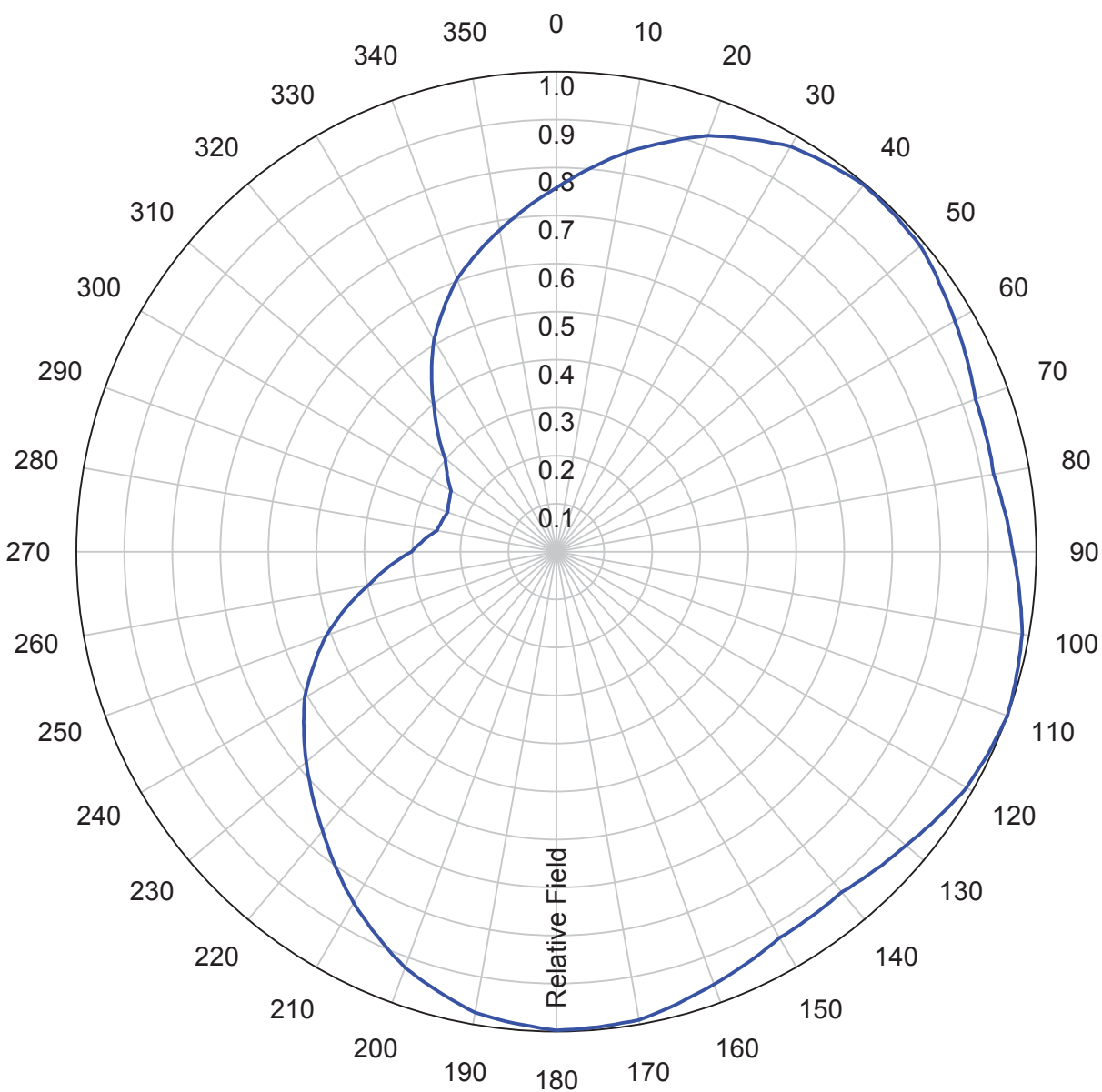


**AZIMUTH PATTERN****Type:****AL8-W****Channel:****24****Directivity:****Numeric****dBd****1.57****1.96****Peak(s) at:****Location:****Polarization:****Horizontal**

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: AL8-W

Polarization: Horizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.758	-2.41	92	0.958	-0.37	184	0.988	-0.10	276	0.273	-11.28
2	0.775	-2.21	94	0.965	-0.31	186	0.984	-0.14	278	0.263	-11.60
4	0.793	-2.01	96	0.971	-0.26	188	0.979	-0.18	280	0.253	-11.94
6	0.810	-1.83	98	0.978	-0.19	190	0.975	-0.22	282	0.251	-12.01
8	0.828	-1.64	100	0.985	-0.13	192	0.964	-0.32	284	0.248	-12.11
10	0.845	-1.46	102	0.988	-0.10	194	0.954	-0.41	286	0.246	-12.18
12	0.860	-1.31	104	0.991	-0.08	196	0.943	-0.51	288	0.243	-12.29
14	0.876	-1.15	106	0.994	-0.05	198	0.933	-0.60	290	0.241	-12.36
16	0.891	-1.00	108	0.997	-0.03	200	0.922	-0.71	292	0.243	-12.29
18	0.907	-0.85	110	1.000	0.00	202	0.907	-0.85	294	0.246	-12.18
20	0.922	-0.71	112	0.997	-0.03	204	0.891	-1.00	296	0.248	-12.11
22	0.933	-0.60	114	0.994	-0.05	206	0.876	-1.15	298	0.251	-12.01
24	0.943	-0.51	116	0.991	-0.08	208	0.860	-1.31	300	0.253	-11.94
26	0.954	-0.41	118	0.988	-0.10	210	0.845	-1.46	302	0.263	-11.60
28	0.964	-0.32	120	0.985	-0.13	212	0.828	-1.64	304	0.273	-11.28
30	0.975	-0.22	122	0.978	-0.19	214	0.810	-1.83	306	0.282	-11.00
32	0.979	-0.18	124	0.971	-0.26	216	0.793	-2.01	308	0.292	-10.69
34	0.984	-0.14	126	0.965	-0.31	218	0.775	-2.21	310	0.302	-10.40
36	0.988	-0.10	128	0.958	-0.37	220	0.758	-2.41	312	0.321	-9.87
38	0.993	-0.06	130	0.951	-0.44	222	0.742	-2.59	314	0.340	-9.37
40	0.997	-0.03	132	0.946	-0.48	224	0.727	-2.77	316	0.359	-8.90
42	0.996	-0.03	134	0.941	-0.53	226	0.711	-2.96	318	0.378	-8.45
44	0.994	-0.05	136	0.935	-0.58	228	0.696	-3.15	320	0.397	-8.02
46	0.993	-0.06	138	0.930	-0.63	230	0.680	-3.35	322	0.420	-7.54
48	0.991	-0.08	140	0.925	-0.68	232	0.665	-3.54	324	0.442	-7.09
50	0.990	-0.09	142	0.926	-0.67	234	0.650	-3.74	326	0.465	-6.65
52	0.984	-0.14	144	0.927	-0.66	236	0.635	-3.94	328	0.487	-6.25
54	0.978	-0.19	146	0.927	-0.66	238	0.620	-4.15	330	0.510	-5.85
56	0.971	-0.26	148	0.928	-0.65	240	0.605	-4.36	332	0.529	-5.53
58	0.965	-0.31	150	0.929	-0.64	242	0.586	-4.64	334	0.548	-5.22
60	0.959	-0.36	152	0.935	-0.58	244	0.567	-4.93	336	0.567	-4.93
62	0.953	-0.42	154	0.941	-0.53	246	0.548	-5.22	338	0.586	-4.64
64	0.947	-0.47	156	0.947	-0.47	248	0.529	-5.53	340	0.605	-4.36
66	0.941	-0.53	158	0.953	-0.42	250	0.510	-5.85	342	0.620	-4.15
68	0.935	-0.58	160	0.959	-0.36	252	0.487	-6.25	344	0.635	-3.94
70	0.929	-0.64	162	0.965	-0.31	254	0.465	-6.65	346	0.650	-3.74
72	0.928	-0.65	164	0.971	-0.26	256	0.442	-7.09	348	0.665	-3.54
74	0.927	-0.66	166	0.978	-0.19	258	0.420	-7.54	350	0.680	-3.35
76	0.927	-0.66	168	0.984	-0.14	260	0.397	-8.02	352	0.696	-3.15
78	0.926	-0.67	170	0.990	-0.09	262	0.378	-8.45	354	0.711	-2.96
80	0.925	-0.68	172	0.991	-0.08	264	0.359	-8.90	356	0.727	-2.77
82	0.930	-0.63	174	0.993	-0.06	266	0.340	-9.37	358	0.742	-2.59
84	0.935	-0.58	176	0.994	-0.05	268	0.321	-9.87	360	0.758	-2.41
86	0.941	-0.53	178	0.996	-0.03	270	0.302	-10.40			
88	0.946	-0.48	180	0.997	-0.03	272	0.292	-10.69			
90	0.951	-0.44	182	0.993	-0.06	274	0.282	-11.00			

Preliminary, subject to final design and review.

## TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT

Type: AL8-W

Polarization: Horizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	0.758	8.617	9.354
10	0.845	10.709	10.298
20	0.922	12.750	11.055
30	0.975	14.258	11.541
40	0.997	14.908	11.734
50	0.990	14.700	11.673
60	0.959	13.794	11.397
70	0.929	12.944	11.121
80	0.925	12.833	11.083
90	0.951	13.564	11.324
100	0.985	14.552	11.629
110	1.000	14.998	11.760
120	0.985	14.552	11.629
130	0.951	13.564	11.324
140	0.925	12.833	11.083
150	0.929	12.944	11.121
160	0.959	13.794	11.397
170	0.990	14.700	11.673
180	0.997	14.908	11.734
190	0.975	14.258	11.541
200	0.922	12.750	11.055
210	0.845	10.709	10.298
220	0.758	8.617	9.354
230	0.680	6.935	8.411
240	0.605	5.490	7.396
250	0.510	3.901	5.912
260	0.397	2.364	3.736
270	0.302	1.368	1.361
280	0.253	0.960	-0.177
290	0.241	0.871	-0.599
300	0.253	0.960	-0.177
310	0.302	1.368	1.361
320	0.397	2.364	3.736
330	0.510	3.901	5.912
340	0.605	5.490	7.396
350	0.680	6.935	8.411

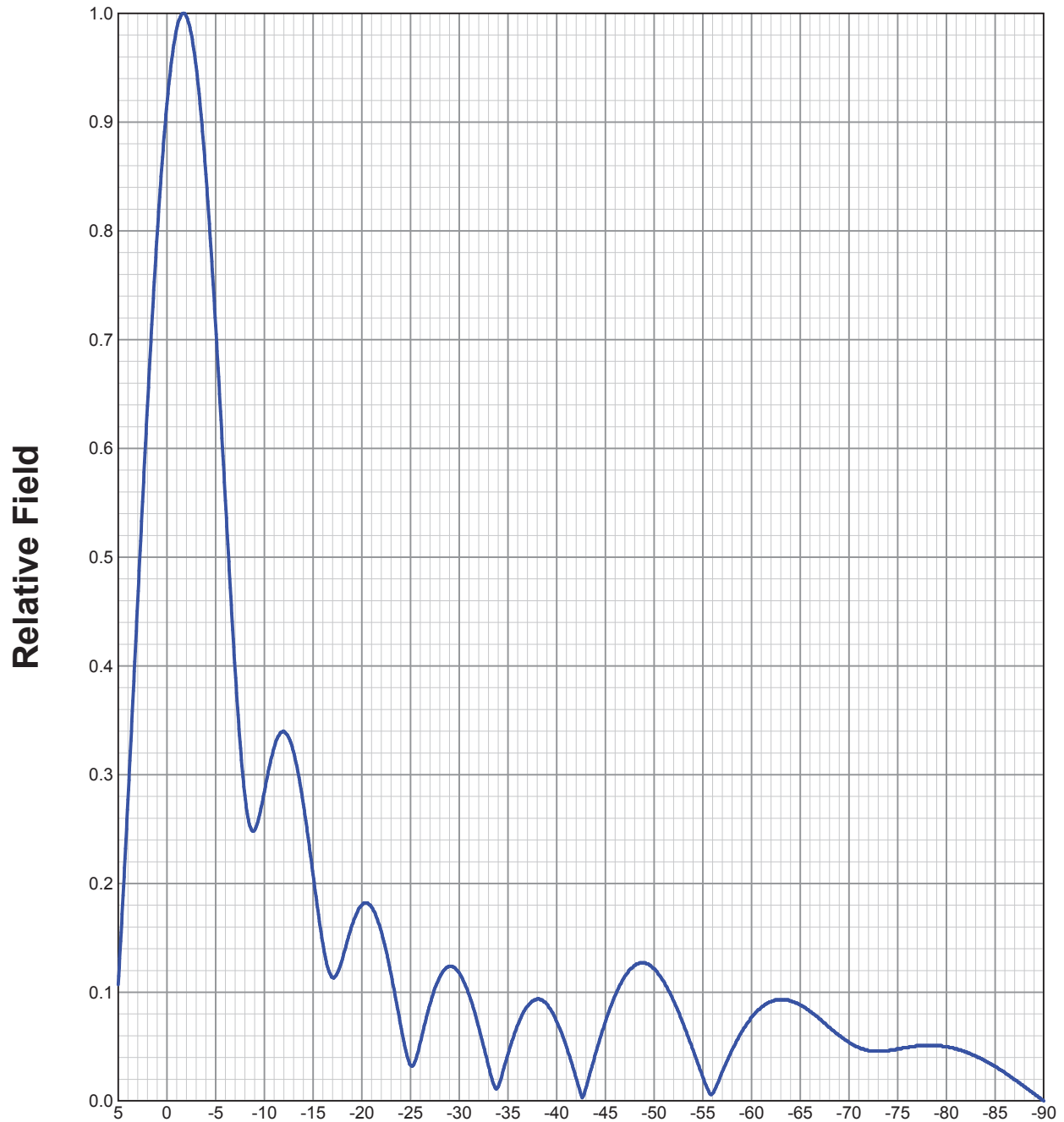
*Preliminary, subject to final design and review.*

**ELEVATION PATTERN**

Type: AL8  
Directivity: 

Numeric	dBd
<u>8.68</u>	<u>9.39</u>
<u>7.30</u>	<u>8.63</u>

Channel: 24  
Location: \_\_\_\_\_  
Beam Tilt: -1.75  
Polarization: Horizontal



*Preliminary, subject to final design and review.*

## TABULATED DATA FOR ELEVATION PATTERN

Type: AL8

Polarization: Horizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
5.00	0.107	-19.41	-6.75	0.433	-7.27	-27.00	0.089	-21.01	-50.50	0.116	-18.71	-74.00	0.046	-26.74
4.75	0.147	-16.65	-7.00	0.396	-8.05	-27.50	0.104	-19.66	-51.00	0.110	-19.17	-74.50	0.047	-26.56
4.50	0.189	-14.47	-7.25	0.361	-8.84	-28.00	0.114	-18.86	-51.50	0.101	-19.91	-75.00	0.048	-26.38
4.25	0.232	-12.69	-7.50	0.330	-9.63	-28.50	0.121	-18.34	-52.00	0.092	-20.72	-75.50	0.049	-26.20
4.00	0.277	-11.15	-7.75	0.303	-10.37	-29.00	0.124	-18.13	-52.50	0.082	-21.72	-76.00	0.049	-26.20
3.75	0.322	-9.84	-8.00	0.281	-11.03	-29.50	0.123	-18.20	-53.00	0.071	-22.97	-76.50	0.050	-26.02
3.50	0.368	-8.68	-8.25	0.264	-11.57	-30.00	0.118	-18.56	-53.50	0.059	-24.58	-77.00	0.051	-25.85
3.25	0.413	-7.67	-8.50	0.253	-11.94	-30.50	0.109	-19.25	-54.00	0.047	-26.56	-77.50	0.051	-25.85
3.00	0.460	-6.74	-8.75	0.248	-12.09	-31.00	0.098	-20.18	-54.50	0.034	-29.37	-78.00	0.051	-25.85
2.75	0.506	-5.92	-9.00	0.249	-12.08	-31.50	0.084	-21.51	-55.00	0.022	-33.15	-78.50	0.051	-25.85
2.50	0.551	-5.18	-9.25	0.255	-11.89	-32.00	0.068	-23.35	-55.50	0.011	-39.17	-79.00	0.051	-25.85
2.25	0.596	-4.50	-9.50	0.263	-11.60	-32.50	0.050	-26.02	-56.00	0.007	-43.10	-79.50	0.051	-25.85
2.00	0.639	-3.89	-9.75	0.273	-11.28	-33.00	0.032	-29.90	-56.50	0.016	-35.92	-80.00	0.050	-26.02
1.75	0.681	-3.33	-10.00	0.284	-10.93	-33.50	0.016	-35.92	-57.00	0.027	-31.37	-80.50	0.049	-26.20
1.50	0.722	-2.83	-10.50	0.307	-10.26	-34.00	0.013	-37.72	-57.50	0.037	-28.64	-81.00	0.048	-26.38
1.25	0.760	-2.38	-11.00	0.325	-9.76	-34.50	0.028	-31.06	-58.00	0.047	-26.56	-81.50	0.047	-26.56
1.00	0.797	-1.97	-11.50	0.336	-9.47	-35.00	0.043	-27.33	-58.50	0.056	-25.04	-82.00	0.045	-26.94
0.75	0.831	-1.61	-12.00	0.340	-9.37	-35.50	0.057	-24.88	-59.00	0.064	-23.88	-82.50	0.043	-27.33
0.50	0.862	-1.29	-12.50	0.334	-9.53	-36.00	0.070	-23.10	-59.50	0.071	-22.97	-83.00	0.041	-27.74
0.25	0.891	-1.00	-13.00	0.321	-9.87	-36.50	0.080	-21.94	-60.00	0.077	-22.27	-83.50	0.039	-28.18
0.00	0.917	-0.75	-13.50	0.300	-10.46	-37.00	0.087	-21.21	-60.50	0.082	-21.72	-84.00	0.037	-28.64
-0.25	0.939	-0.55	-14.00	0.273	-11.28	-37.50	0.092	-20.72	-61.00	0.086	-21.31	-84.50	0.034	-29.37
-0.50	0.958	-0.37	-14.50	0.242	-12.32	-38.00	0.094	-20.54	-61.50	0.089	-21.01	-85.00	0.032	-29.90
-0.75	0.974	-0.23	-15.00	0.208	-13.64	-38.50	0.093	-20.63	-62.00	0.091	-20.82	-85.50	0.029	-30.75
-1.00	0.986	-0.12	-15.50	0.175	-15.14	-39.00	0.089	-21.01	-62.50	0.093	-20.63	-86.00	0.026	-31.70
-1.25	0.994	-0.05	-16.00	0.145	-16.77	-39.50	0.082	-21.72	-63.00	0.093	-20.63	-86.50	0.023	-32.77
-1.50	0.999	-0.01	-16.50	0.123	-18.20	-40.00	0.073	-22.73	-63.50	0.093	-20.63	-87.00	0.020	-33.98
-1.75	1.000	0.00	-17.00	0.114	-18.86	-40.50	0.063	-24.01	-64.00	0.092	-20.72	-87.50	0.017	-35.39
-2.00	0.997	-0.03	-17.50	0.118	-18.56	-41.00	0.050	-26.02	-64.50	0.090	-20.92	-88.00	0.013	-37.72
-2.25	0.990	-0.08	-18.00	0.130	-17.72	-41.50	0.036	-28.87	-65.00	0.088	-21.11	-88.50	0.010	-40.00
-2.50	0.981	-0.17	-18.50	0.147	-16.65	-42.00	0.021	-33.56	-65.50	0.086	-21.31	-89.00	0.007	-43.10
-2.75	0.967	-0.29	-19.00	0.162	-15.81	-42.50	0.006	-44.44	-66.00	0.082	-21.72	-89.50	0.003	-50.46
-3.00	0.951	-0.44	-19.50	0.173	-15.24	-43.00	0.012	-38.42	-66.50	0.079	-22.05	-90.00	0.000	-40.00
-3.25	0.931	-0.63	-20.00	0.180	-14.89	-43.50	0.028	-31.06	-67.00	0.075	-22.50			
-3.50	0.907	-0.85	-20.50	0.182	-14.80	-44.00	0.044	-27.13	-67.50	0.072	-22.85			
-3.75	0.881	-1.11	-21.00	0.178	-14.99	-44.50	0.059	-24.58	-68.00	0.068	-23.35			
-4.00	0.852	-1.39	-21.50	0.169	-15.44	-45.00	0.073	-22.73	-68.50	0.064	-23.88			
-4.25	0.820	-1.72	-22.00	0.156	-16.14	-45.50	0.086	-21.31	-69.00	0.060	-24.44			
-4.50	0.786	-2.09	-22.50	0.138	-17.20	-46.00	0.097	-20.26	-69.50	0.057	-24.88			
-4.75	0.750	-2.49	-23.00	0.117	-18.64	-46.50	0.107	-19.41	-70.00	0.054	-25.35			
-5.00	0.713	-2.94	-23.50	0.093	-20.63	-47.00	0.115	-18.79	-70.50	0.051	-25.85			
-5.25	0.674	-3.43	-24.00	0.069	-23.22	-47.50	0.121	-18.34	-71.00	0.049	-26.20			
-5.50	0.634	-3.96	-24.50	0.047	-26.56	-48.00	0.125	-18.06	-71.50	0.048	-26.38			
-5.75	0.593	-4.54	-25.00	0.033	-29.63	-48.50	0.127	-17.92	-72.00	0.046	-26.74			
-6.00	0.552	-5.16	-25.50	0.037	-28.64	-49.00	0.127	-17.92	-72.50	0.046	-26.74			
-6.25	0.512	-5.81	-26.00	0.054	-25.35	-49.50	0.125	-18.06	-73.00	0.046	-26.74			
-6.50	0.472	-6.52	-26.50	0.072	-22.85	-50.00	0.122	-18.27	-73.50	0.046	-26.74			

Preliminary, subject to final design and review.