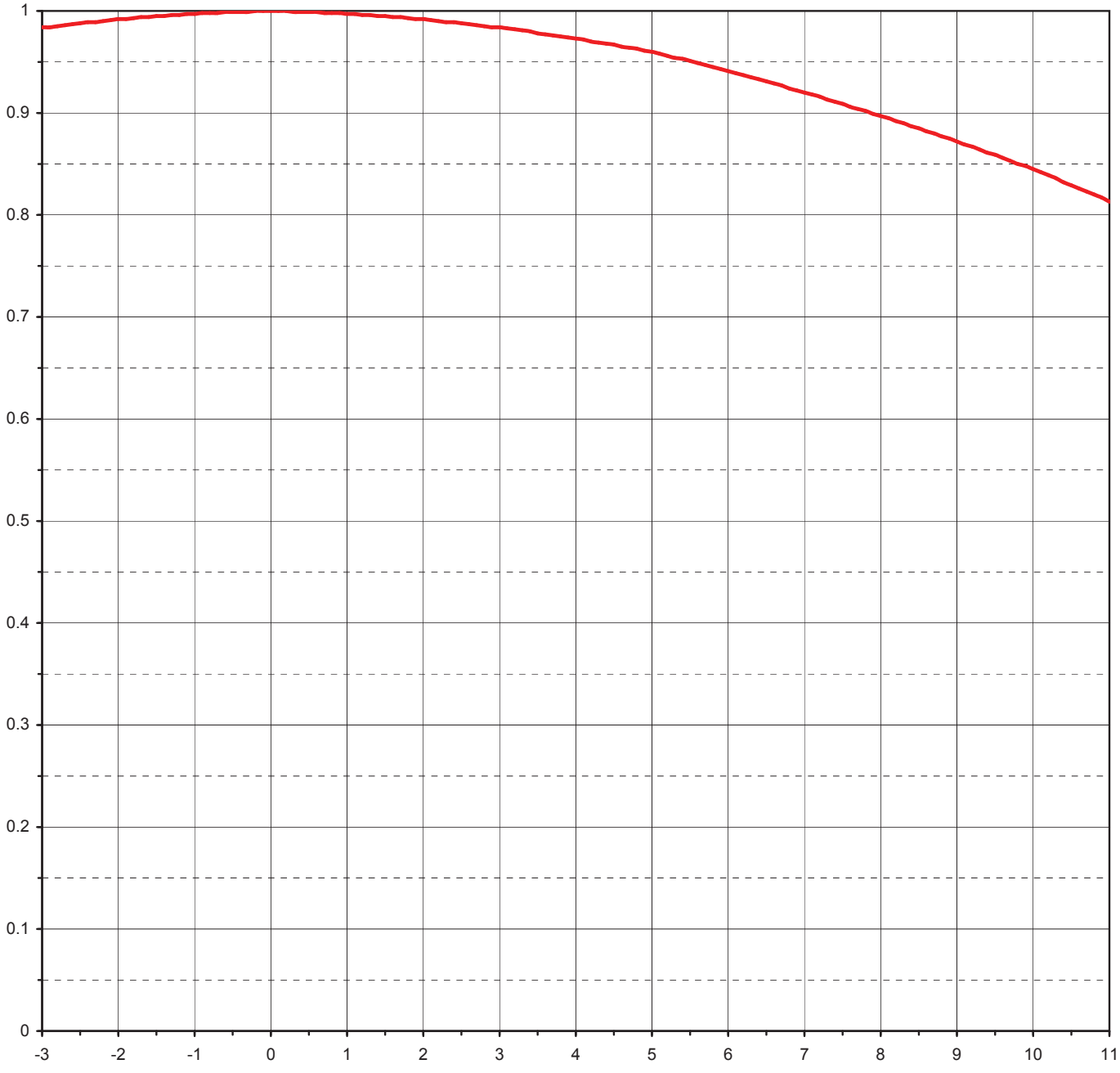
Dielectric

Proposal Number	**C-01912**	Revision:	**1**
Date	**23-Oct-07**		**Figure 1**
Call Letters		Channel	**7**
Location	**NY, NY**		
Customer	**Empire State Bld**		
Antenna Type	**THA-O4SP-1H/4UD2SP-1-H-M**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**2.14 (3.31 dB)**	Beam Tilt	**0.00 deg**
RMS Gain at Horizontal	**2.10 (3.22 dB)**	Frequency	**177.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**01H021000**



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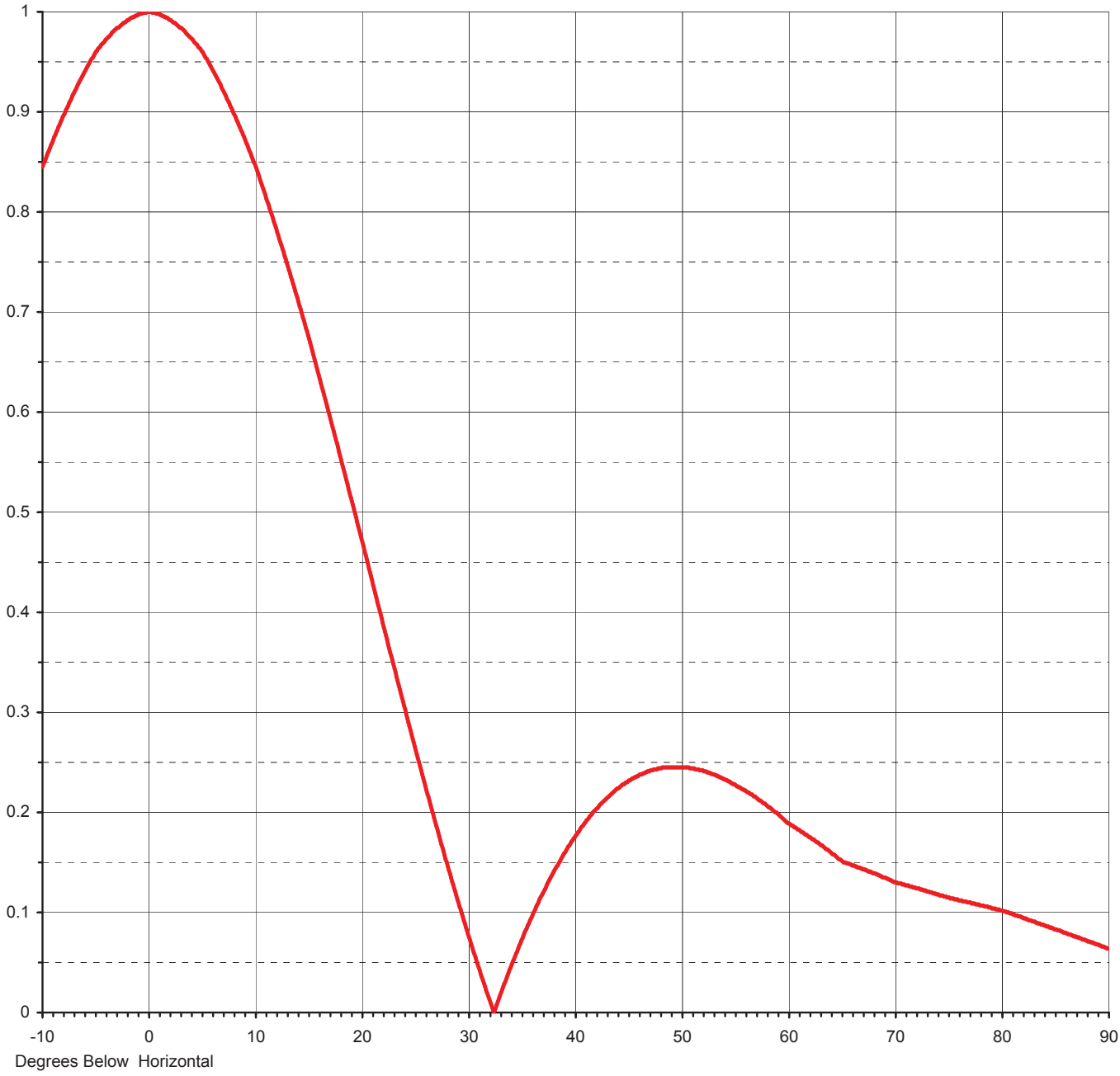
Proposal Number	**C-01912**	Revision:	**1**
Date	**23-Oct-07**		**Figure 2**
Call Letters		Channel	**7**
Location	**NY, NY**		
Customer	**Empire State Bld**		
Antenna Type	**THA-O4SP-1H/4UD2SP-1-H-M**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**2.14**	**(3.31 dB)**	Beam Tilt **0.00 deg**
RMS Gain at Horizontal	**2.10**	**(3.22 dB)**	Frequency **177.00 MHz**
Calculated / Measured	**Calculated**		Drawing # **01H021000-90**



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Proposal Number	**C-01912**	Revision:	**1**
Date	**23-Oct-07**		**Figure 3**
Call Letters		Channel	**7**
Location	**NY, NY**		
Customer	**Empire State Bld**		
Antenna Type	**THA-O4SP-1H/4UD2SP-1-H-M**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **01H021000-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.845	2.4	0.989	10.6	0.829	30.5	0.061	51.0	0.244	71.5	0.126
-9.5	0.859	2.6	0.987	10.8	0.823	31.0	0.045	51.5	0.243	72.0	0.124
-9.0	0.872	2.8	0.985	11.0	0.817	31.5	0.029	52.0	0.242	72.5	0.123
-8.5	0.885	3.0	0.984	11.5	0.800	32.0	0.013	52.5	0.240	73.0	0.121
-8.0	0.897	3.2	0.982	12.0	0.784	32.5	0.002	53.0	0.238	73.5	0.119
-7.5	0.909	3.4	0.980	12.5	0.767	33.0	0.017	53.5	0.236	74.0	0.118
-7.0	0.920	3.6	0.977	13.0	0.749	33.5	0.031	54.0	0.233	74.5	0.116
-6.5	0.931	3.8	0.975	13.5	0.732	34.0	0.045	54.5	0.231	75.0	0.115
-6.0	0.941	4.0	0.973	14.0	0.714	34.5	0.059	55.0	0.228	75.5	0.113
-5.5	0.951	4.2	0.970	14.5	0.695	35.0	0.072	55.5	0.225	76.0	0.112
-5.0	0.960	4.4	0.968	15.0	0.677	35.5	0.084	56.0	0.222	76.5	0.111
-4.5	0.967	4.6	0.965	15.5	0.657	36.0	0.096	56.5	0.218	77.0	0.110
-4.0	0.973	4.8	0.963	16.0	0.637	36.5	0.108	57.0	0.215	77.5	0.108
-3.5	0.979	5.0	0.960	16.5	0.617	37.0	0.119	57.5	0.211	78.0	0.107
-3.0	0.984	5.2	0.956	17.0	0.597	37.5	0.130	58.0	0.207	78.5	0.106
-2.8	0.985	5.4	0.953	17.5	0.577	38.0	0.140	58.5	0.203	79.0	0.104
-2.6	0.987	5.6	0.949	18.0	0.556	38.5	0.149	59.0	0.199	79.5	0.103
-2.4	0.989	5.8	0.945	18.5	0.536	39.0	0.159	59.5	0.194	80.0	0.102
-2.2	0.990	6.0	0.941	19.0	0.515	39.5	0.167	60.0	0.189	80.5	0.100
-2.0	0.992	6.2	0.937	19.5	0.495	40.0	0.175	60.5	0.186	81.0	0.098
-1.8	0.993	6.4	0.933	20.0	0.474	40.5	0.183	61.0	0.183	81.5	0.096
-1.6	0.994	6.6	0.929	20.5	0.453	41.0	0.190	61.5	0.179	82.0	0.094
-1.4	0.995	6.8	0.924	21.0	0.432	41.5	0.197	62.0	0.175	82.5	0.092
-1.2	0.996	7.0	0.920	21.5	0.410	42.0	0.203	62.5	0.172	83.0	0.091
-1.0	0.997	7.2	0.916	22.0	0.389	42.5	0.209	63.0	0.168	83.5	0.089
-0.8	0.998	7.4	0.911	22.5	0.368	43.0	0.214	63.5	0.164	84.0	0.087
-0.6	0.999	7.6	0.906	23.0	0.348	43.5	0.219	64.0	0.160	84.5	0.085
-0.4	0.999	7.8	0.902	23.5	0.327	44.0	0.224	64.5	0.155	85.0	0.083
-0.2	1.000	8.0	0.897	24.0	0.307	44.5	0.228	65.0	0.151	85.5	0.081
0.0	1.000	8.2	0.892	24.5	0.286	45.0	0.231	65.5	0.149	86.0	0.079
0.2	1.000	8.4	0.887	25.0	0.266	45.5	0.234	66.0	0.147	86.5	0.077
0.4	0.999	8.6	0.882	25.5	0.246	46.0	0.237	66.5	0.145	87.0	0.075
0.6	0.999	8.8	0.877	26.0	0.226	46.5	0.239	67.0	0.143	87.5	0.073
0.8	0.998	9.0	0.872	26.5	0.207	47.0	0.241	67.5	0.141	88.0	0.071
1.0	0.997	9.2	0.867	27.0	0.187	47.5	0.243	68.0	0.139	88.5	0.070
1.2	0.996	9.4	0.861	27.5	0.168	48.0	0.244	68.5	0.137	89.0	0.068
1.4	0.995	9.6	0.856	28.0	0.150	48.5	0.245	69.0	0.135	89.5	0.066
1.6	0.994	9.8	0.853	28.5	0.131	49.0	0.245	69.5	0.132	90.0	0.064
1.8	0.993	10.0	0.848	29.0	0.113	49.5	0.245	70.0	0.130		
2.0	0.992	10.2	0.842	29.5	0.096	50.0	0.245	70.5	0.129		
2.2	0.990	10.4	0.836	30.0	0.078	50.5	0.245	71.0	0.127		

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