

## Bridgelight LLC - W220AA, Parlin, NJ

### Freospace Interference Study for a given antenna based on Vertical Radiation Pattern

Antenna Make: Scala

Antenna Model: CA2-FM/CP

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	0.030	0.009	-50.46	0.0570	81.34	0.00
85	0.032	0.010	-49.90	0.0572	81.87	4.99
80	0.045	0.020	-46.94	0.0579	84.73	10.05
75	0.095	0.090	-40.45	0.0590	91.06	15.27
70	0.187	0.350	-34.56	0.0607	96.70	20.75
65	0.292	0.853	-30.69	0.0629	100.26	26.58
60	0.388	1.505	-28.22	0.0658	102.33	32.91
55	0.487	2.372	-26.25	0.0696	103.82	39.91
50	0.570	3.249	-24.88	0.0744	104.61	47.83
45	0.647	4.186	-23.78	0.0806	105.01	57.00
40	0.715	5.112	-22.91	0.0887	105.05	67.93
35	0.772	5.960	-22.25	0.0994	104.73	81.40
30	0.829	6.872	-21.63	0.1140	104.15	98.73
25	0.877	7.691	-21.14	0.1349	103.18	122.24
20	0.920	8.464	-20.72	0.1667	101.76	156.61
15	0.952	9.063	-20.43	0.2202	99.64	212.73
10	0.979	9.584	-20.18	0.3282	96.41	323.26
5	0.990	9.801	-20.09	0.6540	90.52	651.51

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

Maximum ERP	10 watts
Radiation Center AG	0.057 km
Radiation Center AG	187.008 ft.
105.3 dBu contour using Vertical Radiation Pattern Does Not Reach the Ground	