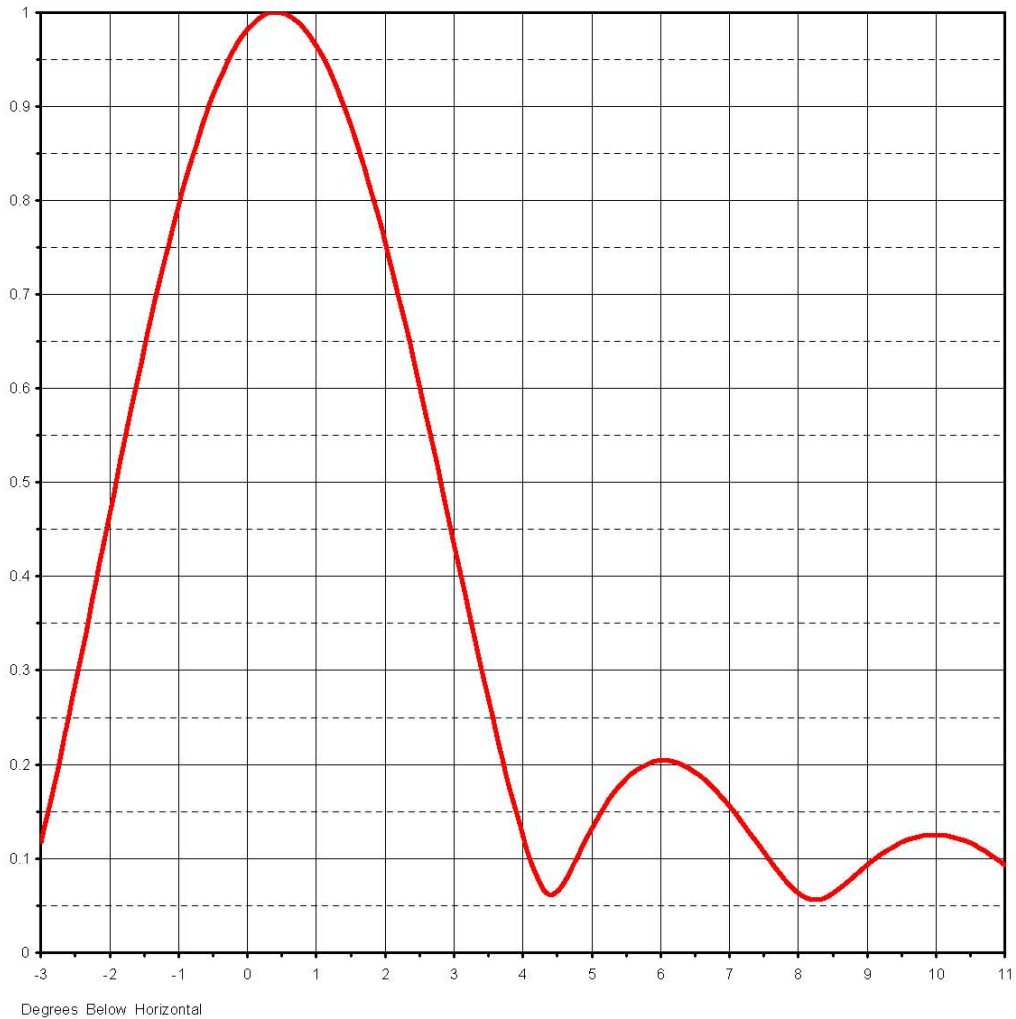




Proposal Number	C-00511	Revision:	1
Date	18-Jul-06		
Call Letters	KTBY-DT	Channel	20
Location	Anchorage, AK		
Customer			
Antenna Type	TFU-14DSB-C (SP)		

ELEVATION PATTERN

RMS Gain at Main Lobe	14.50 (11.61 dB)	Beam Tilt	0.40 deg
RMS Gain at Horizontal	14.00 (11.46 dB)	Frequency	509.00 MHz
Calculated / Measured	Calculated	Drawing #	14B145040

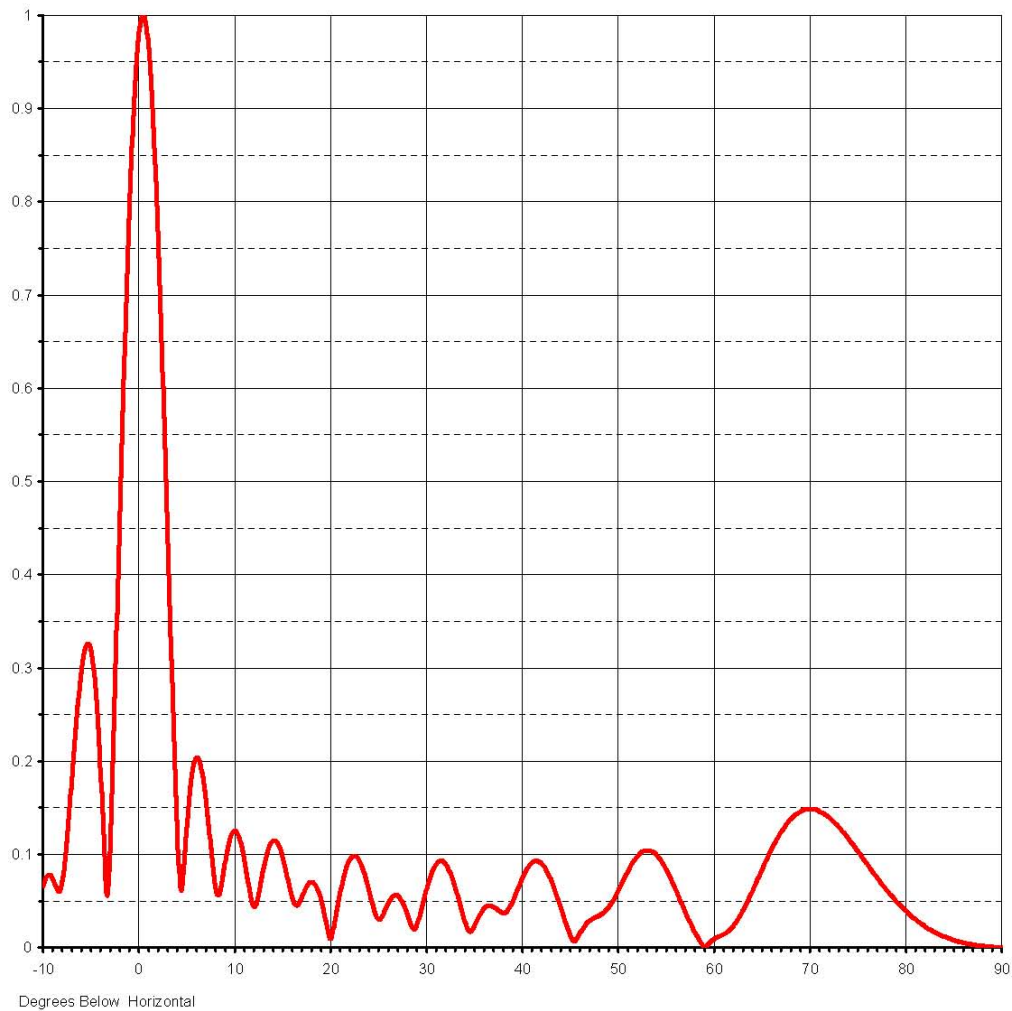




Proposal Number	C-00511	Revision:	1
Date	18-Jul-06		
Call Letters	KTBY-DT	Channel	20
Location	Anchorage, AK		
Customer			
Antenna Type	TFU-14DSB-C (SP)		

ELEVATION PATTERN

RMS Gain at Main Lobe	14.50 (11.61 dB)	Beam Tilt	0.40 deg
RMS Gain at Horizontal	14.00 (11.46 dB)	Frequency	509.00 MHz
Calculated / Measured	Calculated	Drawing #	14B145040-90





Proposal Number **C-00511** Revision: **1**
Date **18-Jul-06**
Call Letters **KTBY-DT** Channel **20**
Location **Anchorage, AK**
Customer
Antenna Type **TFU-14DSB-C (SP)**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14B145040-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.066	2.4	0.633	10.6	0.116	30.5	0.076	51.0	0.080	71.5	0.143
-9.5	0.077	2.6	0.568	10.8	0.108	31.0	0.088	51.5	0.090	72.0	0.139
-9.0	0.073	2.8	0.501	11.0	0.098	31.5	0.093	52.0	0.097	72.5	0.134
-8.5	0.061	3.0	0.433	11.5	0.068	32.0	0.090	52.5	0.102	73.0	0.129
-8.0	0.071	3.2	0.366	12.0	0.045	32.5	0.081	53.0	0.104	73.5	0.123
-7.5	0.119	3.4	0.300	12.5	0.054	33.0	0.067	53.5	0.103	74.0	0.116
-7.0	0.183	3.6	0.236	13.0	0.081	33.5	0.049	54.0	0.100	74.5	0.110
-6.5	0.247	3.8	0.176	13.5	0.103	34.0	0.030	54.5	0.094	75.0	0.103
-6.0	0.298	4.0	0.123	14.0	0.114	34.5	0.018	55.0	0.085	75.5	0.095
-5.5	0.324	4.2	0.080	14.5	0.113	35.0	0.022	55.5	0.075	76.0	0.088
-5.0	0.318	4.4	0.061	15.0	0.099	35.5	0.032	56.0	0.063	76.5	0.081
-4.5	0.272	4.6	0.075	15.5	0.078	36.0	0.041	56.5	0.051	77.0	0.074
-4.0	0.188	4.8	0.103	16.0	0.056	36.5	0.045	57.0	0.039	77.5	0.068
-3.5	0.077	5.0	0.132	16.5	0.045	37.0	0.044	57.5	0.028	78.0	0.061
-3.0	0.117	5.2	0.157	17.0	0.052	37.5	0.040	58.0	0.017	78.5	0.055
-2.8	0.181	5.4	0.177	17.5	0.064	38.0	0.037	58.5	0.008	79.0	0.049
-2.6	0.250	5.6	0.191	18.0	0.070	38.5	0.039	59.0	0.001	79.5	0.044
-2.4	0.322	5.8	0.200	18.5	0.067	39.0	0.048	59.5	0.004	80.0	0.039
-2.2	0.395	6.0	0.204	19.0	0.054	39.5	0.060	60.0	0.008	80.5	0.034
-2.0	0.468	6.2	0.202	19.5	0.032	40.0	0.073	60.5	0.011	81.0	0.030
-1.8	0.540	6.4	0.196	20.0	0.009	40.5	0.083	61.0	0.014	81.5	0.026
-1.6	0.609	6.6	0.186	20.5	0.028	41.0	0.090	61.5	0.017	82.0	0.022
-1.4	0.676	6.8	0.172	21.0	0.055	41.5	0.093	62.0	0.022	82.5	0.019
-1.2	0.738	7.0	0.155	21.5	0.078	42.0	0.091	62.5	0.029	83.0	0.016
-1.0	0.795	7.2	0.136	22.0	0.093	42.5	0.084	63.0	0.038	83.5	0.014
-0.8	0.847	7.4	0.116	22.5	0.098	43.0	0.074	63.5	0.048	84.0	0.012
-0.6	0.892	7.6	0.096	23.0	0.094	43.5	0.060	64.0	0.059	84.5	0.010
-0.4	0.930	7.8	0.077	23.5	0.082	44.0	0.045	64.5	0.073	85.0	0.008
-0.2	0.960	8.0	0.063	24.0	0.064	44.5	0.029	65.0	0.084	85.5	0.006
0.0	0.982	8.2	0.056	24.5	0.044	45.0	0.015	65.5	0.095	86.0	0.005
0.2	0.995	8.4	0.058	25.0	0.031	45.5	0.007	66.0	0.106	86.5	0.004
0.4	1.000	8.6	0.068	25.5	0.034	46.0	0.014	66.5	0.116	87.0	0.003
0.6	0.996	8.8	0.080	26.0	0.046	46.5	0.022	67.0	0.124	87.5	0.002
0.8	0.984	9.0	0.093	26.5	0.054	47.0	0.028	67.5	0.132	88.0	0.002
1.0	0.964	9.2	0.104	27.0	0.056	47.5	0.031	68.0	0.138	88.5	0.001
1.2	0.936	9.4	0.113	27.5	0.050	48.0	0.034	68.5	0.143	89.0	0.001
1.4	0.900	9.6	0.120	28.0	0.038	48.5	0.037	69.0	0.146	89.5	0.000
1.6	0.857	9.8	0.122	28.5	0.023	49.0	0.042	69.5	0.148	90.0	0.000
1.8	0.808	10.0	0.125	29.0	0.022	49.5	0.050	70.0	0.148		
2.0	0.754	10.2	0.125	29.5	0.039	50.0	0.059	70.5	0.148		
2.2	0.695	10.4	0.121	30.0	0.059	50.5	0.070	71.0	0.146		



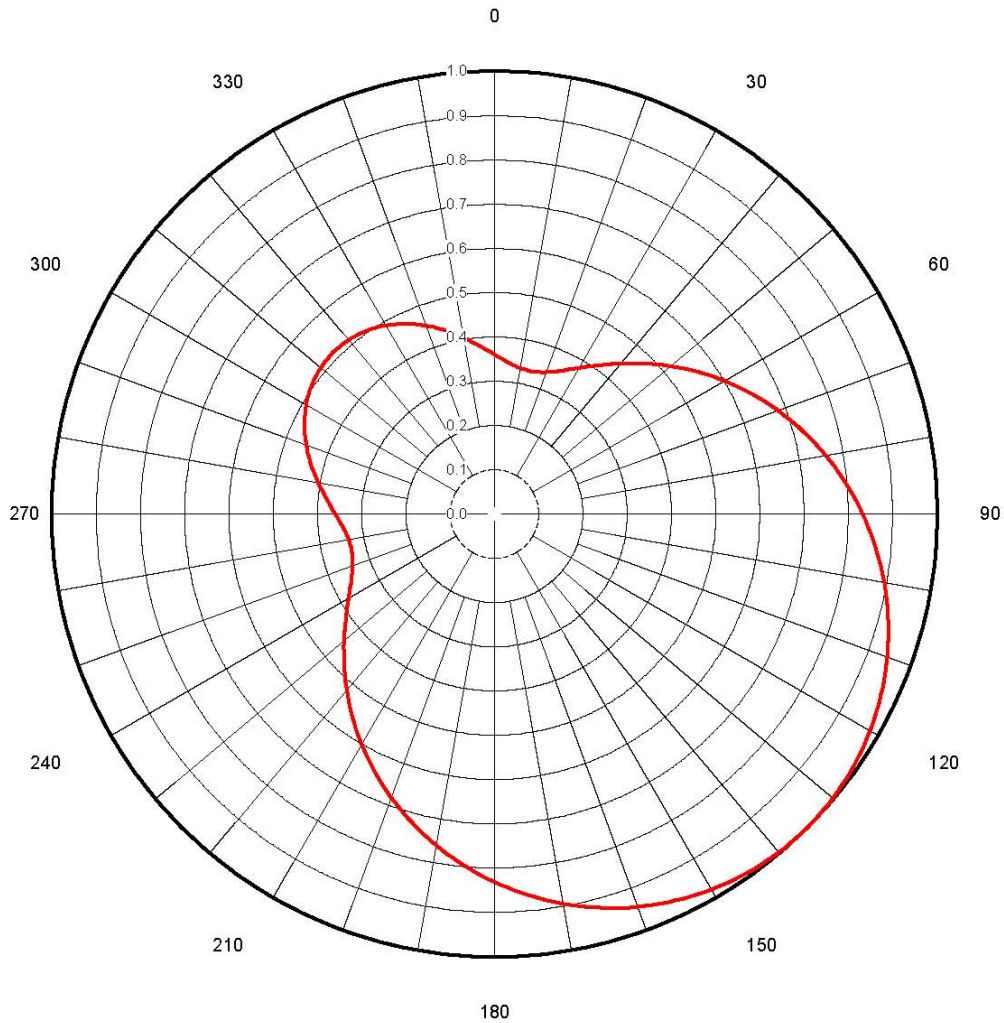


Proposal Number	C-00511	Revision:	1
Date	18-Jul-06		
Call Letters	KTBY-DT	Channel	20
Location	Anchorage, AK		
Customer			
Antenna Type	TFU-14DSB-C (SP)		

AZIMUTH PATTERN

Gain **2.40** **(3.80 dB)**
Calculated / Measured **Calculated**

Frequency **509.00 MHz**
Drawing # **DSB-C240**





Proposal Number C-00511 Revision: 1
Date 18-Jul-06
Call Letters KTBY-DT Channel 20
Location Anchorage, AK
Customer
Antenna Type TFU-14DSB-C (SP)

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: DSB-C240

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.360	45	0.480	90	0.831	135	1.000	180	0.831	225	0.480	270	0.360	315	0.516
1	0.356	46	0.488	91	0.838	136	1.000	181	0.824	226	0.473	271	0.363	316	0.516
2	0.353	47	0.496	92	0.844	137	1.000	182	0.817	227	0.465	272	0.368	317	0.515
3	0.349	48	0.504	93	0.851	138	0.999	183	0.810	228	0.458	273	0.372	318	0.515
4	0.346	49	0.511	94	0.857	139	0.999	184	0.803	229	0.451	274	0.376	319	0.514
5	0.343	50	0.519	95	0.864	140	0.998	185	0.796	230	0.444	275	0.381	320	0.513
6	0.341	51	0.527	96	0.870	141	0.997	186	0.789	231	0.436	276	0.385	321	0.512
7	0.339	52	0.535	97	0.876	142	0.995	187	0.782	232	0.430	277	0.390	322	0.510
8	0.337	53	0.543	98	0.882	143	0.994	188	0.774	233	0.423	278	0.395	323	0.509
9	0.335	54	0.551	99	0.888	144	0.992	189	0.767	234	0.416	279	0.399	324	0.507
10	0.334	55	0.560	100	0.894	145	0.991	190	0.759	235	0.410	280	0.404	325	0.505
11	0.333	56	0.568	101	0.899	146	0.989	191	0.752	236	0.404	281	0.409	326	0.502
12	0.333	57	0.576	102	0.905	147	0.987	192	0.744	237	0.397	282	0.414	327	0.500
13	0.332	58	0.584	103	0.910	148	0.984	193	0.737	238	0.392	283	0.419	328	0.497
14	0.333	59	0.592	104	0.915	149	0.982	194	0.729	239	0.386	284	0.424	329	0.494
15	0.333	60	0.600	105	0.920	150	0.979	195	0.721	240	0.381	285	0.429	330	0.491
16	0.334	61	0.608	106	0.925	151	0.977	196	0.713	241	0.375	286	0.434	331	0.488
17	0.335	62	0.617	107	0.930	152	0.973	197	0.705	242	0.370	287	0.438	332	0.485
18	0.337	63	0.625	108	0.935	153	0.970	198	0.697	243	0.365	288	0.443	333	0.481
19	0.339	64	0.633	109	0.940	154	0.967	199	0.689	244	0.361	289	0.448	334	0.477
20	0.341	65	0.641	110	0.944	155	0.964	200	0.681	245	0.357	290	0.452	335	0.474
21	0.343	66	0.649	111	0.948	156	0.960	201	0.673	246	0.353	291	0.457	336	0.470
22	0.346	67	0.657	112	0.952	157	0.956	202	0.665	247	0.349	292	0.461	337	0.465
23	0.349	68	0.665	113	0.956	158	0.952	203	0.657	248	0.346	293	0.465	338	0.461
24	0.353	69	0.673	114	0.960	159	0.948	204	0.649	249	0.343	294	0.470	339	0.457
25	0.357	70	0.681	115	0.964	160	0.944	205	0.641	250	0.341	295	0.474	340	0.452
26	0.361	71	0.690	116	0.967	161	0.940	206	0.633	251	0.339	296	0.477	341	0.448
27	0.365	72	0.697	117	0.970	162	0.935	207	0.625	252	0.337	297	0.481	342	0.443
28	0.370	73	0.705	118	0.973	163	0.930	208	0.617	253	0.335	298	0.485	343	0.438
29	0.375	74	0.713	119	0.977	164	0.925	209	0.608	254	0.334	299	0.488	344	0.434
30	0.381	75	0.721	120	0.979	165	0.920	210	0.600	255	0.333	300	0.491	345	0.429
31	0.386	76	0.729	121	0.982	166	0.915	211	0.592	256	0.333	301	0.494	346	0.424
32	0.392	77	0.737	122	0.984	167	0.910	212	0.584	257	0.332	302	0.497	347	0.419
33	0.397	78	0.744	123	0.987	168	0.905	213	0.576	258	0.333	303	0.500	348	0.414
34	0.404	79	0.752	124	0.989	169	0.899	214	0.568	259	0.333	304	0.502	349	0.409
35	0.410	80	0.759	125	0.991	170	0.894	215	0.560	260	0.334	305	0.505	350	0.404
36	0.416	81	0.767	126	0.992	171	0.888	216	0.551	261	0.335	306	0.507	351	0.399
37	0.423	82	0.774	127	0.994	172	0.882	217	0.543	262	0.337	307	0.509	352	0.395
38	0.430	83	0.782	128	0.995	173	0.876	218	0.535	263	0.339	308	0.510	353	0.390
39	0.436	84	0.789	129	0.997	174	0.870	219	0.527	264	0.341	309	0.512	354	0.385
40	0.444	85	0.796	130	0.998	175	0.864	220	0.519	265	0.343	310	0.513	355	0.381
41	0.451	86	0.803	131	0.999	176	0.857	221	0.511	266	0.346	311	0.514	356	0.376
42	0.458	87	0.810	132	0.999	177	0.851	222	0.504	267	0.349	312	0.515	357	0.372
43	0.465	88	0.817	133	1.000	178	0.844	223	0.496	268	0.353	313	0.515	358	0.368
44	0.473	89	0.824	134	1.000	179	0.838	224	0.488	269	0.356	314	0.516	359	0.363

