

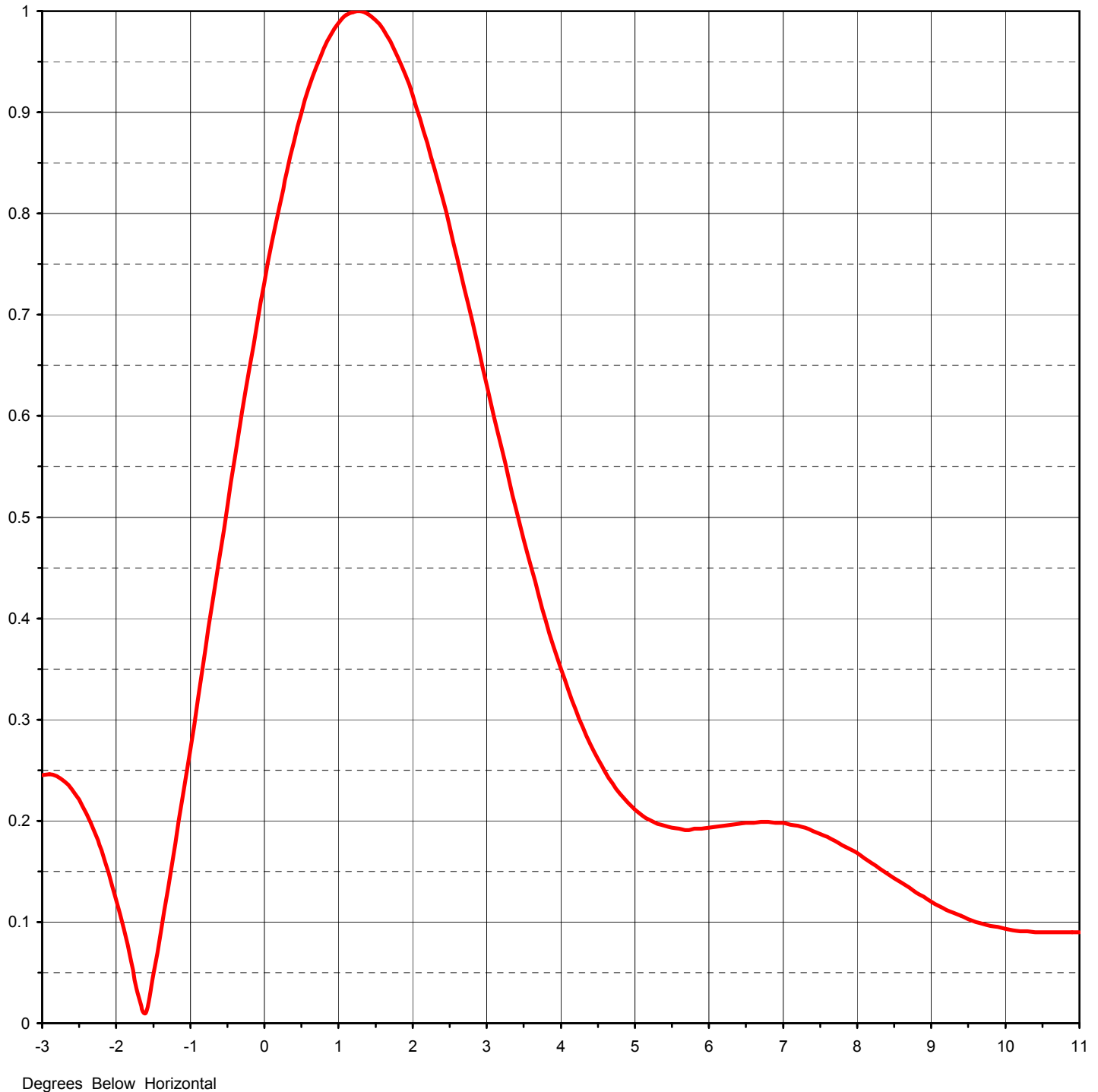


Proposal Number	DCA-9563	Revision:	1
Date	30-Dec-02		
Call Letters	WIPM-DT	Channel	35
Location	Mayaguez, PR		
Customer			
Antenna Type	TFU-22GBH O8SP		

ELEVATION PATTERN

RMS Gain at Main Lobe	17.50 (12.43 dB)
RMS Gain at Horizontal	9.40 (9.73 dB)
Calculated / Measured	Calculated

Beam Tilt	1.25 deg
Frequency	599.00 MHz
Drawing #	22G175125



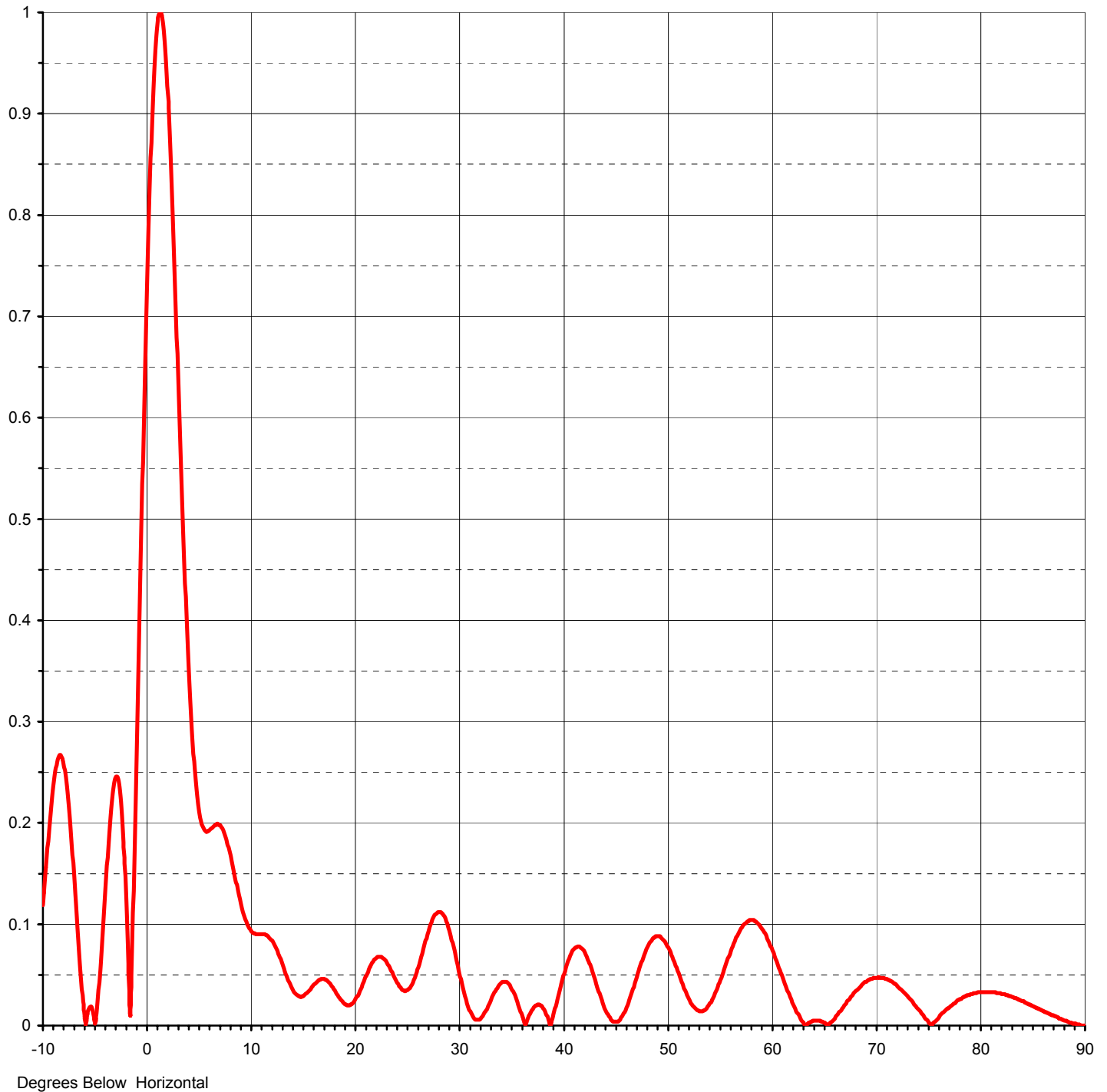


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ELEVATION PATTERN

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Drawing #	22G175125-90





Proposal Number **DCA-9563** Revision: **1**
 Date **30-Dec-02**
 Call Letters **WIPM-DT** Channel **35**
 Location **Mayaguez, PR**
 Customer
 Antenna Type **TFU-22GBH O8SP**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **22G175125-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.119	2.4	0.816	10.6	0.090	30.5	0.033	51.0	0.054	71.5	0.043
-9.5	0.182	2.6	0.757	10.8	0.090	31.0	0.016	51.5	0.041	72.0	0.039
-9.0	0.236	2.8	0.695	11.0	0.090	31.5	0.007	52.0	0.028	72.5	0.034
-8.5	0.265	3.0	0.631	11.5	0.089	32.0	0.006	52.5	0.019	73.0	0.029
-8.0	0.258	3.2	0.568	12.0	0.085	32.5	0.013	53.0	0.015	73.5	0.023
-7.5	0.215	3.4	0.507	12.5	0.076	33.0	0.023	53.5	0.015	74.0	0.016
-7.0	0.146	3.6	0.450	13.0	0.063	33.5	0.034	54.0	0.020	74.5	0.010
-6.5	0.069	3.8	0.397	13.5	0.049	34.0	0.041	54.5	0.029	75.0	0.003
-6.0	0.009	4.0	0.350	14.0	0.037	34.5	0.043	55.0	0.042	75.5	0.003
-5.5	0.018	4.2	0.310	14.5	0.030	35.0	0.038	55.5	0.056	76.0	0.008
-5.0	0.002	4.4	0.276	15.0	0.029	35.5	0.027	56.0	0.070	76.5	0.014
-4.5	0.055	4.6	0.248	15.5	0.033	36.0	0.012	56.5	0.083	77.0	0.018
-4.0	0.134	4.8	0.227	16.0	0.039	36.5	0.003	57.0	0.094	77.5	0.022
-3.5	0.208	5.0	0.211	16.5	0.044	37.0	0.015	57.5	0.101	78.0	0.026
-3.0	0.245	5.2	0.201	17.0	0.046	37.5	0.020	58.0	0.104	78.5	0.029
-2.8	0.244	5.4	0.195	17.5	0.043	38.0	0.019	58.5	0.103	79.0	0.031
-2.6	0.231	5.6	0.192	18.0	0.036	38.5	0.009	59.0	0.097	79.5	0.032
-2.4	0.207	5.8	0.192	18.5	0.028	39.0	0.007	59.5	0.089	80.0	0.033
-2.2	0.171	6.0	0.193	19.0	0.022	39.5	0.027	60.0	0.077	80.5	0.033
-2.0	0.122	6.2	0.195	19.5	0.020	40.0	0.047	60.5	0.064	81.0	0.033
-1.8	0.061	6.4	0.197	20.0	0.024	40.5	0.064	61.0	0.050	81.5	0.032
-1.6	0.010	6.6	0.198	20.5	0.034	41.0	0.075	61.5	0.036	82.0	0.031
-1.4	0.090	6.8	0.199	21.0	0.046	41.5	0.078	62.0	0.023	82.5	0.030
-1.2	0.178	7.0	0.198	21.5	0.058	42.0	0.074	62.5	0.012	83.0	0.028
-1.0	0.271	7.2	0.195	22.0	0.066	42.5	0.063	63.0	0.004	83.5	0.026
-0.8	0.367	7.4	0.190	22.5	0.068	43.0	0.048	63.5	0.002	84.0	0.024
-0.6	0.464	7.6	0.184	23.0	0.064	43.5	0.032	64.0	0.005	84.5	0.022
-0.4	0.558	7.8	0.176	23.5	0.055	44.0	0.017	64.5	0.005	85.0	0.019
-0.2	0.649	8.0	0.168	24.0	0.044	44.5	0.008	65.0	0.003	85.5	0.017
0.0	0.732	8.2	0.158	24.5	0.036	45.0	0.004	65.5	0.002	86.0	0.014
0.2	0.807	8.4	0.148	25.0	0.035	45.5	0.006	66.0	0.007	86.5	0.012
0.4	0.871	8.6	0.139	25.5	0.040	46.0	0.015	66.5	0.014	87.0	0.010
0.6	0.924	8.8	0.129	26.0	0.053	46.5	0.029	67.0	0.021	87.5	0.007
0.8	0.963	9.0	0.120	26.5	0.071	47.0	0.045	67.5	0.028	88.0	0.005
1.0	0.988	9.2	0.112	27.0	0.090	47.5	0.061	68.0	0.034	88.5	0.003
1.2	0.999	9.4	0.106	27.5	0.105	48.0	0.075	68.5	0.039	89.0	0.002
1.4	0.997	9.6	0.100	28.0	0.112	48.5	0.084	69.0	0.043	89.5	0.001
1.6	0.982	9.8	0.098	28.5	0.110	49.0	0.088	69.5	0.046	90.0	0.000
1.8	0.955	10.0	0.095	29.0	0.097	49.5	0.086	70.0	0.047		
2.0	0.917	10.2	0.092	29.5	0.078	50.0	0.079	70.5	0.047		
2.2	0.870	10.4	0.091	30.0	0.055	50.5	0.068	71.0	0.046		