

Proposed Antenna: Shively Labs 6014, 6510, 6513, 6600 and 68xx-series 6-Bay 1/2 wave spaced.

Proposed Power: 0.045 kW

Antenna Height AGL: 45 meters

Interference Contour: 101.4 dBu

Artificial Rcv Antenna Height: 2 meters

Fill in
"yellow" cells

Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$

Field Strength (dBu) Equation $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$

Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interf	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	0.995	0.045	-13.51	398.50 m	infinite	---	infinite	---
-5°	0.891	0.036	-14.47	356.85 m	493.37 m	98.59 dBu	516.32 m	98.19 dBu
-10°	0.610	0.017	-17.76	244.31 m	247.63 m	101.20 dBu	259.14 m	100.89 dBu
-15°	0.266	0.003	-24.97	106.53 m	166.14 m	97.54 dBu	173.87 m	97.15 dBu
-20°	0.023	0.000	-46.23	9.21 m	125.72 m	78.70 dBu	131.57 m	78.30 dBu
-25°	0.182	0.001	-28.27	72.89 m	101.75 m	98.50 dBu	106.48 m	98.11 dBu
-30°	0.206	0.002	-27.19	82.50 m	86.00 m	101.04 dBu	90.00 m	100.64 dBu
-35°	0.137	0.001	-30.73	54.87 m	74.97 m	98.69 dBu	78.46 m	98.29 dBu
-40°	0.036	0.000	-42.34	14.42 m	66.90 m	88.07 dBu	70.01 m	87.68 dBu
-45°	0.048	0.000	-39.84	19.22 m	60.81 m	91.40 dBu	63.64 m	91.00 dBu
-50°	0.093	0.000	-34.10	37.25 m	56.13 m	97.84 dBu	58.74 m	97.44 dBu
-55°	0.101	0.000	-33.38	40.45 m	52.49 m	99.14 dBu	54.93 m	98.74 dBu
-60°	0.084	0.000	-34.98	33.64 m	49.65 m	98.02 dBu	51.96 m	97.62 dBu
-65°	0.058	0.000	-38.20	23.23 m	47.45 m	95.20 dBu	49.65 m	94.80 dBu
-70°	0.033	0.000	-43.10	13.22 m	45.76 m	90.61 dBu	47.89 m	90.22 dBu
-75°	0.015	0.000	-49.95	6.01 m	44.52 m	84.00 dBu	46.59 m	83.61 dBu
-80°	0.005	0.000	-59.49	2.00 m	43.66 m	74.63 dBu	45.69 m	74.23 dBu
-85°	0.001	0.000	-73.47	0.40 m	43.16 m	60.75 dBu	45.17 m	60.35 dBu
-90°	0.001	0.000	-73.47	0.40 m	43.00 m	60.78 dBu	45.00 m	60.39 dBu