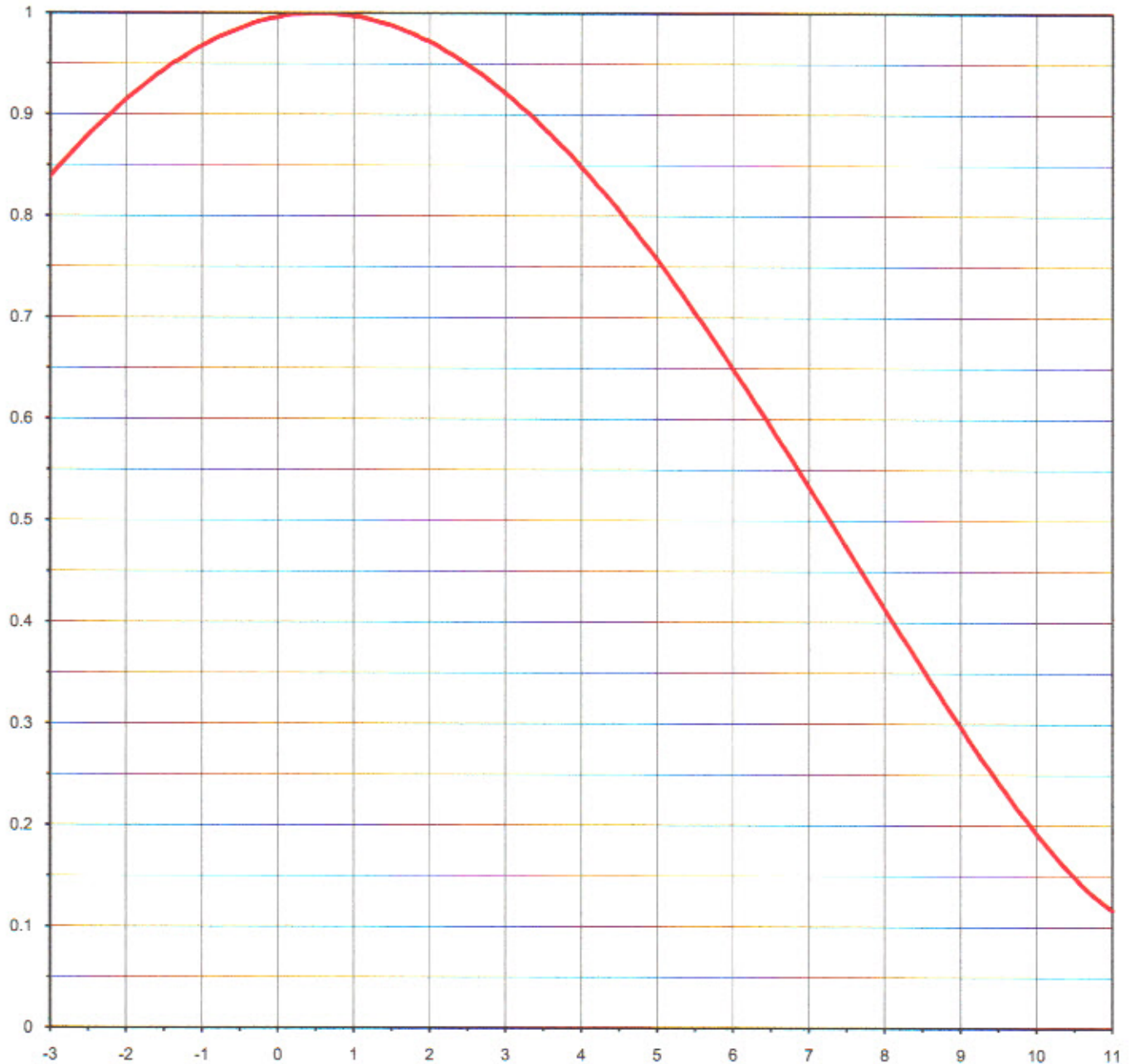




Proposal Number	C-00526-3	Revision:	3
Date	7-Oct-09		
Call Letters	KUPL		
Location	Portland, OR		
Customer			
Antenna Type	DCBD-O3-6FMB/18H-2		

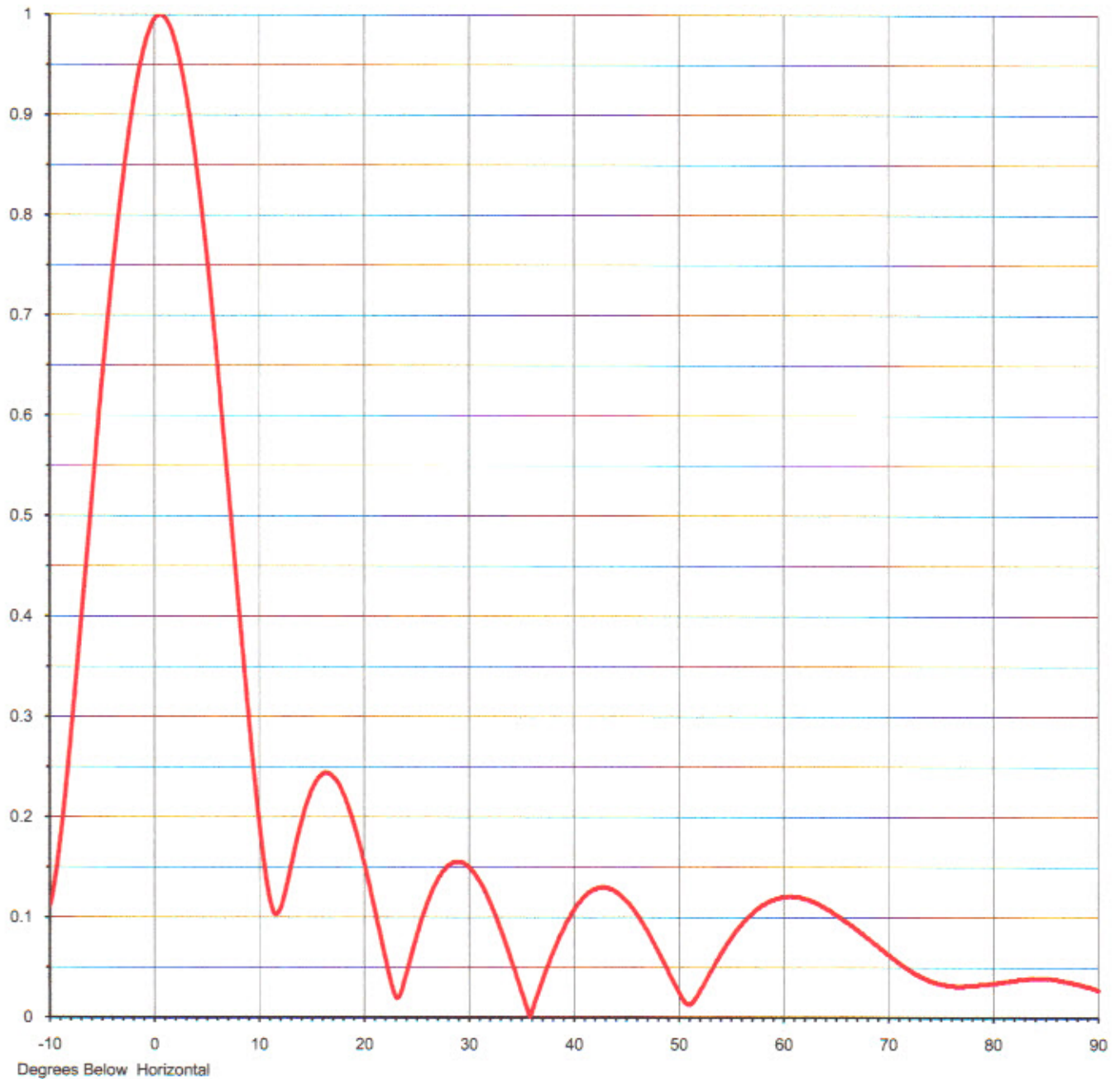
ELEVATION PATTERN

RMS Gain at Main Lobe	2.75 (4.39 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	2.75 (4.39 dB)	Frequency	98.70 MHz
Calculated / Measured	Calculated	Drawing #	06C055050



ELEVATION PATTERN

RMS Gain at Main Lobe	2.75	(4.39 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	2.75	(4.39 dB)	Frequency	98.70 MHz
Calculated / Measured	Calculated		Drawing #	06C055050-90





Proposal Number **C-00526-3** Revision: **3**
Date **7-Oct-09**
Call Letters **KUPL**
Location **Portland, OR**
Customer
Antenna Type **DCBD-O3-6FMB/18H-2**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **06C055050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.112	2.4	0.954	10.6	0.149	30.5	0.145	51.0	0.013	71.5	0.051
-9.5	0.140	2.6	0.944	10.8	0.134	31.0	0.137	51.5	0.017	72.0	0.047
-9.0	0.180	2.8	0.933	11.0	0.122	31.5	0.128	52.0	0.025	72.5	0.044
-8.5	0.229	3.0	0.921	11.5	0.104	32.0	0.117	52.5	0.034	73.0	0.041
-8.0	0.283	3.2	0.908	12.0	0.107	32.5	0.104	53.0	0.044	73.5	0.039
-7.5	0.340	3.4	0.895	12.5	0.124	33.0	0.090	53.5	0.053	74.0	0.036
-7.0	0.400	3.6	0.880	13.0	0.147	33.5	0.076	54.0	0.062	74.5	0.035
-6.5	0.460	3.8	0.865	13.5	0.171	34.0	0.060	54.5	0.070	75.0	0.033
-6.0	0.520	4.0	0.848	14.0	0.192	34.5	0.045	55.0	0.078	75.5	0.032
-5.5	0.579	4.2	0.831	14.5	0.211	35.0	0.028	55.5	0.086	76.0	0.032
-5.0	0.638	4.4	0.814	15.0	0.226	35.5	0.012	56.0	0.092	76.5	0.031
-4.5	0.693	4.6	0.795	15.5	0.236	36.0	0.004	56.5	0.098	77.0	0.031
-4.0	0.746	4.8	0.776	16.0	0.242	36.5	0.020	57.0	0.103	77.5	0.032
-3.5	0.795	5.0	0.757	16.5	0.244	37.0	0.035	57.5	0.108	78.0	0.032
-3.0	0.839	5.2	0.736	17.0	0.241	37.5	0.050	58.0	0.112	78.5	0.032
-2.8	0.856	5.4	0.715	17.5	0.235	38.0	0.063	58.5	0.115	79.0	0.033
-2.6	0.872	5.6	0.694	18.0	0.225	38.5	0.076	59.0	0.117	79.5	0.033
-2.4	0.887	5.8	0.672	18.5	0.212	39.0	0.087	59.5	0.119	80.0	0.034
-2.2	0.901	6.0	0.649	19.0	0.196	39.5	0.097	60.0	0.120	80.5	0.035
-2.0	0.915	6.2	0.627	19.5	0.178	40.0	0.106	60.5	0.121	81.0	0.036
-1.8	0.927	6.4	0.604	20.0	0.157	40.5	0.114	61.0	0.120	81.5	0.036
-1.6	0.939	6.6	0.580	20.5	0.135	41.0	0.120	61.5	0.120	82.0	0.037
-1.4	0.950	6.8	0.557	21.0	0.112	41.5	0.125	62.0	0.119	82.5	0.038
-1.2	0.959	7.0	0.533	21.5	0.088	42.0	0.128	62.5	0.117	83.0	0.038
-1.0	0.968	7.2	0.509	22.0	0.063	42.5	0.129	63.0	0.115	83.5	0.039
-0.8	0.976	7.4	0.485	22.5	0.040	43.0	0.130	63.5	0.113	84.0	0.039
-0.6	0.982	7.6	0.461	23.0	0.022	43.5	0.128	64.0	0.110	84.5	0.039
-0.4	0.988	7.8	0.437	23.5	0.023	44.0	0.126	64.5	0.106	85.0	0.039
-0.2	0.993	8.0	0.413	24.0	0.041	44.5	0.122	65.0	0.102	85.5	0.039
0.0	0.996	8.2	0.389	24.5	0.060	45.0	0.117	65.5	0.099	86.0	0.038
0.2	0.999	8.4	0.366	25.0	0.079	45.5	0.111	66.0	0.095	86.5	0.037
0.4	1.000	8.6	0.342	25.5	0.097	46.0	0.104	66.5	0.092	87.0	0.036
0.6	1.000	8.8	0.319	26.0	0.112	46.5	0.096	67.0	0.088	87.5	0.035
0.8	0.999	9.0	0.297	26.5	0.125	47.0	0.088	67.5	0.084	88.0	0.033
1.0	0.997	9.2	0.274	27.0	0.136	47.5	0.078	68.0	0.079	88.5	0.032
1.2	0.994	9.4	0.253	27.5	0.145	48.0	0.068	68.5	0.075	89.0	0.031
1.4	0.990	9.6	0.232	28.0	0.151	48.5	0.058	69.0	0.071	89.5	0.029
1.6	0.985	9.8	0.221	28.5	0.154	49.0	0.048	69.5	0.067	90.0	0.027
1.8	0.979	10.0	0.202	29.0	0.155	49.5	0.037	70.0	0.063		
2.0	0.972	10.2	0.183	29.5	0.154	50.0	0.027	70.5	0.059		
2.2	0.963	10.4	0.165	30.0	0.151	50.5	0.018	71.0	0.055		