

Antenna System Summary

Customer:

Description:

Antenna Model: TPV-CW-4

Azimuth Pattern: CW: Wide Cardioid

Number of Bays: 4

Elevation Pattern: 4bay_0.75BT

Channel: 9

Rotation: 200°

Input Power: 25.00 std/ custom

Beamtilt: 0.75°

Transmission System Information:

Line Type:

Line Length (ft):

Line Efficiency (%):

Total System Efficiency (%):

Loss (dB):

Total System Loss (dB):

Transmitter Power Output (kW):

Antenna Input Power (kW):

Antenna Gain: 6.18

Station ERP (kW):

Transmitter Power Output (dBk):

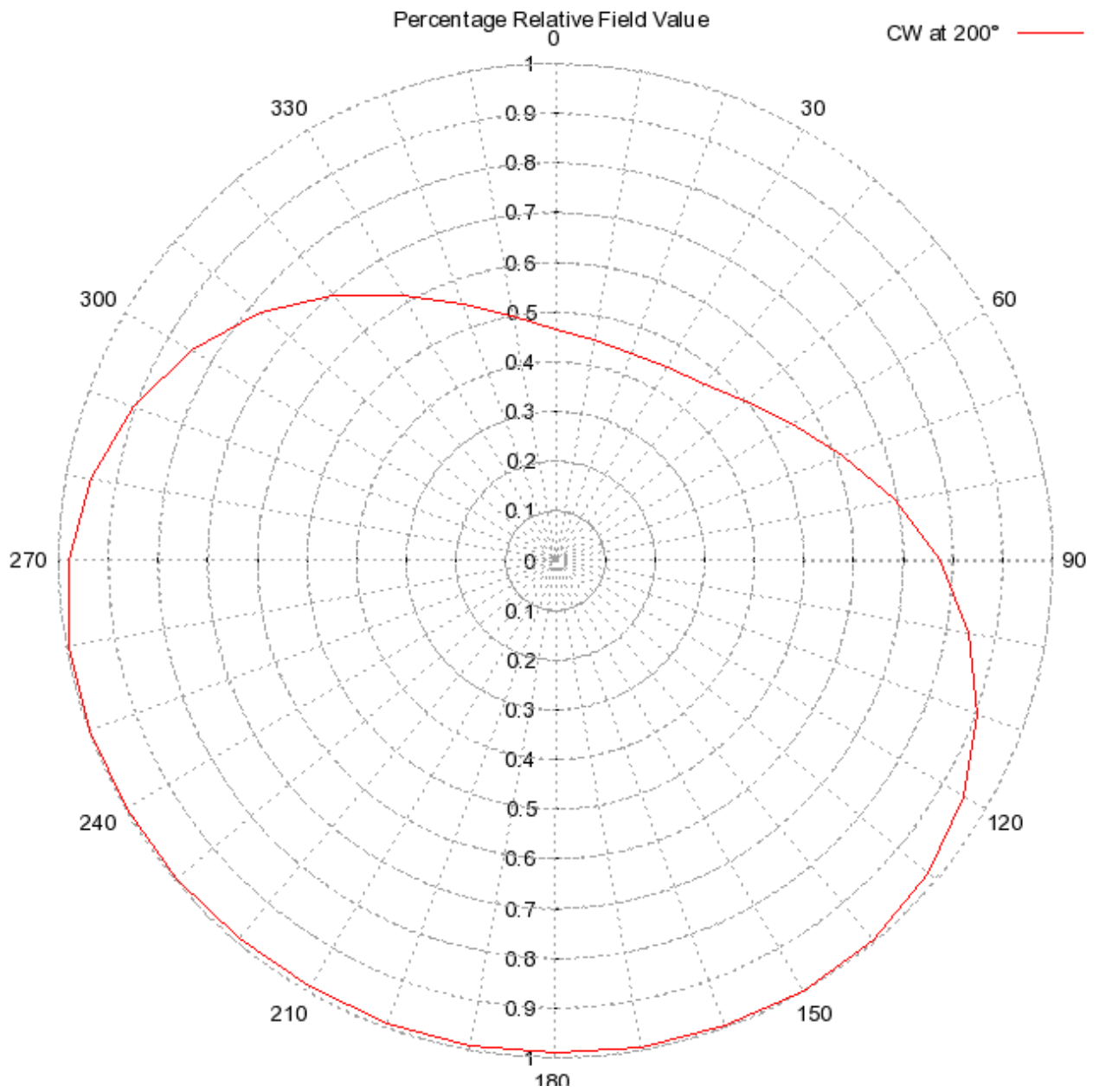
Antenna Input Power (dBk):

Antenna Gain (dB): 7.91

Station ERP (dBk):

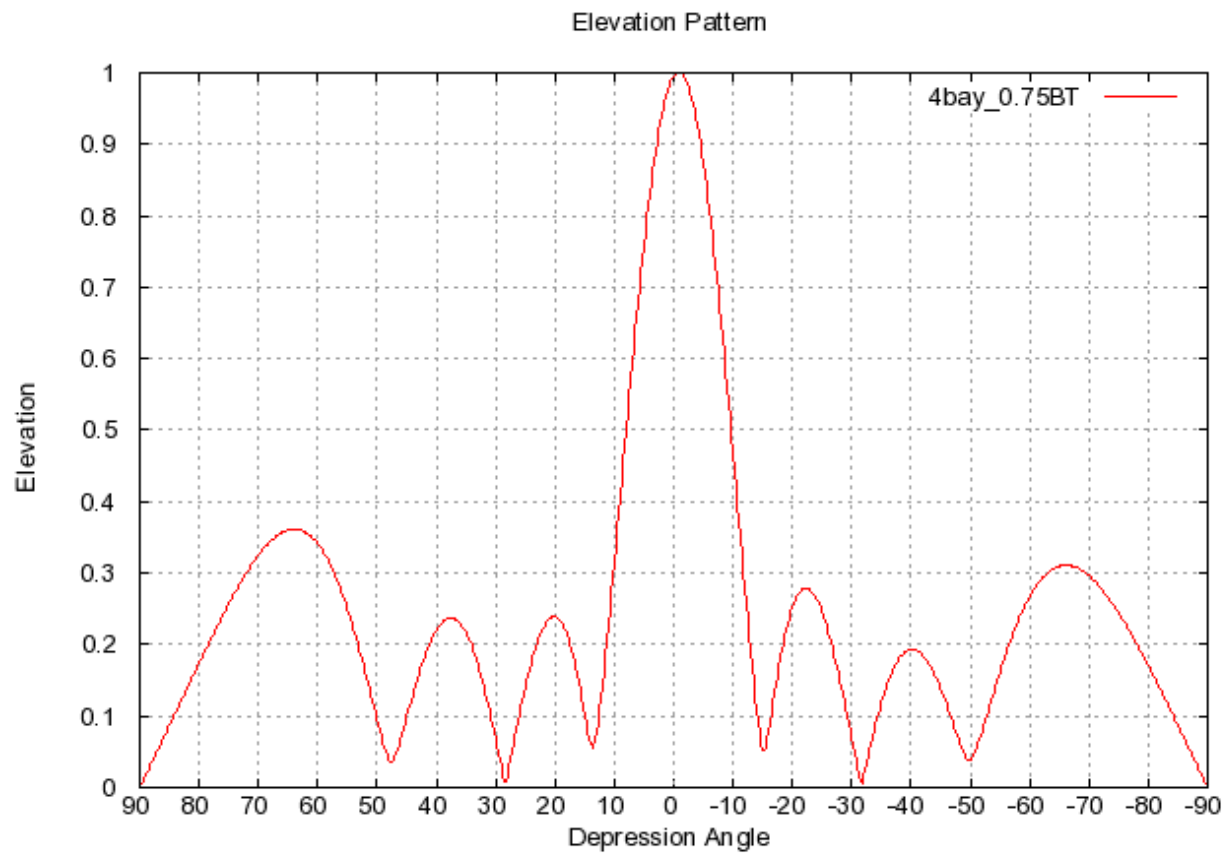
Prepared by February 21st, 2008

RF Technologies Azimuth Pattern CW: Wide Cardioid

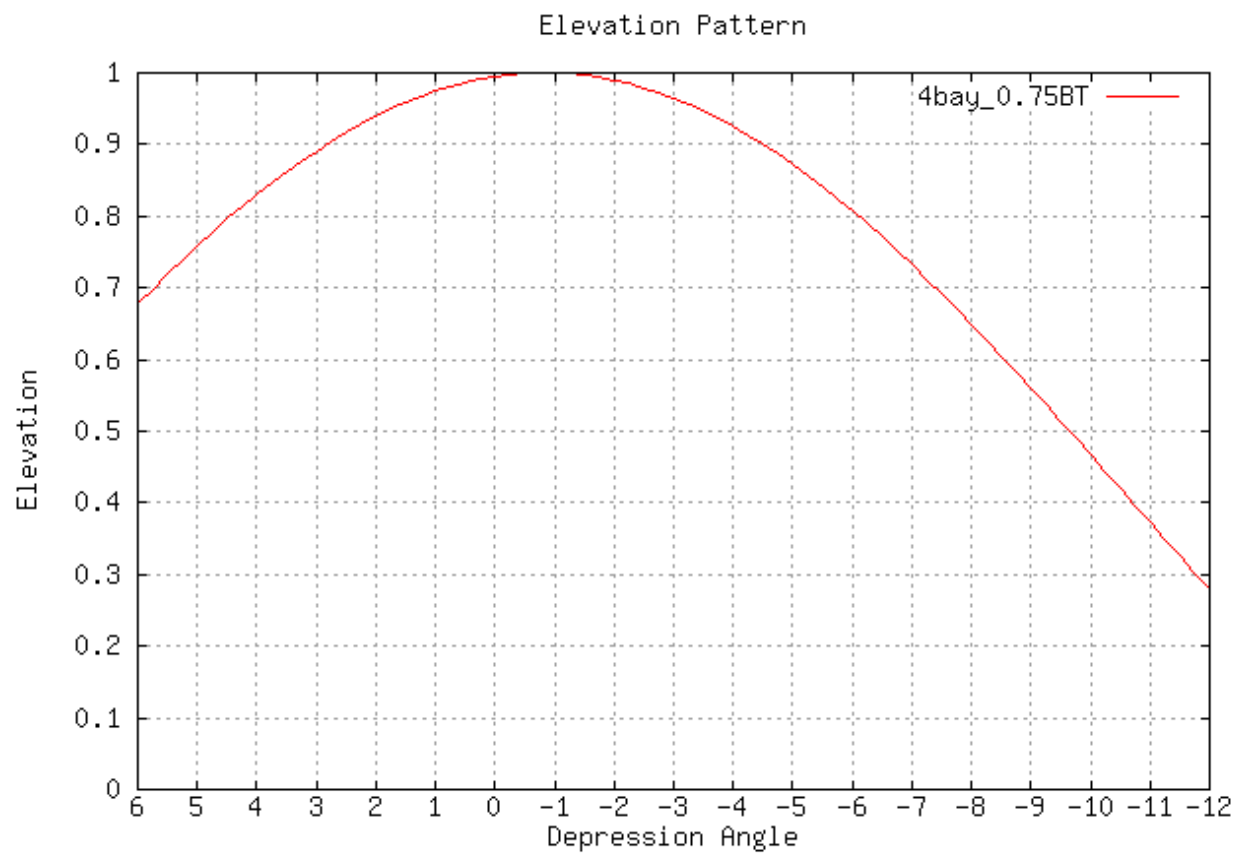


Azimuth Gain for CW: Wide Cardioid pattern is 1.50

RF Technologies Elevation Pattern 4bay_0.75BT



Elevation Gain for 4bay_0.75BT pattern is 4.12



Tabulated Azimuth Data for CW: Wide Cardioid

CW: Wide Cardioid rotated 200 degrees

Angle	Field	Angle	Field
0	0.465	180	0.990
10	0.450	190	0.990
20	0.445	200	0.990
30	0.450	210	0.990
40	0.465	220	0.990
50	0.500	230	0.995
60	0.550	240	0.995
70	0.615	250	1.000
80	0.695	260	0.995
90	0.775	270	0.980
100	0.845	280	0.950
110	0.905	290	0.905
120	0.950	300	0.845
130	0.980	310	0.775
140	0.995	320	0.695
150	1.000	330	0.615
160	0.995	340	0.550
170	0.995	350	0.500

Minima	
Angle	Field
20	0.445

Maxima	
Angle	Field
170	0.995
250	1.000
150	1.000

Tabulated Elevation Data for RF Technologies Pattern 4bay_0.75BT

Angle Field		Angle Field		Angle Field		Angle Field		Angle Field		Angle Field	
10.00	0.315	-0.25	0.997	-10.50	0.420	-30.50	0.047	-50.50	0.044	-70.50	0.292
9.75	0.338	-0.50	0.999	-11.00	0.373	-31.00	0.027	-51.00	0.054	-71.00	0.288
9.50	0.361	-0.75	1.000	-11.50	0.326	-31.50	0.008	-51.50	0.066	-71.50	0.284
9.25	0.384	-1.00	1.000	-12.00	0.279	-32.00	0.015	-52.00	0.079	-72.00	0.279
9.00	0.407	-1.25	0.999	-12.50	0.234	-32.50	0.034	-52.50	0.093	-72.50	0.274
8.75	0.431	-1.50	0.997	-13.00	0.190	-33.00	0.052	-53.00	0.107	-73.00	0.268
8.50	0.454	-1.75	0.994	-13.50	0.147	-33.50	0.070	-53.50	0.121	-73.50	0.262
8.25	0.477	-2.00	0.990	-14.00	0.108	-34.00	0.087	-54.00	0.135	-74.00	0.256
8.00	0.500	-2.25	0.985	-14.50	0.075	-34.50	0.103	-54.50	0.148	-74.50	0.250
7.75	0.523	-2.50	0.979	-15.00	0.054	-35.00	0.118	-55.00	0.162	-75.00	0.244
7.50	0.546	-2.75	0.972	-15.50	0.056	-35.50	0.132	-55.50	0.175	-75.50	0.237
7.25	0.569	-3.00	0.965	-16.00	0.077	-36.00	0.144	-56.00	0.187	-76.00	0.230
7.00	0.591	-3.25	0.956	-16.50	0.104	-36.50	0.155	-56.50	0.199	-76.50	0.223
6.75	0.614	-3.50	0.947	-17.00	0.131	-37.00	0.165	-57.00	0.210	-77.00	0.216
6.50	0.635	-3.75	0.936	-17.50	0.157	-37.50	0.173	-57.50	0.221	-77.50	0.209
6.25	0.657	-4.00	0.925	-18.00	0.181	-38.00	0.180	-58.00	0.231	-78.00	0.201
6.00	0.678	-4.25	0.913	-18.50	0.202	-38.50	0.186	-58.50	0.241	-78.50	0.193
5.75	0.699	-4.50	0.900	-19.00	0.221	-39.00	0.190	-59.00	0.250	-79.00	0.186
5.50	0.719	-4.75	0.887	-19.50	0.237	-39.50	0.193	-59.50	0.259	-79.50	0.178
5.25	0.739	-5.00	0.872	-20.00	0.251	-40.00	0.194	-60.00	0.266	-80.00	0.170
5.00	0.758	-5.25	0.857	-20.50	0.262	-40.50	0.194	-60.50	0.274	-80.50	0.162
4.75	0.777	-5.50	0.841	-21.00	0.270	-41.00	0.192	-61.00	0.280	-81.00	0.154
4.50	0.795	-5.75	0.825	-21.50	0.275	-41.50	0.189	-61.50	0.286	-81.50	0.145
4.25	0.813	-6.00	0.808	-22.00	0.278	-42.00	0.185	-62.00	0.291	-82.00	0.137
4.00	0.830	-6.25	0.790	-22.50	0.278	-42.50	0.180	-62.50	0.296	-82.50	0.129
3.75	0.846	-6.50	0.771	-23.00	0.276	-43.00	0.174	-63.00	0.300	-83.00	0.120
3.50	0.862	-6.75	0.752	-23.50	0.271	-43.50	0.166	-63.50	0.303	-83.50	0.112
3.25	0.877	-7.00	0.733	-24.00	0.265	-44.00	0.158	-64.00	0.306	-84.00	0.103
3.00	0.891	-7.25	0.713	-24.50	0.256	-44.50	0.148	-64.50	0.308	-84.50	0.095
2.75	0.904	-7.50	0.692	-25.00	0.245	-45.00	0.138	-65.00	0.310	-85.00	0.086
2.50	0.917	-7.75	0.671	-25.50	0.232	-45.50	0.127	-65.50	0.310	-85.50	0.078
2.25	0.928	-8.00	0.650	-26.00	0.218	-46.00	0.115	-66.00	0.311	-86.00	0.069
2.00	0.939	-8.25	0.628	-26.50	0.203	-46.50	0.103	-66.50	0.311	-86.50	0.061
1.75	0.949	-8.50	0.606	-27.00	0.186	-47.00	0.090	-67.00	0.310	-87.00	0.052
1.50	0.959	-8.75	0.583	-27.50	0.168	-47.50	0.078	-67.50	0.309	-87.50	0.043
1.25	0.967	-9.00	0.560	-28.00	0.149	-48.00	0.065	-68.00	0.307	-88.00	0.035
1.00	0.974	-9.25	0.537	-28.50	0.129	-48.50	0.054	-68.50	0.305	-88.50	0.026
0.75	0.981	-9.50	0.514	-29.00	0.109	-49.00	0.044	-69.00	0.303	-89.00	0.017
0.50	0.986	-9.75	0.491	-29.50	0.089	-49.50	0.038	-69.50	0.300	-89.50	0.009
0.25	0.991	-10.00	0.467	-30.00	0.068	-50.00	0.038	-70.00	0.296	-90.00	0.000
0.00	0.995										