

BEACON BROADCASTING CORPORATION EXHIBIT 12, TABLE 1

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

Antenna Make: SHI

Antenna Model: Series 6812-2-SS 2-bay Half wave spaced

Depression Angle from Antenna	Antenna Relative Field	ERP Watts	ERP dBr	Distance to		Free Space Signal (dBu)	2.5 dB Loss for Reflection	Signal Strength at Ground (dBu)	Circular Distance	
				Ground from Antenna (km)	Antenna (km)				From Tower (m)	From Tower (m)
90	0.001	0.000	-71.87	0.0360	0.0360	63.92	2.5	61.42	0.00	0.00
85	0.001	0.000	-71.87	0.0361	0.0361	63.89	2.5	61.39	3.15	3.15
80	0.004	0.001	-59.83	0.0366	0.0366	75.83	2.5	73.33	6.35	6.35
75	0.014	0.013	-48.95	0.0373	0.0373	86.54	2.5	84.04	9.65	9.65
70	0.032	0.067	-41.77	0.0383	0.0383	93.49	2.5	90.99	13.10	13.10
65	0.062	0.250	-36.02	0.0397	0.0397	98.92	2.5	96.42	16.79	16.79
60	0.104	0.703	-31.53	0.0416	0.0416	103.01	2.5	100.51	20.78	20.78
55	0.161	1.685	-27.73	0.0439	0.0439	106.33	2.5	103.83	25.21	25.21
50	0.231	3.468	-24.60	0.0470	0.0470	108.88	2.5	106.38	30.21	30.21
45	0.314	6.408	-21.93	0.0509	0.0509	110.85	2.5	108.35	36.00	36.00
40	0.408	10.820	-19.66	0.0560	0.0560	112.30	2.5	109.80	42.90	42.90
35	0.508	16.774	-17.75	0.0628	0.0628	113.21	2.5	110.71	51.41	51.41
30	0.612	24.345	-16.14	0.0720	0.0720	113.64	2.5	111.14	62.35	62.35
25	0.714	33.137	-14.80	0.0852	0.0852	113.52	2.5	111.02	77.20	77.20
20	0.807	42.331	-13.73	0.1053	0.1053	112.74	2.5	110.24	98.91	98.91
15	0.887	51.140	-12.91	0.1391	0.1391	111.14	2.5	108.64	134.35	134.35
10	0.948	58.416	-12.33	0.2073	0.2073	108.25	2.5	105.75	204.17	204.17
7	0.972	61.411	-12.12	0.2954	0.2954	105.39	2.5	102.89	293.20	293.20
6.5	0.976	61.917	-12.08	0.3180	0.3180	104.79	2.5	102.29	315.97	315.97
5	0.987	63.321	-11.98	0.4131	0.4131	102.62	2.5	100.12	411.48	411.48

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

Maximum ERP	65 watts	Max dBu to Ground Level	111.14
Radiation Center AG	0.036 km		
Radiation Center AG	118.110 ft.		