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Antenna System Summary

Customer: WORO-DT

Description:

Antenna Model: TPV-SFN-CW-6	Channel: 13
Azimuth Pattern: CW: Wide Cardioid	Rotation: 330°
Number of Bays: 6	Input Power: 25.00 std/ 25.00 custom
Elevation Pattern: 6baySFN_1.5BT	Beamtilt: 0.00°

Transmission System Information:

Line Type: Air Core Flexible 3" HJ8-50B

Line Length (ft): 226

Line Efficiency (%): 89.18

Loss (dB): -0.5

Total System Efficiency (%): 89.18

Total System Loss (dB): -0.5

Transmitter Power Output (kW): 4.270

Transmitter Power Output (dBk): 6.3

Antenna Input Power (kW): 3.81

Antenna Input Power (dBk): 5.81

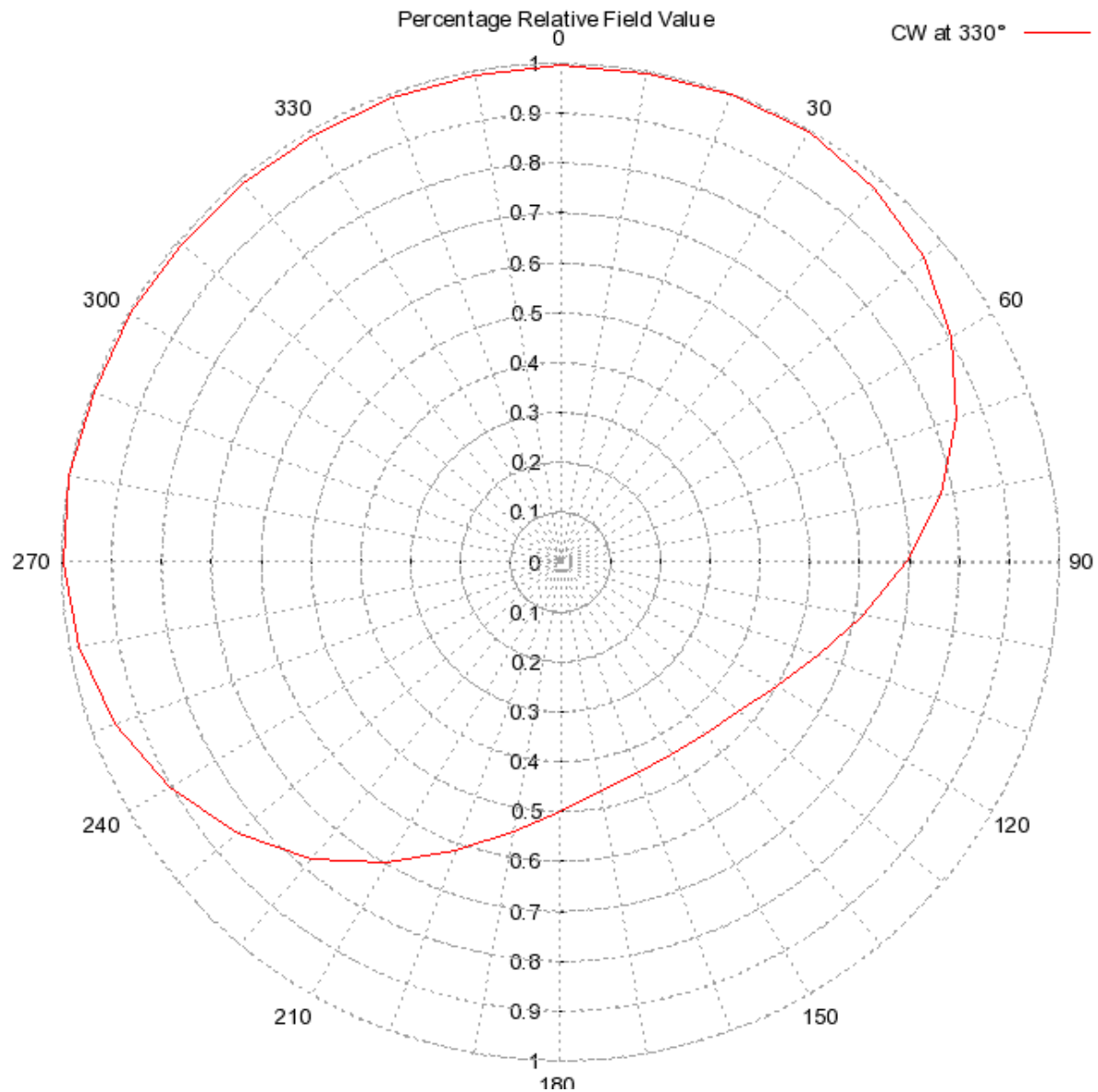
Antenna Gain: 9.975

Antenna Gain (dB): 9.99

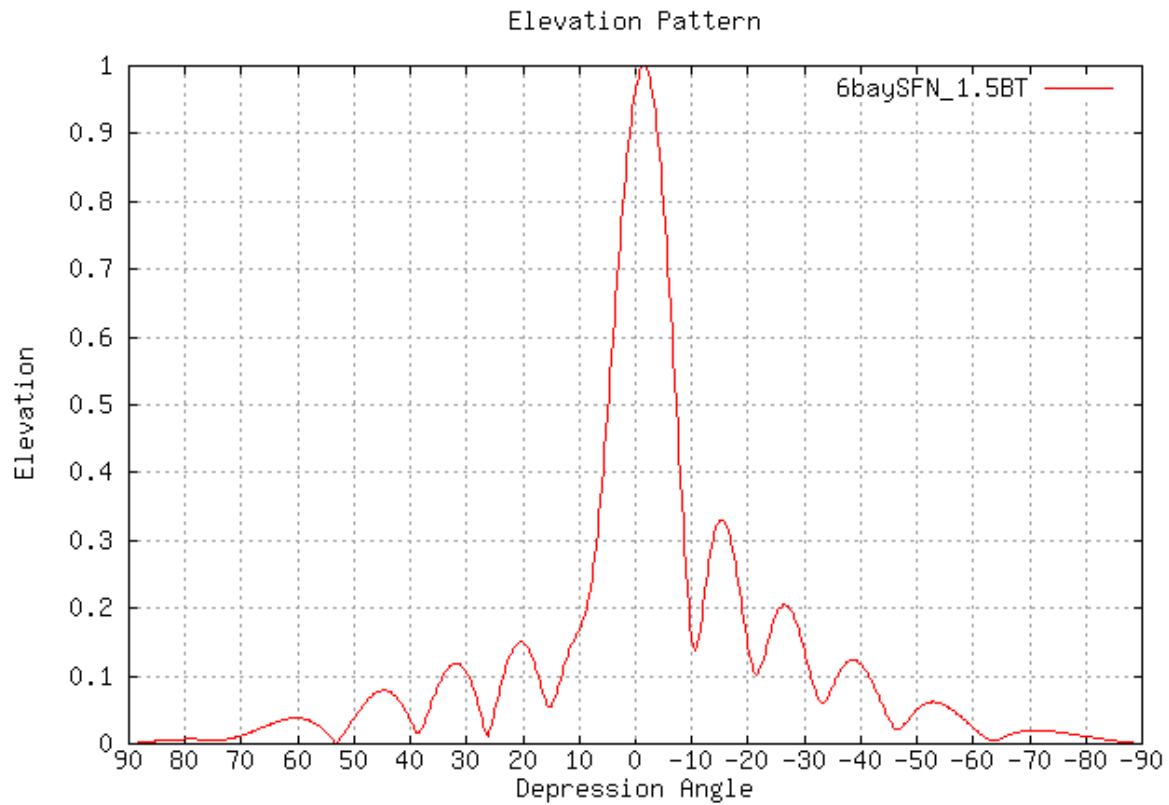
Station ERP (kW): 37.98

Station ERP (dBk): 15.8

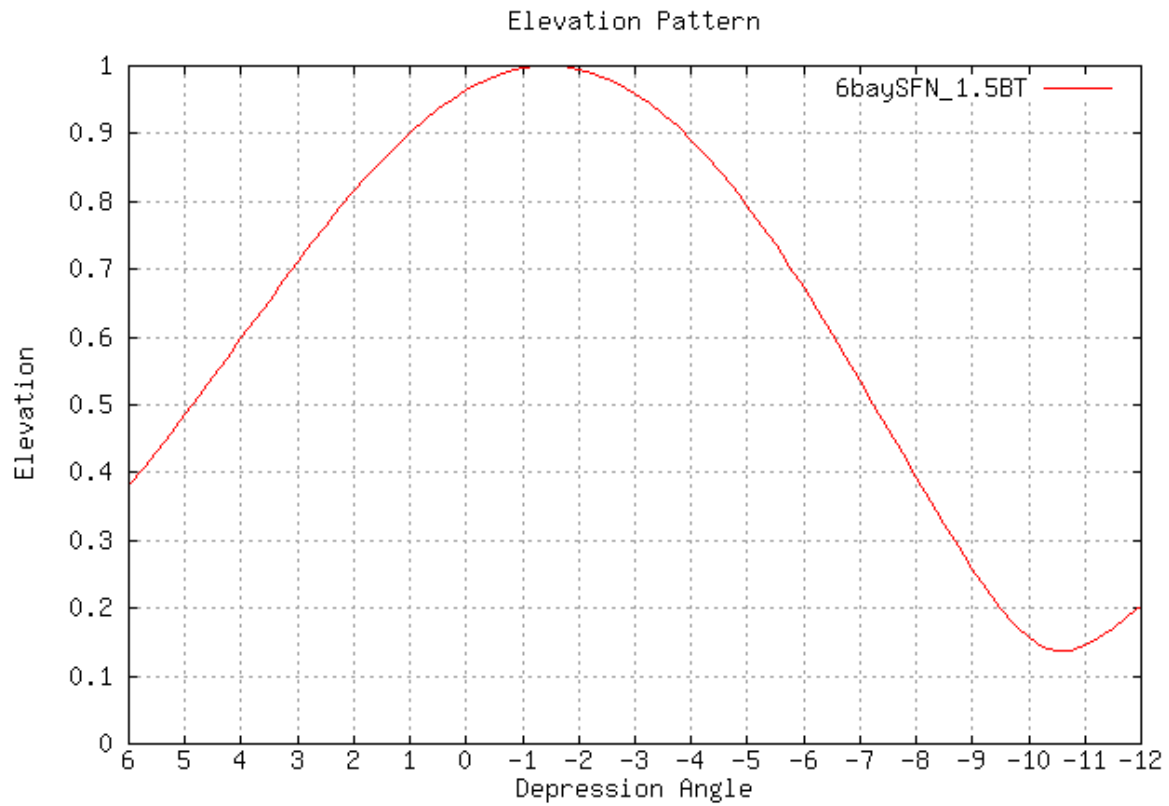
Prepared by Bob duTreil Jr. June 18th, 2008

RF Technologies Azimuth Pattern CW: Wide Cardioid

Azimuth Gain for CW: Wide Cardioid pattern is 1.50

RF Technologies Elevation Pattern 6baySFN_1.5BT

Elevation Gain for 6baySFN_1.5BT pattern is 6.65

RF Technologies Elevation Pattern 6baySFN_1.5BT from 6° above to 12° below horizon

Tabulated Azimuth Data for CW: Wide Cardioid

CW: Wide Cardioid rotated 330 degrees

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

Minima	
Angle	Field
150	0.445

Maxima	
Angle	Field
300	0.995
20	1.000
280	1.000

Tabulated Elevation Data for RF Technologies Pattern 6baySFN_1.5BT

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
10.00	0.169	-0.25	0.975	-10.50	0.137	-30.50	0.122	-50.50	0.055	-70.50	0.020
9.75	0.174	-0.50	0.984	-11.00	0.145	-31.00	0.105	-51.00	0.058	-71.00	0.020
9.50	0.179	-0.75	0.991	-11.50	0.171	-31.50	0.090	-51.50	0.060	-71.50	0.020
9.25	0.184	-1.00	0.996	-12.00	0.205	-32.00	0.076	-52.00	0.061	-72.00	0.020
9.00	0.191	-1.25	0.999	-12.50	0.238	-32.50	0.066	-52.50	0.062	-72.50	0.019
8.75	0.199	-1.50	1.000	-13.00	0.268	-33.00	0.061	-53.00	0.062	-73.00	0.019
8.50	0.208	-1.75	0.999	-13.50	0.292	-33.50	0.061	-53.50	0.061	-73.50	0.019
8.25	0.218	-2.00	0.995	-14.00	0.311	-34.00	0.067	-54.00	0.060	-74.00	0.018
8.00	0.230	-2.25	0.990	-14.50	0.324	-34.50	0.075	-54.50	0.059	-74.50	0.018
7.75	0.244	-2.50	0.982	-15.00	0.330	-35.00	0.084	-55.00	0.057	-75.00	0.017
7.50	0.259	-2.75	0.972	-15.50	0.330	-35.50	0.093	-55.50	0.054	-75.50	0.017
7.25	0.275	-3.00	0.960	-16.00	0.324	-36.00	0.102	-56.00	0.052	-76.00	0.016
7.00	0.294	-3.25	0.946	-16.50	0.312	-36.50	0.109	-56.50	0.049	-76.50	0.016
6.75	0.313	-3.50	0.929	-17.00	0.296	-37.00	0.115	-57.00	0.045	-77.00	0.015
6.50	0.335	-3.75	0.911	-17.50	0.276	-37.50	0.120	-57.50	0.042	-77.50	0.014
6.25	0.357	-4.00	0.891	-18.00	0.252	-38.00	0.123	-58.00	0.038	-78.00	0.014
6.00	0.381	-4.25	0.869	-18.50	0.226	-38.50	0.124	-58.50	0.035	-78.50	0.013
5.75	0.406	-4.50	0.846	-19.00	0.198	-39.00	0.123	-59.00	0.031	-79.00	0.012
5.50	0.431	-4.75	0.820	-19.50	0.170	-39.50	0.121	-59.50	0.027	-79.50	0.012
5.25	0.458	-5.00	0.793	-20.00	0.144	-40.00	0.117	-60.00	0.023	-80.00	0.011
5.00	0.485	-5.25	0.765	-20.50	0.122	-40.50	0.113	-60.50	0.020	-80.50	0.010
4.75	0.513	-5.50	0.735	-21.00	0.107	-41.00	0.106	-61.00	0.016	-81.00	0.010
4.50	0.541	-5.75	0.704	-21.50	0.102	-41.50	0.099	-61.50	0.013	-81.50	0.009
4.25	0.570	-6.00	0.672	-22.00	0.107	-42.00	0.091	-62.00	0.010	-82.00	0.008
4.00	0.598	-6.25	0.639	-22.50	0.119	-42.50	0.083	-62.50	0.007	-82.50	0.008
3.75	0.627	-6.50	0.605	-23.00	0.135	-43.00	0.074	-63.00	0.005	-83.00	0.007
3.50	0.655	-6.75	0.571	-23.50	0.152	-43.50	0.064	-63.50	0.004	-83.50	0.007
3.25	0.683	-7.00	0.535	-24.00	0.167	-44.00	0.055	-64.00	0.005	-84.00	0.006
3.00	0.711	-7.25	0.500	-24.50	0.181	-44.50	0.045	-64.50	0.007	-84.50	0.005
2.75	0.738	-7.50	0.464	-25.00	0.191	-45.00	0.036	-65.00	0.009	-85.00	0.005
2.50	0.765	-7.75	0.428	-25.50	0.199	-45.50	0.029	-65.50	0.010	-85.50	0.004
2.25	0.790	-8.00	0.393	-26.00	0.204	-46.00	0.023	-66.00	0.012	-86.00	0.004
2.00	0.815	-8.25	0.358	-26.50	0.205	-46.50	0.021	-66.50	0.014	-86.50	0.003
1.75	0.839	-8.50	0.323	-27.00	0.203	-47.00	0.022	-67.00	0.015	-87.00	0.003
1.50	0.861	-8.75	0.290	-27.50	0.198	-47.50	0.026	-67.50	0.016	-87.50	0.002
1.25	0.882	-9.00	0.258	-28.00	0.190	-48.00	0.032	-68.00	0.017	-88.00	0.002
1.00	0.902	-9.25	0.228	-28.50	0.180	-48.50	0.037	-68.50	0.018	-88.50	0.001
0.75	0.920	-9.50	0.200	-29.00	0.168	-49.00	0.042	-69.00	0.019	-89.00	0.001
0.50	0.936	-9.75	0.176	-29.50	0.153	-49.50	0.047	-69.50	0.019	-89.50	0.000
0.25	0.951	-10.00	0.157	-30.00	0.138	-50.00	0.051	-70.00	0.019	-90.00	0.000
0.00	0.964										