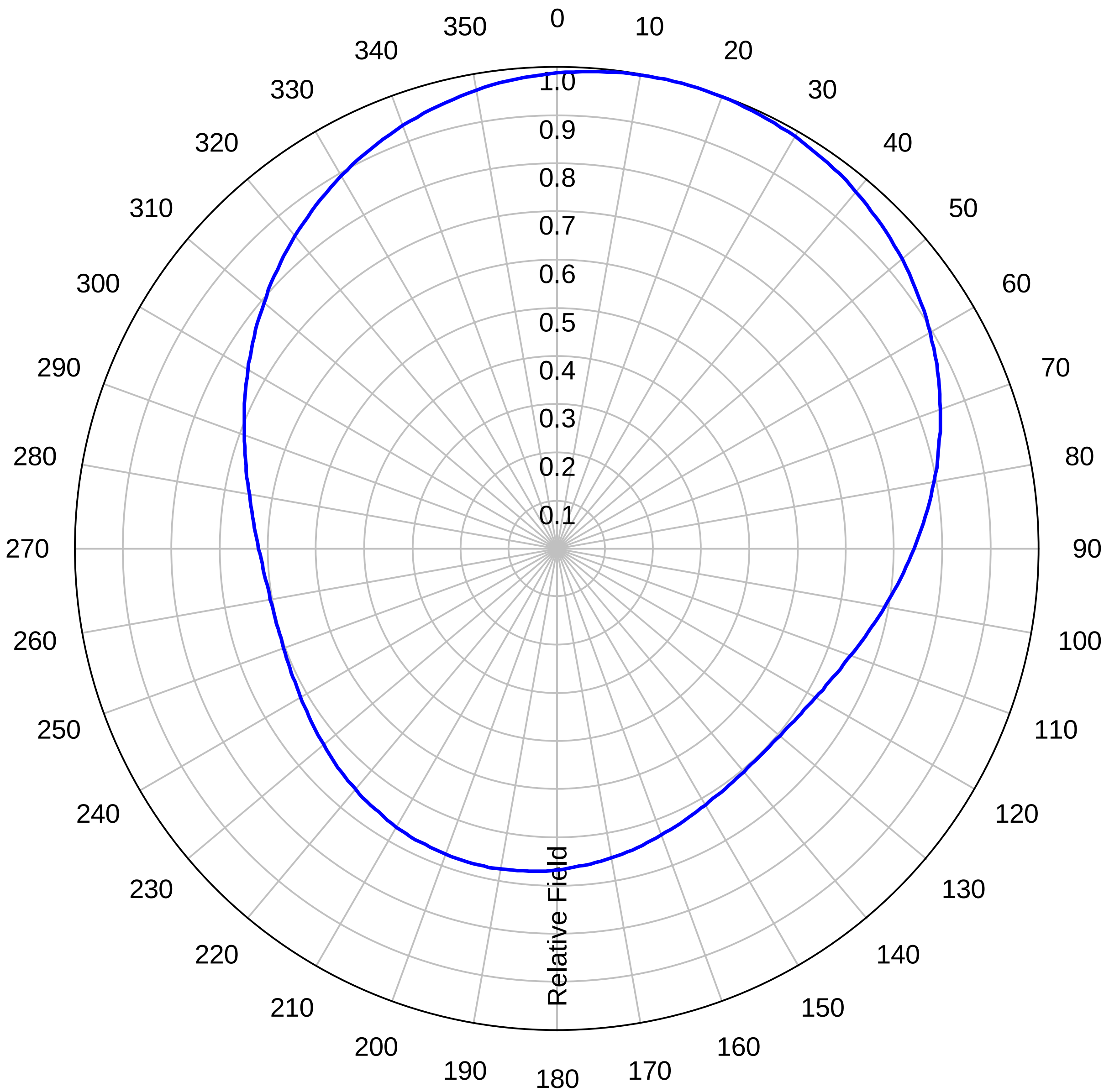
AZIMUTH PATTERN

Type:	**ALP-OC**		**Channel:**	**16**
	Numeric	**dBd**	**Location:**	
Directivity:	**1.70**	**2.30**	**Polarization:**	**Horizontal**
Peak(s) at:				

Note: Pattern shape and directivity may vary with channel and mouting configuration.



Preliminary, subject to final design and review.

TABULATED DATA FOR AZIMUTH PATTERN

Type: ALP-OC
Polarization:Horizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.988	-0.10	92	0.730	-2.73	184	0.671	-3.47	276	0.635	-3.94
2	0.990	-0.09	94	0.720	-2.85	186	0.672	-3.45	278	0.641	-3.86
4	0.993	-0.06	96	0.710	-2.97	188	0.673	-3.44	280	0.648	-3.77
6	0.995	-0.04	98	0.700	-3.10	190	0.675	-3.41	282	0.656	-3.66
8	0.997	-0.03	100	0.690	-3.22	192	0.676	-3.40	284	0.664	-3.56
10	0.998	-0.02	102	0.681	-3.34	194	0.676	-3.40	286	0.672	-3.45
12	0.999	-0.01	104	0.672	-3.45	196	0.676	-3.40	288	0.681	-3.34
14	1.000	0.00	106	0.664	-3.56	198	0.676	-3.40	290	0.690	-3.22
16	1.000	0.00	108	0.656	-3.66	200	0.675	-3.41	292	0.700	-3.10
18	0.999	-0.01	110	0.648	-3.77	202	0.673	-3.44	294	0.710	-2.97
20	0.998	-0.02	112	0.641	-3.86	204	0.672	-3.45	296	0.720	-2.85
22	0.997	-0.03	114	0.635	-3.94	206	0.671	-3.47	298	0.730	-2.73
24	0.995	-0.04	116	0.629	-4.03	208	0.669	-3.49	300	0.740	-2.62
26	0.993	-0.06	118	0.624	-4.10	210	0.667	-3.52	302	0.751	-2.49
28	0.990	-0.09	120	0.619	-4.17	212	0.664	-3.56	304	0.762	-2.36
30	0.988	-0.10	122	0.614	-4.24	214	0.660	-3.61	306	0.773	-2.24
32	0.984	-0.14	124	0.611	-4.28	216	0.658	-3.64	308	0.783	-2.12
34	0.980	-0.18	126	0.608	-4.32	218	0.655	-3.68	310	0.793	-2.01
36	0.976	-0.21	128	0.605	-4.36	220	0.651	-3.73	312	0.805	-1.88
38	0.972	-0.25	130	0.604	-4.38	222	0.648	-3.77	314	0.815	-1.78
40	0.966	-0.30	132	0.602	-4.41	224	0.644	-3.82	316	0.825	-1.67
42	0.960	-0.35	134	0.602	-4.41	226	0.640	-3.88	318	0.836	-1.56
44	0.954	-0.41	136	0.602	-4.41	228	0.636	-3.93	320	0.846	-1.45
46	0.948	-0.46	138	0.602	-4.41	230	0.632	-3.99	322	0.856	-1.35
48	0.941	-0.53	140	0.604	-4.38	232	0.629	-4.03	324	0.866	-1.25
50	0.935	-0.58	142	0.605	-4.36	234	0.625	-4.08	326	0.876	-1.15
52	0.927	-0.66	144	0.607	-4.34	236	0.621	-4.14	328	0.885	-1.06
54	0.919	-0.73	146	0.609	-4.31	238	0.618	-4.18	330	0.894	-0.97
56	0.911	-0.81	148	0.611	-4.28	240	0.615	-4.22	332	0.903	-0.89
58	0.903	-0.89	150	0.615	-4.22	242	0.611	-4.28	334	0.911	-0.81
60	0.894	-0.97	152	0.618	-4.18	244	0.609	-4.31	336	0.919	-0.73
62	0.885	-1.06	154	0.621	-4.14	246	0.607	-4.34	338	0.927	-0.66
64	0.876	-1.15	156	0.625	-4.08	248	0.605	-4.36	340	0.935	-0.58
66	0.866	-1.25	158	0.629	-4.03	250	0.604	-4.38	342	0.941	-0.53
68	0.856	-1.35	160	0.632	-3.99	252	0.602	-4.41	344	0.948	-0.46
70	0.846	-1.45	162	0.636	-3.93	254	0.602	-4.41	346	0.954	-0.41
72	0.836	-1.56	164	0.640	-3.88	256	0.602	-4.41	348	0.960	-0.35
74	0.825	-1.67	166	0.644	-3.82	258	0.602	-4.41	350	0.966	-0.30
76	0.815	-1.78	168	0.648	-3.77	260	0.604	-4.38	352	0.972	-0.25
78	0.805	-1.88	170	0.651	-3.73	262	0.605	-4.36	354	0.976	-0.21
80	0.794	-2.00	172	0.655	-3.68	264	0.608	-4.32	356	0.980	-0.18
82	0.783	-2.12	174	0.658	-3.64	266	0.611	-4.28	358	0.984	-0.14
84	0.773	-2.24	176	0.660	-3.61	268	0.614	-4.24	360	0.988	-0.10
86	0.762	-2.36	178	0.664	-3.56	270	0.619	-4.17			
88	0.751	-2.49	180	0.667	-3.52	272	0.624	-4.10			
90	0.741	-2.60	182	0.669	-3.49	274	0.629	-4.03			

Preliminary, subject to final design and review.

TABULATED DATA FOR AZIMUTH PATTERN
FCC FILING FORMAT

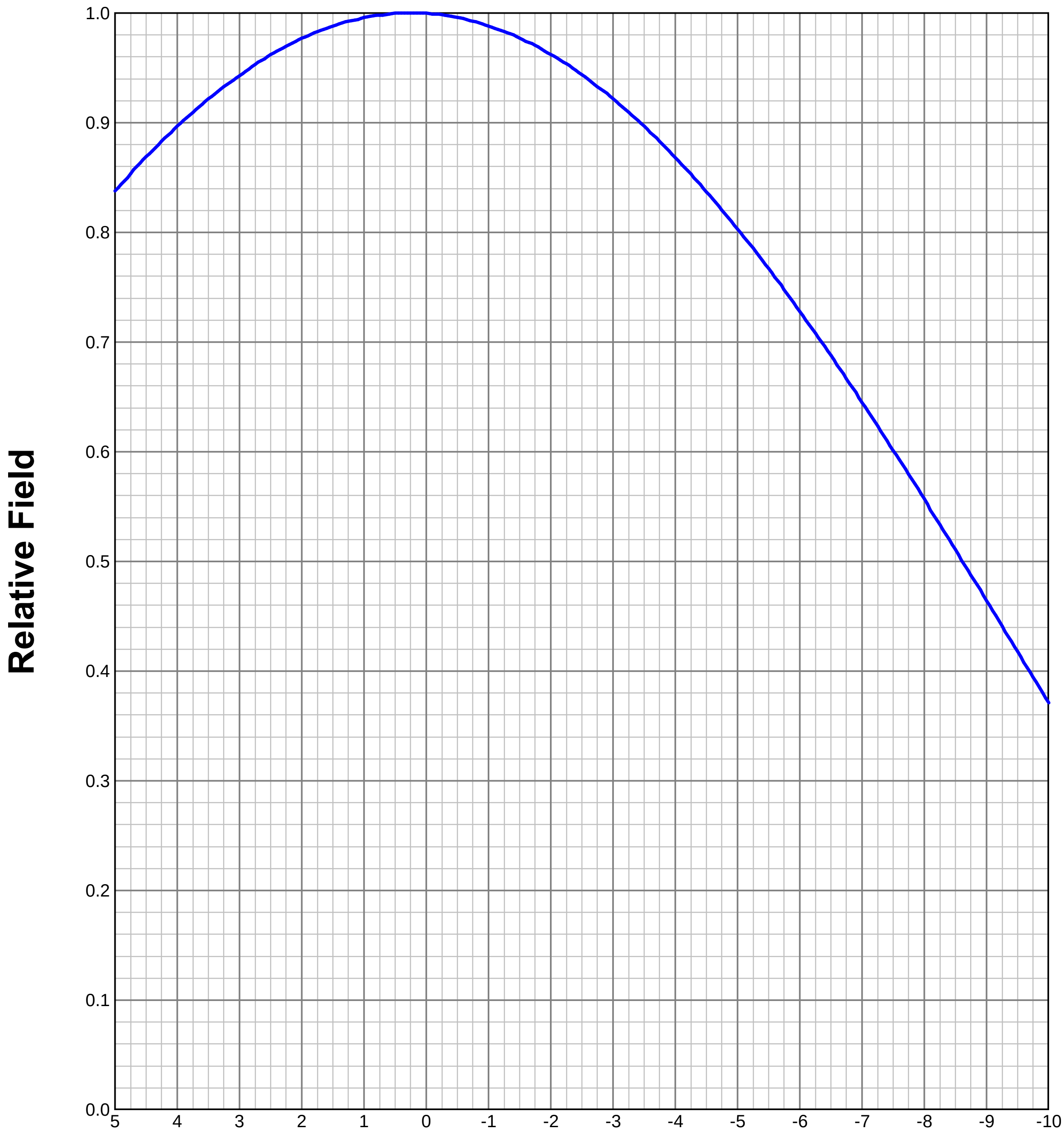
Type: ALP-OC
Polarization:Horizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	0.988	0.976	-0.104
10	0.998	0.996	-0.016
20	0.998	0.996	-0.016
30	0.988	0.976	-0.104
40	0.966	0.933	-0.299
50	0.935	0.874	-0.583
60	0.894	0.799	-0.972
70	0.846	0.716	-1.452
80	0.794	0.631	-2.003
90	0.741	0.549	-2.603
100	0.690	0.476	-3.222
110	0.648	0.420	-3.767
120	0.619	0.383	-4.165
130	0.604	0.365	-4.378
140	0.604	0.365	-4.378
150	0.615	0.378	-4.221
160	0.632	0.400	-3.985
170	0.651	0.424	-3.727
180	0.667	0.445	-3.516
190	0.675	0.456	-3.413
200	0.675	0.456	-3.413
210	0.667	0.445	-3.516
220	0.651	0.424	-3.727
230	0.632	0.400	-3.985
240	0.615	0.378	-4.221
250	0.604	0.365	-4.378
260	0.604	0.365	-4.378
270	0.619	0.383	-4.165
280	0.648	0.420	-3.767
290	0.690	0.476	-3.222
300	0.740	0.548	-2.614
310	0.793	0.629	-2.013
320	0.846	0.716	-1.452
330	0.894	0.799	-0.972
340	0.935	0.874	-0.583
350	0.966	0.933	-0.299

Preliminary, subject to final design and review.

ELEVATION PATTERN

Type:	*ALP4L1*		*Channel:*	*16*
Directivity:	*Numeric*	*dBd*	*Location:*	
Main Lobe:	*4.58*	*6.61*	*Beam Tilt:*	*0.00*
Horizontal:	*4.58*	*6.61*	*Polarization:*	*Horizontal*



Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN

Type: ***ALP4L1***
Polarization: ***Horizontal***

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
5.00	0.838	-1.54	-6.75	0.667	-3.52	-27.00	0.134	-17.46	-50.50	0.081	-21.83	-74.00	0.213	-13.43
4.75	0.853	-1.38	-7.00	0.645	-3.81	-27.50	0.115	-18.79	-51.00	0.093	-20.63	-74.50	0.207	-13.68
4.50	0.869	-1.22	-7.25	0.623	-4.10	-28.00	0.096	-20.35	-51.50	0.106	-19.49	-75.00	0.201	-13.94
4.25	0.883	-1.08	-7.50	0.601	-4.42	-28.50	0.077	-22.27	-52.00	0.118	-18.56	-75.50	0.195	-14.20
4.00	0.897	-0.94	-7.75	0.579	-4.74	-29.00	0.057	-24.88	-52.50	0.130	-17.72	-76.00	0.189	-14.47
3.75	0.909	-0.82	-8.00	0.557	-5.08	-29.50	0.038	-28.40	-53.00	0.142	-16.95	-76.50	0.183	-14.75
3.50	0.922	-0.71	-8.25	0.534	-5.46	-30.00	0.019	-34.42	-53.50	0.154	-16.25	-77.00	0.176	-15.09
3.25	0.933	-0.60	-8.50	0.511	-5.83	-30.50	0.005	-46.02	-54.00	0.165	-15.65	-77.50	0.170	-15.39
3.00	0.943	-0.51	-8.75	0.487	-6.24	-31.00	0.020	-33.98	-54.50	0.176	-15.09	-78.00	0.163	-15.76
2.75	0.953	-0.42	-9.00	0.464	-6.67	-31.50	0.038	-28.40	-55.00	0.186	-14.61	-78.50	0.157	-16.08
2.50	0.962	-0.34	-9.25	0.441	-7.11	-32.00	0.055	-25.19	-55.50	0.196	-14.15	-79.00	0.150	-16.48
2.25	0.970	-0.27	-9.50	0.418	-7.58	-32.50	0.071	-22.97	-56.00	0.206	-13.72	-79.50	0.143	-16.89
2.00	0.977	-0.20	-9.75	0.395	-8.08	-33.00	0.086	-21.31	-56.50	0.215	-13.35	-80.00	0.137	-17.27
1.75	0.983	-0.15	-10.00	0.371	-8.61	-33.50	0.100	-20.00	-57.00	0.223	-13.03	-80.50	0.130	-17.72
1.50	0.988	-0.10	-10.50	0.325	-9.76	-34.00	0.113	-18.94	-57.50	0.231	-12.73	-81.00	0.123	-18.20
1.25	0.992	-0.07	-11.00	0.280	-11.06	-34.50	0.125	-18.06	-58.00	0.238	-12.47	-81.50	0.116	-18.71
1.00	0.996	-0.03	-11.50	0.235	-12.58	-35.00	0.136	-17.33	-58.50	0.245	-12.22	-82.00	0.110	-19.17
0.75	0.998	-0.02	-12.00	0.193	-14.29	-35.50	0.145	-16.77	-59.00	0.251	-12.01	-82.50	0.103	-19.74
0.50	1.000	0.00	-12.50	0.153	-16.31	-36.00	0.153	-16.31	-59.50	0.256	-11.84	-83.00	0.096	-20.35
0.25	1.000	0.00	-13.00	0.116	-18.71	-36.50	0.160	-15.92	-60.00	0.261	-11.67	-83.50	0.089	-21.01
0.00	1.000	0.00	-13.50	0.086	-21.31	-37.00	0.166	-15.60	-60.50	0.265	-11.54	-84.00	0.082	-21.72
-0.25	0.998	-0.01	-14.00	0.067	-23.48	-37.50	0.170	-15.39	-61.00	0.269	-11.40	-84.50	0.075	-22.50
-0.50	0.996	-0.03	-14.50	0.068	-23.35	-38.00	0.172	-15.29	-61.50	0.272	-11.31	-85.00	0.069	-23.22
-0.75	0.992	-0.07	-15.00	0.084	-21.51	-38.50	0.174	-15.19	-62.00	0.275	-11.21	-85.50	0.062	-24.15
-1.00	0.988	-0.10	-15.50	0.107	-19.41	-39.00	0.174	-15.19	-62.50	0.277	-11.15	-86.00	0.055	-25.19
-1.25	0.983	-0.15	-16.00	0.131	-17.65	-39.50	0.172	-15.29	-63.00	0.279	-11.09	-86.50	0.048	-26.38
-1.50	0.977	-0.20	-16.50	0.155	-16.19	-40.00	0.170	-15.39	-63.50	0.280	-11.06	-87.00	0.041	-27.74
-1.75	0.970	-0.26	-17.00	0.177	-15.04	-40.50	0.166	-15.60	-64.00	0.280	-11.06	-87.50	0.034	-29.37
-2.00	0.962	-0.34	-17.50	0.196	-14.15	-41.00	0.162	-15.81	-64.50	0.280	-11.06	-88.00	0.027	-31.37
-2.25	0.954	-0.41	-18.00	0.214	-13.39	-41.50	0.156	-16.14	-65.00	0.280	-11.06	-88.50	0.021	-33.56
-2.50	0.944	-0.50	-18.50	0.229	-12.80	-42.00	0.149	-16.54	-65.50	0.279	-11.09	-89.00	0.014	-37.08
-2.75	0.933	-0.60	-19.00	0.241	-12.36	-42.50	0.141	-17.02	-66.00	0.278	-11.12	-89.50	0.007	-43.10
-3.00	0.922	-0.71	-19.50	0.251	-12.01	-43.00	0.133	-17.52	-66.50	0.276	-11.18	-90.00	0.000	-40.00
-3.25	0.909	-0.82	-20.00	0.258	-11.77	-43.50	0.123	-18.20	-67.00	0.274	-11.24			
-3.50	0.897	-0.94	-20.50	0.262	-11.63	-44.00	0.113	-18.94	-67.50	0.271	-11.34			
-3.75	0.883	-1.08	-21.00	0.264	-11.57	-44.50	0.103	-19.74	-68.00	0.268	-11.44			
-4.00	0.868	-1.23	-21.50	0.263	-11.60	-45.00	0.092	-20.72	-68.50	0.265	-11.54			
-4.25	0.853	-1.38	-22.00	0.261	-11.67	-45.50	0.081	-21.83	-69.00	0.262	-11.63			
-4.50	0.837	-1.55	-22.50	0.255	-11.87	-46.00	0.070	-23.10	-69.50	0.258	-11.77			
-4.75	0.821	-1.72	-23.00	0.248	-12.11	-46.50	0.060	-24.44	-70.00	0.254	-11.90			
-5.00	0.803	-1.91	-23.50	0.239	-12.43	-47.00	0.051	-25.85	-70.50	0.250	-12.04			
-5.25	0.786	-2.10	-24.00	0.228	-12.84	-47.50	0.044	-27.13	-71.00	0.245	-12.22			
-5.50	0.767	-2.30	-24.50	0.216	-13.31	-48.00	0.042	-27.54	-71.50	0.240	-12.40			
-5.75	0.748	-2.52	-25.00	0.202	-13.89	-48.50	0.044	-27.13	-72.00	0.235	-12.58			
-6.00	0.728	-2.76	-25.50	0.186	-14.61	-49.00	0.050	-26.02	-72.50	0.230	-12.77			
-6.25	0.708	-3.00	-26.00	0.170	-15.39	-49.50	0.059	-24.58	-73.00	0.225	-12.96			
-6.50	0.688	-3.25	-26.50	0.152	-16.36	-50.00	0.069	-23.22	-73.50	0.219	-13.19			

Preliminary, subject to final design and review.