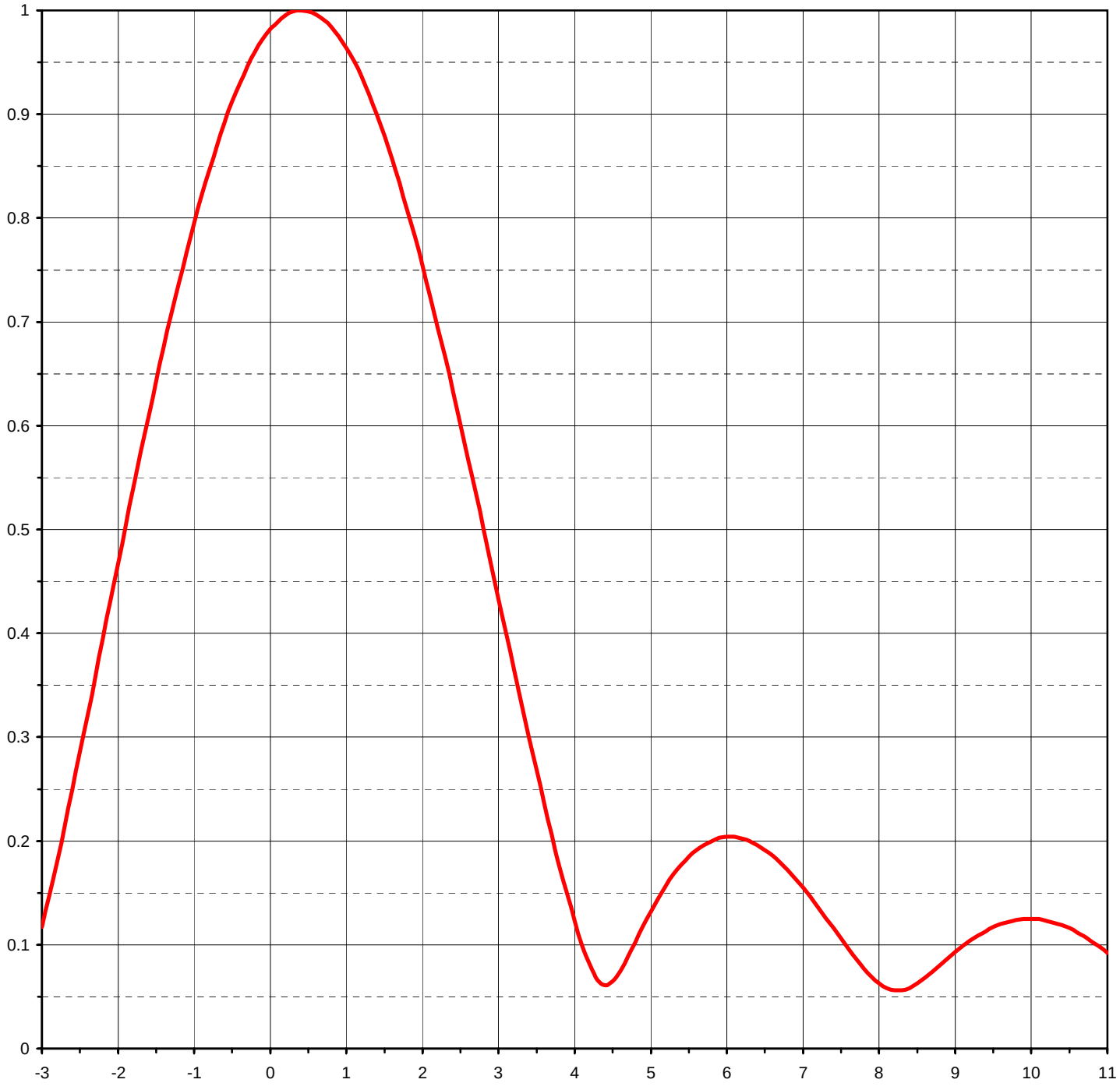
Dielectric

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**

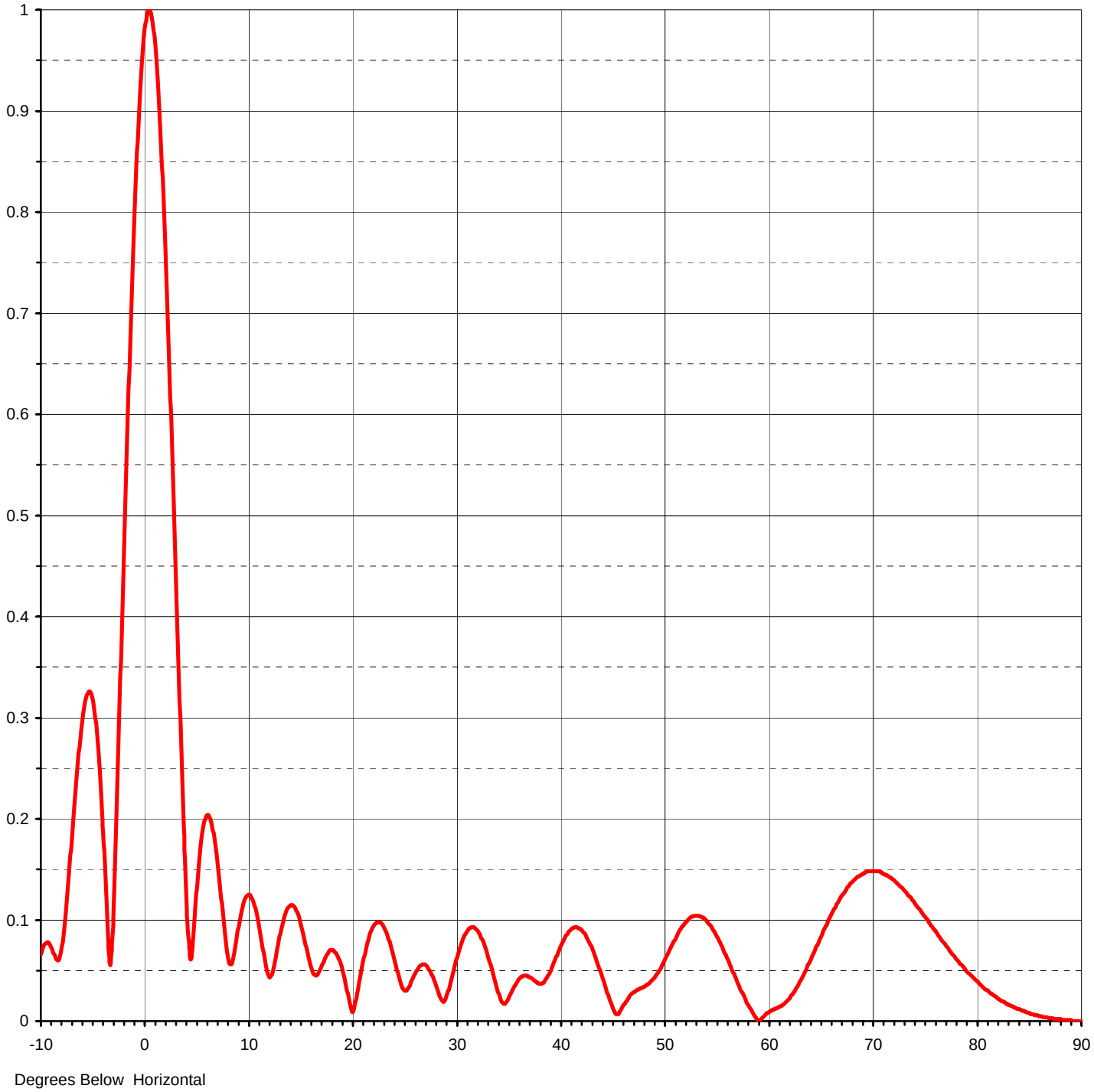


Dielectric

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**



Dielectric

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**

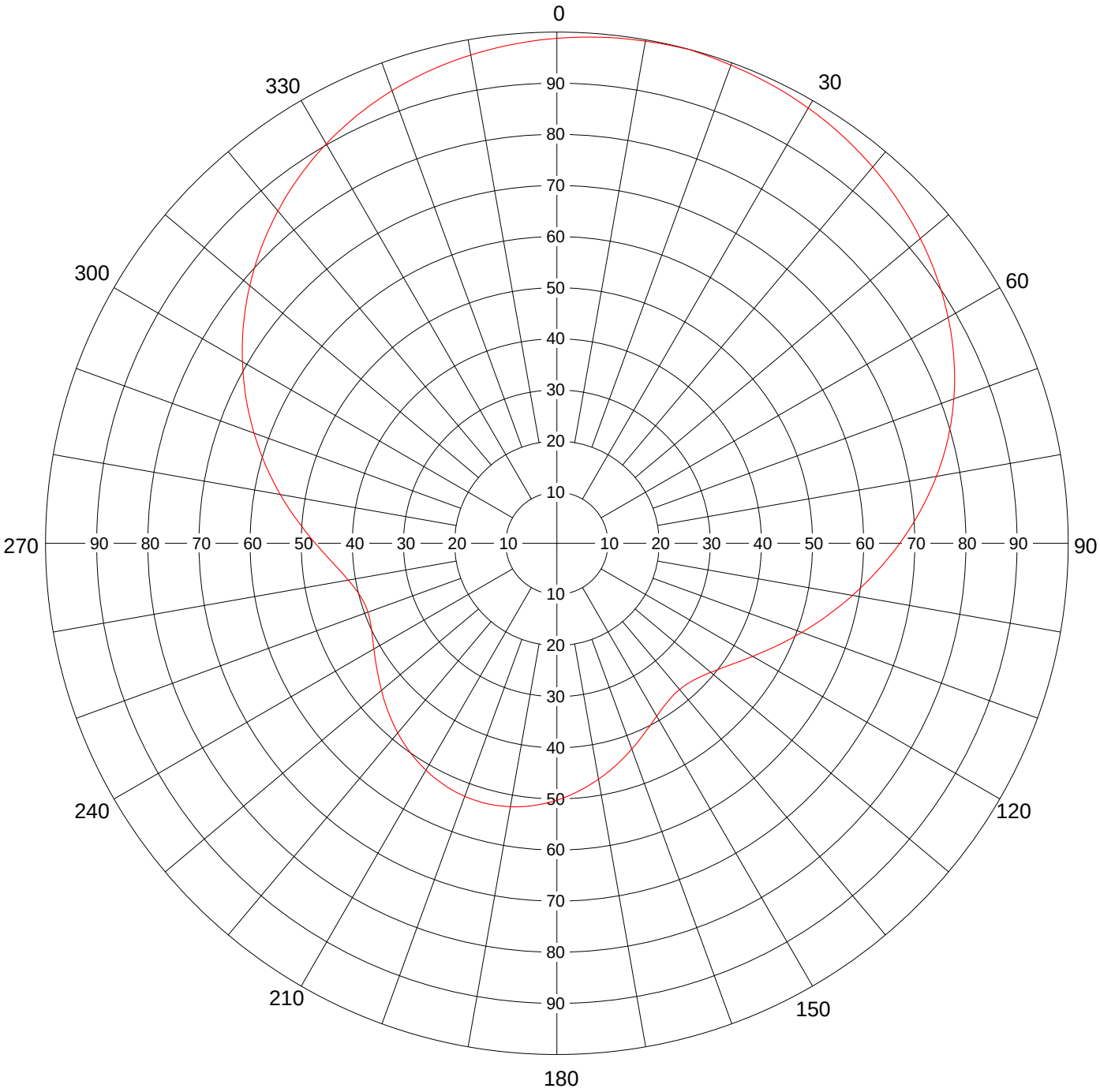
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.066	2.4	0.633	10.6	0.116	30.5	0.076	51.0	0.080	71.5	0.143
-9.5	0.077	2.6	0.568	10.8	0.108	31.0	0.088	51.5	0.090	72.0	0.139
-9.0	0.073	2.8	0.501	11.0	0.098	31.5	0.093	52.0	0.097	72.5	0.134
-8.5	0.061	3.0	0.433	11.5	0.068	32.0	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		

Dielectric

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)**	Frequency	**509 MHz**
Calculated / Measured	**Calculated**	Drawing #	**DSB-C**



Remarks:

Dielectric

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-C**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.988	45	0.946	90	0.670	135	0.378	180	0.502	225	0.467	270	0.472	315	0.818
1	0.989	46	0.942	91	0.662	136	0.377	181	0.505	226	0.463	271	0.479	316	0.824
2	0.990	47	0.939	92	0.653	137	0.375	182	0.508	227	0.459	272	0.487	317	0.830
3	0.991	48	0.935	93	0.645	138	0.374	183	0.510	228	0.455	273	0.494	318	0.837
4	0.993	49	0.932	94	0.637	139	0.373	184	0.513	229	0.452	274	0.502	319	0.843
5	0.994	50	0.928	95	0.628	140	0.373	185	0.515	230	0.448	275	0.510	320	0.849
6	0.995	51	0.924	96	0.620	141	0.373	186	0.517	231	0.444	276	0.517	321	0.855
7	0.995	52	0.920	97	0.611	142	0.374	187	0.519	232	0.440	277	0.525	322	0.860
8	0.996	53	0.916	98	0.603	143	0.375	188	0.520	233	0.437	278	0.533	323	0.866
9	0.997	54	0.912	99	0.595	144	0.376	189	0.522	234	0.433	279	0.541	324	0.872
10	0.998	55	0.907	100	0.587	145	0.378	190	0.523	235	0.430	280	0.549	325	0.877
11	0.998	56	0.903	101	0.579	146	0.380	191	0.524	236	0.426	281	0.557	326	0.882
12	0.999	57	0.898	102	0.571	147	0.382	192	0.525	237	0.423	282	0.565	327	0.887
13	0.999	58	0.893	103	0.563	148	0.385	193	0.526	238	0.419	283	0.573	328	0.892
14	0.999	59	0.889	104	0.555	149	0.387	194	0.527	239	0.416	284	0.581	329	0.897
15	1.000	60	0.884	105	0.547	150	0.390	195	0.527	240	0.413	285	0.590	330	0.902
16	0.999	61	0.878	106	0.539	151	0.394	196	0.528	241	0.410	286	0.598	331	0.907
17	0.998	62	0.873	107	0.532	152	0.397	197	0.528	242	0.407	287	0.606	332	0.911
18	0.997	63	0.868	108	0.524	153	0.401	198	0.528	243	0.405	288	0.614	333	0.916
19	0.996	64	0.862	109	0.517	154	0.404	199	0.527	244	0.402	289	0.622	334	0.920
20	0.995	65	0.857	110	0.510	155	0.408	200	0.527	245	0.400	290	0.630	335	0.924
21	0.995	66	0.851	111	0.502	156	0.412	201	0.526	246	0.398	291	0.638	336	0.928
22	0.994	67	0.845	112	0.495	157	0.416	202	0.525	247	0.396	292	0.646	337	0.932
23	0.993	68	0.839	113	0.488	158	0.420	203	0.524	248	0.395	293	0.654	338	0.935
24	0.992	69	0.833	114	0.481	159	0.424	204	0.523	249	0.394	294	0.663	339	0.939
25	0.990	70	0.826	115	0.474	160	0.428	205	0.522	250	0.393	295	0.671	340	0.942
26	0.989	71	0.820	116	0.468	161	0.432	206	0.520	251	0.393	296	0.679	341	0.946
27	0.988	72	0.813	117	0.461	162	0.437	207	0.518	252	0.394	297	0.686	342	0.949
28	0.986	73	0.806	118	0.455	163	0.441	208	0.517	253	0.395	298	0.694	343	0.952
29	0.985	74	0.799	119	0.448	164	0.445	209	0.515	254	0.396	299	0.702	344	0.955
30	0.983	75	0.792	120	0.442	165	0.449	210	0.512	255	0.398	300	0.710	345	0.958
31	0.981	76	0.784	121	0.436	166	0.453	211	0.510	256	0.400	301	0.718	346	0.960
32	0.980	77	0.777	122	0.430	167	0.457	212	0.508	257	0.403	302	0.725	347	0.963
33	0.978	78	0.769	123	0.425	168	0.461	213	0.505	258	0.406	303	0.733	348	0.965
34	0.976	79	0.761	124	0.420	169	0.465	214	0.503	259	0.410	304	0.741	349	0.968
35	0.973	80	0.754	125	0.414	170	0.469	215	0.500	260	0.414	305	0.748	350	0.970
36	0.971	81	0.746	126	0.410	171	0.472	216	0.497	261	0.419	306	0.755	351	0.972
37	0.969	82	0.737	127	0.405	172	0.476	217	0.494	262	0.423	307	0.763	352	0.974
38	0.966	83	0.729	128	0.401	173	0.480	218	0.491	263	0.429	308	0.770	353	0.976
39	0.964	84	0.721	129	0.396	174	0.483	219	0.488	264	0.434	309	0.777	354	0.978
40	0.961	85	0.713	130	0.393	175	0.487	220	0.484	265	0.440	310	0.784	355	0.980
41	0.958	86	0.704	131	0.389	176	0.490	221	0.481	266	0.446	311	0.791	356	0.982
42	0.955	87	0.696	132	0.386	177	0.493	222	0.477	267	0.452	312	0.798	357	0.983
43	0.952	88	0.687	133	0.383	178	0.497	223	0.474	268	0.459	313	0.804	358	0.985
44	0.949	89	0.679	134	0.381	179	0.500	224	0.470	269	0.465	314	0.811	359	0.986

Remarks: