



Proposal Number

Revision

Date

05 Nov 2004

Call Letters

KUPN-DT

Channel

23

Location

Sterling, CO

Customer

Antenna Type

TFU-30DSC-R 04**ELEVATION PATTERN**

RMS Gain at Main Lobe

25.5 (14.07 dB)

Beam Tilt

0.50 Degrees

RMS Gain at Horizontal

21.0 (13.22 dB)

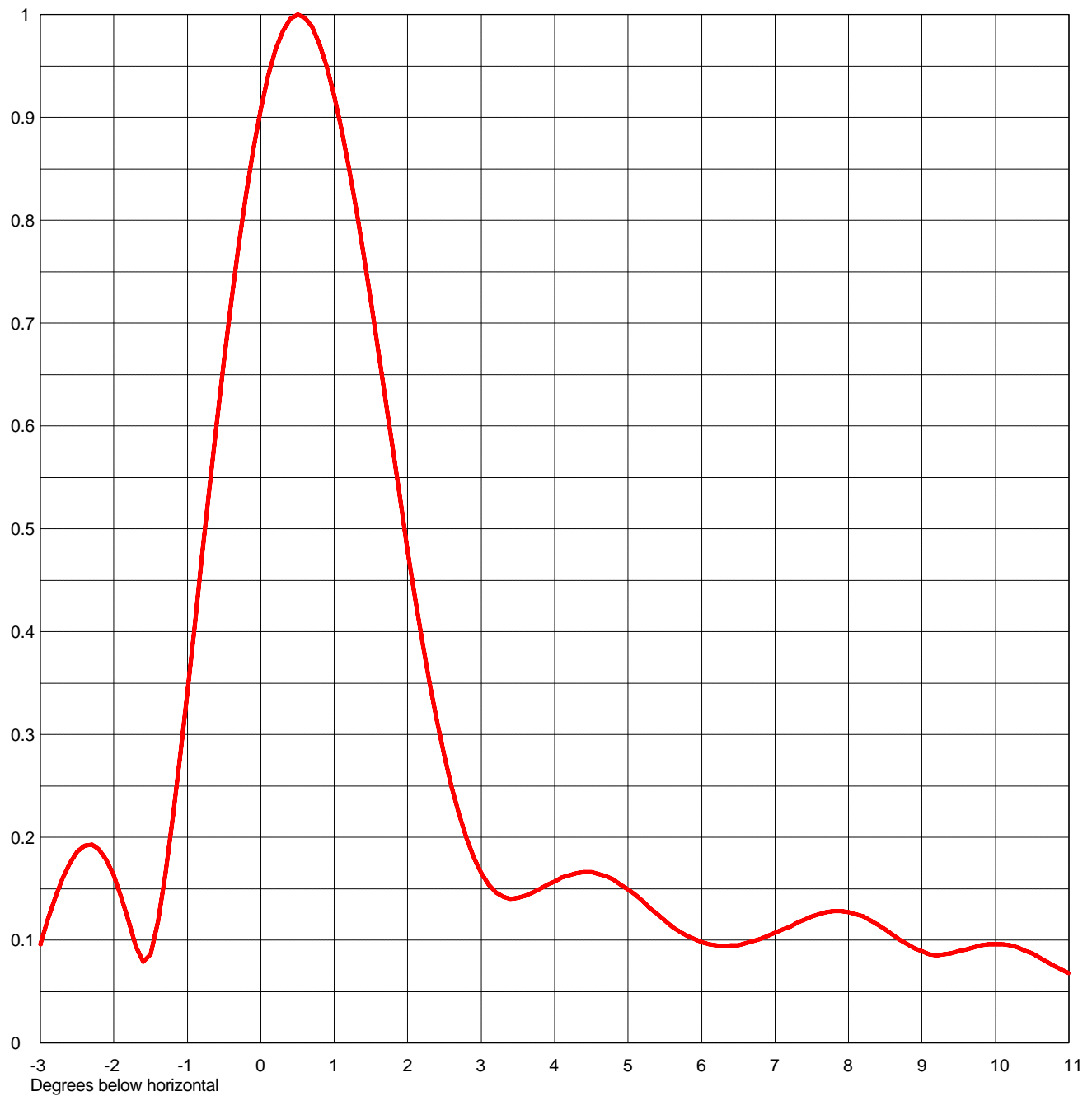
Frequency

527.00 MHz

Calculated / Measured

Calculated

Drawing #

30Q255050

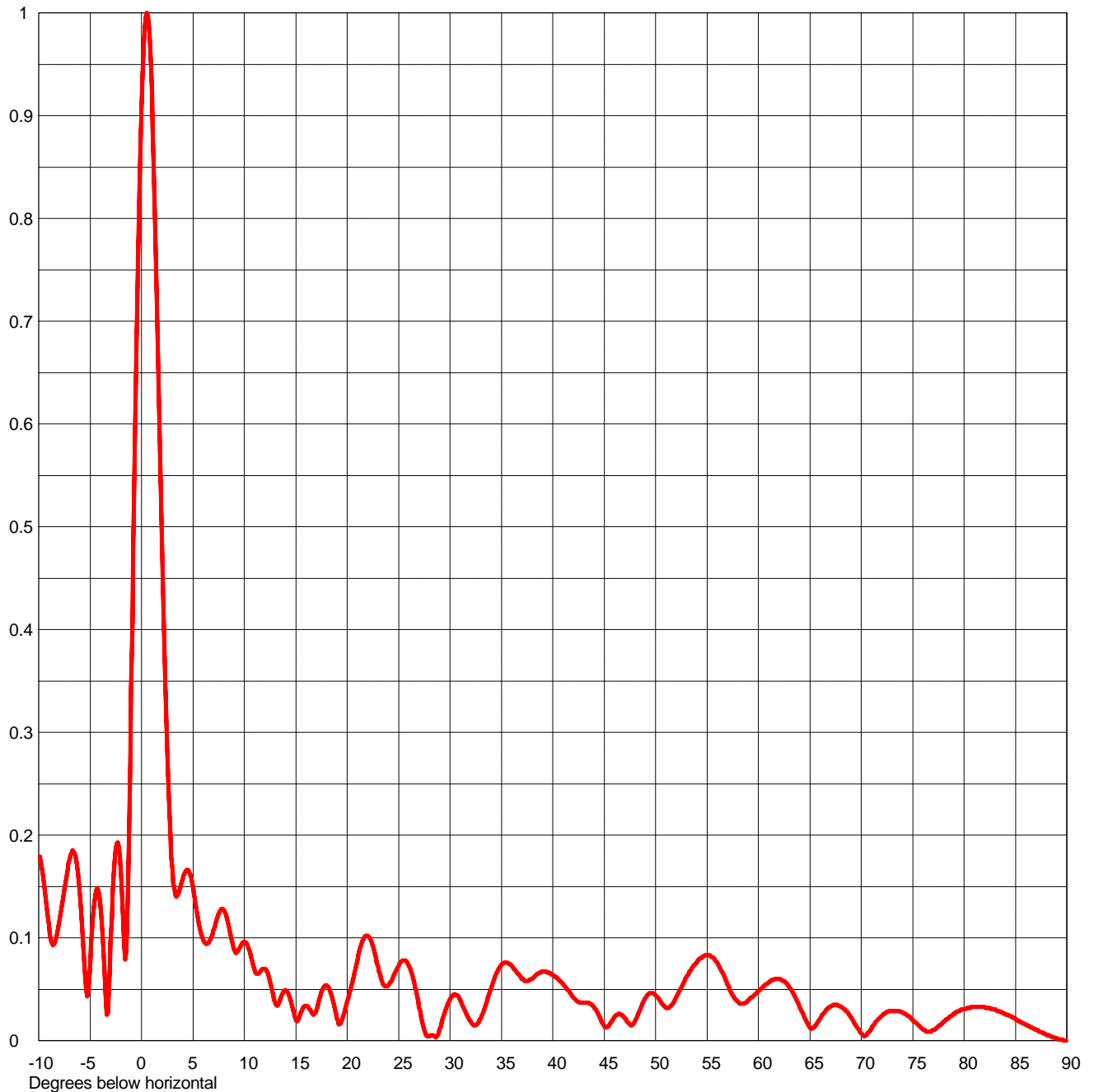
Remarks:



Proposal Number		Revision	
Date	05 Nov 2004		
Call Letters	KUPN-DT	Channel	23
Location	Sterling, CO		
Customer			
Antenna Type	TFU-30DSC-R 04		

ELEVATION PATTERN

RMS Gain at Main Lobe	25.5 (14.07 dB)	Beam Tilt	0.50 Degrees
RMS Gain at Horizontal	21.0 (13.22 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	30Q255050-90



Remarks:



Proposal Number
 Date **05 Nov 2004**
 Call Letters **KUPN-DT** Channel **23**
 Location **Sterling, CO**
 Customer
 Antenna Type **TFU-30DSC-R O4**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **30Q255050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.183	2.4	0.313	10.6	0.083	30.5	0.045	51.0	0.032	71.5	0.019
-9.5	0.153	2.6	0.248	10.8	0.075	31.0	0.039	51.5	0.034	72.0	0.024
-9.0	0.110	2.8	0.199	11.0	0.068	31.5	0.029	52.0	0.042	72.5	0.028
-8.5	0.094	3.0	0.165	11.5	0.066	32.0	0.019	52.5	0.052	73.0	0.029
-8.0	0.116	3.2	0.146	12.0	0.070	32.5	0.015	53.0	0.062	73.5	0.029
-7.5	0.148	3.4	0.140	12.5	0.057	33.0	0.022	53.5	0.070	74.0	0.027
-7.0	0.177	3.6	0.143	13.0	0.037	33.5	0.035	54.0	0.076	74.5	0.024
-6.5	0.182	3.8	0.150	13.5	0.040	34.0	0.051	54.5	0.081	75.0	0.020
-6.0	0.143	4.0	0.157	14.0	0.049	34.5	0.065	55.0	0.083	75.5	0.016
-5.5	0.063	4.2	0.163	14.5	0.039	35.0	0.074	55.5	0.081	76.0	0.011
-5.0	0.076	4.4	0.166	15.0	0.020	35.5	0.076	56.0	0.076	76.5	0.009
-4.5	0.140	4.6	0.164	15.5	0.027	36.0	0.073	56.5	0.066	77.0	0.010
-4.0	0.132	4.8	0.159	16.0	0.034	36.5	0.066	57.0	0.055	77.5	0.014
-3.5	0.043	5.0	0.149	16.5	0.028	37.0	0.060	57.5	0.044	78.0	0.018
-3.0	0.096	5.2	0.138	17.0	0.029	37.5	0.058	58.0	0.038	78.5	0.022
-2.8	0.141	5.4	0.125	17.5	0.047	38.0	0.060	58.5	0.036	79.0	0.026
-2.6	0.175	5.6	0.113	18.0	0.054	38.5	0.065	59.0	0.039	79.5	0.029
-2.4	0.192	5.8	0.104	18.5	0.043	39.0	0.067	59.5	0.043	80.0	0.031
-2.2	0.188	6.0	0.098	19.0	0.022	39.5	0.066	60.0	0.048	80.5	0.032
-2.0	0.163	6.2	0.095	19.5	0.020	40.0	0.064	60.5	0.053	81.0	0.033
-1.8	0.119	6.4	0.095	20.0	0.038	40.5	0.060	61.0	0.057	81.5	0.033
-1.6	0.079	6.6	0.097	20.5	0.057	41.0	0.055	61.5	0.059	82.0	0.033
-1.4	0.118	6.8	0.101	21.0	0.079	41.5	0.049	62.0	0.060	82.5	0.032
-1.2	0.219	7.0	0.107	21.5	0.097	42.0	0.042	62.5	0.058	83.0	0.030
-1.0	0.342	7.2	0.113	22.0	0.102	42.5	0.038	63.0	0.052	83.5	0.028
-0.8	0.472	7.4	0.120	22.5	0.092	43.0	0.037	63.5	0.044	84.0	0.026
-0.6	0.601	7.6	0.125	23.0	0.072	43.5	0.037	64.0	0.033	84.5	0.024
-0.4	0.721	7.8	0.128	23.5	0.055	44.0	0.033	64.5	0.022	85.0	0.021
-0.2	0.825	8.0	0.127	24.0	0.054	44.5	0.024	65.0	0.013	85.5	0.018
0.0	0.908	8.2	0.123	24.5	0.063	45.0	0.014	65.5	0.014	86.0	0.016
0.2	0.966	8.4	0.115	25.0	0.073	45.5	0.015	66.0	0.021	86.5	0.013
0.4	0.996	8.6	0.105	25.5	0.078	46.0	0.023	66.5	0.029	87.0	0.011
0.6	0.997	8.8	0.096	26.0	0.073	46.5	0.026	67.0	0.033	87.5	0.008
0.8	0.971	9.0	0.089	26.5	0.057	47.0	0.022	67.5	0.035	88.0	0.006
1.0	0.921	9.2	0.085	27.0	0.033	47.5	0.016	68.0	0.033	88.5	0.004
1.2	0.851	9.4	0.087	27.5	0.011	48.0	0.019	68.5	0.029	89.0	0.002
1.4	0.766	9.6	0.091	28.0	0.004	48.5	0.031	69.0	0.023	89.5	0.001
1.6	0.672	9.8	0.095	28.5	0.004	49.0	0.041	69.5	0.015	90.0	0.000
1.8	0.575	10.0	0.096	29.0	0.011	49.5	0.046	70.0	0.007		
2.0	0.479	10.2	0.095	29.5	0.027	50.0	0.044	70.5	0.005		
2.2	0.391	10.4	0.090	30.0	0.040	50.5	0.038	71.0	0.012		

Remarks: