

Proposed Antenna: Scala CA-2

Proposed Power: 0.099 kW

Antenna Height AGL: 14 meters

Interference Contour: 127 dBu f(50:10)

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°	1.000	0.099	-10.04	31.18 m	infinite	---	infinite	---
-5°	0.982	0.095	-10.20	30.61 m	137.68 m	113.94 dBu	160.63 m	112.60 dBu
-10°	0.952	0.090	-10.47	29.68 m	69.11 m	119.66 dBu	80.62 m	118.32 dBu
-15°	0.915	0.083	-10.82	28.53 m	46.36 m	122.78 dBu	54.09 m	121.44 dBu
-20°	0.866	0.074	-11.29	27.00 m	35.09 m	124.72 dBu	40.93 m	123.39 dBu
-25°	0.796	0.063	-12.03	24.82 m	28.39 m	100.64 dBu	33.13 m	124.49 dBu
-30°	0.700	0.049	-13.14	21.82 m	24.00 m	126.17 dBu	28.00 m	100.91 dBu
-35°	0.628	0.039	-14.08	19.58 m	20.92 m	126.42 dBu	24.41 m	125.08 dBu
-40°	0.528	0.028	-15.59	16.46 m	18.67 m	125.91 dBu	21.78 m	124.57 dBu
-45°	0.423	0.018	-17.52	13.19 m	16.97 m	124.81 dBu	19.80 m	123.47 dBu
-50°	0.329	0.011	-19.70	10.26 m	15.66 m	123.32 dBu	18.28 m	121.98 dBu
-55°	0.247	0.006	-22.19	7.70 m	14.65 m	121.41 dBu	17.09 m	120.08 dBu
-60°	0.190	0.004	-24.47	5.92 m	13.86 m	119.62 dBu	16.17 m	118.28 dBu
-65°	0.142	0.002	-27.00	4.43 m	13.24 m	117.48 dBu	15.45 m	116.15 dBu
-70°	0.134	0.002	-27.50	4.18 m	12.77 m	117.29 dBu	14.90 m	115.96 dBu
-75°	0.135	0.002	-27.44	4.21 m	12.42 m	117.60 dBu	14.49 m	116.26 dBu
-80°	0.142	0.002	-27.00	4.43 m	12.19 m	118.21 dBu	14.22 m	116.87 dBu
-85°	0.150	0.002	-26.52	4.68 m	12.05 m	118.78 dBu	14.05 m	117.44 dBu
-90°	0.157	0.002	-26.13	4.89 m	12.00 m	119.21 dBu	14.00 m	117.87 dBu

