



Date **13 Mar 2008**
Call Letters **KNSO** Channel **11**
Location **MERCED, CA**
Customer
Antenna Type **THA-C2-8/16-1**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **THA-C2**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.001	0.0	-43.01
10	0.001	0.0	-43.01
20	0.001	0.0	-43.01
30	0.001	0.0	-43.01
40	0.001	0.0	-43.01
50	0.001	0.0	-43.01
60	0.001	0.0	-43.01
70	0.001	0.0	-43.01
80	0.001	0.0	-43.01
90	0.001	0.0	-43.01
100	0.033	0.1	-12.64
110	0.124	0.8	-1.14
120	0.254	3.2	5.09
130	0.405	8.2	9.14
140	0.562	15.8	11.98
150	0.707	25.0	13.98
160	0.825	34.0	15.32
170	0.902	40.7	16.09
180	0.933	43.5	16.39
190	0.891	39.7	15.99
200	0.834	34.8	15.41
210	0.881	38.8	15.89
220	0.978	47.8	16.80
230	0.990	49.0	16.90
240	0.901	40.6	16.08
250	0.834	34.8	15.41
260	0.876	38.4	15.84
270	0.932	43.4	16.38
280	0.913	41.7	16.20
290	0.844	35.6	15.52
300	0.733	26.9	14.29
310	0.593	17.6	12.45
320	0.437	9.5	9.80
330	0.283	4.0	6.03
340	0.147	1.1	0.34
350	0.047	0.1	-9.57

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
181	0.933	43.5	16.39
226	1.000	50.0	16.99
271	0.933	43.5	16.39

Minima

Angle	Field	ERP (kW)	ERP (dBk)
46	0.001	0.0	-43.01
201	0.833	34.7	15.40
251	0.833	34.7	15.40

Remarks:



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KNSO
MERCED, CA
THA-C2-8/16-1

Channel 11

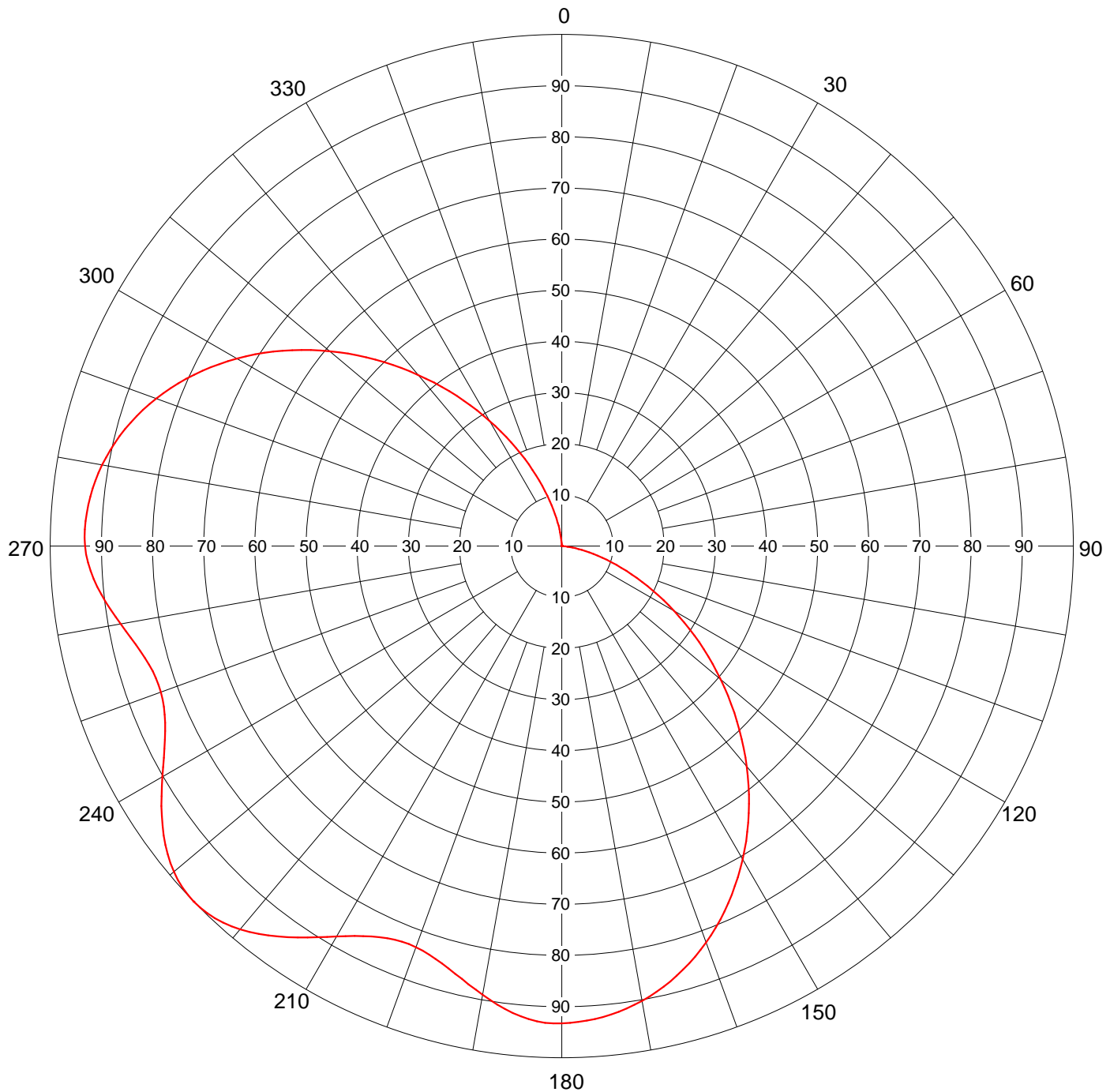
AZIMUTH PATTERN

Gain
Calculated / Measured

2.70 (4.31 dB)
Calculated

Frequency
Drawing #

201 MHz
THA-C2



Remarks:



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TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **08H080060**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.280	2.4	0.903	10.6	0.187	30.5	0.019	51.0	0.064	71.5	0.117
-9.5	0.281	2.6	0.882	10.8	0.186	31.0	0.037	51.5	0.076	72.0	0.117
-9.0	0.273	2.8	0.858	11.0	0.184	31.5	0.055	52.0	0.086	72.5	0.116
-8.5	0.255	3.0	0.833	11.5	0.174	32.0	0.071	52.5	0.096	73.0	0.115
-8.0	0.228	3.2	0.806	12.0	0.156	32.5	0.085	53.0	0.104	73.5	0.114
-7.5	0.195	3.4	0.778	12.5	0.132	33.0	0.096	53.5	0.110	74.0	0.112
-7.0	0.164	3.6	0.748	13.0	0.102	33.5	0.105	54.0	0.115	74.5	0.110
-6.5	0.148	3.8	0.717	13.5	0.069	34.0	0.111	54.5	0.119	75.0	0.107
-6.0	0.167	4.0	0.685	14.0	0.034	34.5	0.114	55.0	0.121	75.5	0.104
-5.5	0.220	4.2	0.652	14.5	0.002	35.0	0.114	55.5	0.121	76.0	0.101
-5.0	0.293	4.4	0.619	15.0	0.036	35.5	0.111	56.0	0.120	76.5	0.097
-4.5	0.378	4.6	0.584	15.5	0.068	36.0	0.105	56.5	0.118	77.0	0.093
-4.0	0.467	4.8	0.550	16.0	0.097	36.5	0.098	57.0	0.114	77.5	0.089
-3.5	0.558	5.0	0.515	16.5	0.122	37.0	0.088	57.5	0.110	78.0	0.085
-3.0	0.646	5.2	0.480	17.0	0.141	37.5	0.077	58.0	0.104	78.5	0.081
-2.8	0.680	5.4	0.445	17.5	0.154	38.0	0.065	58.5	0.097	79.0	0.077
-2.6	0.713	5.6	0.410	18.0	0.162	38.5	0.054	59.0	0.090	79.5	0.072
-2.4	0.745	5.8	0.376	18.5	0.164	39.0	0.045	59.5	0.083	80.0	0.068
-2.2	0.775	6.0	0.343	19.0	0.160	39.5	0.039	60.0	0.075	80.5	0.063
-2.0	0.804	6.2	0.310	19.5	0.152	40.0	0.039	60.5	0.067	81.0	0.059
-1.8	0.832	6.4	0.279	20.0	0.138	40.5	0.044	61.0	0.060	81.5	0.054
-1.6	0.857	6.6	0.249	20.5	0.122	41.0	0.051	61.5	0.054	82.0	0.050
-1.4	0.881	6.8	0.221	21.0	0.103	41.5	0.059	62.0	0.049	82.5	0.045
-1.2	0.903	7.0	0.195	21.5	0.084	42.0	0.066	62.5	0.047	83.0	0.041
-1.0	0.923	7.2	0.172	22.0	0.066	42.5	0.072	63.0	0.047	83.5	0.037
-0.8	0.941	7.4	0.153	22.5	0.053	43.0	0.077	63.5	0.050	84.0	0.033
-0.6	0.956	7.6	0.137	23.0	0.048	43.5	0.079	64.0	0.054	84.5	0.029
-0.4	0.970	7.8	0.126	23.5	0.053	44.0	0.080	64.5	0.059	85.0	0.025
-0.2	0.981	8.0	0.120	24.0	0.064	44.5	0.078	65.0	0.065	85.5	0.022
0.0	0.989	8.2	0.119	24.5	0.074	45.0	0.074	65.5	0.072	86.0	0.018
0.2	0.995	8.4	0.122	25.0	0.084	45.5	0.068	66.0	0.078	86.5	0.015
0.4	0.999	8.6	0.128	25.5	0.090	46.0	0.060	66.5	0.084	87.0	0.012
0.6	1.000	8.8	0.135	26.0	0.092	46.5	0.051	67.0	0.090	87.5	0.009
0.8	0.999	9.0	0.144	26.5	0.091	47.0	0.040	67.5	0.095	88.0	0.006
1.0	0.995	9.2	0.153	27.0	0.087	47.5	0.029	68.0	0.100	88.5	0.004
1.2	0.989	9.4	0.161	27.5	0.078	48.0	0.016	68.5	0.104	89.0	0.002
1.4	0.980	9.6	0.168	28.0	0.067	48.5	0.002	69.0	0.108	89.5	0.001
1.6	0.969	9.8	0.174	28.5	0.053	49.0	0.011	69.5	0.111	90.0	0.000
1.8	0.956	10.0	0.179	29.0	0.037	49.5	0.025	70.0	0.113		
2.0	0.941	10.2	0.183	29.5	0.019	50.0	0.039	70.5	0.115		
2.2	0.923	10.4	0.186	30.0	0.000	50.5	0.052	71.0	0.116		

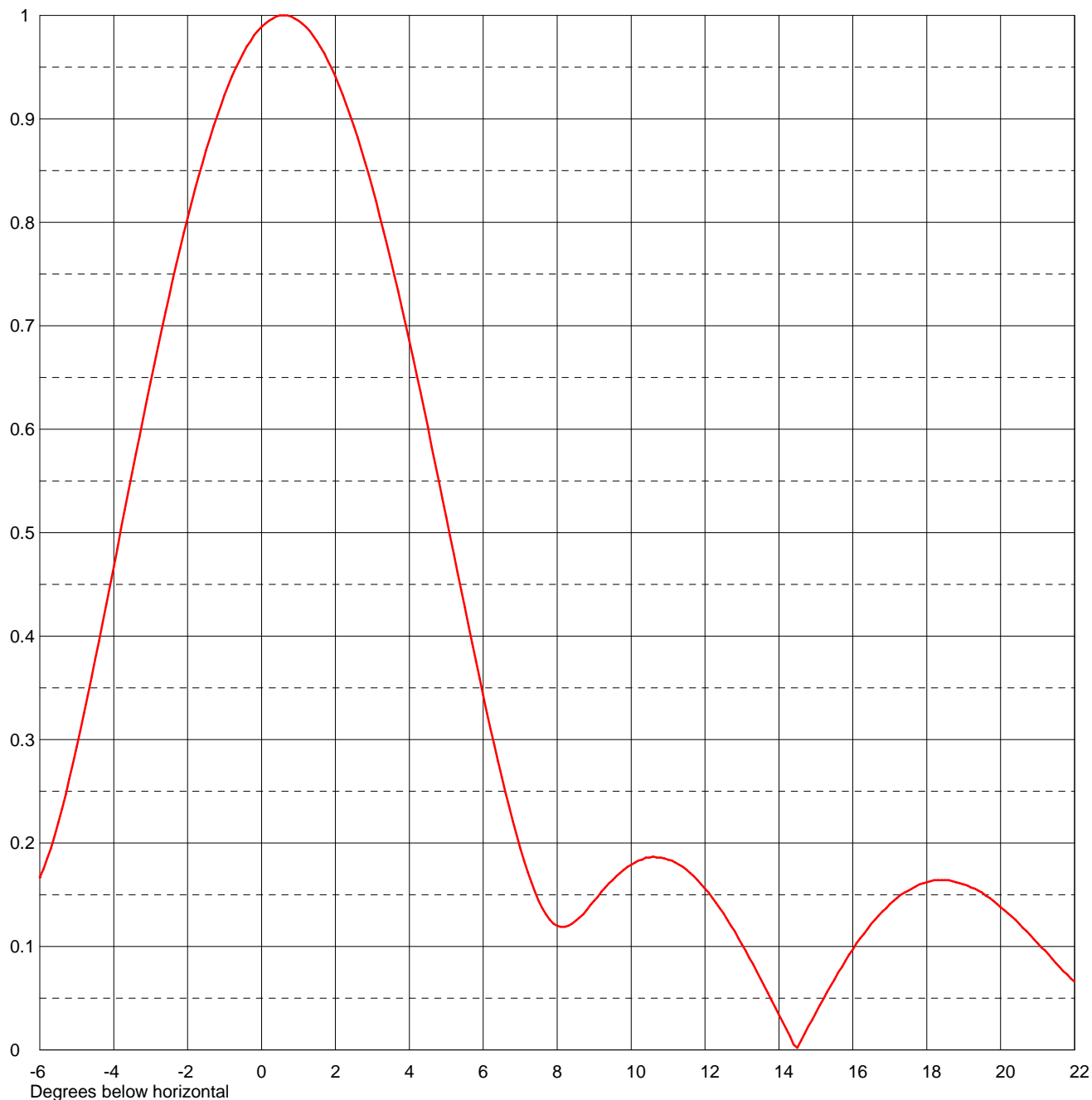
Remarks:



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ELEVATION PATTERN

RMS Gain at Main Lobe	8.0 (9.03 dB)	Beam Tilt	0.60 Degrees
RMS Gain at Horizontal	7.8 (8.92 dB)	Frequency	201.00 MHz
Calculated / Measured	Calculated	Drawing #	08H080060



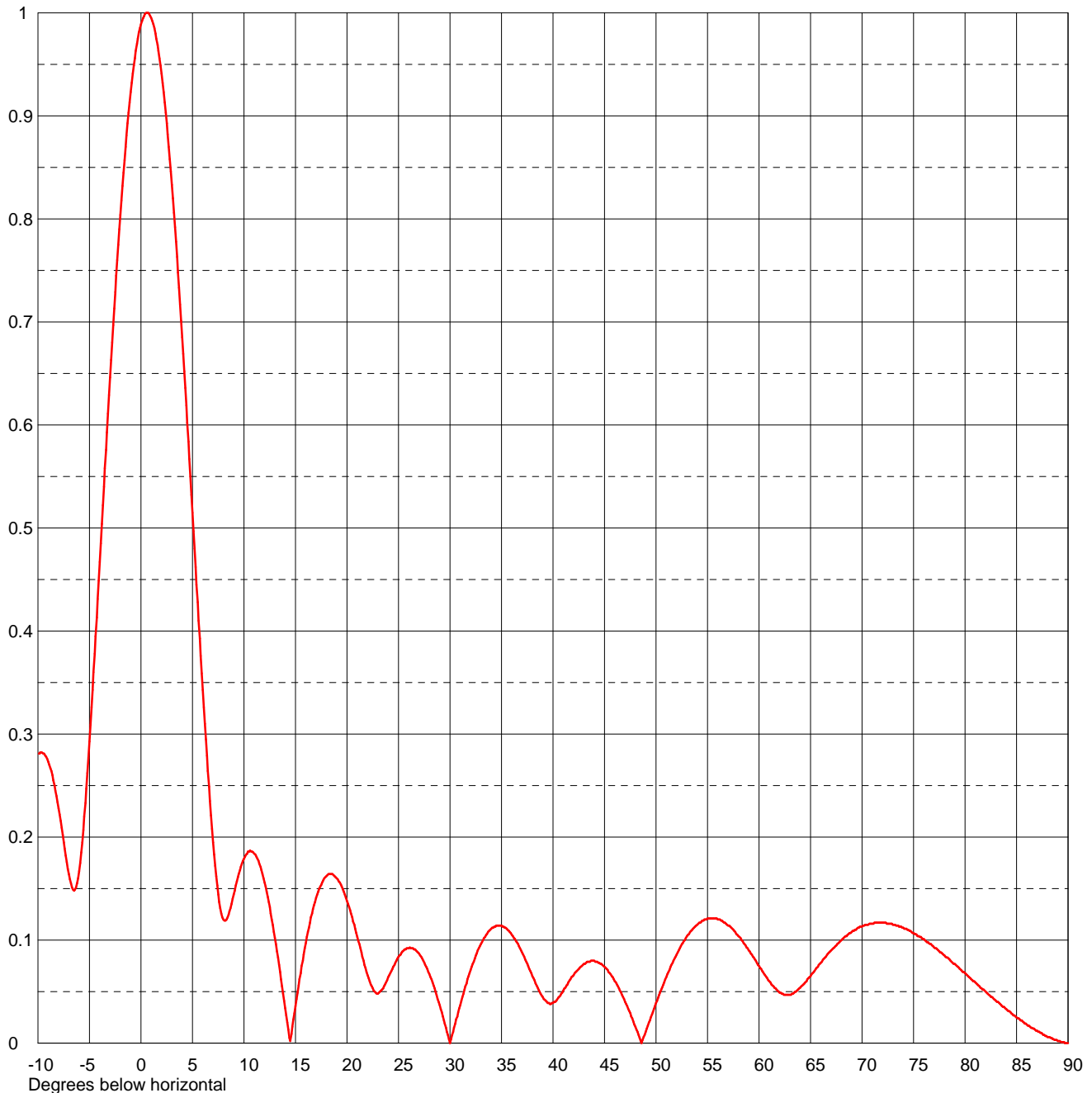
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ELEVATION PATTERN

RMS Gain at Main Lobe	8.0 (9.03 dB)	Beam Tilt	0.60 Degrees
RMS Gain at Horizontal	7.8 (8.92 dB)	Frequency	201.00 MHz
Calculated / Measured	Calculated	Drawing #	08H080060-90



Remarks: