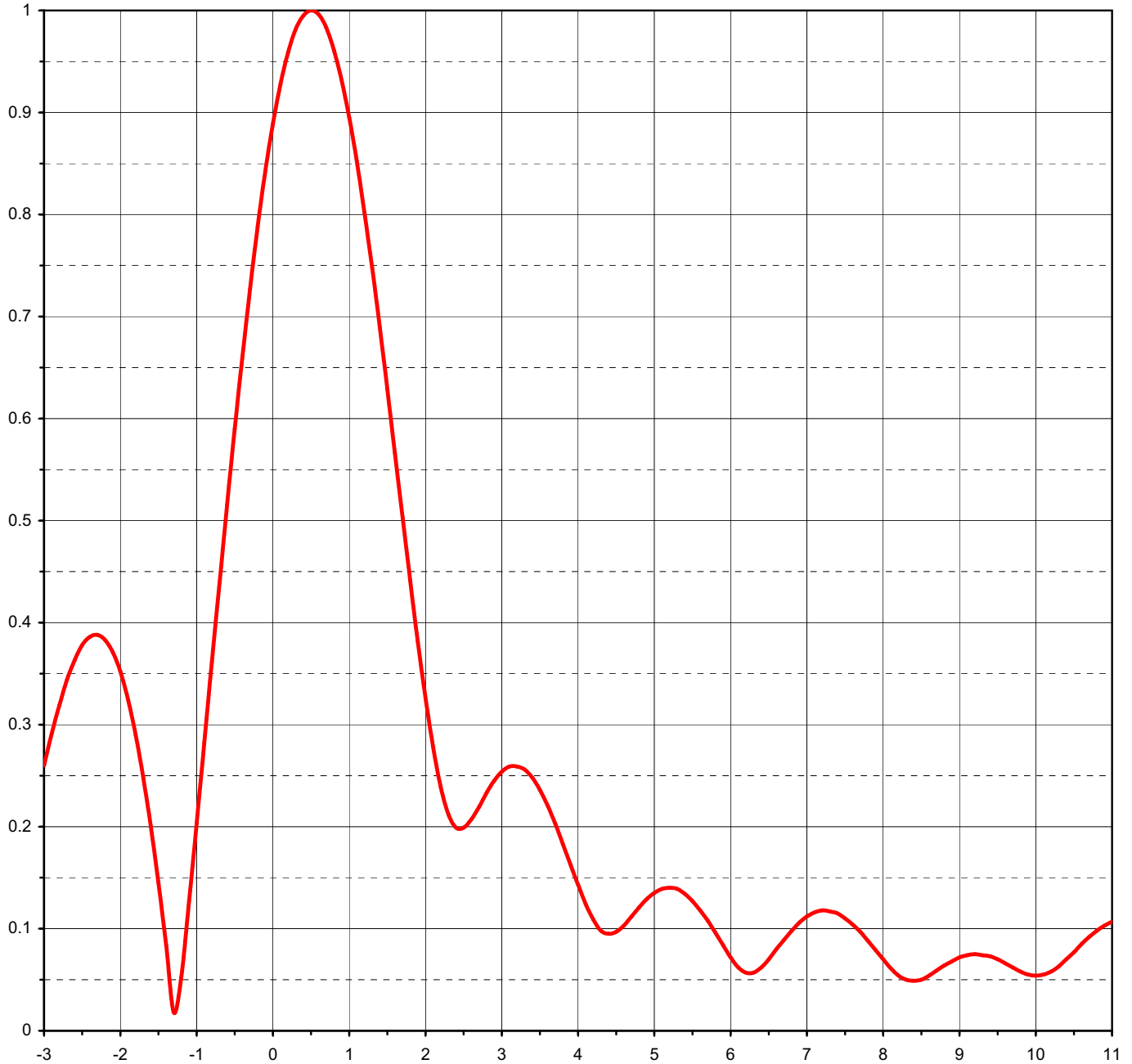




Proposal Number	C-02316	
Date	11-Feb-08	
Call Letters	KUPN-DT	Channel 23
Location	Sterling, CO	
Customer		
Antenna Type	TFU-29JTH-R O4	

ELEVATION PATTERN

RMS Gain at Main Lobe	28.50 (14.55 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	22.50 (13.52 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	29J285050



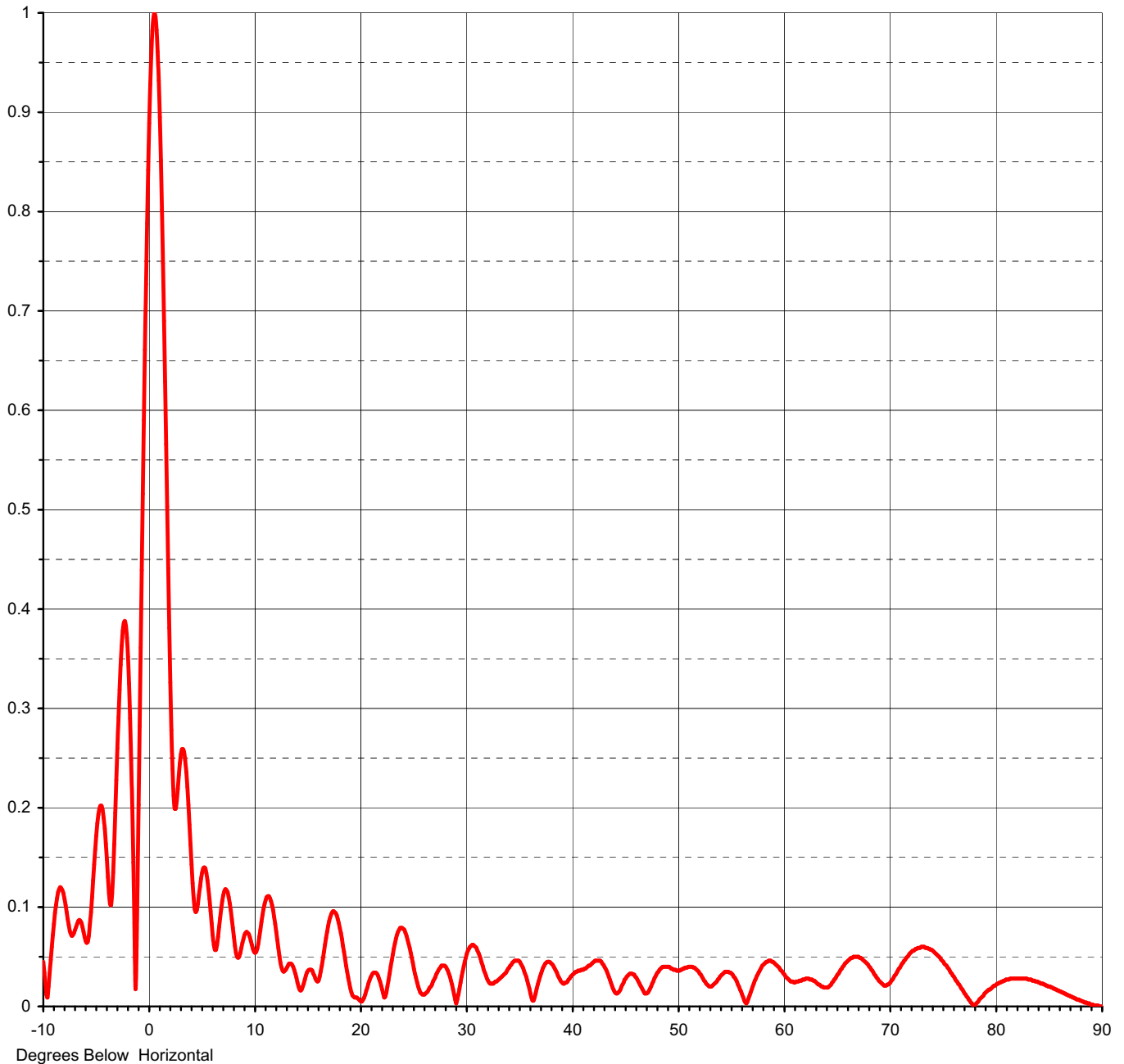
Degrees Below Horizontal



Proposal Number	C-02316		
Date	11-Feb-08		
Call Letters	KUPN-DT	Channel	23
Location	Sterling, CO		
Customer			
Antenna Type	TFU-29JTH-R 04		

ELEVATION PATTERN

RMS Gain at Main Lobe	28.50 (14.55 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	22.50 (13.52 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	29J285050-90





Proposal Number **C-02316**
Date **11-Feb-08**
Call Letters **KUPN-DT** Channel **23**
Location **Sterling, CO**
Customer
Antenna Type **TFU-29JTH-R O4**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **29J285050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.045	2.4	0.199	10.6	0.077	30.5	0.061	51.0	0.040	71.5	0.049
-9.5	0.020	2.6	0.207	10.8	0.092	31.0	0.059	51.5	0.039	72.0	0.055
-9.0	0.083	2.8	0.233	11.0	0.103	31.5	0.044	52.0	0.035	72.5	0.058
-8.5	0.118	3.0	0.254	11.5	0.109	32.0	0.028	52.5	0.026	73.0	0.060
-8.0	0.108	3.2	0.259	12.0	0.083	32.5	0.023	53.0	0.020	73.5	0.059
-7.5	0.076	3.4	0.248	12.5	0.044	33.0	0.026	53.5	0.023	74.0	0.056
-7.0	0.077	3.6	0.221	13.0	0.037	33.5	0.031	54.0	0.030	74.5	0.051
-6.5	0.086	3.8	0.183	13.5	0.043	34.0	0.038	54.5	0.035	75.0	0.045
-6.0	0.066	4.0	0.143	14.0	0.029	34.5	0.045	55.0	0.034	75.5	0.038
-5.5	0.095	4.2	0.109	14.5	0.017	35.0	0.046	55.5	0.027	76.0	0.030
-5.0	0.172	4.4	0.095	15.0	0.034	35.5	0.036	56.0	0.015	76.5	0.022
-4.5	0.202	4.6	0.103	15.5	0.036	36.0	0.018	56.5	0.003	77.0	0.013
-4.0	0.148	4.8	0.121	16.0	0.025	36.5	0.009	57.0	0.017	77.5	0.006
-3.5	0.114	5.0	0.135	16.5	0.048	37.0	0.030	57.5	0.031	78.0	0.001
-3.0	0.260	5.2	0.140	17.0	0.081	37.5	0.043	58.0	0.041	78.5	0.008
-2.8	0.319	5.4	0.134	17.5	0.096	38.0	0.044	58.5	0.045	79.0	0.014
-2.6	0.363	5.6	0.118	18.0	0.084	38.5	0.036	59.0	0.045	79.5	0.018
-2.4	0.386	5.8	0.096	18.5	0.055	39.0	0.025	59.5	0.040	80.0	0.022
-2.2	0.383	6.0	0.072	19.0	0.023	39.5	0.024	60.0	0.033	80.5	0.025
-2.0	0.352	6.2	0.057	19.5	0.009	40.0	0.031	60.5	0.027	81.0	0.027
-1.8	0.290	6.4	0.062	20.0	0.006	40.5	0.035	61.0	0.024	81.5	0.028
-1.6	0.200	6.6	0.080	20.5	0.012	41.0	0.037	61.5	0.026	82.0	0.028
-1.4	0.084	6.8	0.098	21.0	0.029	41.5	0.040	62.0	0.027	82.5	0.028
-1.2	0.053	7.0	0.112	21.5	0.034	42.0	0.044	62.5	0.027	83.0	0.027
-1.0	0.203	7.2	0.118	22.0	0.021	42.5	0.046	63.0	0.025	83.5	0.026
-0.8	0.361	7.4	0.115	22.5	0.014	43.0	0.042	63.5	0.021	84.0	0.024
-0.6	0.516	7.6	0.104	23.0	0.046	43.5	0.030	64.0	0.019	84.5	0.022
-0.4	0.661	7.8	0.088	23.5	0.072	44.0	0.016	64.5	0.024	85.0	0.020
-0.2	0.788	8.0	0.070	24.0	0.079	44.5	0.015	65.0	0.032	85.5	0.018
0.0	0.889	8.2	0.054	24.5	0.067	45.0	0.027	65.5	0.040	86.0	0.015
0.2	0.959	8.4	0.049	25.0	0.044	45.5	0.033	66.0	0.046	86.5	0.013
0.4	0.995	8.6	0.054	25.5	0.020	46.0	0.030	66.5	0.050	87.0	0.010
0.6	0.996	8.8	0.064	26.0	0.012	46.5	0.021	67.0	0.050	87.5	0.008
0.8	0.961	9.0	0.072	26.5	0.017	47.0	0.013	67.5	0.046	88.0	0.006
1.0	0.895	9.2	0.075	27.0	0.027	47.5	0.020	68.0	0.040	88.5	0.004
1.2	0.802	9.4	0.073	27.5	0.038	48.0	0.032	68.5	0.032	89.0	0.002
1.4	0.690	9.6	0.066	28.0	0.041	48.5	0.039	69.0	0.025	89.5	0.001
1.6	0.566	9.8	0.062	28.5	0.030	49.0	0.040	69.5	0.021	90.0	0.000
1.8	0.441	10.0	0.055	29.0	0.007	49.5	0.038	70.0	0.024		
2.0	0.326	10.2	0.055	29.5	0.024	50.0	0.036	70.5	0.032		
2.2	0.239	10.4	0.063	30.0	0.049	50.5	0.038	71.0	0.041		

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