

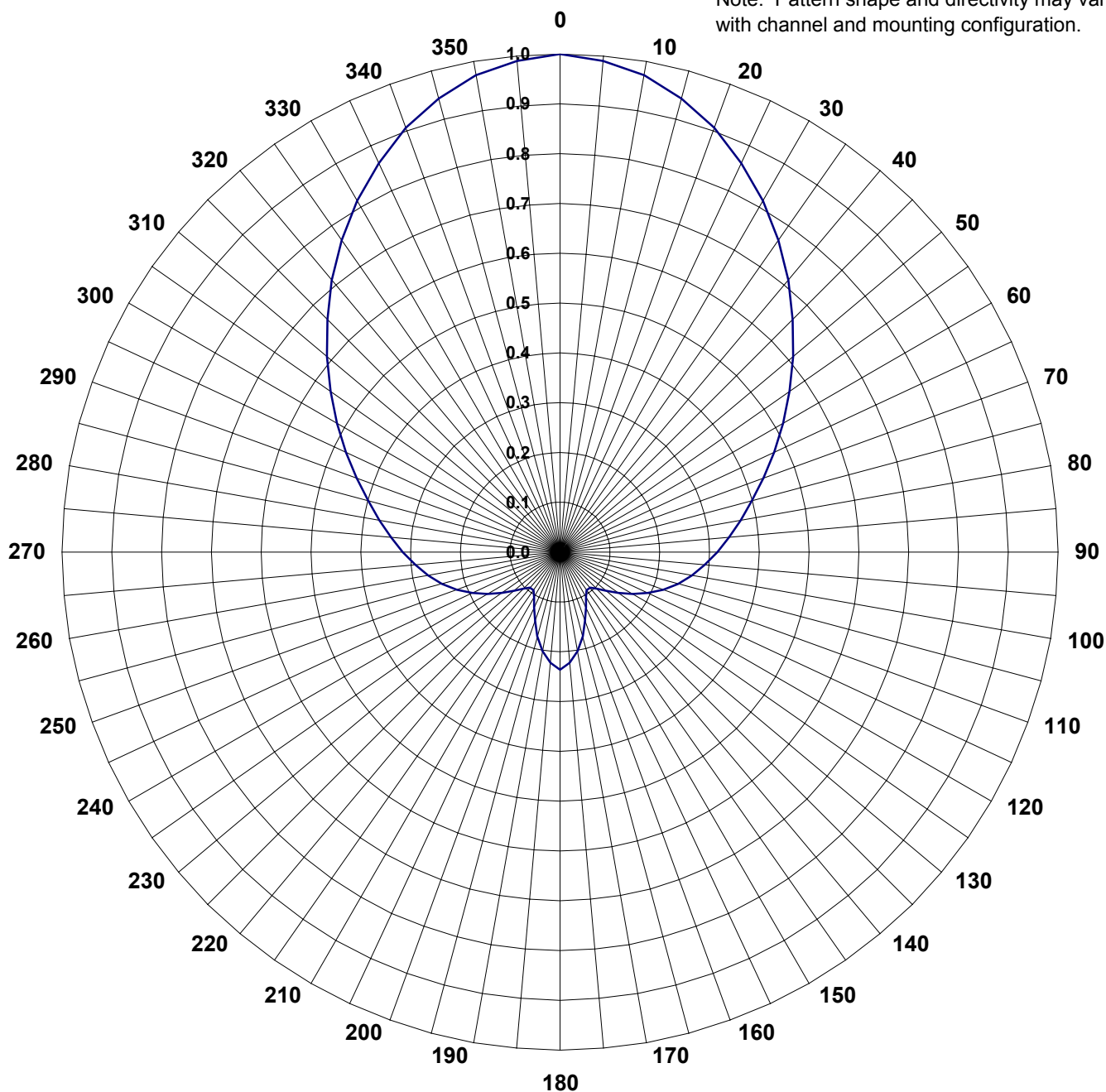


Antenna Patterns for Mount San Miguel site.

AZIMUTH PATTERN

TYPE:	AL-N	
	Numeric	dB
Directivity:	3.77	(5.76)
Peak(s) at:		
Polarization:	Horizontal and Vertical	
Channel:	53	
Location:	San Diego, CA	

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

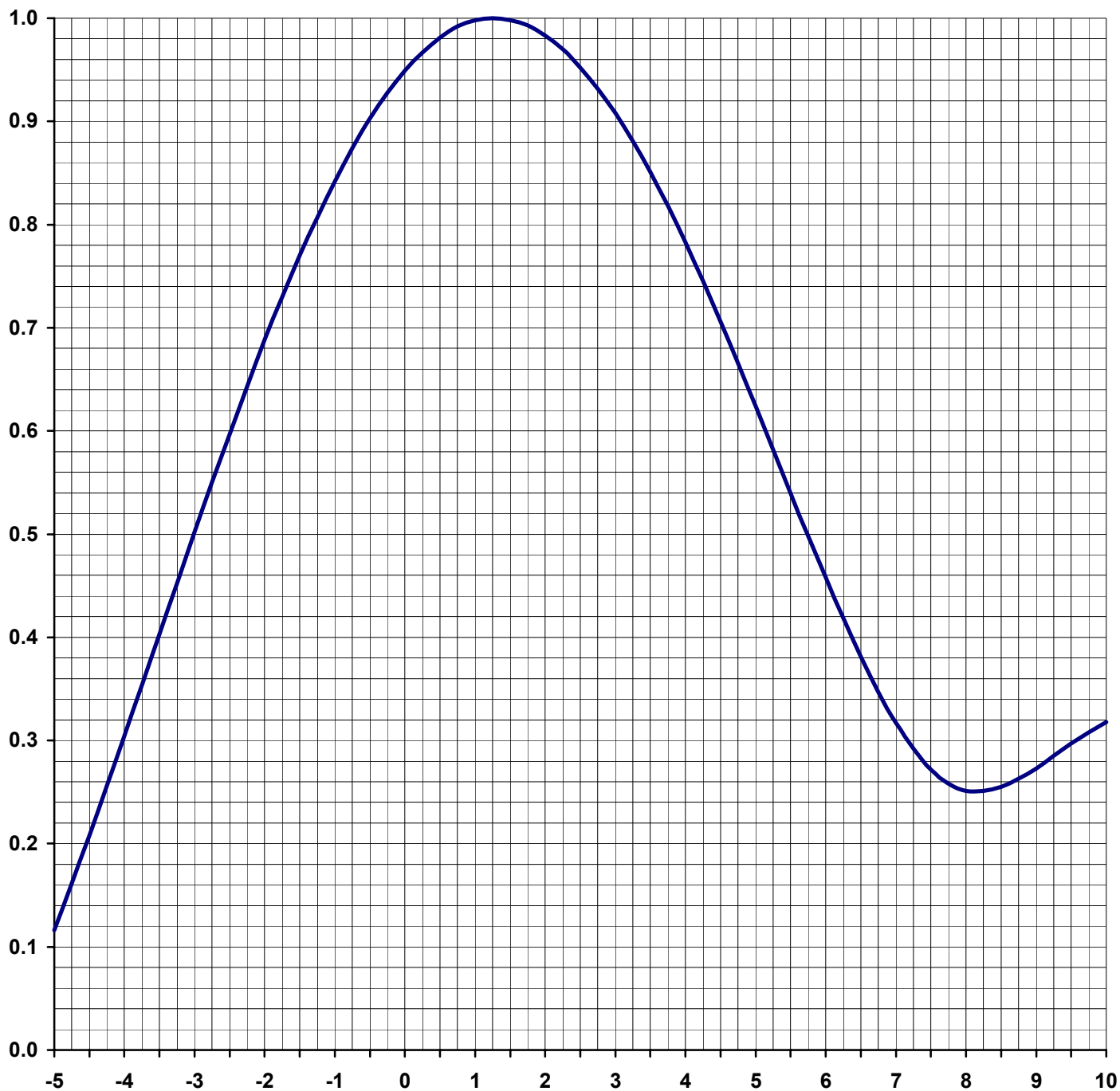


TABULATED DATA FOR AZIMUTH PATTERN**TYPE: AL-N**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.306	-10.29	184	0.226	-12.92	276	0.346	-9.22
2	0.997	-0.03	94	0.297	-10.54	186	0.220	-13.15	278	0.357	-8.95
4	0.993	-0.06	96	0.287	-10.84	188	0.212	-13.47	280	0.368	-8.68
6	0.988	-0.10	98	0.279	-11.09	190	0.202	-13.89	282	0.380	-8.40
8	0.981	-0.17	100	0.269	-11.40	192	0.192	-14.33	284	0.393	-8.11
10	0.972	-0.25	102	0.260	-11.70	194	0.181	-14.85	286	0.406	-7.83
12	0.962	-0.34	104	0.250	-12.04	196	0.169	-15.44	288	0.421	-7.51
14	0.950	-0.45	106	0.241	-12.36	198	0.159	-15.97	290	0.435	-7.23
16	0.936	-0.57	108	0.231	-12.73	200	0.147	-16.65	292	0.450	-6.94
18	0.922	-0.71	110	0.221	-13.11	202	0.137	-17.27	294	0.466	-6.63
20	0.906	-0.86	112	0.211	-13.51	204	0.127	-17.92	296	0.483	-6.32
22	0.889	-1.02	114	0.200	-13.98	206	0.118	-18.56	298	0.499	-6.04
24	0.872	-1.19	116	0.189	-14.47	208	0.110	-19.17	300	0.517	-5.73
26	0.853	-1.38	118	0.179	-14.94	210	0.104	-19.66	302	0.535	-5.43
28	0.834	-1.58	120	0.168	-15.49	212	0.099	-20.09	304	0.553	-5.15
30	0.815	-1.78	122	0.158	-16.03	214	0.095	-20.45	306	0.571	-4.87
32	0.795	-1.99	124	0.148	-16.59	216	0.093	-20.63	308	0.591	-4.57
34	0.775	-2.21	126	0.138	-17.20	218	0.093	-20.63	310	0.611	-4.28
36	0.754	-2.45	128	0.129	-17.79	220	0.094	-20.54	312	0.631	-4.00
38	0.734	-2.69	130	0.120	-18.42	222	0.096	-20.35	314	0.651	-3.73
40	0.713	-2.94	132	0.113	-18.94	224	0.101	-19.91	316	0.671	-3.47
42	0.692	-3.20	134	0.106	-19.49	226	0.106	-19.49	318	0.692	-3.20
44	0.671	-3.47	136	0.101	-19.91	228	0.113	-18.94	320	0.713	-2.94
46	0.651	-3.73	138	0.096	-20.35	230	0.120	-18.42	322	0.734	-2.69
48	0.631	-4.00	140	0.094	-20.54	232	0.129	-17.79	324	0.754	-2.45
50	0.611	-4.28	142	0.093	-20.63	234	0.138	-17.20	326	0.775	-2.21
52	0.591	-4.57	144	0.093	-20.63	236	0.148	-16.59	328	0.795	-1.99
54	0.571	-4.87	146	0.095	-20.45	238	0.158	-16.03	330	0.815	-1.78
56	0.553	-5.15	148	0.099	-20.09	240	0.168	-15.49	332	0.834	-1.58
58	0.535	-5.43	150	0.104	-19.66	242	0.179	-14.94	334	0.853	-1.38
60	0.517	-5.73	152	0.110	-19.17	244	0.189	-14.47	336	0.872	-1.19
62	0.499	-6.04	154	0.118	-18.56	246	0.200	-13.98	338	0.889	-1.02
64	0.483	-6.32	156	0.127	-17.92	248	0.211	-13.51	340	0.906	-0.86
66	0.466	-6.63	158	0.137	-17.27	250	0.221	-13.11	342	0.922	-0.71
68	0.450	-6.94	160	0.147	-16.65	252	0.231	-12.73	344	0.936	-0.57
70	0.435	-7.23	162	0.159	-15.97	254	0.241	-12.36	346	0.950	-0.45
72	0.421	-7.51	164	0.169	-15.44	256	0.250	-12.04	348	0.962	-0.34
74	0.406	-7.83	166	0.181	-14.85	258	0.260	-11.70	350	0.972	-0.25
76	0.393	-8.11	168	0.192	-14.33	260	0.269	-11.40	352	0.981	-0.17
78	0.380	-8.40	170	0.202	-13.89	262	0.279	-11.09	354	0.988	-0.10
80	0.368	-8.68	172	0.212	-13.47	264	0.287	-10.84	356	0.993	-0.06
82	0.357	-8.95	174	0.220	-13.15	266	0.297	-10.54	358	0.997	-0.03
84	0.346	-9.22	176	0.226	-12.92	268	0.306	-10.29	360	1.000	0.00
86	0.335	-9.50	178	0.232	-12.69	270	0.316	-10.01			
88	0.325	-9.76	180	0.236	-12.54	272	0.325	-9.76			
90	0.316	-10.01	182	0.232	-12.69	274	0.335	-9.50			

ELEVATION PATTERN

TYPE:	AL8PM5	
Directivity:	Numeric	dBd
Main Lobe:	8.50	(9.29)
Horizontal:	7.66	(8.84)
Beam Tilt:	1.25 Degrees	
Polarization:	Horizontal and Vertical	
Channel:	53	
Location:	San Diego, CA	



TABULATED DATA FOR ELEVATION PATTERN**TYPE: AL8PM5****-5 to 10 degrees in 0.25 increments****10 to 90 degrees in 0.50 increments**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.00	0.116	-18.71	6.75	0.347	-9.19	27.00	0.133	-17.52	50.50	0.060	-24.44	74.00	0.075	-22.50
-4.75	0.161	-15.86	7.00	0.317	-9.98	27.50	0.138	-17.20	51.00	0.046	-26.74	74.50	0.078	-22.16
-4.50	0.208	-13.64	7.25	0.292	-10.69	28.00	0.138	-17.20	51.50	0.032	-29.90	75.00	0.080	-21.94
-4.25	0.256	-11.84	7.50	0.272	-11.31	28.50	0.135	-17.39	52.00	0.018	-34.89	75.50	0.082	-21.72
-4.00	0.304	-10.34	7.75	0.258	-11.77	29.00	0.127	-17.92	52.50	0.008	-41.94	76.00	0.083	-21.62
-3.75	0.354	-9.02	8.00	0.251	-12.01	29.50	0.116	-18.71	53.00	0.015	-36.48	76.50	0.084	-21.51
-3.50	0.403	-7.89	8.25	0.251	-12.01	30.00	0.102	-19.83	53.50	0.029	-30.75	77.00	0.085	-21.41
-3.25	0.453	-6.88	8.50	0.255	-11.87	30.50	0.085	-21.41	54.00	0.043	-27.33	77.50	0.085	-21.41
-3.00	0.502	-5.99	8.75	0.263	-11.60	31.00	0.068	-23.35	54.50	0.056	-25.04	78.00	0.084	-21.51
-2.75	0.550	-5.19	9.00	0.273	-11.28	31.50	0.051	-25.85	55.00	0.069	-23.22	78.50	0.084	-21.51
-2.50	0.597	-4.48	9.25	0.285	-10.90	32.00	0.039	-28.18	55.50	0.080	-21.94	79.00	0.083	-21.62
-2.25	0.643	-3.84	9.50	0.297	-10.54	32.50	0.037	-28.64	56.00	0.091	-20.82	79.50	0.081	-21.83
-2.00	0.688	-3.25	9.75	0.308	-10.23	33.00	0.046	-26.74	56.50	0.100	-20.00	80.00	0.079	-22.05
-1.75	0.730	-2.73	10.00	0.318	-9.95	33.50	0.060	-24.44	57.00	0.108	-19.33	80.50	0.077	-22.27
-1.50	0.770	-2.27	10.50	0.334	-9.53	34.00	0.075	-22.50	57.50	0.115	-18.79	81.00	0.075	-22.50
-1.25	0.807	-1.86	11.00	0.341	-9.34	34.50	0.089	-21.01	58.00	0.120	-18.42	81.50	0.072	-22.85
-1.00	0.842	-1.49	11.50	0.340	-9.37	35.00	0.101	-19.91	58.50	0.124	-18.13	82.00	0.069	-23.22
-0.75	0.874	-1.17	12.00	0.329	-9.66	35.50	0.110	-19.17	59.00	0.126	-17.99	82.50	0.066	-23.61
-0.50	0.903	-0.89	12.50	0.310	-10.17	36.00	0.115	-18.79	59.50	0.128	-17.86	83.00	0.062	-24.15
-0.25	0.928	-0.65	13.00	0.283	-10.96	36.50	0.118	-18.56	60.00	0.128	-17.86	83.50	0.059	-24.58
0.00	0.949	-0.45	13.50	0.251	-12.01	37.00	0.118	-18.56	60.50	0.126	-17.99	84.00	0.055	-25.19
0.25	0.967	-0.29	14.00	0.216	-13.31	37.50	0.114	-18.86	61.00	0.124	-18.13	84.50	0.051	-25.85
0.50	0.981	-0.17	14.50	0.180	-14.89	38.00	0.108	-19.33	61.50	0.121	-18.34	85.00	0.047	-26.56
0.75	0.992	-0.07	15.00	0.146	-16.71	38.50	0.099	-20.09	62.00	0.116	-18.71	85.50	0.043	-27.33
1.00	0.998	-0.02	15.50	0.121	-18.34	39.00	0.087	-21.21	62.50	0.111	-19.09	86.00	0.038	-28.40
1.25	1.000	0.00	16.00	0.110	-19.17	39.50	0.074	-22.62	63.00	0.105	-19.58	86.50	0.034	-29.37
1.50	0.998	-0.02	16.50	0.115	-18.79	40.00	0.060	-24.44	63.50	0.099	-20.09	87.00	0.029	-30.75
1.75	0.993	-0.06	17.00	0.131	-17.65	40.50	0.045	-26.94	64.00	0.092	-20.72	87.50	0.024	-32.40
2.00	0.983	-0.15	17.50	0.150	-16.48	41.00	0.032	-29.90	64.50	0.084	-21.51	88.00	0.019	-34.42
2.25	0.970	-0.26	18.00	0.169	-15.44	41.50	0.026	-31.70	65.00	0.077	-22.27	88.50	0.015	-36.48
2.50	0.952	-0.43	18.50	0.183	-14.75	42.00	0.031	-30.17	65.50	0.069	-23.22	89.00	0.010	-40.00
2.75	0.932	-0.61	19.00	0.192	-14.33	42.50	0.042	-27.54	66.00	0.062	-24.15	89.50	0.005	-46.02
3.00	0.908	-0.84	19.50	0.195	-14.20	43.00	0.056	-25.04	66.50	0.055	-25.19	90.00	0.000	-99.99
3.25	0.881	-1.10	20.00	0.192	-14.33	43.50	0.070	-23.10	67.00	0.049	-26.20			
3.50	0.851	-1.40	20.50	0.183	-14.75	44.00	0.082	-21.72	67.50	0.044	-27.13			
3.75	0.818	-1.74	21.00	0.169	-15.44	44.50	0.093	-20.63	68.00	0.040	-27.96			
4.00	0.783	-2.12	21.50	0.151	-16.42	45.00	0.102	-19.83	68.50	0.039	-28.18			
4.25	0.745	-2.56	22.00	0.129	-17.79	45.50	0.109	-19.25	69.00	0.039	-28.18			
4.50	0.706	-3.02	22.50	0.107	-19.41	46.00	0.113	-18.94	69.50	0.040	-27.96			
4.75	0.666	-3.53	23.00	0.085	-21.41	46.50	0.116	-18.71	70.00	0.043	-27.33			
5.00	0.624	-4.10	23.50	0.067	-23.48	47.00	0.116	-18.71	70.50	0.047	-26.56			
5.25	0.582	-4.70	24.00	0.060	-24.44	47.50	0.113	-18.94	71.00	0.051	-25.85			
5.50	0.540	-5.35	24.50	0.066	-23.61	48.00	0.109	-19.25	71.50	0.056	-25.04			
5.75	0.498	-6.06	25.00	0.079	-22.05	48.50	0.102	-19.83	72.00	0.060	-24.44			
6.00	0.458	-6.78	25.50	0.096	-20.35	49.00	0.094	-20.54	72.50	0.064	-23.88			
6.25	0.418	-7.58	26.00	0.111	-19.09	49.50	0.084	-21.51	73.00	0.068	-23.35			
6.50	0.381	-8.38	26.50	0.124	-18.13	50.00	0.072	-22.85	73.50	0.072	-22.85			