

Proposed Antenna: Scala CA-2

Proposed Power: 0.099 kW

Antenna Height AGL: 20 meters

Interference Contour: 137 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	9.86 m	infinite	---	infinite	---
-5°	0.982	0.095	-10.20	9.68 m	206.53 m	110.42 dBu	229.47 m	109.50 dBu
-10°	0.952	0.090	-10.47	9.39 m	103.66 m	116.14 dBu	115.18 m	115.22 dBu
-15°	0.915	0.083	-10.82	9.02 m	69.55 m	119.26 dBu	77.27 m	118.34 dBu
-20°	0.866	0.074	-11.29	8.54 m	52.63 m	121.20 dBu	58.48 m	120.29 dBu
-25°	0.796	0.063	-12.03	7.85 m	42.59 m	122.31 dBu	47.32 m	121.39 dBu
-30°	0.700	0.049	-13.14	6.90 m	36.00 m	122.65 dBu	40.00 m	121.74 dBu
-35°	0.628	0.039	-14.08	6.19 m	31.38 m	122.90 dBu	34.87 m	121.99 dBu
-40°	0.528	0.028	-15.59	5.21 m	28.00 m	122.38 dBu	31.11 m	121.47 dBu
-45°	0.423	0.018	-17.52	4.17 m	25.46 m	121.29 dBu	28.28 m	120.37 dBu
-50°	0.329	0.011	-19.70	3.24 m	23.50 m	119.80 dBu	26.11 m	118.88 dBu
-55°	0.247	0.006	-22.19	2.44 m	21.97 m	117.89 dBu	24.42 m	116.98 dBu
-60°	0.190	0.004	-24.47	1.87 m	20.78 m	116.10 dBu	23.09 m	115.18 dBu
-65°	0.142	0.002	-27.00	1.40 m	19.86 m	113.96 dBu	22.07 m	113.05 dBu
-70°	0.134	0.002	-27.50	1.32 m	19.16 m	113.77 dBu	21.28 m	112.86 dBu
-75°	0.135	0.002	-27.44	1.33 m	18.63 m	114.08 dBu	20.71 m	113.16 dBu
-80°	0.142	0.002	-27.00	1.40 m	18.28 m	114.68 dBu	20.31 m	113.77 dBu
-85°	0.150	0.002	-26.52	1.48 m	18.07 m	115.26 dBu	20.08 m	114.34 dBu
-90°	0.157	0.002	-26.13	1.55 m	18.00 m	115.69 dBu	20.00 m	114.77 dBu

