

**Proposed Antenna:** Nicom BKG77 2-Bay 1/2 wave spaced.

**Proposed Power:** 0.099 kW

**Antenna Height AGL:** 165 meters

**Interference Contour:** 125 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°	1.000	0.099	-10.04	39.25 m	infinite	---	infinite	---
-5°	0.988	0.097	-10.15	38.78 m	1893.16 m	91.23 dBu	1893.16 m	91.23 dBu
-10°	0.947	0.089	-10.52	37.17 m	950.20 m	96.85 dBu	950.20 m	96.85 dBu
-15°	0.871	0.075	-11.24	34.19 m	637.51 m	99.59 dBu	637.51 m	99.59 dBu
-20°	0.792	0.062	-12.07	31.08 m	482.43 m	101.18 dBu	482.43 m	101.18 dBu
-25°	0.682	0.046	-13.37	26.77 m	390.42 m	101.72 dBu	390.42 m	101.72 dBu
-30°	0.565	0.032	-15.00	22.18 m	330.00 m	101.55 dBu	330.00 m	101.55 dBu
-35°	0.496	0.024	-16.13	19.47 m	287.67 m	101.61 dBu	287.67 m	101.61 dBu
-40°	0.376	0.014	-18.54	14.76 m	256.69 m	100.19 dBu	256.69 m	100.19 dBu
-45°	0.273	0.007	-21.32	10.71 m	233.35 m	98.24 dBu	233.35 m	98.24 dBu
-50°	0.188	0.003	-24.56	7.38 m	215.39 m	95.69 dBu	215.39 m	95.69 dBu
-55°	0.131	0.002	-27.70	5.14 m	201.43 m	93.14 dBu	201.43 m	93.14 dBu
-60°	0.079	0.001	-32.09	3.10 m	190.53 m	89.23 dBu	190.53 m	89.23 dBu
-65°	0.047	0.000	-36.60	1.84 m	182.06 m	85.11 dBu	182.06 m	85.11 dBu
-70°	0.022	0.000	-43.20	0.86 m	175.59 m	78.83 dBu	175.59 m	78.83 dBu
-75°	0.010	0.000	-50.04	0.39 m	170.82 m	72.23 dBu	170.82 m	72.23 dBu
-80°	0.003	0.000	-60.50	0.12 m	167.55 m	61.94 dBu	167.55 m	61.94 dBu
-85°	0.001	0.000	-70.04	0.04 m	165.63 m	52.49 dBu	165.63 m	52.49 dBu
-90°	0.001	0.000	-70.04	0.04 m	165.00 m	52.53 dBu	165.00 m	52.53 dBu