

Proposed Antenna: Scala CL-FM V Pol

Proposed Power: 0.09 kW

Antenna Height AGL: 31 meters

Interference Contour: 108 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
Below	Relative	ERP	ERP	to Interf	from Ant. to	in dBu @	from Ant.
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level
0°	1.000	0.090	-10.46	264.92 m	infinite	---	infinite
-5°	0.884	0.070	-11.53	234.19 m	332.74 m	104.95 dBu	355.69 m
-10°	0.609	0.033	-14.77	161.34 m	167.00 m	107.70 dBu	178.52 m
-15°	0.265	0.006	-21.99	70.20 m	112.05 m	103.94 dBu	119.77 m
-20°	0.025	0.000	-42.50	6.62 m	84.79 m	85.85 dBu	90.64 m
-25°	0.188	0.003	-24.97	49.81 m	68.62 m	105.22 dBu	73.35 m
-30°	0.215	0.004	-23.81	56.96 m	58.00 m	107.84 dBu	62.00 m
-35°	0.148	0.002	-27.05	39.21 m	50.56 m	105.79 dBu	54.05 m
-40°	0.039	0.000	-38.64	10.33 m	45.12 m	95.20 dBu	48.23 m
-45°	0.056	0.000	-35.49	14.84 m	41.01 m	99.17 dBu	43.84 m
-50°	0.100	0.001	-30.46	26.49 m	37.86 m	104.90 dBu	40.47 m
-55°	0.095	0.001	-30.90	25.17 m	35.40 m	105.04 dBu	37.84 m
-60°	0.066	0.000	-34.07	17.48 m	33.49 m	102.36 dBu	35.80 m
-65°	0.040	0.000	-38.42	10.60 m	32.00 m	98.40 dBu	34.20 m
-70°	0.019	0.000	-44.88	5.03 m	30.86 m	92.25 dBu	32.99 m
-75°	0.010	0.000	-50.46	2.65 m	30.02 m	86.91 dBu	32.09 m
-80°	0.010	0.000	-50.46	2.65 m	29.45 m	87.08 dBu	31.48 m
-85°	0.010	0.000	-50.46	2.65 m	29.11 m	87.18 dBu	31.12 m
-90°	0.010	0.000	-50.46	2.65 m	29.00 m	87.21 dBu	31.00 m



Field Strength
in dBu @
Ground Level

104.37 dBu
107.12 dBu
103.36 dBu
85.28 dBu
104.64 dBu
107.26 dBu
105.21 dBu
94.62 dBu
98.59 dBu
104.32 dBu
104.46 dBu
101.78 dBu
97.82 dBu
91.67 dBu
86.33 dBu
86.50 dBu
86.60 dBu
86.64 dBu