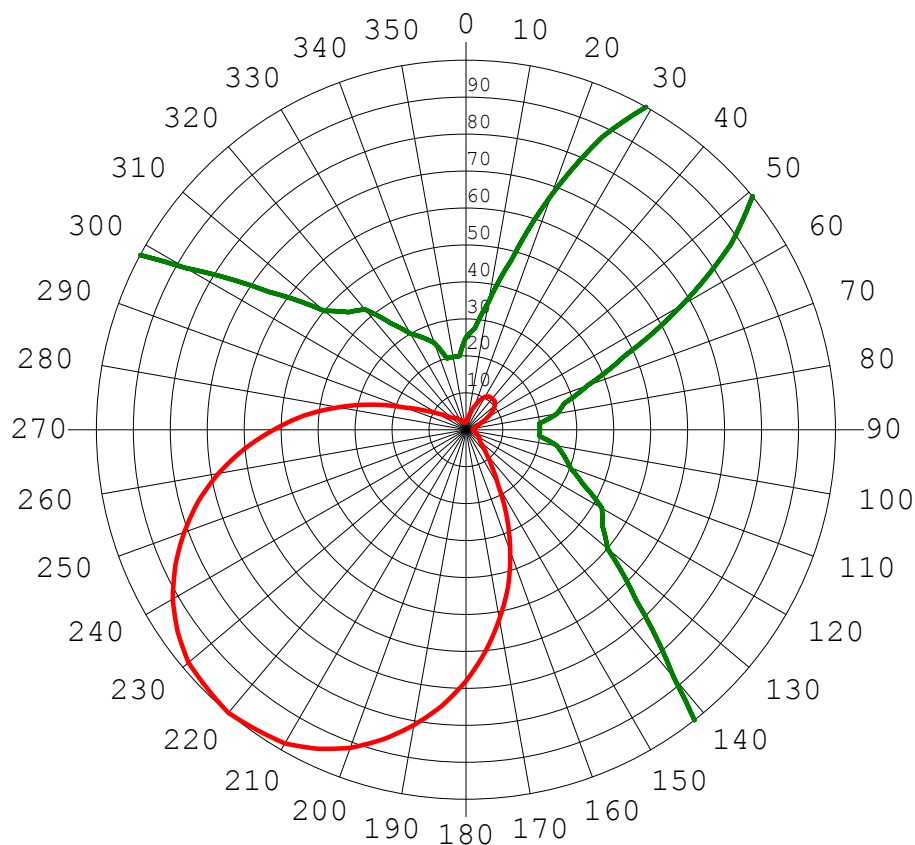


# Scala 4DR-8S Rotated 220 Deg.



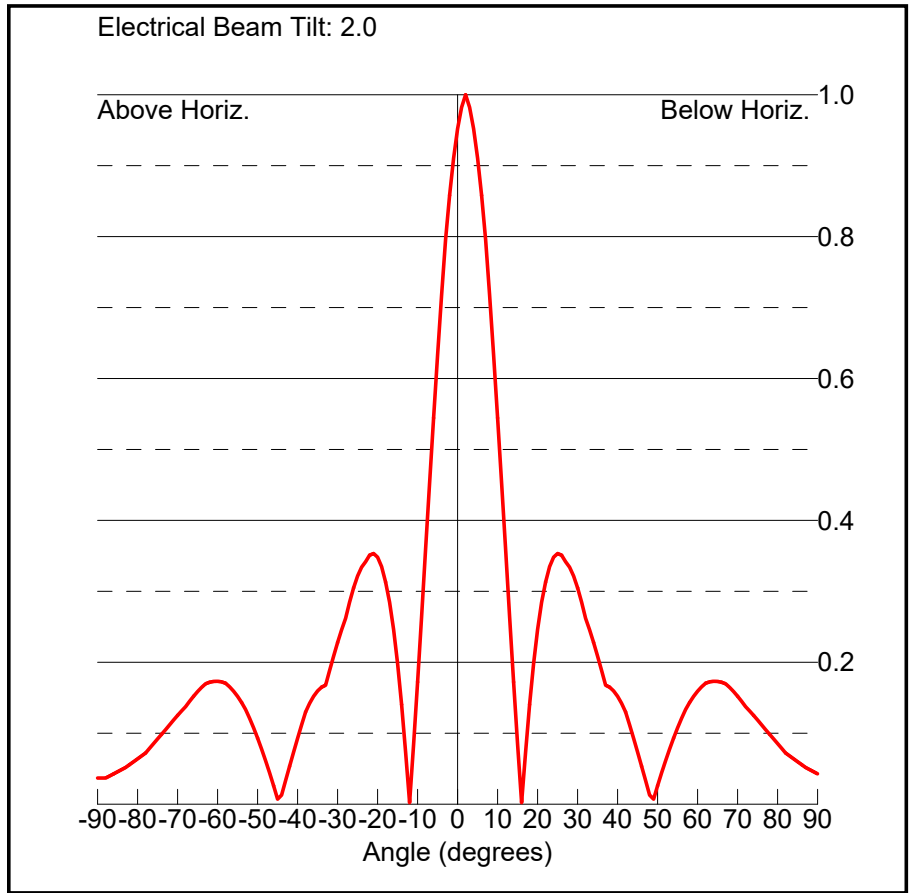
Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	1.000	-2.22	0.600	0.00	180	0.110	-21.39	0.007	-19.17
10	0.980	-2.39	0.576	-0.18	190	0.102	-22.00	0.006	-19.79
20	0.916	-2.98	0.503	-0.76	200	0.068	-25.63	0.003	-23.41
30	0.812	-4.03	0.395	-1.81	210	0.035	-31.34	0.001	-29.12
40	0.680	-5.57	0.277	-3.35	220	0.025	-34.26	0.000	-32.04
50	0.520	-7.90	0.162	-5.68	230	0.020	-36.20	0.000	-33.98
60	0.350	-11.34	0.073	-9.12	240	0.025	-34.26	0.000	-32.04
70	0.175	-17.36	0.018	-15.14	250	0.030	-32.68	0.001	-30.46
80	0.088	-23.38	0.005	-21.16	260	0.042	-29.65	0.001	-27.43
90	0.050	-28.24	0.002	-26.02	270	0.050	-28.24	0.002	-26.02
100	0.042	-29.65	0.001	-27.43	280	0.088	-23.38	0.005	-21.16
110	0.030	-32.68	0.001	-30.46	290	0.175	-17.36	0.018	-15.14
120	0.025	-34.26	0.000	-32.04	300	0.350	-11.34	0.073	-9.12
130	0.020	-36.20	0.000	-33.98	310	0.520	-7.90	0.162	-5.68
140	0.025	-34.26	0.000	-32.04	320	0.680	-5.57	0.277	-3.35
150	0.035	-31.34	0.001	-29.12	330	0.812	-4.03	0.395	-1.81
160	0.068	-25.63	0.003	-23.41	340	0.916	-2.98	0.503	-0.76
170	0.102	-22.00	0.006	-19.79	350	0.980	-2.39	0.576	-0.18

Rotation Angle = 220

# K48GO-D Vertical Elevation Pattern

Angle (deg)      Relative Field

-88.0	0.037
-87.0	0.04
-86.0	0.043
-85.0	0.046
-84.0	0.049
-83.0	0.052
-82.0	0.056
-81.0	0.06
-80.0	0.064
-79.0	0.068
-78.0	0.072
-77.0	0.079
-76.0	0.085
-75.0	0.092
-74.0	0.099
-73.0	0.105
-72.0	0.112
-71.0	0.119
-70.0	0.125
-69.0	0.131
-68.0	0.137
-67.0	0.145
-66.0	0.152
-65.0	0.159
-64.0	0.165
-63.0	0.17
-62.0	0.172
-61.0	0.173
-60.0	0.173
-59.0	0.172
-58.0	0.17
-57.0	0.165
-56.0	0.159
-55.0	0.152
-54.0	0.143
-53.0	0.133
-52.0	0.121
-51.0	0.108
-50.0	0.093
-49.0	0.078
-48.0	0.061
-47.0	0.044
-46.0	0.026
-45.0	0.007
-44.0	0.013
-43.0	0.033
-42.0	0.053
-41.0	0.073



-40.0	0.093
-39.0	0.112
-38.0	0.13
-37.0	0.142
-36.0	0.152
-35.0	0.16
-34.0	0.165
-33.0	0.168
-32.0	0.188
-31.0	0.209
-30.0	0.228
-29.0	0.246
-28.0	0.262
-27.0	0.285
-26.0	0.305
-25.0	0.322
-24.0	0.334
-23.0	0.342
-22.0	0.351
-21.0	0.353
-20.0	0.348
-19.0	0.335

-18.0	0.313	34.0	0.228
-17.0	0.284	35.0	0.209
-16.0	0.246	36.0	0.188
-15.0	0.198	37.0	0.168
-14.0	0.14	38.0	0.165
-13.0	0.073	39.0	0.16
-12.0	0.002	40.0	0.152
-11.0	0.084	41.0	0.142
-10.0	0.172	42.0	0.13
-9.0	0.264	43.0	0.112
-8.0	0.36	44.0	0.093
-7.0	0.453	45.0	0.073
-6.0	0.544	46.0	0.053
-5.0	0.633	47.0	0.033
-4.0	0.718	48.0	0.013
-3.0	0.796	49.0	0.007
-2.0	0.858	50.0	0.026
-1.0	0.911	51.0	0.044
0.0	0.952	52.0	0.061
1.0	0.982	53.0	0.078
2.0	1.0	54.0	0.093
3.0	0.982	55.0	0.108
4.0	0.952	56.0	0.121
5.0	0.911	57.0	0.133
6.0	0.858	58.0	0.143
7.0	0.796	59.0	0.152
8.0	0.718	60.0	0.159
9.0	0.633	61.0	0.165
10.0	0.544	62.0	0.17
11.0	0.453	63.0	0.172
12.0	0.36	64.0	0.173
13.0	0.264	65.0	0.173
14.0	0.172	66.0	0.172
15.0	0.084	67.0	0.17
16.0	0.002	68.0	0.165
17.0	0.073	69.0	0.159
18.0	0.14	70.0	0.152
19.0	0.198	71.0	0.145
20.0	0.246	72.0	0.137
21.0	0.284	73.0	0.131
22.0	0.313	74.0	0.125
23.0	0.335	75.0	0.119
24.0	0.348	76.0	0.112
25.0	0.353	77.0	0.105
26.0	0.351	78.0	0.099
27.0	0.342	79.0	0.092
28.0	0.334	80.0	0.085
29.0	0.322	81.0	0.079
30.0	0.305	82.0	0.072
31.0	0.285	83.0	0.068
32.0	0.262	84.0	0.064
33.0	0.246	85.0	0.06

N. Lat. = 42-15-31.0 W. Lng. = 123-39-43.0  
 HAAT and Distance to Contour,  
 FCC OET,TV 3.2 - 16.1, 130 pts - FCC 30 Meter  
 Electrical Beam Tilt = 2 Degrees

K48GO-D, Distance to Contour and Depression Angle

Azi.	AV EL	HAAT	ERP kW	dBk	Field	DAng	VFld	D-kW	%Max	D-dBk	51-F9
000	1017.3	229.7	0.0004	-34.26	0.025	0.420	0.965	0.0004	96.5	-34.26	6.23
010	913.4	333.6	0.0007	-31.34	0.035	0.506	0.967	0.0007	96.7	-31.34	8.63
020	693.4	553.6	0.0028	-25.57	0.068	0.652	0.972	0.0028	97.2	-25.57	16.29
030	495.6	751.4	0.0062	-22.05	0.102	0.759	0.975	0.0062	97.5	-22.05	22.26
040	432.6	814.4	0.0073	-21.39	0.110	0.790	0.976	0.0073	97.6	-21.39	23.93
050	498.4	748.6	0.0062	-22.05	0.102	0.758	0.975	0.0062	97.5	-22.05	22.22
060	524.9	722.1	0.0028	-25.57	0.068	0.744	0.975	0.0028	97.5	-25.57	17.61
070	512.5	734.5	0.0007	-31.34	0.035	0.751	0.975	0.0007	97.5	-31.34	11.71
080	497.5	749.5	0.0004	-34.26	0.025	0.758	0.975	0.0004	97.5	-34.26	9.23
090	535.6	711.4	0.0002	-36.20	0.020	0.739	0.974	0.0002	97.4	-36.20	7.64
100	569.7	677.3	0.0004	-34.26	0.025	0.721	0.974	0.0004	97.4	-34.26	8.95
110	598.0	649.0	0.0005	-32.68	0.030	0.706	0.973	0.0005	97.3	-32.68	10.07
120	712.3	534.7	0.0011	-29.75	0.042	0.641	0.971	0.0011	97.1	-29.75	11.86
130	638.5	608.5	0.0015	-28.24	0.050	0.683	0.973	0.0015	97.3	-28.24	13.83
140	563.4	683.6	0.0046	-23.33	0.088	0.724	0.974	0.0046	97.4	-23.33	19.82
150	515.6	731.4	0.0184	-17.36	0.175	0.749	0.975	0.0184	97.5	-17.36	27.90
160	462.3	784.7	0.0735	-11.34	0.350	0.776	0.975	0.0735	97.5	-11.34	37.11
170	403.2	843.8	0.1622	-7.90	0.520	0.805	0.976	0.1622	97.6	-7.90	42.84
180	402.0	845.0	0.2774	-5.57	0.680	0.805	0.976	0.2774	97.6	-5.57	46.17
190	548.8	698.2	0.3956	-4.03	0.812	0.732	0.974	0.3956	97.4	-4.03	45.84
200	710.4	536.6	0.5034	-2.98	0.916	0.642	0.971	0.5034	97.1	-2.98	44.88
210	789.1	457.9	0.5762	-2.39	0.980	0.593	0.970	0.5762	97.0	-2.39	43.16
220	751.2	495.8	0.6000	-2.22	1.000	0.617	0.971	0.6000	97.1	-2.22	44.68
230	722.9	524.1	0.5762	-2.39	0.980	0.634	0.971	0.5762	97.1	-2.39	45.37
240	873.5	373.5	0.5034	-2.98	0.916	0.535	0.968	0.5034	96.8	-2.98	40.11
250	1049.3	197.7	0.3956	-4.03	0.812	0.389	0.964	0.3956	96.4	-4.03	30.76
260	1012.3	234.7	0.2774	-5.57	0.680	0.424	0.965	0.2774	96.5	-5.57	30.89
270	895.6	351.4	0.1622	-7.90	0.520	0.519	0.968	0.1622	96.8	-7.90	32.41
280	885.8	361.2	0.0735	-11.34	0.350	0.526	0.968	0.0735	96.8	-11.34	28.08
290	778.4	468.6	0.0184	-17.36	0.175	0.600	0.970	0.0184	97.0	-17.36	23.76
300	576.1	670.9	0.0046	-23.33	0.088	0.717	0.974	0.0046	97.4	-23.33	19.68
310	578.4	668.6	0.0015	-28.24	0.050	0.716	0.974	0.0015	97.4	-28.24	14.33
320	685.6	561.4	0.0011	-29.75	0.042	0.656	0.972	0.0011	97.2	-29.75	12.06
330	771.5	475.5	0.0005	-32.68	0.030	0.604	0.970	0.0005	97.0	-32.68	9.03
340	923.4	323.6	0.0004	-34.26	0.025	0.498	0.967	0.0004	96.7	-34.26	7.05
350	1010.9	236.1	0.0002	-36.20	0.020	0.426	0.965	0.0002	96.5	-36.20	5.49

Ave El= 681.93 M HAAT= 565.07 M AMSL= 1247 M