

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

**Proposed Power:** 0.042 kW

**Antenna Distance to population:** 130 meters

**Interference Contour:** 101 dBu

**Artificial Rcv Antenna Height:** 2 meters

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

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

Fill in  
"yellow" cells

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°	0.999	0.042	-13.78	404.75 m	infinite	---	infinite	---
-5°	0.987	0.041	-13.88	399.89 m	1468.64 m	89.70 dBu	1491.58 m	89.57 dBu
-10°	0.949	0.038	-14.22	384.50 m	737.12 m	95.35 dBu	748.64 m	95.21 dBu
-15°	0.889	0.033	-14.79	360.19 m	494.55 m	98.25 dBu	502.28 m	98.11 dBu
-20°	0.810	0.028	-15.60	328.18 m	374.25 m	99.86 dBu	380.09 m	99.72 dBu
-25°	0.718	0.022	-16.65	290.90 m	302.87 m	100.65 dBu	307.61 m	100.52 dBu
-30°	0.617	0.016	-17.96	249.98 m	256.00 m	100.79 dBu	260.00 m	100.66 dBu
-35°	0.514	0.011	-19.55	208.25 m	223.16 m	100.40 dBu	226.65 m	100.26 dBu
-40°	0.414	0.007	-21.43	167.74 m	199.13 m	99.51 dBu	202.24 m	99.37 dBu
-45°	0.320	0.004	-23.66	129.65 m	181.02 m	98.10 dBu	183.85 m	97.97 dBu
-50°	0.237	0.002	-26.27	96.02 m	167.09 m	96.19 dBu	169.70 m	96.05 dBu
-55°	0.166	0.001	-29.37	67.26 m	156.26 m	93.68 dBu	158.70 m	93.54 dBu
-60°	0.109	0.000	-33.02	44.16 m	147.80 m	90.51 dBu	150.11 m	90.37 dBu
-65°	0.066	0.000	-37.38	26.74 m	141.23 m	86.54 dBu	143.44 m	86.41 dBu
-70°	0.035	0.000	-42.89	14.18 m	136.21 m	81.35 dBu	138.34 m	81.21 dBu
-75°	0.016	0.000	-49.69	6.48 m	132.52 m	74.79 dBu	134.59 m	74.65 dBu
-80°	0.005	0.000	-59.79	2.03 m	129.97 m	64.85 dBu	132.01 m	64.72 dBu
-85°	0.001	0.000	-73.77	0.41 m	128.49 m	50.98 dBu	130.50 m	50.84 dBu
-90°	0.001	0.000	-73.77	0.41 m	128.00 m	51.01 dBu	130.00 m	50.87 dBu

