u>	Antenna Relative <u>Field</u>	ERP <u>Watts</u>	ERP <u>dBk</u>	Distance to Ground from <u>Antenna (km)</u>	Free Space <u>Signal (dBu)</u>	Circular Distance <u>From Tower (m)</u>
90	0.001	0.000	-81.47	0.0820	47.2	0.00
85	0.083	0.049	-43.09	0.0823	85.5	7.17
80	0.163	0.189	-37.23	0.0833	91.3	14.46
75	0.237	0.400	-33.97	0.0849	94.4	21.97
70	0.303	0.655	-31.84	0.0873	96.3	29.85
65	0.354	0.894	-30.49	0.0905	97.3	38.24
60	0.385	1.057	-29.76	0.0947	97.6	47.34
55	0.389	1.079	-29.67	0.1001	97.2	57.42
50	0.361	0.929	-30.32	0.1070	96.0	68.81
45	0.294	0.616	-32.10	0.1160	93.5	82.00
40	0.187	0.249	-36.03	0.1276	88.8	97.72
35	0.042	0.013	-49.00	0.1430	74.8	117.11
30	0.135	0.130	-38.86	0.1640	83.8	142.03
25	0.332	0.786	-31.05	0.1940	90.1	175.85
20	0.533	2.026	-26.93	0.2398	92.4	225.29
15	0.718	3.676	-24.35	0.3168	92.6	306.03
10	0.868	5.372	-22.70	0.4722	90.7	465.05
5	0.966	6.653	-21.77	0.9408	85.7	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 7.13 watts

Radiation Center AG 0.082 km

Radiation Center AG 269.029 ft.

Max dBu to Ground Level

97.63