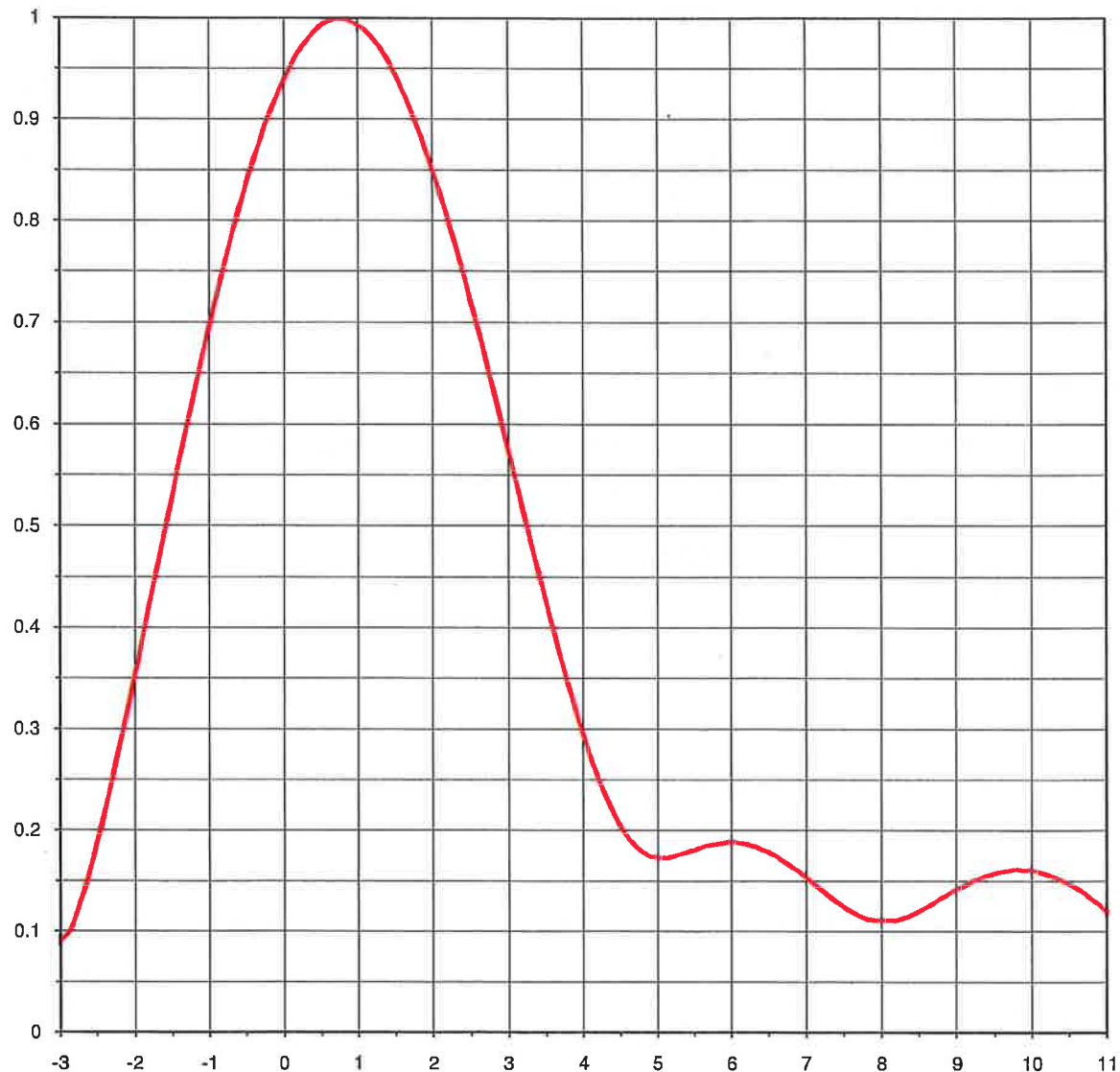




Proposal Number	C-04484	
Date	16-Dec-10	
Call Letters	WUNP	Channel 36
Location	Roanoke Rapids, NC	
Customer	University of Carolina	
Antenna Type	TFU-15JTH/VP-R 04	

ELEVATION PATTERN

RMS Gain at Main Lobe	15.00 (11.76 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.20 (11.21 dB)	Frequency	605.00 MHz
Calculated / Measured	Calculated	Drawing #	15J150075



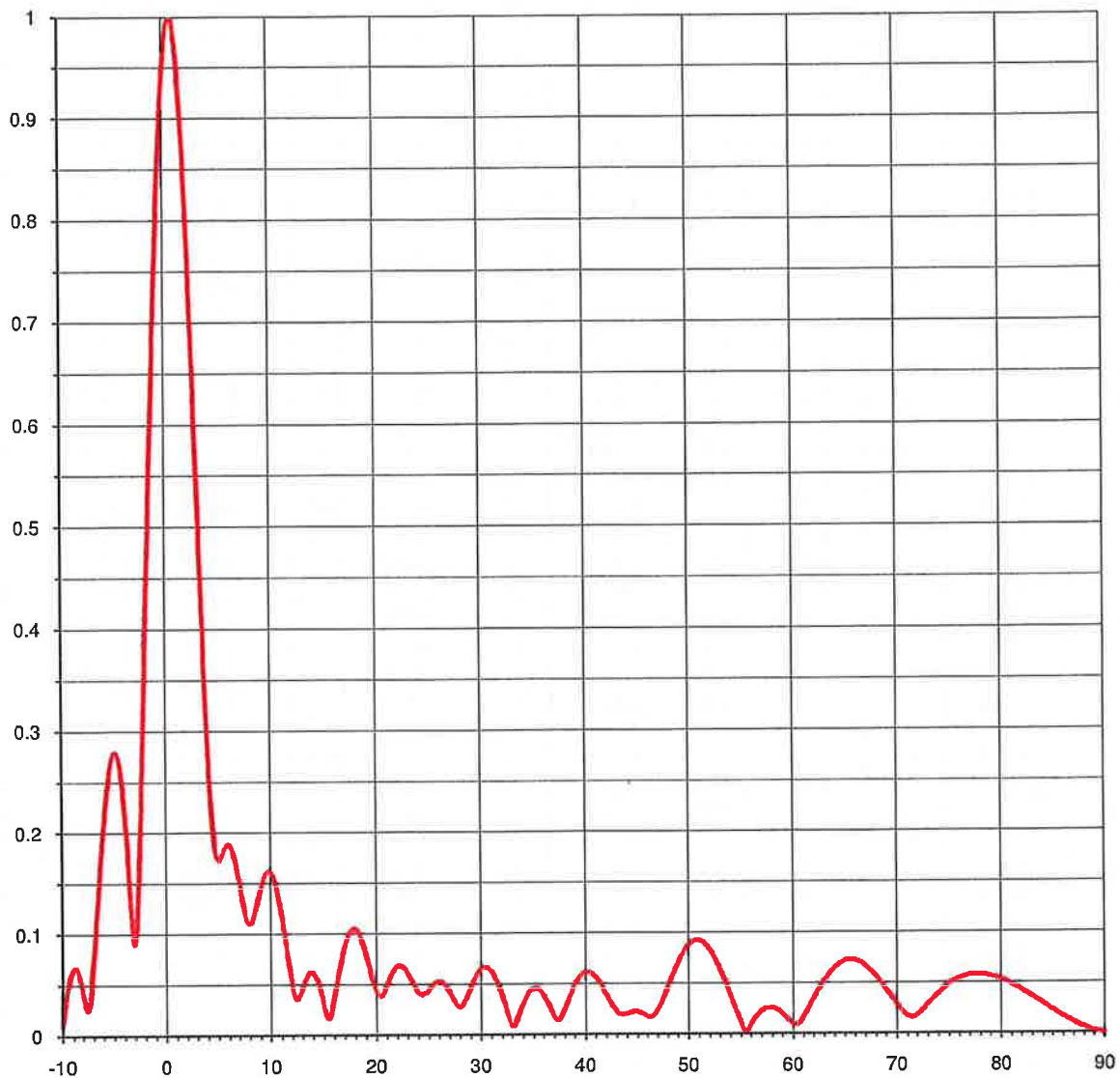
Degrees Below Horizontal



Proposal Number	C-04484	
Date	16-Dec-10	
Call Letters	WUNP	Channel 36
Location	Roanoke Rapids, NC	
Customer	University of Carolina	
Antenna Type	TFU-15JTH/VP-R 04	

ELEVATION PATTERN

RMS Gain at Main Lobe	15.00 (11.76 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.20 (11.21 dB)	Frequency	605.00 MHz
Calculated / Measured	Calculated	Drawing #	15J150075-90





Proposal Number **C-04484**
 Date **16-Dec-10**
 Call Letters **WUNP** Channel **36**
 Location **Roanoke Rapids, NC**
 Customer **University of Carolina**
 Antenna Type **TFU-15JTH/VP-R O4**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **15J150075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.012	2.4	0.751	10.6	0.147	30.5	0.067	51.0	0.093	71.5	0.017
-9.5	0.046	2.6	0.695	10.8	0.138	31.0	0.064	51.5	0.091	72.0	0.019
-9.0	0.065	2.8	0.636	11.0	0.127	31.5	0.056	52.0	0.085	72.5	0.024
-8.5	0.064	3.0	0.576	11.5	0.093	32.0	0.043	52.5	0.077	73.0	0.030
-8.0	0.043	3.2	0.515	12.0	0.058	32.5	0.026	53.0	0.067	73.5	0.035
-7.5	0.027	3.4	0.456	12.5	0.037	33.0	0.011	53.5	0.054	74.0	0.040
-7.0	0.073	3.6	0.398	13.0	0.044	33.5	0.014	54.0	0.041	74.5	0.045
-6.5	0.138	3.8	0.344	13.5	0.057	34.0	0.028	54.5	0.028	75.0	0.049
-6.0	0.202	4.0	0.295	14.0	0.062	34.5	0.038	55.0	0.015	75.5	0.052
-5.5	0.252	4.2	0.252	14.5	0.055	35.0	0.045	55.5	0.003	76.0	0.055
-5.0	0.278	4.4	0.218	15.0	0.037	35.5	0.045	56.0	0.008	76.5	0.057
-4.5	0.270	4.6	0.193	15.5	0.018	36.0	0.041	56.5	0.016	77.0	0.058
-4.0	0.226	4.8	0.179	16.0	0.031	36.5	0.032	57.0	0.022	77.5	0.058
-3.5	0.149	5.0	0.174	16.5	0.059	37.0	0.021	57.5	0.026	78.0	0.058
-3.0	0.091	5.2	0.175	17.0	0.083	37.5	0.015	58.0	0.026	78.5	0.058
-2.8	0.114	5.4	0.179	17.5	0.099	38.0	0.022	58.5	0.025	79.0	0.057
-2.6	0.161	5.6	0.184	18.0	0.105	38.5	0.035	59.0	0.021	79.5	0.055
-2.4	0.220	5.8	0.187	18.5	0.100	39.0	0.047	59.5	0.016	80.0	0.053
-2.2	0.286	6.0	0.189	19.0	0.085	39.5	0.056	60.0	0.011	80.5	0.051
-2.0	0.354	6.2	0.187	19.5	0.066	40.0	0.061	60.5	0.009	81.0	0.048
-1.8	0.425	6.4	0.182	20.0	0.046	40.5	0.061	61.0	0.015	81.5	0.046
-1.6	0.495	6.6	0.175	20.5	0.039	41.0	0.058	61.5	0.024	82.0	0.043
-1.4	0.565	6.8	0.165	21.0	0.047	41.5	0.051	62.0	0.034	82.5	0.040
-1.2	0.632	7.0	0.154	21.5	0.059	42.0	0.042	62.5	0.043	83.0	0.036
-1.0	0.697	7.2	0.142	22.0	0.067	42.5	0.033	63.0	0.051	83.5	0.033
-0.8	0.757	7.4	0.130	22.5	0.068	43.0	0.025	63.5	0.058	84.0	0.030
-0.6	0.812	7.6	0.120	23.0	0.063	43.5	0.020	64.0	0.064	84.5	0.026
-0.4	0.861	7.8	0.113	23.5	0.054	44.0	0.020	64.5	0.070	85.0	0.023
-0.2	0.904	8.0	0.111	24.0	0.044	44.5	0.022	65.0	0.072	85.5	0.020
0.0	0.939	8.2	0.112	24.5	0.040	45.0	0.023	65.5	0.073	86.0	0.017
0.2	0.967	8.4	0.117	25.0	0.043	45.5	0.021	66.0	0.073	86.5	0.014
0.4	0.986	8.6	0.125	25.5	0.049	46.0	0.019	66.5	0.071	87.0	0.011
0.6	0.997	8.8	0.134	26.0	0.052	46.5	0.018	67.0	0.067	87.5	0.008
0.8	1.000	9.0	0.142	26.5	0.051	47.0	0.023	67.5	0.062	88.0	0.006
1.0	0.994	9.2	0.150	27.0	0.045	47.5	0.032	68.0	0.057	88.5	0.004
1.2	0.980	9.4	0.156	27.5	0.035	48.0	0.044	68.5	0.050	89.0	0.002
1.4	0.959	9.6	0.160	28.0	0.029	48.5	0.057	69.0	0.043	89.5	0.001
1.6	0.929	9.8	0.161	28.5	0.032	49.0	0.069	69.5	0.036	90.0	0.000
1.8	0.893	10.0	0.161	29.0	0.043	49.5	0.079	70.0	0.028		
2.0	0.851	10.2	0.159	29.5	0.055	50.0	0.087	70.5	0.022		
2.2	0.803	10.4	0.154	30.0	0.064	50.5	0.092	71.0	0.018		

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Date
Call Letters
Location
Customer
Antenna Type

16-Dec-10
WUNP-DT Channel
Roanoke Rapids, NC
UN of North Carolina
TFU-15JTH/VP-R 04

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CALCULATED ELEVATION PATTERN

