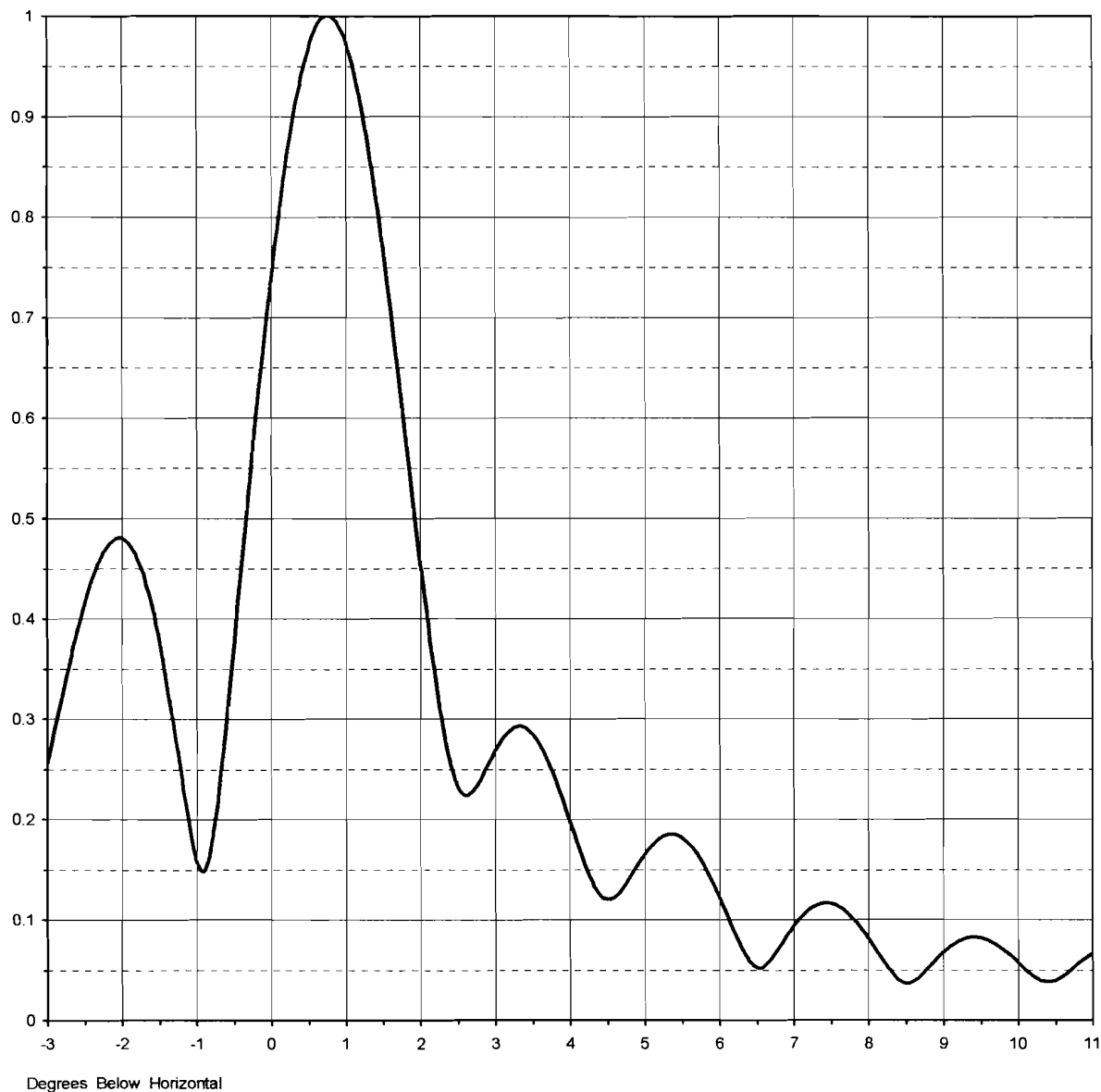




Proposal Number	C-02114	Revision:	3
Date	12-Sep-08		
Call Letters	KQED-DT	Channel	30
Location	San Francisco, CA		
Customer			
Antenna Type	TUM20-C5SP-14/60H-2-R-T		

ELEVATION PATTERN

RMS Gain at Main Lobe	25.30 (14.03 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	569.00 MHz
Calculated / Measured	Calculated	Drawing #	14U263075



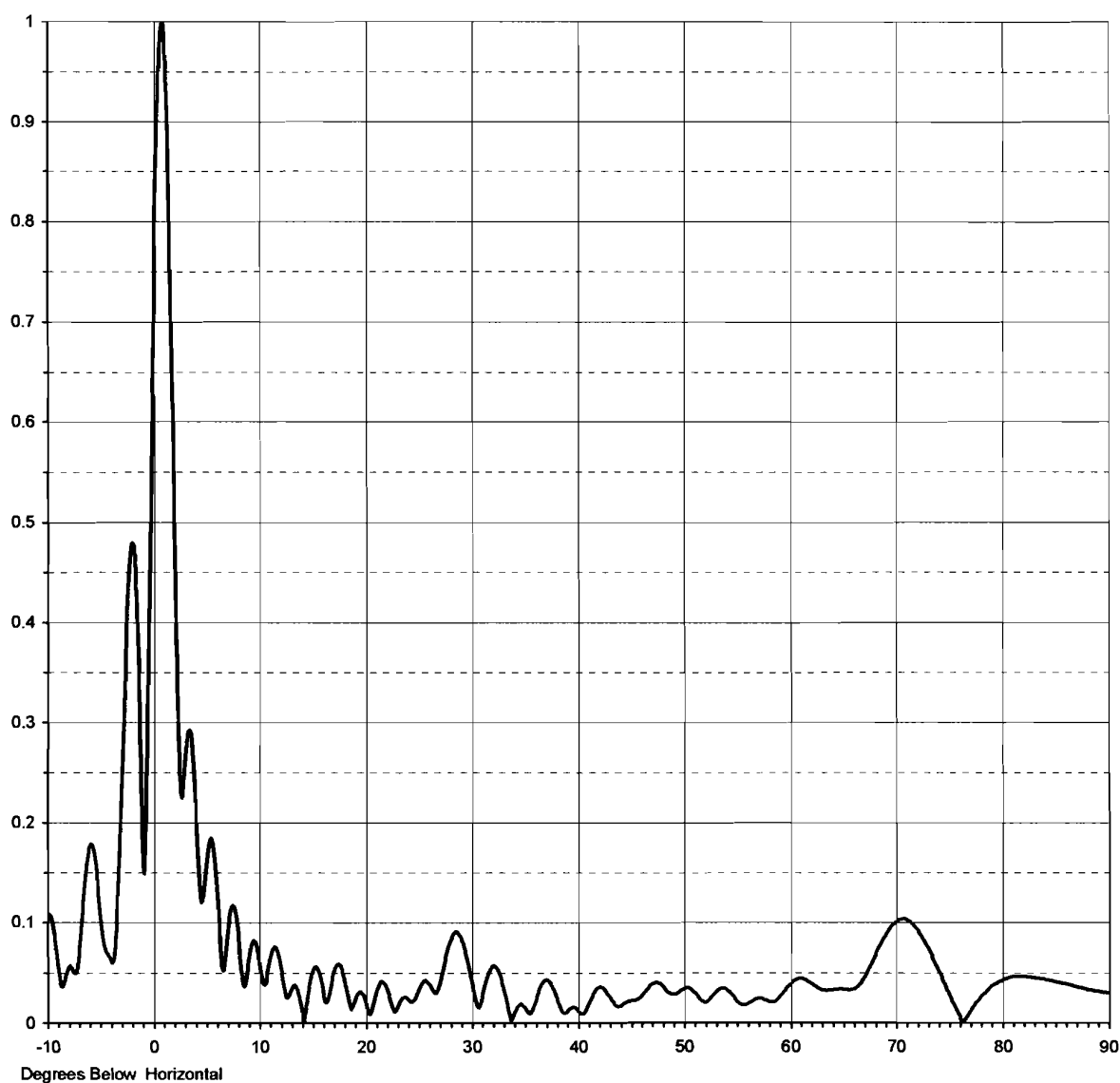
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Proposal Number	C-02114	Revision:	3
Date	12-Sep-08		
Call Letters	KQED-DT	Channel	30
Location	San Francisco, CA		
Customer			
Antenna Type	TUM20-C5SP-14/60H-2-R-T		

ELEVATION PATTERN

RMS Gain at Main Lobe	25.30 (14.03 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	569.00 MHz
Calculated / Measured	Calculated	Drawing #	14U263075-90



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Proposal Number **C-02114** Revision: **3**
 Date **12-Sep-08**
 Call Letters **KQED-DT** Channel **30**
 Location **San Francisco, CA**
 Customer
 Antenna Type **TUM20-C5SP-14/60H-2-R-T**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U263075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.107	2.4	0.254	10.6	0.039	30.5	0.019	51.0	0.031	71.5	0.099
-9.5	0.097	2.6	0.224	10.8	0.049	31.0	0.025	51.5	0.025	72.0	0.092
-9.0	0.055	2.8	0.240	11.0	0.061	31.5	0.047	52.0	0.021	72.5	0.084
-8.5	0.039	3.0	0.269	11.5	0.076	32.0	0.057	52.5	0.024	73.0	0.074
-8.0	0.057	3.2	0.289	12.0	0.059	32.5	0.053	53.0	0.031	73.5	0.063
-7.5	0.050	3.4	0.292	12.5	0.029	33.0	0.036	53.5	0.034	74.0	0.051
-7.0	0.076	3.6	0.275	13.0	0.033	33.5	0.013	54.0	0.034	74.5	0.039
-6.5	0.141	3.8	0.241	13.5	0.037	34.0	0.008	54.5	0.029	75.0	0.027
-6.0	0.177	4.0	0.198	14.0	0.015	34.5	0.018	55.0	0.023	75.5	0.016
-5.5	0.159	4.2	0.154	14.5	0.021	35.0	0.016	55.5	0.018	76.0	0.005
-5.0	0.103	4.4	0.125	15.0	0.050	35.5	0.009	56.0	0.019	76.5	0.005
-4.5	0.071	4.6	0.123	15.5	0.055	36.0	0.021	56.5	0.023	77.0	0.013
-4.0	0.061	4.8	0.142	16.0	0.034	36.5	0.036	57.0	0.025	77.5	0.021
-3.5	0.103	5.0	0.165	16.5	0.024	37.0	0.043	57.5	0.024	78.0	0.027
-3.0	0.256	5.2	0.181	17.0	0.049	37.5	0.040	58.0	0.022	78.5	0.033
-2.8	0.325	5.4	0.185	17.5	0.060	38.0	0.027	58.5	0.022	79.0	0.037
-2.6	0.389	5.6	0.175	18.0	0.046	38.5	0.013	59.0	0.026	79.5	0.041
-2.4	0.440	5.8	0.153	18.5	0.019	39.0	0.011	59.5	0.032	80.0	0.043
-2.2	0.472	6.0	0.123	19.0	0.021	39.5	0.016	60.0	0.039	80.5	0.045
-2.0	0.480	6.2	0.088	19.5	0.032	40.0	0.013	60.5	0.043	81.0	0.046
-1.8	0.460	6.4	0.059	20.0	0.023	40.5	0.009	61.0	0.045	81.5	0.046
-1.6	0.412	6.6	0.054	20.5	0.009	41.0	0.018	61.5	0.043	82.0	0.046
-1.4	0.336	6.8	0.072	21.0	0.030	41.5	0.030	62.0	0.040	82.5	0.046
-1.2	0.241	7.0	0.095	21.5	0.042	42.0	0.036	62.5	0.036	83.0	0.045
-1.0	0.158	7.2	0.111	22.0	0.036	42.5	0.034	63.0	0.034	83.5	0.044
-0.8	0.178	7.4	0.117	22.5	0.018	43.0	0.027	63.5	0.033	84.0	0.043
-0.6	0.301	7.6	0.113	23.0	0.015	43.5	0.019	64.0	0.033	84.5	0.042
-0.4	0.452	7.8	0.101	23.5	0.025	44.0	0.017	64.5	0.034	85.0	0.041
-0.2	0.603	8.0	0.081	24.0	0.024	44.5	0.021	65.0	0.034	85.5	0.040
0.0	0.741	8.2	0.058	24.5	0.022	45.0	0.023	65.5	0.033	86.0	0.039
0.2	0.855	8.4	0.040	25.0	0.032	45.5	0.024	66.0	0.034	86.5	0.037
0.4	0.939	8.6	0.038	25.5	0.042	46.0	0.027	66.5	0.039	87.0	0.036
0.6	0.988	8.8	0.052	26.0	0.040	46.5	0.033	67.0	0.047	87.5	0.035
0.8	1.000	9.0	0.068	26.5	0.031	47.0	0.039	67.5	0.058	88.0	0.034
1.0	0.974	9.2	0.079	27.0	0.038	47.5	0.041	68.0	0.069	88.5	0.033
1.2	0.912	9.4	0.083	27.5	0.062	48.0	0.037	68.5	0.080	89.0	0.032
1.4	0.821	9.6	0.080	28.0	0.082	48.5	0.032	69.0	0.089	89.5	0.031
1.6	0.707	9.8	0.076	28.5	0.091	49.0	0.028	69.5	0.097	90.0	0.030
1.8	0.581	10.0	0.064	29.0	0.085	49.5	0.031	70.0	0.101		
2.0	0.452	10.2	0.050	29.5	0.069	50.0	0.034	70.5	0.104		
2.2	0.337	10.4	0.039	30.0	0.044	50.5	0.035	71.0	0.103		

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