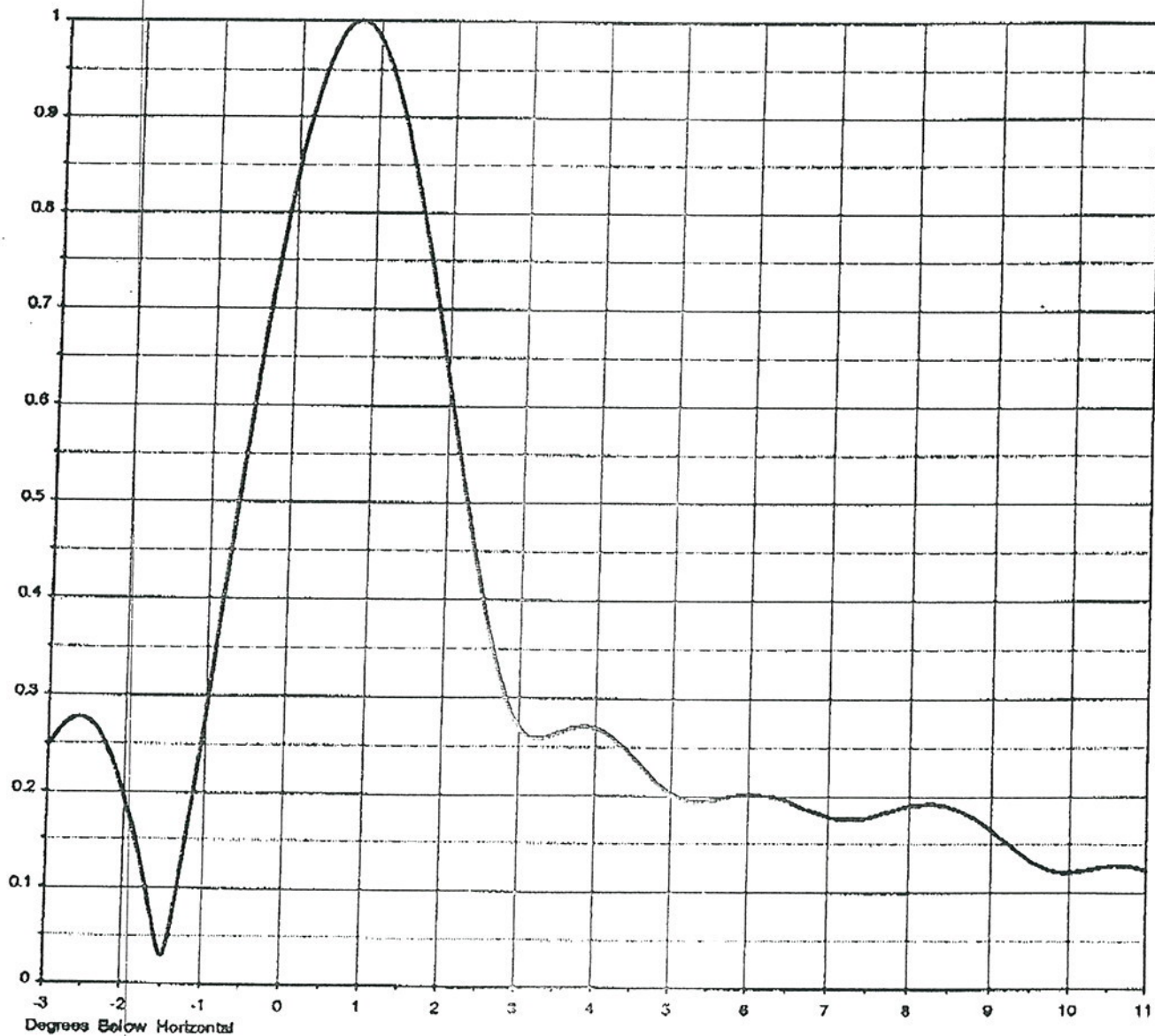


DIELECTRIC COMMUNICATIONS

Proposal Number	DCA-7840	Revision:	1
Date	9-Feb-98		
Call Letters	KNBN	Channel	21
Location	Rapid City, SD		
Customer			
Antenna Type	TFU-25JTH/VP-R 04		

ELEVATION PATTERN

RMS Gain at Main Lobe	23.5 (13.71 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	16.5 (12.16 dB)	Frequency	515.00 MHz
Calculated / Measured	Calculated	Drawing #	25J235075



GS DIELECTRIC COMMUNICATIONS
A UNIT OF GENERAL SIGNAL

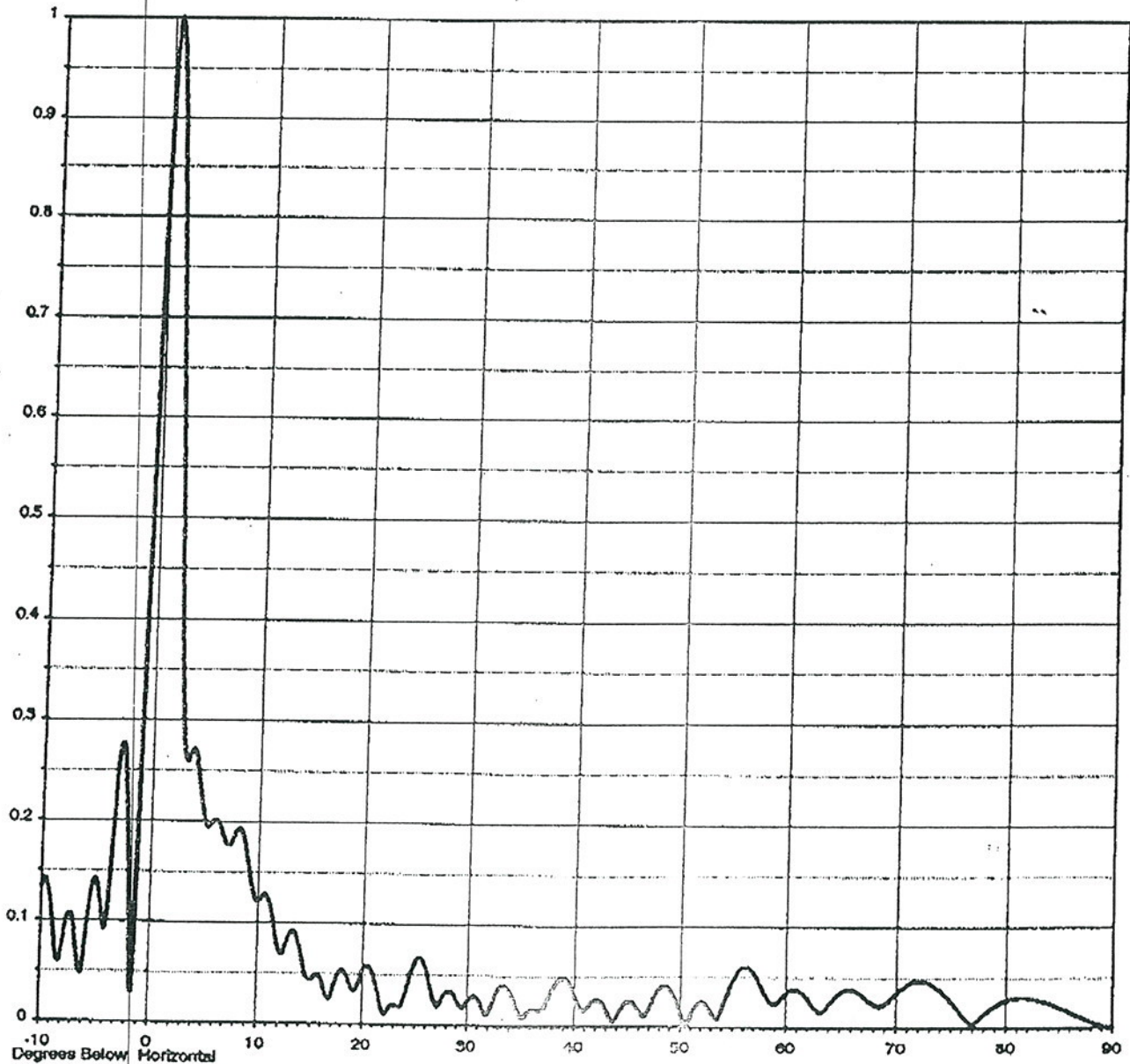
EXHIBIT B

DIELECTRIC COMMUNICATIONS

Proposal Number **DCA-7840** Revisio **1**
Date **9-Feb-98**
Call Letters **KNBN** Channe **21**
Location **Rapid City, SD**
Customer
Antenna Type **TFU-25JTH/VP-R 04**

ELEVATION PATTERN

RMS Gain at Main Lobe	23.5 (13.71 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	16.5 (12.16 dB)	Frequency	515.00 MHz
Calculated / Measured	Calculated	Drawing #	25J235075-90



GS DIELECTRIC COMMUNICATIONS
A UNIT OF GENERAL SIGNAL

DIELECTRIC COMMUNICATIONS

Proposal Number **DCA-7840** Revision: **1**
 Date **9-Feb-98**
 Call Letters **KNBN** Channel **21**
 Location **Rapid City, SD**
 Customer
 Antenna Type **TFU-25JTH/VP-R 04**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **25J235075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.134	2.4	0.443	10.8	0.127	30.5	0.028	51.0	0.009	71.5	0.045
-9.5	0.140	2.6	0.365	10.8	0.127	31.0	0.027	51.5	0.019	72.0	0.046
-9.0	0.109	2.8	0.306	11.0	0.125	31.5	0.018	52.0	0.024	72.5	0.046
-8.5	0.065	3.0	0.271	11.5	0.104	32.0	0.011	52.5	0.023	73.0	0.044
-8.0	0.072	3.2	0.259	12.0	0.076	32.5	0.023	53.0	0.016	73.5	0.040
-7.5	0.103	3.4	0.261	12.5	0.071	33.0	0.035	53.5	0.008	74.0	0.036
-7.0	0.102	3.6	0.267	13.0	0.087	33.5	0.040	54.0	0.015	74.5	0.030
-6.5	0.065	3.8	0.271	13.5	0.092	34.0	0.036	54.5	0.030	75.0	0.024
-6.0	0.056	4.0	0.269	14.0	0.077	34.5	0.024	55.0	0.043	75.5	0.018
-5.5	0.111	4.2	0.261	14.5	0.054	35.0	0.011	55.5	0.054	76.0	0.011
-5.0	0.142	4.4	0.247	15.0	0.044	35.5	0.009	56.0	0.059	76.5	0.006
-4.5	0.123	4.6	0.230	15.5	0.048	36.0	0.015	56.5	0.060	77.0	0.003
-4.0	0.092	4.8	0.214	16.0	0.045	36.5	0.016	57.0	0.055	77.5	0.008
-3.5	0.158	5.0	0.202	16.5	0.031	37.0	0.015	57.5	0.046	78.0	0.013
-3.0	0.248	5.2	0.195	17.0	0.027	37.5	0.022	58.0	0.035	78.5	0.017
-2.8	0.270	5.4	0.194	17.5	0.043	38.0	0.035	58.5	0.026	79.0	0.021
-2.6	0.277	5.6	0.196	18.0	0.054	38.5	0.045	59.0	0.022	79.5	0.024
-2.4	0.269	5.8	0.200	18.5	0.049	39.0	0.049	59.5	0.026	80.0	0.026
-2.2	0.242	6.0	0.201	19.0	0.036	39.5	0.045	60.0	0.032	80.5	0.028
-2.0	0.196	6.2	0.200	19.5	0.036	40.0	0.035	60.5	0.036	81.0	0.028
-1.8	0.133	6.4	0.197	20.0	0.050	40.5	0.021	61.0	0.037	81.5	0.029
-1.6	0.055	6.6	0.190	20.5	0.058	41.0	0.015	61.5	0.034	82.0	0.029
-1.4	0.058	6.8	0.184	21.0	0.052	41.5	0.021	62.0	0.029	82.5	0.028
-1.2	0.163	7.0	0.178	21.5	0.034	42.0	0.026	62.5	0.022	83.0	0.027
-1.0	0.280	7.2	0.176	22.0	0.014	42.5	0.025	63.0	0.016	83.5	0.025
-0.8	0.402	7.4	0.176	22.5	0.014	43.0	0.018	63.5	0.015	84.0	0.023
-0.6	0.524	7.6	0.180	23.0	0.019	43.5	0.007	64.0	0.021	84.5	0.021
-0.4	0.640	7.8	0.185	23.5	0.017	44.0	0.009	64.5	0.029	85.0	0.019
-0.2	0.746	8.0	0.190	24.0	0.024	44.5	0.019	65.0	0.034	85.5	0.017
0.0	0.838	8.2	0.192	24.5	0.044	45.0	0.024	65.5	0.037	86.0	0.014
0.2	0.911	8.4	0.191	25.0	0.061	45.5	0.024	66.0	0.037	86.5	0.012
0.4	0.964	8.6	0.185	25.5	0.067	46.0	0.017	66.5	0.035	87.0	0.010
0.6	0.994	8.8	0.176	26.0	0.059	46.5	0.010	67.0	0.031	87.5	0.007
0.8	1.000	9.0	0.164	26.5	0.040	47.0	0.016	67.5	0.026	88.0	0.005
1.0	0.983	9.2	0.151	27.0	0.021	47.5	0.028	68.0	0.022	88.5	0.004
1.2	0.943	9.4	0.138	27.5	0.022	48.0	0.037	68.5	0.020	89.0	0.002
1.4	0.884	9.6	0.128	28.0	0.032	48.5	0.041	69.0	0.023	89.5	0.001
1.6	0.809	9.8	0.124	28.5	0.033	49.0	0.039	69.5	0.028	90.0	0.000
1.8	0.722	10.0	0.121	29.0	0.026	49.5	0.030	70.0	0.033		
2.0	0.628	10.2	0.122	29.5	0.018	50.0	0.018	70.5	0.039		
2.2	0.533	10.4	0.124	30.0	0.022	50.5	0.004	71.0	0.043		

