

## 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	0.005	-52.68	0.0570	79.13	0.00
85	0.032	0.006	-52.12	0.0572	79.65	4.99
80	0.045	0.012	-49.15	0.0579	82.52	10.05
75	0.095	0.054	-42.66	0.0590	88.84	15.27
70	0.187	0.210	-36.78	0.0607	94.48	20.75
65	0.292	0.512	-32.91	0.0629	98.04	26.58
60	0.388	0.903	-30.44	0.0658	100.11	32.91
55	0.487	1.423	-28.47	0.0696	101.60	39.91
50	0.570	1.949	-27.10	0.0744	102.39	47.83
45	0.647	2.512	-26.00	0.0806	102.79	57.00
40	0.715	3.067	-25.13	0.0887	102.83	67.93
35	0.772	3.576	-24.47	0.0994	102.51	81.40
30	0.829	4.123	-23.85	0.1140	101.93	98.73
25	0.877	4.615	-23.36	0.1349	100.96	122.24
20	0.920	5.078	-22.94	0.1667	99.54	156.61
15	0.952	5.438	-22.65	0.2202	97.42	212.73
10	0.979	5.751	-22.40	0.3282	94.19	323.26
5	0.990	5.881	-22.31	0.6540	88.30	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

6 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