



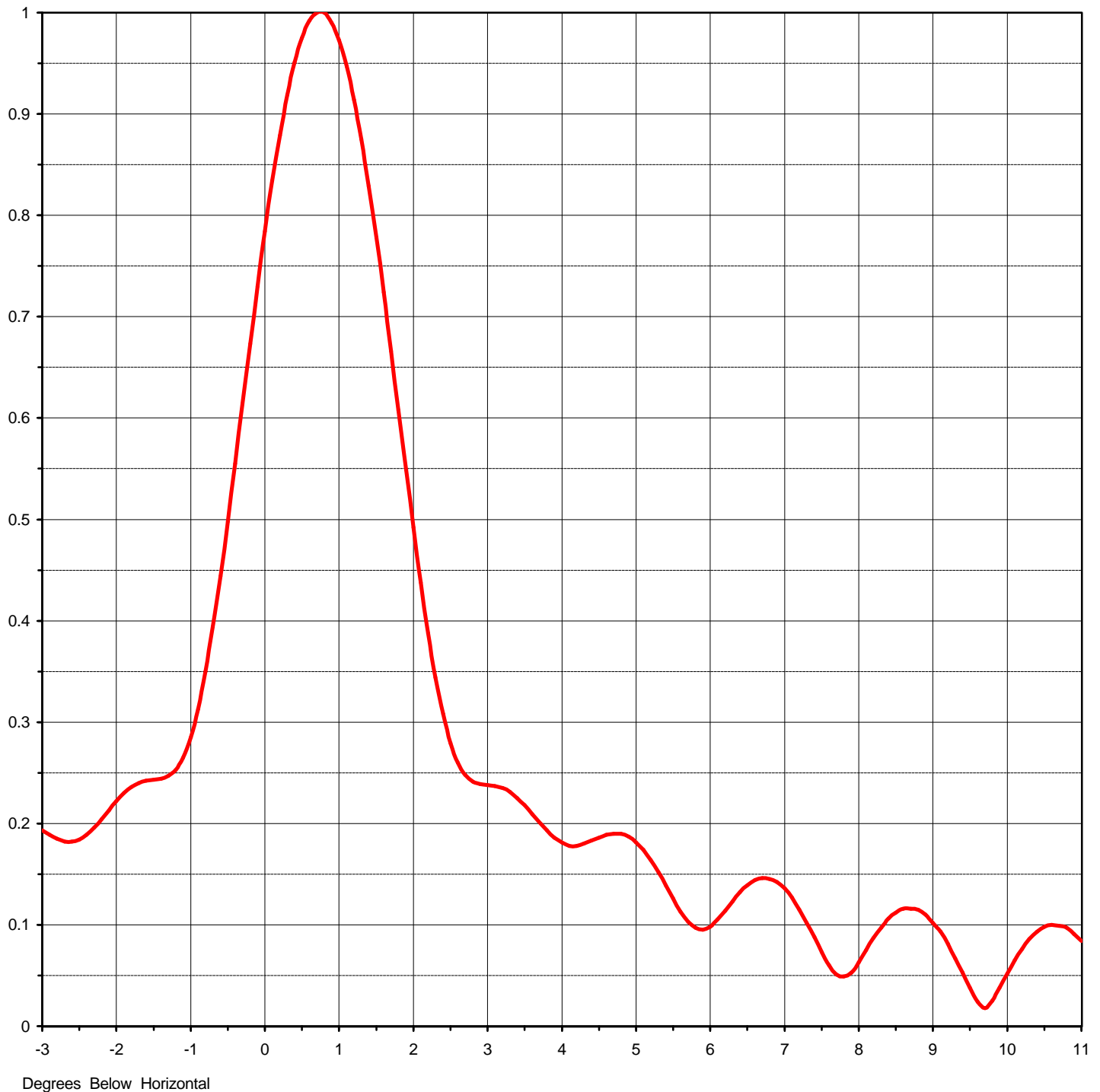
Date
Call Letters
Location
Customer
Antenna Type

9-Aug-99
WAXN-DT Channel **50**
Charlotte, NC
TUP-04-12-1 (S)

ELEVATION PATTERN

RMS Gain at Main Lobe **27.4 (14.38 dB)**
RMS Gain at Horizontal **16.8 (12.26 dB)**
Calculated / Measured **Calculated**

Beam Tilt **0.75 deg**
Frequency **689.00 MHz**
Drawing # **12U274075**



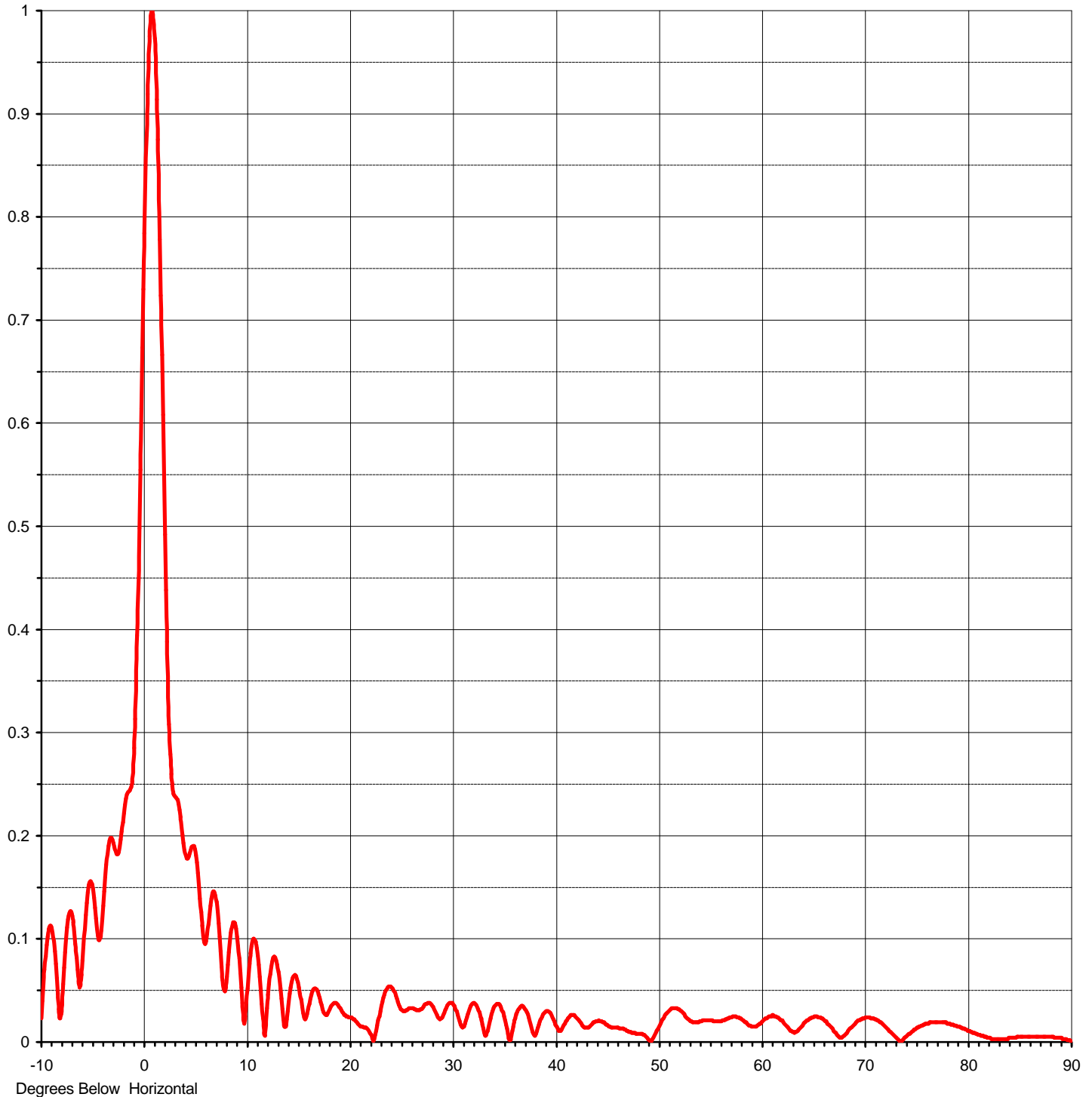


Proposal Number	DCA-8189	2
Date	9-Aug-99	
Call Letters	WAXN-DT	Channel 50
Location	Charlotte, NC	
Customer		
Antenna Type	TUP-O4-12-1 (S)	

ELEVATION PATTERN

RMS Gain at Main Lobe	27.4 (14.38 dB)
RMS Gain at Horizontal	16.8 (12.26 dB)
Calculated / Measured	Calculated

Beam Tilt	0.75 deg
Frequency	689.00 MHz
Drawing #	12U274075-90





Proposal Number **DCA-8189** **2**
 Date **9-Aug-99**
 Call Letters **WAXN-DT** Channel **50**
 Location **Charlotte, NC**
 Customer
 Antenna Type **TUP-O4-12-1 (S)**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **12U274075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.023	2.4	0.308	10.6	0.098	30.5	0.026	51.0	0.030	71.5	0.019
-9.5	0.094	2.6	0.260	10.8	0.099	31.0	0.014	51.5	0.033	72.0	0.014
-9.0	0.111	2.8	0.241	11.0	0.091	31.5	0.027	52.0	0.032	72.5	0.009
-8.5	0.062	3.0	0.238	11.5	0.037	32.0	0.038	52.5	0.027	73.0	0.004
-8.0	0.040	3.2	0.235	12.0	0.033	32.5	0.032	53.0	0.021	73.5	0.001
-7.5	0.111	3.4	0.225	12.5	0.078	33.0	0.013	53.5	0.019	74.0	0.006
-7.0	0.122	3.6	0.209	13.0	0.075	33.5	0.015	54.0	0.020	74.5	0.010
-6.5	0.070	3.8	0.193	13.5	0.032	34.0	0.033	54.5	0.021	75.0	0.014
-6.0	0.079	4.0	0.181	14.0	0.030	34.5	0.037	55.0	0.021	75.5	0.016
-5.5	0.145	4.2	0.178	14.5	0.062	35.0	0.025	55.5	0.020	76.0	0.018
-5.0	0.148	4.4	0.183	15.0	0.058	35.5	0.003	56.0	0.020	76.5	0.019
-4.5	0.103	4.6	0.189	15.5	0.028	36.0	0.020	56.5	0.022	77.0	0.019
-4.0	0.132	4.8	0.190	16.0	0.032	36.5	0.033	57.0	0.024	77.5	0.019
-3.5	0.190	5.0	0.181	16.5	0.051	37.0	0.033	57.5	0.025	78.0	0.018
-3.0	0.193	5.2	0.164	17.0	0.046	37.5	0.020	58.0	0.023	78.5	0.017
-2.8	0.185	5.4	0.139	17.5	0.029	38.0	0.006	58.5	0.019	79.0	0.015
-2.6	0.182	5.6	0.113	18.0	0.030	38.5	0.020	59.0	0.015	79.5	0.013
-2.4	0.189	5.8	0.097	18.5	0.038	39.0	0.029	59.5	0.015	80.0	0.011
-2.2	0.204	6.0	0.098	19.0	0.034	39.5	0.028	60.0	0.019	80.5	0.009
-2.0	0.222	6.2	0.114	19.5	0.026	40.0	0.017	60.5	0.023	81.0	0.007
-1.8	0.236	6.4	0.132	20.0	0.024	40.5	0.011	61.0	0.025	81.5	0.005
-1.6	0.242	6.6	0.144	20.5	0.022	41.0	0.020	61.5	0.024	82.0	0.004
-1.4	0.244	6.8	0.145	21.0	0.016	41.5	0.026	62.0	0.021	82.5	0.003
-1.2	0.253	7.0	0.136	21.5	0.014	42.0	0.024	62.5	0.015	83.0	0.003
-1.0	0.285	7.2	0.115	22.0	0.009	42.5	0.018	63.0	0.010	83.5	0.003
-0.8	0.350	7.4	0.088	22.5	0.007	43.0	0.014	63.5	0.011	84.0	0.004
-0.6	0.444	7.6	0.060	23.0	0.030	43.5	0.017	64.0	0.016	84.5	0.004
-0.4	0.555	7.8	0.049	23.5	0.049	44.0	0.020	64.5	0.022	85.0	0.005
-0.2	0.673	8.0	0.063	24.0	0.054	44.5	0.020	65.0	0.025	85.5	0.005
0.0	0.784	8.2	0.087	24.5	0.045	45.0	0.017	65.5	0.024	86.0	0.005
0.2	0.879	8.4	0.106	25.0	0.032	45.5	0.014	66.0	0.021	86.5	0.005
0.4	0.951	8.6	0.116	25.5	0.031	46.0	0.014	66.5	0.016	87.0	0.005
0.6	0.992	8.8	0.115	26.0	0.033	46.5	0.013	67.0	0.010	87.5	0.005
0.8	1.000	9.0	0.102	26.5	0.031	47.0	0.011	67.5	0.004	88.0	0.005
1.0	0.973	9.2	0.081	27.0	0.032	47.5	0.009	68.0	0.007	88.5	0.004
1.2	0.914	9.4	0.053	27.5	0.037	48.0	0.008	68.5	0.013	89.0	0.004
1.4	0.829	9.6	0.024	28.0	0.036	48.5	0.007	69.0	0.018	89.5	0.003
1.6	0.724	9.8	0.018	28.5	0.026	49.0	0.003	69.5	0.022	90.0	0.000
1.8	0.608	10.0	0.038	29.0	0.024	49.5	0.004	70.0	0.024		
2.0	0.492	10.2	0.065	29.5	0.035	50.0	0.014	70.5	0.023		
2.2	0.388	10.4	0.086	30.0	0.038	50.5	0.023	71.0	0.022		