

Proposed Antenna: Shively Labs 6014, 6510, 6513, 6600 and 68xx-series 5-Bay 1/2 wave spaced.

Proposed Power: 0.25 kW

Antenna Height AGL: 149 meters

Interference Contour: 100.7 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 Strengt	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°	0.997	0.249	-6.05	1012.00 m	infinite	---	infinite	---
-5°	0.924	0.213	-6.71	945.46 m	1686.00 m	95.68 dBu	1709.58 m	95.56 dBu
-10°	0.717	0.129	-8.91	733.65 m	846.54 m	99.46 dBu	858.06 m	99.34 dBu
-15°	0.440	0.048	-13.15	450.22 m	567.96 m	98.68 dBu	575.69 m	98.56 dBu
-20°	0.165	0.007	-21.67	168.83 m	429.80 m	92.58 dBu	435.65 m	92.47 dBu
-25°	0.050	0.001	-32.04	51.16 m	347.83 m	84.05 dBu	352.56 m	83.93 dBu
-30°	0.173	0.007	-21.26	177.02 m	294.00 m	96.29 dBu	298.00 m	96.18 dBu
-35°	0.206	0.011	-19.74	210.78 m	256.29 m	99.00 dBu	259.77 m	98.88 dBu
-40°	0.174	0.008	-21.21	178.04 m	228.69 m	98.53 dBu	231.80 m	98.41 dBu
-45°	0.109	0.003	-25.27	111.53 m	207.89 m	95.29 dBu	210.72 m	95.17 dBu
-50°	0.039	0.000	-34.20	39.91 m	191.89 m	87.06 dBu	194.51 m	86.94 dBu
-55°	0.016	0.000	-41.94	16.37 m	179.45 m	79.90 dBu	181.90 m	79.79 dBu
-60°	0.051	0.001	-31.87	52.18 m	169.74 m	90.46 dBu	172.05 m	90.34 dBu
-65°	0.064	0.001	-29.90	65.49 m	162.20 m	92.82 dBu	164.40 m	92.70 dBu
-70°	0.063	0.001	-30.03	64.46 m	156.43 m	93.00 dBu	158.56 m	92.88 dBu
-75°	0.052	0.001	-31.70	53.21 m	152.19 m	91.57 dBu	154.26 m	91.45 dBu
-80°	0.037	0.000	-34.66	37.86 m	149.27 m	88.78 dBu	151.30 m	88.67 dBu
-85°	0.019	0.000	-40.45	19.44 m	147.56 m	83.10 dBu	149.57 m	82.98 dBu
-90°	0.001	0.000	-66.02	1.02 m	147.00 m	57.55 dBu	149.00 m	57.44 dBu