

**Proposed Antenna:** SHIVELY LABS 6812 FW DA 3 BAY

**Proposed Power:** 0.01 kW

**Antenna Height AGL:** 20 meters

**Interference Contour:** 106.6 dBu

**Artificial Rcv Antenna Height:** 0 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°	0.997	0.010	-20.03	103.44 m	infinite	---	infinite	---
-5°	0.926	0.009	-20.67	96.08 m	229.47 m	99.04 dBu	229.47 m	99.04 dBu
-10°	0.771	0.006	-22.26	79.99 m	115.18 m	103.43 dBu	115.18 m	103.43 dBu
-15°	0.443	0.002	-27.07	45.96 m	77.27 m	102.09 dBu	77.27 m	102.09 dBu
-20°	0.155	0.000	-36.19	16.08 m	58.48 m	95.39 dBu	58.48 m	95.39 dBu
-25°	0.081	0.000	-41.83	8.40 m	47.32 m	91.59 dBu	47.32 m	91.59 dBu
-30°	0.227	0.001	-32.88	23.55 m	40.00 m	102.00 dBu	40.00 m	102.00 dBu
-35°	0.274	0.001	-31.24	28.43 m	34.87 m	104.83 dBu	34.87 m	104.83 dBu
-40°	0.236	0.001	-32.54	24.49 m	31.11 m	104.52 dBu	31.11 m	104.52 dBu
-45°	0.146	0.000	-36.71	15.15 m	28.28 m	101.18 dBu	28.28 m	101.18 dBu
-50°	0.036	0.000	-48.87	3.74 m	26.11 m	89.71 dBu	26.11 m	89.71 dBu
-55°	0.066	0.000	-43.61	6.85 m	24.42 m	95.56 dBu	24.42 m	95.56 dBu
-60°	0.141	0.000	-37.02	14.63 m	23.09 m	102.63 dBu	23.09 m	102.63 dBu
-65°	0.183	0.000	-34.75	18.99 m	22.07 m	105.29 dBu	22.07 m	105.29 dBu
-70°	0.191	0.000	-34.38	19.82 m	21.28 m	105.98 dBu	21.28 m	105.98 dBu
-75°	0.170	0.000	-35.39	17.64 m	20.71 m	105.21 dBu	20.71 m	105.21 dBu
-80°	0.127	0.000	-37.92	13.18 m	20.31 m	102.84 dBu	20.31 m	102.84 dBu
-85°	0.069	0.000	-43.22	7.16 m	20.08 m	97.64 dBu	20.08 m	97.64 dBu
-90°	0.001	0.000	-80.00	0.10 m	20.00 m	60.90 dBu	20.00 m	60.90 dBu