

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

Proposed Power: 0.057 kW

Antenna Height AGL: 44 meters

Interference Contour: 102.4 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	0.056	-12.48	399.72 m	infinite	---	infinite	---
-5°	0.891	0.045	-13.44	357.94 m	481.90 m	99.82 dBu	504.84 m	99.41 dBu
-10°	0.610	0.021	-16.73	245.06 m	241.87 m	100.70 dBu	253.39 m	102.11 dBu
-15°	0.266	0.004	-23.94	106.86 m	162.28 m	98.77 dBu	170.00 m	98.37 dBu
-20°	0.023	0.000	-45.21	9.24 m	122.80 m	79.93 dBu	128.65 m	79.53 dBu
-25°	0.182	0.002	-27.24	73.12 m	99.38 m	99.73 dBu	104.11 m	99.33 dBu
-30°	0.206	0.002	-26.16	82.76 m	84.00 m	102.27 dBu	88.00 m	101.87 dBu
-35°	0.137	0.001	-29.71	55.04 m	73.22 m	99.92 dBu	76.71 m	99.52 dBu
-40°	0.036	0.000	-41.32	14.46 m	65.34 m	89.30 dBu	68.45 m	88.90 dBu
-45°	0.048	0.000	-38.82	19.28 m	59.40 m	92.63 dBu	62.23 m	92.22 dBu
-50°	0.093	0.000	-33.07	37.36 m	54.83 m	99.07 dBu	57.44 m	98.66 dBu
-55°	0.101	0.001	-32.35	40.58 m	51.27 m	100.37 dBu	53.71 m	99.96 dBu
-60°	0.084	0.000	-33.96	33.75 m	48.50 m	99.25 dBu	50.81 m	98.85 dBu
-65°	0.058	0.000	-37.17	23.30 m	46.34 m	96.43 dBu	48.55 m	96.02 dBu
-70°	0.033	0.000	-42.07	13.26 m	44.70 m	91.84 dBu	46.82 m	91.44 dBu
-75°	0.015	0.000	-48.92	6.03 m	43.48 m	85.23 dBu	45.55 m	84.83 dBu
-80°	0.005	0.000	-58.46	2.01 m	42.65 m	75.86 dBu	44.68 m	75.46 dBu
-85°	0.001	0.000	-72.44	0.40 m	42.16 m	61.98 dBu	44.17 m	61.58 dBu
-90°	0.001	0.000	-72.44	0.40 m	42.00 m	62.01 dBu	44.00 m	61.61 dBu