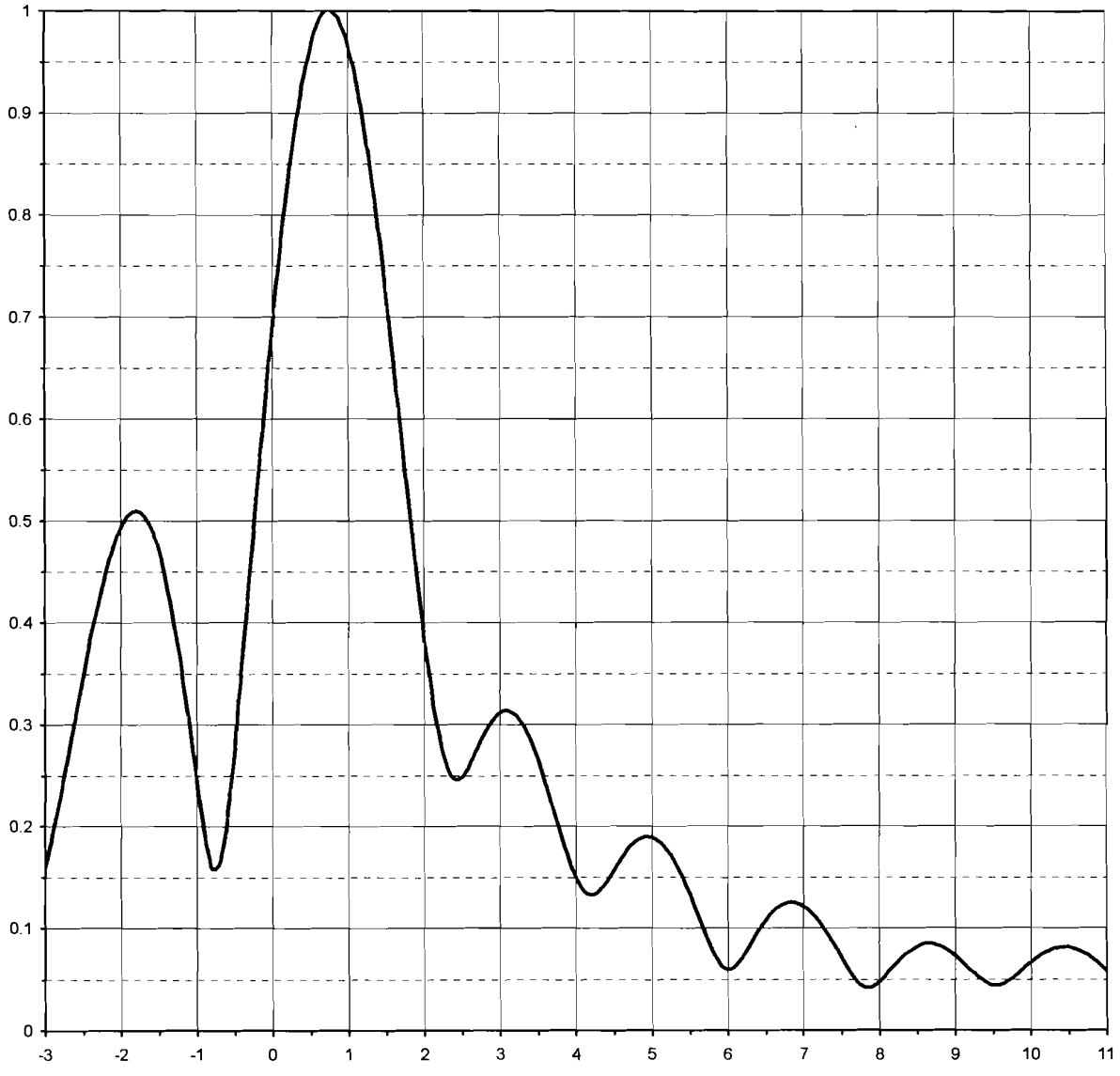
Dielectric

Proposal Number	**C-02114**	Revision:	**3**
Date	**12-Sep-08**		
Call Letters	**KCNS-DT**	Channel	**39**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM20-C5SP-14/60H-2-R-T**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**26.00 (14.15 dB)**	Beam Tilt	**0.75 deg**
RMS Gain at Horizontal	**12.40 (10.93 dB)**	Frequency	**623.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**14U270075**



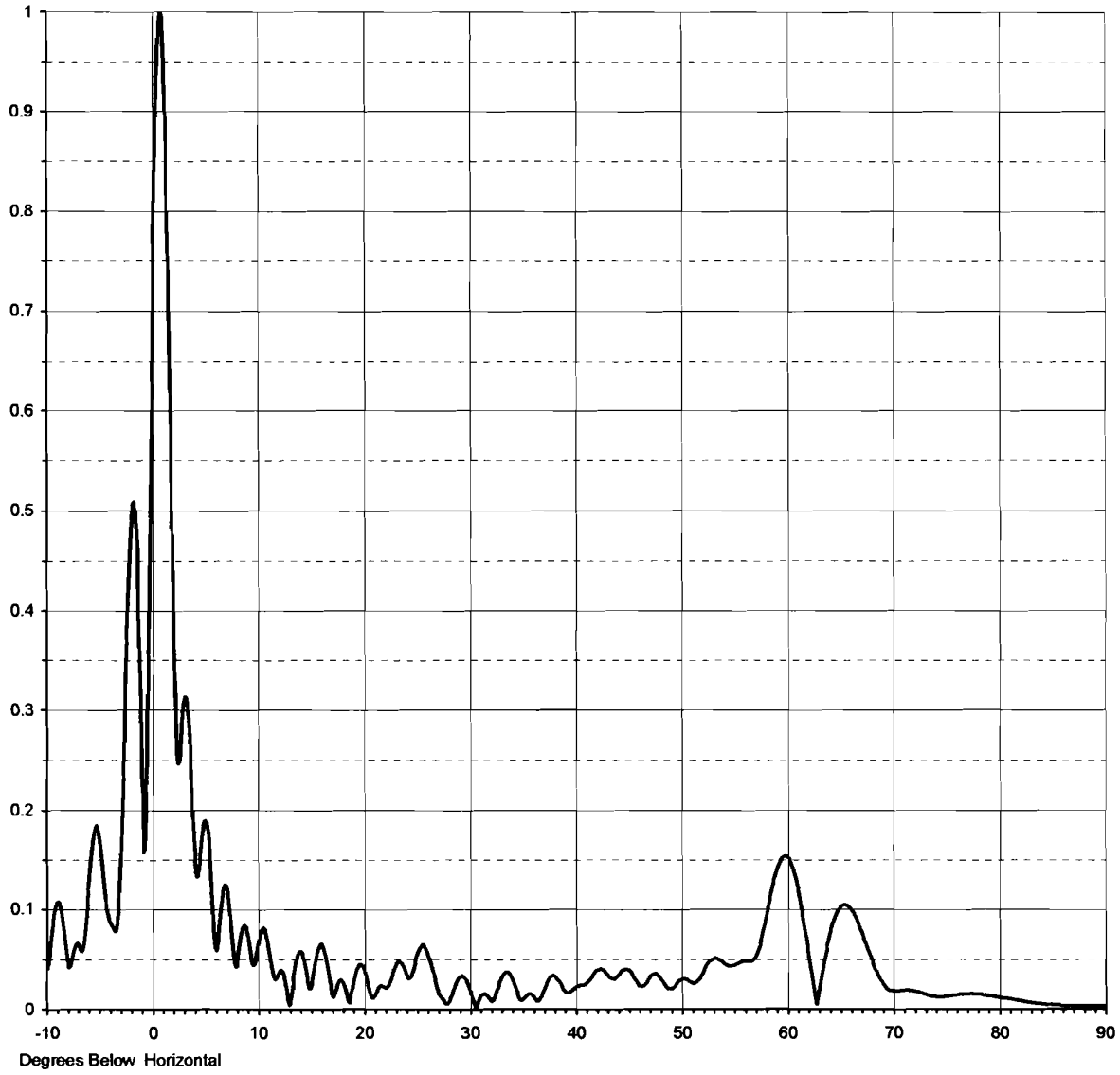
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Proposal Number	**C-02114**	Revision:	**3**
Date	**12-Sep-08**		
Call Letters	**KCNS-DT**	Channel	**39**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM20-C5SP-14/60H-2-R-T**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**26.00 (14.15 dB)**	Beam Tilt	**0.75 deg**
RMS Gain at Horizontal	**12.40 (10.93 dB)**	Frequency	**623.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**14U270075-90**



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Dielectric

Proposal Number	**C-02114**	Revision:	**3**
Date	**12-Sep-08**		
Call Letters	**KCNS-DT**	Channel	**39**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM20-C5SP-14/60H-2-R-T**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U270075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.039	2.4	0.247	10.6	0.081	30.5	0.004	51.0	0.027	71.5	0.019
-9.5	0.078	2.6	0.261	10.8	0.076	31.0	0.012	51.5	0.027	72.0	0.018
-9.0	0.108	2.8	0.292	11.0	0.065	31.5	0.016	52.0	0.036	72.5	0.016
-8.5	0.089	3.0	0.312	11.5	0.034	32.0	0.009	52.5	0.045	73.0	0.015
-8.0	0.045	3.2	0.310	12.0	0.037	32.5	0.016	53.0	0.051	73.5	0.013
-7.5	0.056	3.4	0.285	12.5	0.034	33.0	0.031	53.5	0.051	74.0	0.012
-7.0	0.064	3.6	0.243	13.0	0.004	33.5	0.038	54.0	0.047	74.5	0.012
-6.5	0.065	3.8	0.193	13.5	0.039	34.0	0.032	54.5	0.044	75.0	0.013
-6.0	0.128	4.0	0.150	14.0	0.058	34.5	0.017	55.0	0.044	75.5	0.014
-5.5	0.181	4.2	0.133	14.5	0.043	35.0	0.009	55.5	0.047	76.0	0.014
-5.0	0.170	4.4	0.145	15.0	0.021	35.5	0.015	56.0	0.048	76.5	0.015
-4.5	0.116	4.6	0.169	15.5	0.051	36.0	0.014	56.5	0.048	77.0	0.015
-4.0	0.087	4.8	0.186	16.0	0.066	36.5	0.008	57.0	0.052	77.5	0.015
-3.5	0.078	5.0	0.189	16.5	0.049	37.0	0.019	57.5	0.068	78.0	0.015
-3.0	0.160	5.2	0.177	17.0	0.017	37.5	0.031	58.0	0.092	78.5	0.014
-2.8	0.230	5.4	0.150	17.5	0.024	38.0	0.034	58.5	0.118	79.0	0.014
-2.6	0.308	5.6	0.114	18.0	0.029	38.5	0.028	59.0	0.139	79.5	0.013
-2.4	0.384	5.8	0.078	18.5	0.010	39.0	0.018	59.5	0.152	80.0	0.012
-2.2	0.448	6.0	0.060	19.0	0.024	39.5	0.017	60.0	0.154	80.5	0.011
-2.0	0.493	6.2	0.073	19.5	0.044	40.0	0.022	60.5	0.144	81.0	0.010
-1.8	0.509	6.4	0.097	20.0	0.042	40.5	0.024	61.0	0.123	81.5	0.009
-1.6	0.492	6.6	0.117	20.5	0.022	41.0	0.026	61.5	0.093	82.0	0.009
-1.4	0.440	6.8	0.125	21.0	0.013	41.5	0.032	62.0	0.058	82.5	0.008
-1.2	0.354	7.0	0.122	21.5	0.023	42.0	0.039	62.5	0.021	83.0	0.007
-1.0	0.245	7.2	0.107	22.0	0.022	42.5	0.040	63.0	0.016	83.5	0.006
-0.8	0.158	7.4	0.084	22.5	0.028	43.0	0.036	63.5	0.048	84.0	0.006
-0.6	0.210	7.6	0.059	23.0	0.043	43.5	0.031	64.0	0.074	84.5	0.005
-0.4	0.361	7.8	0.043	23.5	0.047	44.0	0.034	64.5	0.095	85.0	0.005
-0.2	0.530	8.0	0.048	24.0	0.036	44.5	0.039	65.0	0.103	85.5	0.004
0.0	0.690	8.2	0.064	24.5	0.034	45.0	0.040	65.5	0.105	86.0	0.004
0.2	0.826	8.4	0.078	25.0	0.053	45.5	0.033	66.0	0.100	86.5	0.004
0.4	0.927	8.6	0.084	25.5	0.065	46.0	0.024	66.5	0.090	87.0	0.004
0.6	0.986	8.8	0.082	26.0	0.058	46.5	0.024	67.0	0.076	87.5	0.003
0.8	1.000	9.0	0.073	26.5	0.040	47.0	0.032	67.5	0.062	88.0	0.003
1.0	0.969	9.2	0.059	27.0	0.019	47.5	0.036	68.0	0.048	88.5	0.003
1.2	0.895	9.4	0.047	27.5	0.010	48.0	0.032	68.5	0.035	89.0	0.003
1.4	0.787	9.6	0.045	28.0	0.007	48.5	0.024	69.0	0.025	89.5	0.003
1.6	0.657	9.8	0.048	28.5	0.019	49.0	0.020	69.5	0.020	90.0	0.003
1.8	0.517	10.0	0.060	29.0	0.031	49.5	0.025	70.0	0.018		
2.0	0.386	10.2	0.072	29.5	0.033	50.0	0.030	70.5	0.018		
2.2	0.287	10.4	0.080	30.0	0.021	50.5	0.030	71.0	0.019		

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