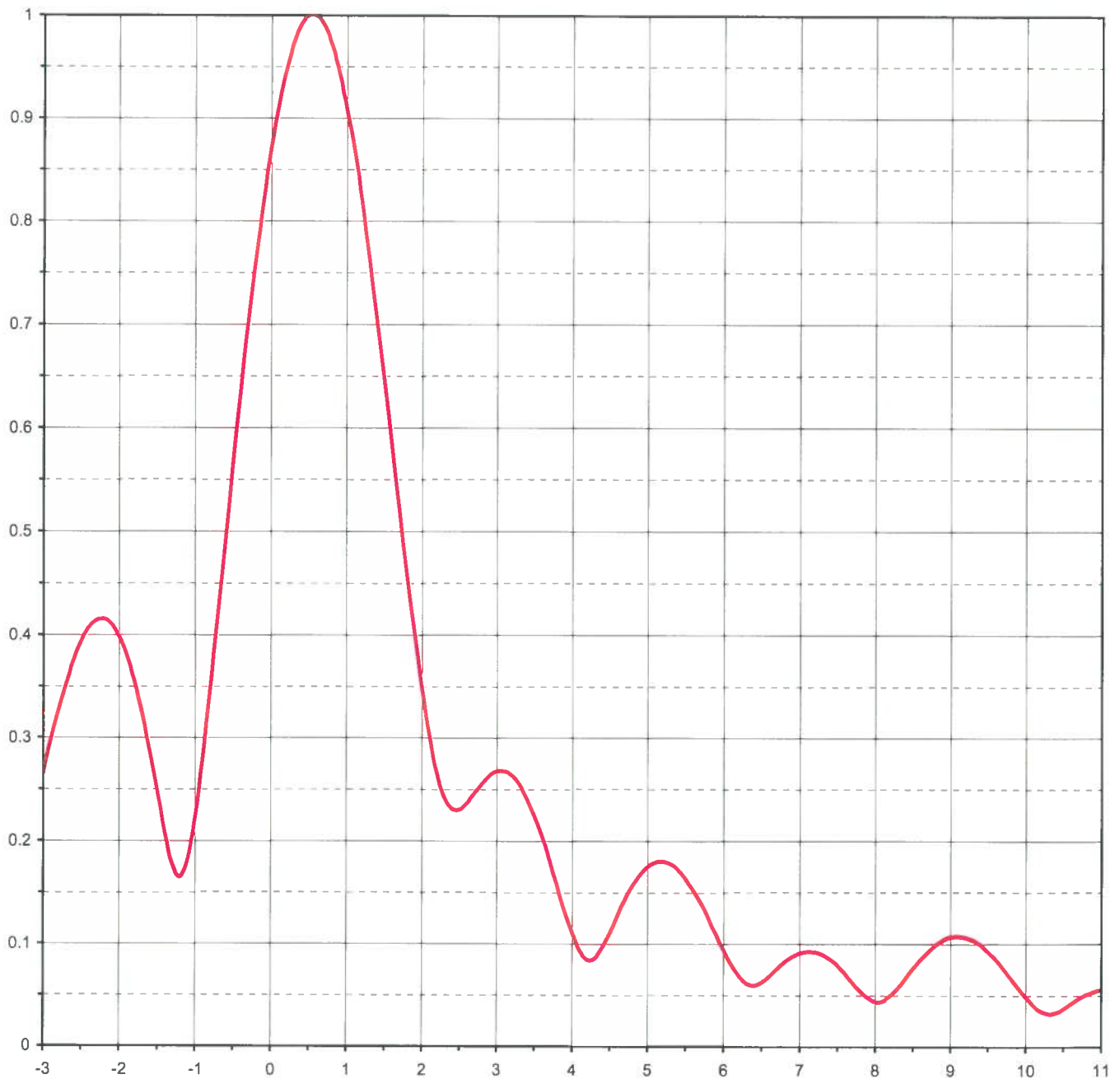




Proposal Number	DCA-10136		
Date	23-Dec-02		
Call Letters	WBGU	Channel	27
Location	Bowling Green, OH		
Customer	Bowling Green University		
Antenna Type	TUF-04-14/56H-1-T-R		

### ELEVATION PATTERN

RMS Gain at Main Lobe	26.78 ( 14.28 dB )	Beam Tilt	0.50 deg
RMS Gain at Horizontal	20.30 ( 13.07 dB )	Frequency	551.00 MHz
Calculated / Measured	Calculated	Drawing #	14U268050



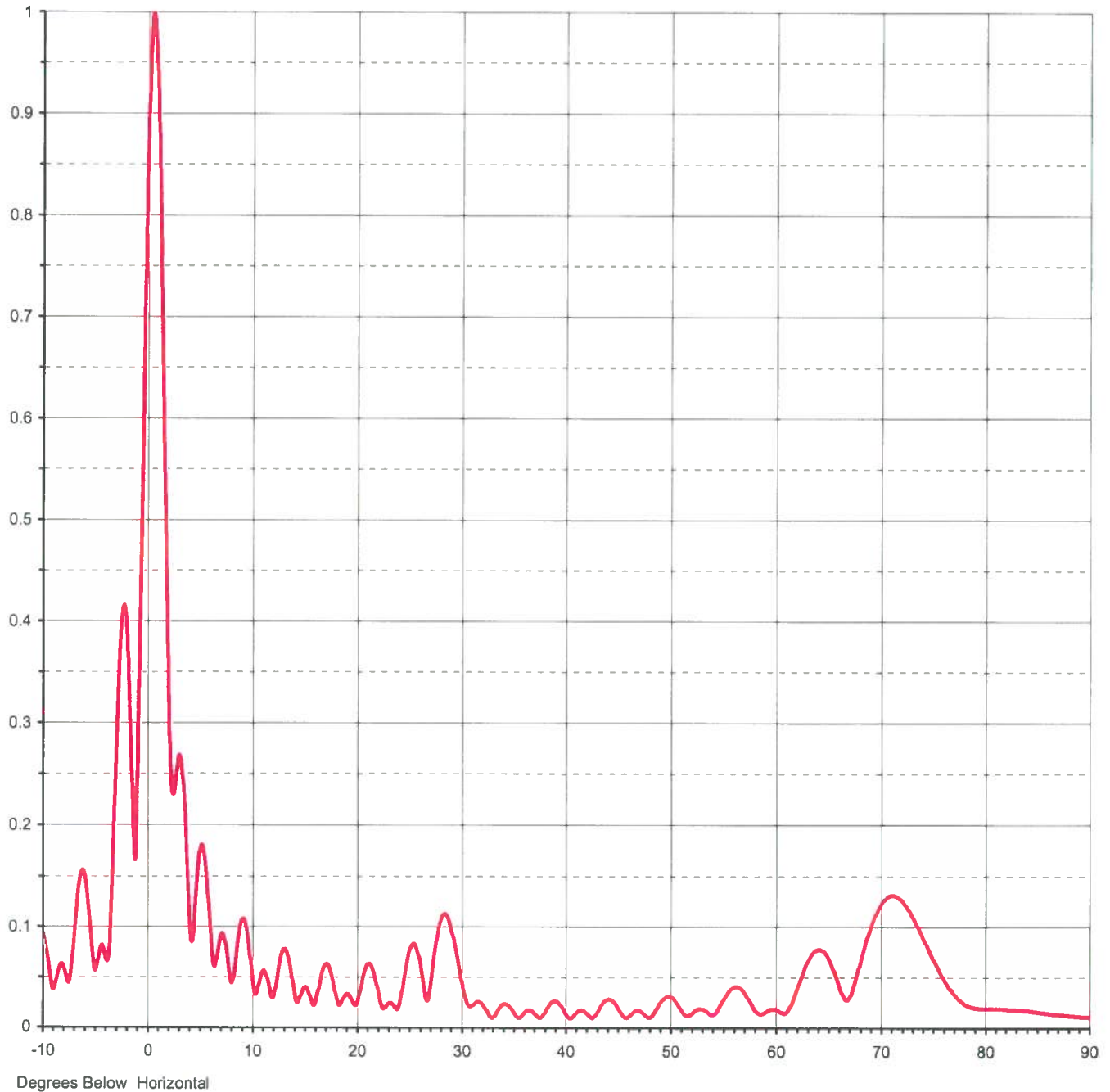
Degrees Below Horizontal



Proposal Number	DCA-10136		
Date	23-Dec-02		
Call Letters	WBGU	Channel	27
Location	Bowling Green, OH		
Customer	Bowling Green University		
Antenna Type	TUF-O4-14/56H-1-T-R		

### ELEVATION PATTERN

RMS Gain at Main Lobe	26.78 ( 14.28 dB )	Beam Tilt	0.50 deg
RMS Gain at Horizontal	20.30 ( 13.07 dB )	Frequency	551.00 MHz
Calculated / Measured	Calculated	Drawing #	14U268050-90





Proposal Number **DCA-10136**  
Date **23-Dec-02**  
Call Letters **WBGU** Channel **27**  
Location **Bowling Green, OH**  
Customer **Bowling Green University**  
Antenna Type **TUF-O4-14/56H-1-T-R**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U268050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.093	2.4	0.231	10.6	0.037	30.5	0.028	51.0	0.019	71.5	0.129
-9.5	0.068	2.6	0.236	10.8	0.047	31.0	0.021	51.5	0.012	72.0	0.125
-9.0	0.037	2.8	0.255	11.0	0.054	31.5	0.025	52.0	0.013	72.5	0.118
-8.5	0.056	3.0	0.268	11.5	0.049	32.0	0.024	52.5	0.017	73.0	0.109
-8.0	0.060	3.2	0.263	12.0	0.029	32.5	0.016	53.0	0.019	73.5	0.100
-7.5	0.044	3.4	0.241	12.5	0.053	33.0	0.009	53.5	0.016	74.0	0.089
-7.0	0.088	3.6	0.204	13.0	0.076	33.5	0.015	54.0	0.012	74.5	0.078
-6.5	0.144	3.8	0.157	13.5	0.070	34.0	0.022	54.5	0.016	75.0	0.068
-6.0	0.152	4.0	0.111	14.0	0.040	34.5	0.023	55.0	0.025	75.5	0.058
-5.5	0.104	4.2	0.084	14.5	0.025	35.0	0.016	55.5	0.034	76.0	0.048
-5.0	0.056	4.4	0.096	15.0	0.039	35.5	0.010	56.0	0.040	76.5	0.040
-4.5	0.078	4.6	0.127	15.5	0.034	36.0	0.013	56.5	0.040	77.0	0.033
-4.0	0.070	4.8	0.156	16.0	0.022	36.5	0.017	57.0	0.036	77.5	0.027
-3.5	0.110	5.0	0.175	16.5	0.044	37.0	0.015	57.5	0.028	78.0	0.023
-3.0	0.264	5.2	0.180	17.0	0.062	37.5	0.010	58.0	0.019	78.5	0.021
-2.8	0.325	5.4	0.172	17.5	0.057	38.0	0.013	58.5	0.014	79.0	0.020
-2.6	0.374	5.6	0.152	18.0	0.034	38.5	0.022	59.0	0.015	79.5	0.019
-2.4	0.406	5.8	0.125	18.5	0.022	39.0	0.026	59.5	0.018	80.0	0.019
-2.2	0.415	6.0	0.094	19.0	0.032	39.5	0.023	60.0	0.018	80.5	0.019
-2.0	0.399	6.2	0.069	19.5	0.029	40.0	0.016	60.5	0.015	81.0	0.019
-1.8	0.355	6.4	0.060	20.0	0.022	40.5	0.009	61.0	0.014	81.5	0.019
-1.6	0.288	6.6	0.068	20.5	0.042	41.0	0.013	61.5	0.022	82.0	0.019
-1.4	0.209	6.8	0.082	21.0	0.061	41.5	0.017	62.0	0.035	82.5	0.018
-1.2	0.165	7.0	0.091	21.5	0.060	42.0	0.015	62.5	0.050	83.0	0.018
-1.0	0.221	7.2	0.092	22.0	0.041	42.5	0.010	63.0	0.063	83.5	0.017
-0.8	0.346	7.4	0.085	22.5	0.020	43.0	0.013	63.5	0.072	84.0	0.017
-0.6	0.491	7.6	0.071	23.0	0.023	43.5	0.022	64.0	0.077	84.5	0.016
-0.4	0.634	7.8	0.054	23.5	0.022	44.0	0.027	64.5	0.075	85.0	0.016
-0.2	0.764	8.0	0.044	24.0	0.019	44.5	0.027	65.0	0.068	85.5	0.015
0.0	0.871	8.2	0.049	24.5	0.044	45.0	0.021	65.5	0.056	86.0	0.014
0.2	0.948	8.4	0.067	25.0	0.072	45.5	0.013	66.0	0.041	86.5	0.014
0.4	0.992	8.6	0.085	25.5	0.083	46.0	0.010	66.5	0.029	87.0	0.013
0.6	0.999	8.8	0.099	26.0	0.069	46.5	0.015	67.0	0.030	87.5	0.012
0.8	0.970	9.0	0.107	26.5	0.038	47.0	0.017	67.5	0.045	88.0	0.012
1.0	0.908	9.2	0.106	27.0	0.034	47.5	0.014	68.0	0.064	88.5	0.011
1.2	0.817	9.4	0.099	27.5	0.073	48.0	0.010	68.5	0.083	89.0	0.011
1.4	0.706	9.6	0.085	28.0	0.103	48.5	0.014	69.0	0.099	89.5	0.011
1.6	0.582	9.8	0.076	28.5	0.112	49.0	0.023	69.5	0.112	90.0	0.010
1.8	0.459	10.0	0.058	29.0	0.101	49.5	0.029	70.0	0.122		
2.0	0.348	10.2	0.040	29.5	0.079	50.0	0.031	70.5	0.128		
2.2	0.267	10.4	0.032	30.0	0.051	50.5	0.027	71.0	0.131		