

Proposed Antenna: Shively Labs 6014, 6510, 6513, 6600 and 68xx-series 4-Bay 1/2 wave spaced.

Proposed Power: 0.031 kW

Antenna Height AGL: 55 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°	0.998	0.031	-15.10	331.75 m	infinite	---	infinite	---
-5°	0.950	0.028	-15.53	315.79 m	608.11 m	95.71 dBu	631.05 m	95.39 dBu
-10°	0.812	0.020	-16.90	269.92 m	305.21 m	100.33 dBu	316.73 m	100.01 dBu
-15°	0.612	0.012	-19.35	203.44 m	204.78 m	101.34 dBu	212.50 m	101.02 dBu
-20°	0.388	0.005	-23.31	128.98 m	154.96 m	99.81 dBu	160.81 m	99.48 dBu
-25°	0.175	0.001	-30.23	58.17 m	125.41 m	94.73 dBu	130.14 m	94.41 dBu
-30°	0.003	0.000	-65.54	1.00 m	106.00 m	60.87 dBu	110.00 m	60.55 dBu
-35°	0.115	0.000	-33.87	38.23 m	92.40 m	93.73 dBu	95.89 m	93.41 dBu
-40°	0.177	0.001	-30.13	58.84 m	82.45 m	98.47 dBu	85.56 m	98.15 dBu
-45°	0.192	0.001	-29.42	63.82 m	74.95 m	100.00 dBu	77.78 m	99.68 dBu
-50°	0.175	0.001	-30.23	58.17 m	69.19 m	99.89 dBu	71.80 m	99.57 dBu
-55°	0.140	0.001	-32.16	46.54 m	64.70 m	98.54 dBu	67.14 m	98.22 dBu
-60°	0.099	0.000	-35.17	32.91 m	61.20 m	96.01 dBu	63.51 m	95.69 dBu
-65°	0.063	0.000	-39.10	20.94 m	58.48 m	92.48 dBu	60.69 m	92.16 dBu
-70°	0.034	0.000	-44.46	11.30 m	56.40 m	87.44 dBu	58.53 m	87.12 dBu
-75°	0.016	0.000	-51.00	5.32 m	54.87 m	81.13 dBu	56.94 m	80.81 dBu
-80°	0.005	0.000	-61.11	1.66 m	53.82 m	71.19 dBu	55.85 m	70.87 dBu
-85°	0.001	0.000	-75.09	0.33 m	53.20 m	57.31 dBu	55.21 m	56.99 dBu
-90°	0.001	0.000	-75.09	0.33 m	53.00 m	57.35 dBu	55.00 m	57.03 dBu