

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

Proposed Power: 0.17 kW

Antenna Height AGL: 104 meters

Interference Contour: 104 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	0.169	-7.71	575.91 m	infinite	---	infinite	---
-5°	0.950	0.153	-8.14	548.21 m	1170.32 m	97.41 dBu	1193.27 m	97.24 dBu
-10°	0.812	0.112	-9.50	468.58 m	587.39 m	102.04 dBu	598.91 m	101.87 dBu
-15°	0.612	0.064	-11.96	353.16 m	394.10 m	103.05 dBu	401.83 m	102.88 dBu
-20°	0.388	0.026	-15.92	223.90 m	298.23 m	101.51 dBu	304.08 m	101.34 dBu
-25°	0.175	0.005	-22.83	100.99 m	241.35 m	96.43 dBu	246.08 m	96.26 dBu
-30°	0.003	0.000	-58.15	1.73 m	204.00 m	62.57 dBu	208.00 m	62.41 dBu
-35°	0.115	0.002	-26.48	66.36 m	177.83 m	95.44 dBu	181.32 m	95.27 dBu
-40°	0.177	0.005	-22.74	102.14 m	158.68 m	100.17 dBu	161.80 m	100.00 dBu
-45°	0.192	0.006	-22.03	110.80 m	144.25 m	101.71 dBu	147.08 m	101.54 dBu
-50°	0.175	0.005	-22.83	100.99 m	133.15 m	101.60 dBu	135.76 m	101.43 dBu
-55°	0.140	0.003	-24.77	80.79 m	124.52 m	100.24 dBu	126.96 m	100.07 dBu
-60°	0.099	0.002	-27.78	57.13 m	117.78 m	97.72 dBu	120.09 m	97.55 dBu
-65°	0.063	0.001	-31.71	36.36 m	112.54 m	94.18 dBu	114.75 m	94.02 dBu
-70°	0.034	0.000	-37.07	19.62 m	108.55 m	89.14 dBu	110.67 m	88.97 dBu
-75°	0.016	0.000	-43.61	9.23 m	105.60 m	82.83 dBu	107.67 m	82.67 dBu
-80°	0.005	0.000	-53.72	2.89 m	103.57 m	72.90 dBu	105.60 m	72.73 dBu
-85°	0.001	0.000	-67.70	0.58 m	102.39 m	59.02 dBu	104.40 m	58.85 dBu
-90°	0.001	0.000	-67.70	0.58 m	102.00 m	59.05 dBu	104.00 m	58.88 dBu