

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

Proposed Power: 0.25 kW

Antenna Height AGL: 104

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	0.249	-6.04	698.39 m	infinite	---	infinite	---
-5°	0.950	0.226	-6.47	664.80 m	1170.32 m	99.09 dBu	1193.27 m	98.92 dBu
-10°	0.812	0.165	-7.83	568.23 m	587.39 m	103.71 dBu	598.91 m	103.54 dBu
-15°	0.612	0.074	-11.31	380.73 m	394.10 m	103.70 dBu	401.83 m	103.53 dBu
-20°	0.388	0.038	-14.24	271.52 m	298.23 m	103.19 dBu	304.08 m	103.02 dBu
-25°	0.175	0.008	-21.16	122.46 m	241.35 m	98.11 dBu	246.08 m	97.94 dBu
-30°	0.003	0.000	-56.48	2.10 m	204.00 m	64.25 dBu	208.00 m	64.08 dBu
-35°	0.115	0.003	-24.81	80.48 m	177.83 m	97.11 dBu	181.32 m	96.94 dBu
-40°	0.177	0.008	-21.06	123.86 m	158.68 m	101.85 dBu	161.80 m	101.68 dBu
-45°	0.192	0.009	-20.35	134.36 m	144.25 m	103.38 dBu	147.08 m	103.21 dBu
-50°	0.175	0.008	-21.16	122.46 m	133.15 m	103.27 dBu	135.76 m	103.10 dBu
-55°	0.140	0.005	-23.10	97.97 m	124.52 m	101.92 dBu	126.96 m	101.75 dBu
-60°	0.099	0.002	-26.11	69.28 m	117.78 m	99.39 dBu	120.09 m	99.22 dBu
-65°	0.063	0.001	-30.03	44.09 m	112.54 m	95.86 dBu	114.75 m	95.69 dBu
-70°	0.034	0.000	-35.39	23.79 m	108.55 m	90.82 dBu	110.67 m	90.65 dBu
-75°	0.016	0.000	-41.94	11.20 m	105.60 m	84.51 dBu	107.67 m	84.34 dBu
-80°	0.005	0.000	-52.04	3.50 m	103.57 m	74.57 dBu	105.60 m	74.41 dBu
-85°	0.001	0.000	-66.02	0.70 m	102.39 m	60.69 dBu	104.40 m	60.53 dBu
-90°	0.001	0.000	-66.02	0.70 m	102.00 m	60.73 dBu	104.00 m	60.56 dBu