

Directional Antenna Data

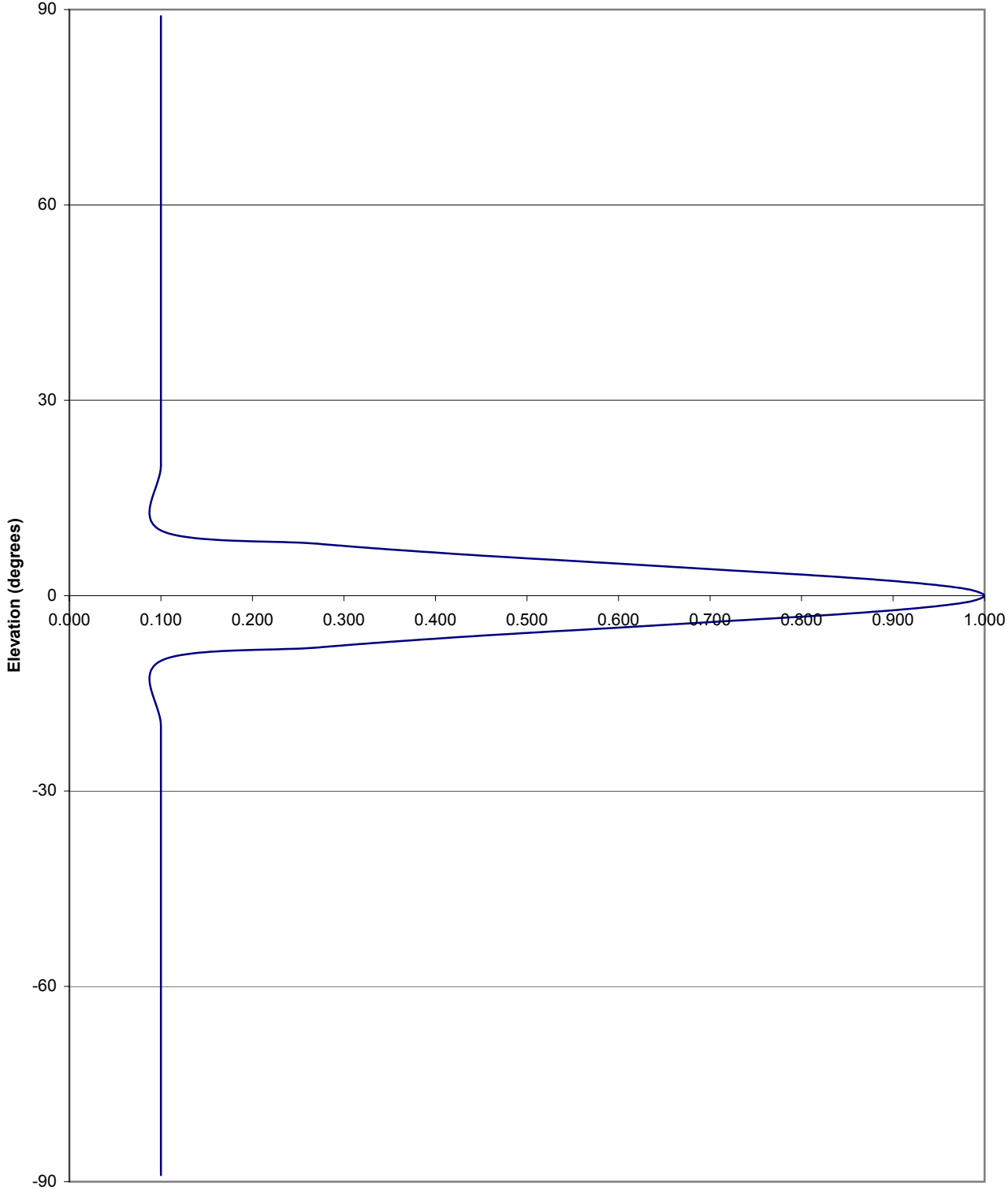
Exhibit 2

TowerStream Corp.
San Francisco, CA

Radiation Pattern Envelope information for the base station antenna is provided on the following pages. This pattern was developed to model the composite, worst-case effect of an omnidirectional or sectorized antenna system at the base station location.

Hub Antenna Elevation	
Maximum Radiation Pattern Envelope	
Breakpoints for Antenna Relative Field change	
Elevation (degrees)	Relative Field
-89	0.100
-30	0.100
-20	0.100
-10	0.100
-8	0.269
-7	0.359
-6	0.468
-5	0.589
-4	0.708
-3	0.827
-2	0.920
-1	0.981
0	1.000
1	0.981
2	0.920
3	0.827
4	0.708
5	0.589
6	0.468
7	0.359
8	0.269
10	0.100
20	0.100
30	0.100
89	0.100

Hub Antenna Elevation Plot
Relative Field



Directional Antenna Data

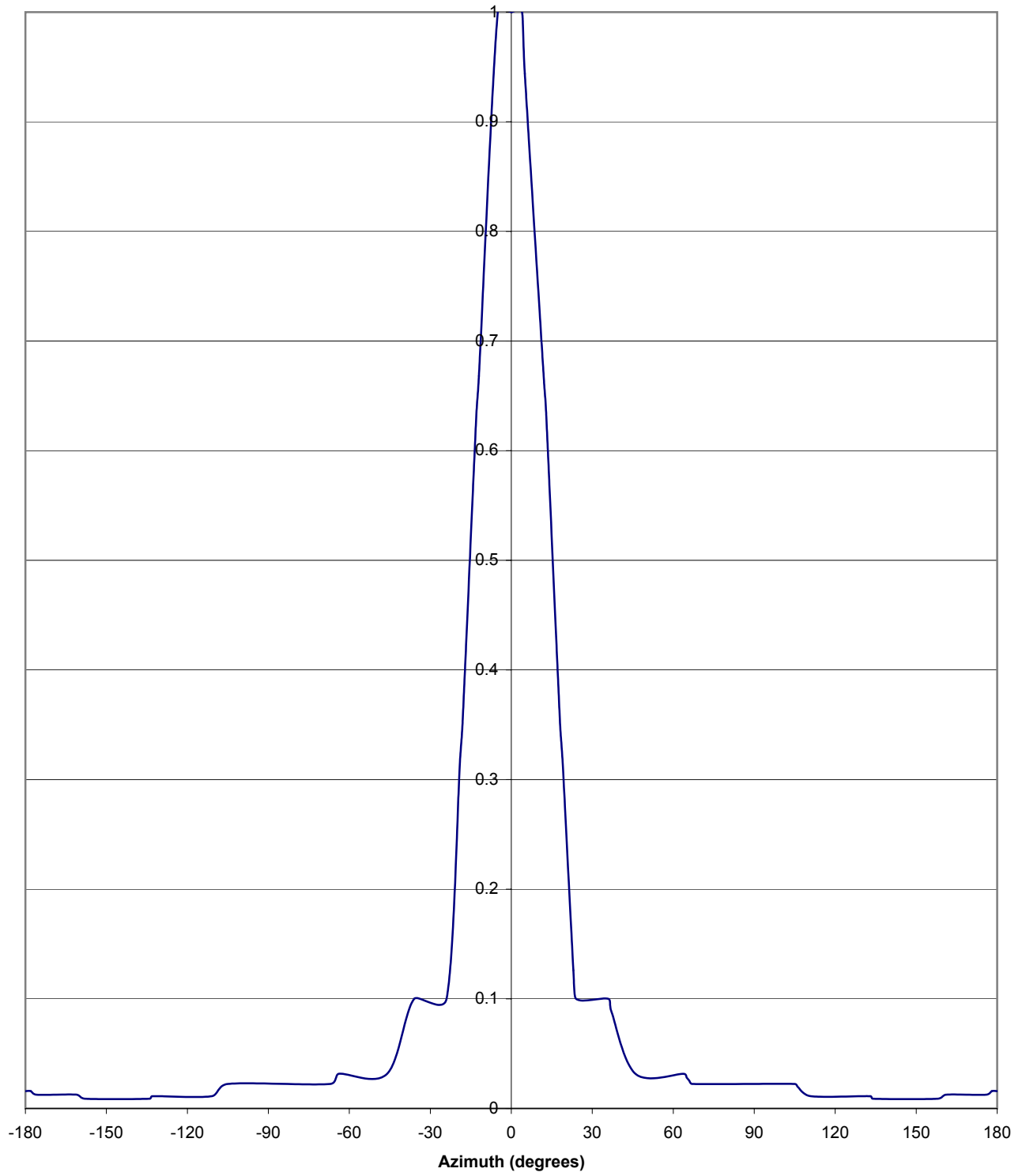
Exhibit 2

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San Francisco, CA

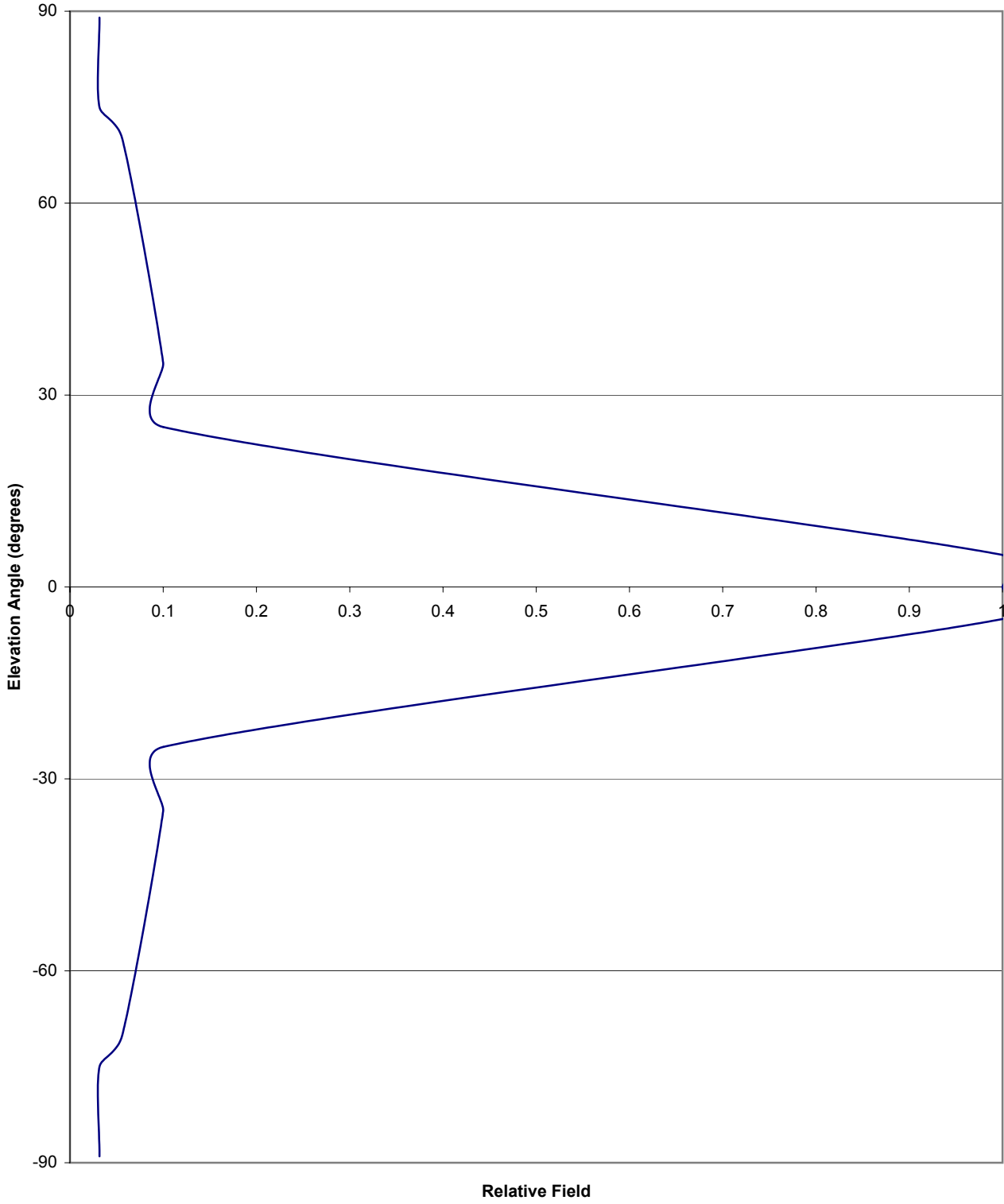
Radiation Pattern Envelope information for the antenna to be utilized at customer premises test installations is provided on the following pages.

Aperto Customer Terminal Antenna				
Maximum Radiation Pattern Envelope				
Breakpoints for Antenna Relative Field Change				
Azimuth	Relative Field		Elevation	Relative Field
-180	0.0158		89	0.0316
-178	0.0158		75	0.0316
-176	0.0126		70	0.0562
-161	0.0126		35	0.1000
-158	0.0089		25	0.1000
-134	0.0089		5	1.0000
-133	0.0112		0	1.0000
-111	0.0112		-5	1.0000
-105	0.0224		-25	0.1000
-67	0.0224		-35	0.1000
-64	0.0316		-70	0.0562
-46	0.0316		-75	0.0316
-36	0.1000		-89	0.0316
-24	0.1000			
-19	0.3160			
-18	0.3550			
-13	0.6310			
-12	0.6680			
-5	1.0000			
0	1.0000			
4	1.0000			
5	0.9440			
12	0.6680			
13	0.6310			
18	0.3550			
19	0.3160			
23	0.1260			
24	0.1000			
36	0.1000			
37	0.0891			
46	0.0316			
64	0.0316			
65	0.0282			
66	0.0251			
67	0.0224			
105	0.0224			
106	0.0200			
111	0.0112			
133	0.0112			
134	0.0089			
158	0.0089			
161	0.0126			
176	0.0126			
178	0.0158			
180	0.0158			

**Aperto Customer Terminal Antenna
Relative Field Plot
Horizontal Plane**



Aperto Customer Terminal Antenna
Elevation Pattern



Directional Antenna Data

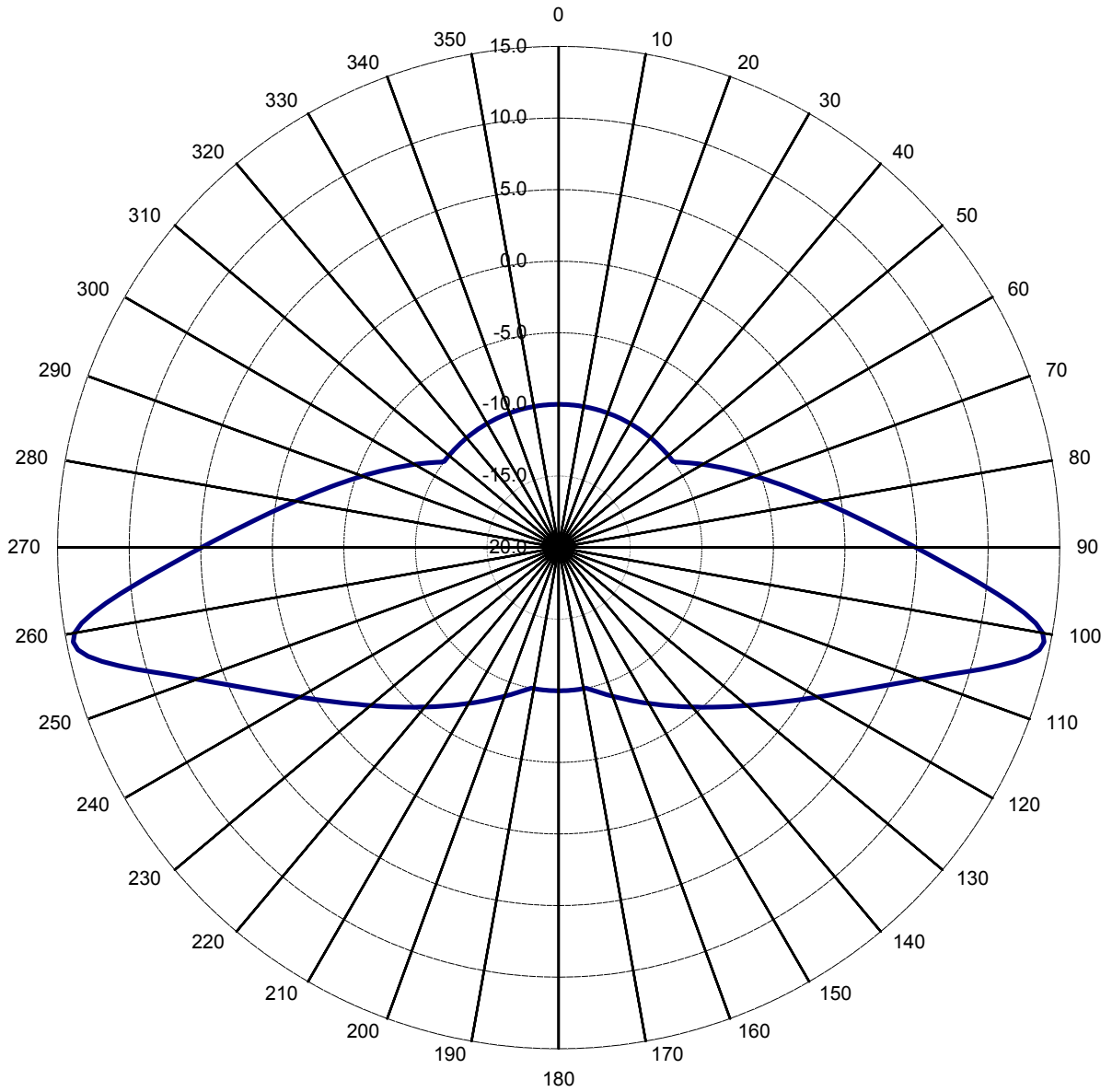
Exhibit 2

TowerStream Corp.
San Francisco, CA

Antenna pattern information used in studies to evaluate the impact of the proposed facility upon existing FSS facilities is provided on the following pages.

Fixed Satellite Earth Station Horizontal Plane Pattern, Gain dBi											
Location: Three Peaks			Eastern Orbital Limit: 50.3					Maximum Elevation: 45.8			
Call Sign: E950208			WesternOrbitalLimit: 195.3								
Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain
0	-10.0	60	-8.4	120	0.9	180	-10.0	240	0.9	300	-8.4
1	-10.0	61	-8.1	121	0.4	181	-10.0	241	1.3	301	-8.6
2	-10.0	62	-7.9	122	0.0	182	-10.0	242	1.8	302	-8.9
3	-10.0	63	-7.6	123	-0.4	183	-10.0	243	2.3	303	-9.1
4	-10.0	64	-7.3	124	-0.8	184	-10.0	244	2.9	304	-9.4
5	-10.0	65	-7.0	125	-1.2	185	-10.0	245	3.4	305	-9.6
6	-10.0	66	-6.7	126	-1.5	186	-10.0	246	4.1	306	-9.8
7	-10.0	67	-6.4	127	-1.9	187	-10.0	247	4.7	307	-10.0
8	-10.0	68	-6.1	128	-2.2	188	-10.0	248	5.4	308	-10.0
9	-10.0	69	-5.7	129	-2.5	189	-10.0	249	6.1	309	-10.0
10	-10.0	70	-5.4	130	-2.8	190	-10.0	250	6.9	310	-10.0
11	-10.0	71	-5.1	131	-3.1	191	-10.0	251	7.8	311	-10.0
12	-10.0	72	-4.7	132	-3.4	192	-9.9	252	8.6	312	-10.0
13	-10.0	73	-4.3	133	-3.7	193	-9.8	253	9.7	313	-10.0
14	-10.0	74	-4.0	134	-4.0	194	-9.7	254	10.8	314	-10.0
15	-10.0	75	-3.6	135	-4.3	195	-9.6	255	11.9	315	-10.0
16	-10.0	76	-3.1	136	-4.5	196	-9.5	256	12.9	316	-10.0
17	-10.0	77	-2.7	137	-4.8	197	-9.3	257	13.7	317	-10.0
18	-10.0	78	-2.3	138	-5.0	198	-9.2	258	14.3	318	-10.0
19	-10.0	79	-1.8	139	-5.2	199	-9.1	259	14.5	319	-10.0
20	-10.0	80	-1.3	140	-5.5	200	-9.0	260	14.3	320	-10.0
21	-10.0	81	-0.8	141	-5.7	201	-8.8	261	13.7	321	-10.0
22	-10.0	82	-0.3	142	-5.9	202	-8.7	262	12.9	322	-10.0
23	-10.0	83	0.2	143	-6.1	203	-8.5	263	11.9	323	-10.0
24	-10.0	84	0.8	144	-6.3	204	-8.4	264	10.8	324	-10.0
25	-10.0	85	1.4	145	-6.5	205	-8.2	265	9.7	325	-10.0
26	-10.0	86	2.0	146	-6.7	206	-8.1	266	8.6	326	-10.0
27	-10.0	87	2.7	147	-6.9	207	-7.9	267	7.6	327	-10.0
28	-10.0	88	3.4	148	-7.1	208	-7.8	268	6.7	328	-10.0
29	-10.0	89	4.2	149	-7.3	209	-7.6	269	5.8	329	-10.0
30	-10.0	90	5.0	150	-7.4	210	-7.4	270	5.0	330	-10.0
31	-10.0	91	5.8	151	-7.6	211	-7.3	271	4.2	331	-10.0
32	-10.0	92	6.7	152	-7.8	212	-7.1	272	3.4	332	-10.0
33	-10.0	93	7.6	153	-7.9	213	-6.9	273	2.7	333	-10.0
34	-10.0	94	8.6	154	-8.1	214	-6.7	274	2.0	334	-10.0
35	-10.0	95	9.7	155	-8.2	215	-6.5	275	1.4	335	-10.0
36	-10.0	96	10.8	156	-8.4	216	-6.3	276	0.8	336	-10.0
37	-10.0	97	11.9	157	-8.5	217	-6.1	277	0.2	337	-10.0
38	-10.0	98	12.9	158	-8.7	218	-5.9	278	-0.3	338	-10.0
39	-10.0	99	13.7	159	-8.8	219	-5.7	279	-0.8	339	-10.0
40	-10.0	100	14.3	160	-9.0	220	-5.5	280	-1.3	340	-10.0
41	-10.0	101	14.5	161	-9.1	221	-5.2	281	-1.8	341	-10.0
42	-10.0	102	14.3	162	-9.2	222	-5.0	282	-2.3	342	-10.0
43	-10.0	103	13.7	163	-9.3	223	-4.8	283	-2.7	343	-10.0
44	-10.0	104	12.9	164	-9.5	224	-4.5	284	-3.1	344	-10.0
45	-10.0	105	11.9	165	-9.6	225	-4.3	285	-3.6	345	-10.0
46	-10.0	106	10.8	166	-9.7	226	-4.0	286	-4.0	346	-10.0
47	-10.0	107	9.7	167	-9.8	227	-3.7	287	-4.3	347	-10.0
48	-10.0	108	8.6	168	-9.9	228	-3.4	288	-4.7	348	-10.0
49	-10.0	109	7.8	169	-10.0	229	-3.1	289	-5.1	349	-10.0
50	-10.0	110	6.9	170	-10.0	230	-2.8	290	-5.4	350	-10.0
51	-10.0	111	6.1	171	-10.0	231	-2.5	291	-5.7	351	-10.0
52	-10.0	112	5.4	172	-10.0	232	-2.2	292	-6.1	352	-10.0
53	-10.0	113	4.7	173	-10.0	233	-1.9	293	-6.4	353	-10.0
54	-9.8	114	4.1	174	-10.0	234	-1.5	294	-6.7	354	-10.0
55	-9.6	115	3.4	175	-10.0	235	-1.2	295	-7.0	355	-10.0
56	-9.4	116	2.9	176	-10.0	236	-0.8	296	-7.3	356	-10.0
57	-9.1	117	2.3	177	-10.0	237	-0.4	297	-7.6	357	-10.0
58	-8.9	118	1.8	178	-10.0	238	0.0	298	-7.9	358	-10.0
59	-8.6	119	1.3	179	-10.0	239	0.4	299	-8.1	359	-10.0

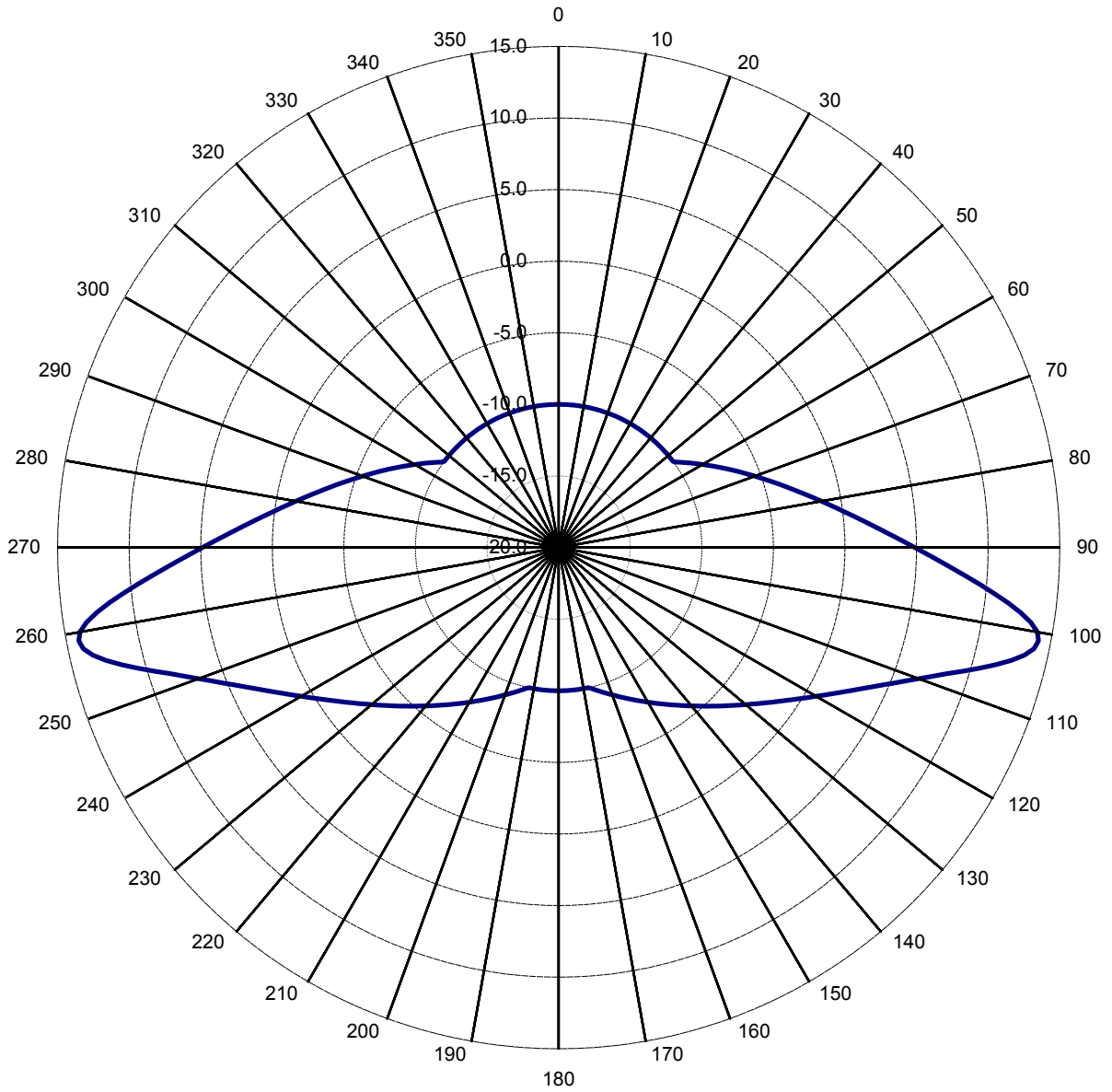
Fixed Satellite Earth Station
Horizontal Plane Antenna Pattern
dBi



— Three Peaks E950208

Fixed Satellite Earth Station Horizontal Plane Pattern, Gain dBi											
Location: San Ramon			Eastern Orbital Limit: 49.2					Maximum Elevation: 46.2			
Call Sign: E6241			Western Orbital Limit: 194.4								
Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain
0	-10.0	60	-8.4	120	0.8	180	-10.0	240	0.8	300	-8.4
1	-10.0	61	-8.1	121	0.3	181	-10.0	241	1.2	301	-8.6
2	-10.0	62	-7.9	122	-0.1	182	-10.0	242	1.7	302	-8.9
3	-10.0	63	-7.6	123	-0.5	183	-10.0	243	2.2	303	-9.1
4	-10.0	64	-7.3	124	-0.9	184	-10.0	244	2.8	304	-9.4
5	-10.0	65	-7.0	125	-1.3	185	-10.0	245	3.3	305	-9.6
6	-10.0	66	-6.7	126	-1.6	186	-10.0	246	3.9	306	-9.9
7	-10.0	67	-6.4	127	-2.0	187	-10.0	247	4.6	307	-10.0
8	-10.0	68	-6.1	128	-2.3	188	-10.0	248	5.3	308	-10.0
9	-10.0	69	-5.8	129	-2.6	189	-10.0	249	6.0	309	-10.0
10	-10.0	70	-5.4	130	-2.9	190	-10.0	250	6.8	310	-10.0
11	-10.0	71	-5.1	131	-3.2	191	-10.0	251	7.6	311	-10.0
12	-10.0	72	-4.7	132	-3.5	192	-10.0	252	8.5	312	-10.0
13	-10.0	73	-4.3	133	-3.8	193	-9.9	253	9.5	313	-10.0
14	-10.0	74	-4.0	134	-4.1	194	-9.8	254	10.6	314	-10.0
15	-10.0	75	-3.6	135	-4.4	195	-9.7	255	11.6	315	-10.0
16	-10.0	76	-3.2	136	-4.6	196	-9.6	256	12.6	316	-10.0
17	-10.0	77	-2.7	137	-4.9	197	-9.4	257	13.4	317	-10.0
18	-10.0	78	-2.3	138	-5.1	198	-9.3	258	13.9	318	-10.0
19	-10.0	79	-1.8	139	-5.3	199	-9.2	259	14.1	319	-10.0
20	-10.0	80	-1.4	140	-5.6	200	-9.1	260	13.9	320	-10.0
21	-10.0	81	-0.9	141	-5.8	201	-8.9	261	13.4	321	-10.0
22	-10.0	82	-0.3	142	-6.0	202	-8.8	262	12.6	322	-10.0
23	-10.0	83	0.2	143	-6.2	203	-8.6	263	11.6	323	-10.0
24	-10.0	84	0.8	144	-6.4	204	-8.5	264	10.6	324	-10.0
25	-10.0	85	1.4	145	-6.6	205	-8.3	265	9.5	325	-10.0
26	-10.0	86	2.0	146	-6.8	206	-8.2	266	8.5	326	-10.0
27	-10.0	87	2.7	147	-7.0	207	-8.0	267	7.5	327	-10.0
28	-10.0	88	3.4	148	-7.2	208	-7.9	268	6.6	328	-10.0
29	-10.0	89	4.1	149	-7.4	209	-7.7	269	5.7	329	-10.0
30	-10.0	90	4.9	150	-7.5	210	-7.5	270	4.9	330	-10.0
31	-10.0	91	5.7	151	-7.7	211	-7.4	271	4.1	331	-10.0
32	-10.0	92	6.6	152	-7.9	212	-7.2	272	3.4	332	-10.0
33	-10.0	93	7.5	153	-8.0	213	-7.0	273	2.7	333	-10.0
34	-10.0	94	8.5	154	-8.2	214	-6.8	274	2.0	334	-10.0
35	-10.0	95	9.5	155	-8.3	215	-6.6	275	1.4	335	-10.0
36	-10.0	96	10.6	156	-8.5	216	-6.4	276	0.8	336	-10.0
37	-10.0	97	11.6	157	-8.6	217	-6.2	277	0.2	337	-10.0
38	-10.0	98	12.6	158	-8.8	218	-6.0	278	-0.3	338	-10.0
39	-10.0	99	13.4	159	-8.9	219	-5.8	279	-0.9	339	-10.0
40	-10.0	100	13.9	160	-9.1	220	-5.6	280	-1.4	340	-10.0
41	-10.0	101	14.1	161	-9.2	221	-5.3	281	-1.8	341	-10.0
42	-10.0	102	13.9	162	-9.3	222	-5.1	282	-2.3	342	-10.0
43	-10.0	103	13.4	163	-9.4	223	-4.9	283	-2.7	343	-10.0
44	-10.0	104	12.6	164	-9.6	224	-4.6	284	-3.2	344	-10.0
45	-10.0	105	11.6	165	-9.7	225	-4.4	285	-3.6	345	-10.0
46	-10.0	106	10.6	166	-9.8	226	-4.1	286	-4.0	346	-10.0
47	-10.0	107	9.5	167	-9.9	227	-3.8	287	-4.3	347	-10.0
48	-10.0	108	8.5	168	-10.0	228	-3.5	288	-4.7	348	-10.0
49	-10.0	109	7.6	169	-10.0	229	-3.2	289	-5.1	349	-10.0
50	-10.0	110	6.8	170	-10.0	230	-2.9	290	-5.4	350	-10.0
51	-10.0	111	6.0	171	-10.0	231	-2.6	291	-5.8	351	-10.0
52	-10.0	112	5.3	172	-10.0	232	-2.3	292	-6.1	352	-10.0
53	-10.0	113	4.6	173	-10.0	233	-2.0	293	-6.4	353	-10.0
54	-9.9	114	3.9	174	-10.0	234	-1.6	294	-6.7	354	-10.0
55	-9.6	115	3.3	175	-10.0	235	-1.3	295	-7.0	355	-10.0
56	-9.4	116	2.8	176	-10.0	236	-0.9	296	-7.3	356	-10.0
57	-9.1	117	2.2	177	-10.0	237	-0.5	297	-7.6	357	-10.0
58	-8.9	118	1.7	178	-10.0	238	-0.1	298	-7.9	358	-10.0
59	-8.6	119	1.2	179	-10.0	239	0.3	299	-8.1	359	-10.0

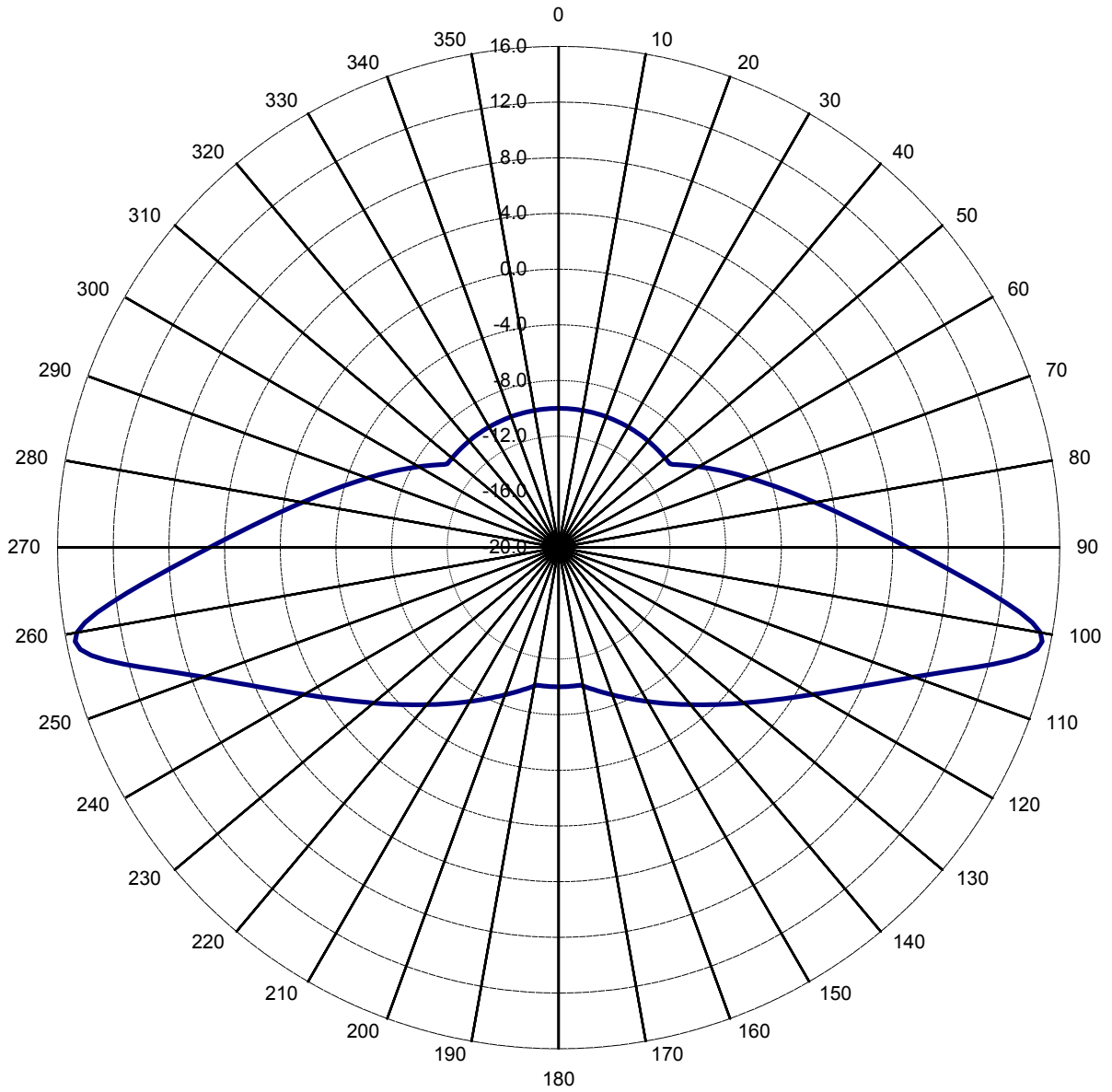
Fixed Satellite Earth Station
Horizontal Plane Antenna Pattern
dBi



— San Ramon E6241

Fixed Satellite Earth Station Horizontal Plane Pattern, Gain dBi											
Location: Salt Creek			Eastern Orbital Limit: 49.8					Maximum Elevation: 44.9			
Call Sign: KA371			Western Orbital Limit: 194.5								
Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain	Az	Gain
0	-10.0	60	-8.4	120	1.1	180	-10.0	240	1.1	300	-8.4
1	-10.0	61	-8.1	121	0.7	181	-10.0	241	1.6	301	-8.6
2	-10.0	62	-7.8	122	0.2	182	-10.0	242	2.1	302	-8.9
3	-10.0	63	-7.6	123	-0.2	183	-10.0	243	2.6	303	-9.1
4	-10.0	64	-7.3	124	-0.6	184	-10.0	244	3.1	304	-9.4
5	-10.0	65	-7.0	125	-0.9	185	-10.0	245	3.7	305	-9.6
6	-10.0	66	-6.7	126	-1.3	186	-10.0	246	4.3	306	-9.8
7	-10.0	67	-6.4	127	-1.7	187	-10.0	247	5.0	307	-10.0
8	-10.0	68	-6.1	128	-2.0	188	-10.0	248	5.6	308	-10.0
9	-10.0	69	-5.7	129	-2.3	189	-10.0	249	6.4	309	-10.0
10	-10.0	70	-5.4	130	-2.6	190	-9.9	250	7.2	310	-10.0
11	-10.0	71	-5.0	131	-2.9	191	-9.8	251	8.1	311	-10.0
12	-10.0	72	-4.7	132	-3.2	192	-9.7	252	9.0	312	-10.0
13	-10.0	73	-4.3	133	-3.5	193	-9.6	253	10.0	313	-10.0
14	-10.0	74	-3.9	134	-3.8	194	-9.5	254	11.2	314	-10.0
15	-10.0	75	-3.5	135	-4.1	195	-9.4	255	12.4	315	-10.0
16	-10.0	76	-3.1	136	-4.3	196	-9.2	256	13.5	316	-10.0
17	-10.0	77	-2.7	137	-4.6	197	-9.1	257	14.5	317	-10.0
18	-10.0	78	-2.2	138	-4.8	198	-9.0	258	15.1	318	-10.0
19	-10.0	79	-1.8	139	-5.0	199	-8.9	259	15.4	319	-10.0
20	-10.0	80	-1.3	140	-5.3	200	-8.7	260	15.1	320	-10.0
21	-10.0	81	-0.8	141	-5.5	201	-8.6	261	14.5	321	-10.0
22	-10.0	82	-0.3	142	-5.7	202	-8.5	262	13.5	322	-10.0
23	-10.0	83	0.3	143	-5.9	203	-8.3	263	12.4	323	-10.0
24	-10.0	84	0.9	144	-6.1	204	-8.2	264	11.2	324	-10.0
25	-10.0	85	1.5	145	-6.3	205	-8.0	265	10.0	325	-10.0
26	-10.0	86	2.1	146	-6.5	206	-7.9	266	8.9	326	-10.0
27	-10.0	87	2.8	147	-6.7	207	-7.7	267	7.9	327	-10.0
28	-10.0	88	3.5	148	-6.9	208	-7.6	268	6.9	328	-10.0
29	-10.0	89	4.3	149	-7.1	209	-7.4	269	6.0	329	-10.0
30	-10.0	90	5.1	150	-7.2	210	-7.2	270	5.1	330	-10.0
31	-10.0	91	6.0	151	-7.4	211	-7.1	271	4.3	331	-10.0
32	-10.0	92	6.9	152	-7.6	212	-6.9	272	3.5	332	-10.0
33	-10.0	93	7.9	153	-7.7	213	-6.7	273	2.8	333	-10.0
34	-10.0	94	8.9	154	-7.9	214	-6.5	274	2.1	334	-10.0
35	-10.0	95	10.0	155	-8.0	215	-6.3	275	1.5	335	-10.0
36	-10.0	96	11.2	156	-8.2	216	-6.1	276	0.9	336	-10.0
37	-10.0	97	12.4	157	-8.3	217	-5.9	277	0.3	337	-10.0
38	-10.0	98	13.5	158	-8.5	218	-5.7	278	-0.3	338	-10.0
39	-10.0	99	14.5	159	-8.6	219	-5.5	279	-0.8	339	-10.0
40	-10.0	100	15.1	160	-8.7	220	-5.3	280	-1.3	340	-10.0
41	-10.0	101	15.4	161	-8.9	221	-5.0	281	-1.8	341	-10.0
42	-10.0	102	15.1	162	-9.0	222	-4.8	282	-2.2	342	-10.0
43	-10.0	103	14.5	163	-9.1	223	-4.6	283	-2.7	343	-10.0
44	-10.0	104	13.5	164	-9.2	224	-4.3	284	-3.1	344	-10.0
45	-10.0	105	12.4	165	-9.4	225	-4.1	285	-3.5	345	-10.0
46	-10.0	106	11.2	166	-9.5	226	-3.8	286	-3.9	346	-10.0
47	-10.0	107	10.0	167	-9.6	227	-3.5	287	-4.3	347	-10.0
48	-10.0	108	9.0	168	-9.7	228	-3.2	288	-4.7	348	-10.0
49	-10.0	109	8.1	169	-9.8	229	-2.9	289	-5.0	349	-10.0
50	-10.0	110	7.2	170	-9.9	230	-2.6	290	-5.4	350	-10.0
51	-10.0	111	6.4	171	-10.0	231	-2.3	291	-5.7	351	-10.0
52	-10.0	112	5.6	172	-10.0	232	-2.0	292	-6.1	352	-10.0
53	-10.0	113	5.0	173	-10.0	233	-1.7	293	-6.4	353	-10.0
54	-9.8	114	4.3	174	-10.0	234	-1.3	294	-6.7	354	-10.0
55	-9.6	115	3.7	175	-10.0	235	-0.9	295	-7.0	355	-10.0
56	-9.4	116	3.1	176	-10.0	236	-0.6	296	-7.3	356	-10.0
57	-9.1	117	2.6	177	-10.0	237	-0.2	297	-7.6	357	-10.0
58	-8.9	118	2.1	178	-10.0	238	0.2	298	-7.8	358	-10.0
59	-8.6	119	1.6	179	-10.0	239	0.7	299	-8.1	359	-10.0

Fixed Satellite Earth Station
Horizontal Plane Antenna Pattern
dBi



— Salt Creek KA371