



Two CL-FM Log-periodics

Oriented one each at 55 and 235 degrees

Maximum array gain: 3.7 dBd (x 2.34)

Vertical polarization

Horizontal plane pattern



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Horizontal plane pattern

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Vertical polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	0.483	-6.32	-2.62	0.55	45	0.981	-0.17	3.53	2.25
1	0.498	-6.06	-2.36	0.58	46	0.983	-0.15	3.55	2.27
2	0.513	-5.80	-2.10	0.62	47	0.986	-0.12	3.58	2.28
3	0.527	-5.56	-1.86	0.65	48	0.988	-0.10	3.60	2.29
4	0.542	-5.32	-1.62	0.69	49	0.991	-0.08	3.62	2.30
5	0.557	-5.09	-1.39	0.73	50	0.994	-0.05	3.65	2.31
6	0.571	-4.86	-1.16	0.77	51	0.995	-0.04	3.66	2.32
7	0.585	-4.65	-0.95	0.80	52	0.996	-0.03	3.67	2.33
8	0.600	-4.44	-0.74	0.84	53	0.998	-0.02	3.68	2.33
9	0.614	-4.24	-0.54	0.88	54	0.999	-0.01	3.69	2.34
10	0.629	-4.03	-0.33	0.93	55	1.000	0.00	3.70	2.34
11	0.643	-3.84	-0.14	0.97	56	0.999	-0.01	3.69	2.34
12	0.657	-3.65	0.05	1.01	57	0.998	-0.02	3.68	2.33
13	0.671	-3.47	0.23	1.06	58	0.996	-0.03	3.67	2.33
14	0.685	-3.29	0.41	1.10	59	0.995	-0.04	3.66	2.32
15	0.699	-3.11	0.59	1.15	60	0.994	-0.05	3.65	2.31
16	0.712	-2.95	0.75	1.19	61	0.991	-0.08	3.62	2.30
17	0.724	-2.80	0.90	1.23	62	0.988	-0.10	3.60	2.29
18	0.737	-2.65	1.05	1.27	63	0.986	-0.12	3.58	2.28
19	0.750	-2.50	1.20	1.32	64	0.983	-0.15	3.55	2.27
20	0.763	-2.35	1.35	1.36	65	0.981	-0.17	3.53	2.25
21	0.774	-2.22	1.48	1.41	66	0.975	-0.22	3.48	2.23
22	0.787	-2.08	1.62	1.45	67	0.970	-0.27	3.43	2.21
23	0.799	-1.95	1.75	1.49	68	0.965	-0.31	3.39	2.18
24	0.811	-1.82	1.88	1.54	69	0.959	-0.36	3.34	2.16
25	0.823	-1.69	2.01	1.59	70	0.954	-0.41	3.29	2.13
26	0.833	-1.58	2.12	1.63	71	0.947	-0.47	3.23	2.10
27	0.844	-1.47	2.23	1.67	72	0.940	-0.54	3.16	2.07
28	0.855	-1.36	2.34	1.71	73	0.933	-0.60	3.10	2.04
29	0.866	-1.25	2.45	1.76	74	0.926	-0.67	3.03	2.01
30	0.876	-1.15	2.55	1.80	75	0.919	-0.73	2.97	1.98
31	0.885	-1.06	2.64	1.84	76	0.910	-0.82	2.88	1.94
32	0.893	-0.98	2.72	1.87	77	0.902	-0.90	2.80	1.91
33	0.902	-0.90	2.80	1.91	78	0.893	-0.98	2.72	1.87
34	0.910	-0.82	2.88	1.94	79	0.885	-1.06	2.64	1.84
35	0.919	-0.73	2.97	1.98	80	0.876	-1.15	2.55	1.80
36	0.926	-0.67	3.03	2.01	81	0.866	-1.25	2.45	1.76
37	0.933	-0.60	3.10	2.04	82	0.855	-1.36	2.34	1.71
38	0.940	-0.54	3.16	2.07	83	0.844	-1.47	2.23	1.67
39	0.947	-0.47	3.23	2.10	84	0.833	-1.58	2.12	1.63
40	0.954	-0.41	3.29	2.13	85	0.823	-1.69	2.01	1.59
41	0.959	-0.36	3.34	2.16	86	0.811	-1.82	1.88	1.54
42	0.965	-0.31	3.39	2.18	87	0.799	-1.95	1.75	1.49
43	0.970	-0.27	3.43	2.21	88	0.787	-2.08	1.62	1.45
44	0.975	-0.22	3.48	2.23	89	0.774	-2.22	1.48	1.41



Two CL-FM Log-periodics

Horizontal plane pattern

Oriented one each at 55 and 235 degrees

Maximum array gain: 3.7 dBd (x 2.34)

Vertical polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.763	-2.35	1.35	1.36	135	0.078	-22.19	-18.49	0.01
91	0.750	-2.50	1.20	1.32	136	0.074	-22.64	-18.94	0.01
92	0.737	-2.65	1.05	1.27	137	0.070	-23.11	-19.41	0.01
93	0.724	-2.80	0.90	1.23	138	0.066	-23.61	-19.91	0.01
94	0.712	-2.95	0.75	1.19	139	0.062	-24.13	-20.43	0.01
95	0.699	-3.11	0.59	1.15	140	0.058	-24.69	-20.99	0.01
96	0.685	-3.29	0.41	1.10	141	0.058	-24.69	-20.99	0.01
97	0.671	-3.47	0.23	1.06	142	0.058	-24.69	-20.99	0.01
98	0.657	-3.65	0.05	1.01	143	0.058	-24.69	-20.99	0.01
99	0.643	-3.84	-0.14	0.97	144	0.058	-24.69	-20.99	0.01
100	0.629	-4.03	-0.33	0.93	145	0.058	-24.69	-20.99	0.01
101	0.614	-4.24	-0.54	0.88	146	0.058	-24.69	-20.99	0.01
102	0.600	-4.44	-0.74	0.84	147	0.058	-24.69	-20.99	0.01
103	0.585	-4.65	-0.95	0.80	148	0.058	-24.69	-20.99	0.01
104	0.571	-4.86	-1.16	0.77	149	0.058	-24.69	-20.99	0.01
105	0.557	-5.09	-1.39	0.73	150	0.058	-24.69	-20.99	0.01
106	0.542	-5.32	-1.62	0.69	151	0.062	-24.13	-20.43	0.01
107	0.527	-5.56	-1.86	0.65	152	0.066	-23.61	-19.91	0.01
108	0.513	-5.80	-2.10	0.62	153	0.070	-23.11	-19.41	0.01
109	0.498	-6.06	-2.36	0.58	154	0.074	-22.64	-18.94	0.01
110	0.483	-6.32	-2.62	0.55	155	0.078	-22.19	-18.49	0.01
111	0.468	-6.60	-2.90	0.51	156	0.089	-20.98	-17.28	0.02
112	0.453	-6.88	-3.18	0.48	157	0.101	-19.92	-16.22	0.02
113	0.438	-7.17	-3.47	0.45	158	0.113	-18.97	-15.27	0.03
114	0.423	-7.48	-3.78	0.42	159	0.124	-18.11	-14.41	0.04
115	0.408	-7.79	-4.09	0.39	160	0.136	-17.33	-13.63	0.04
116	0.390	-8.17	-4.47	0.36	161	0.151	-16.39	-12.69	0.05
117	0.373	-8.57	-4.87	0.33	162	0.167	-15.55	-11.85	0.07
118	0.355	-8.99	-5.29	0.30	163	0.183	-14.77	-11.07	0.08
119	0.338	-9.43	-5.73	0.27	164	0.198	-14.06	-10.36	0.09
120	0.320	-9.89	-6.19	0.24	165	0.214	-13.41	-9.71	0.11
121	0.299	-10.49	-6.79	0.21	166	0.235	-12.58	-8.88	0.13
122	0.278	-11.13	-7.43	0.18	167	0.256	-11.82	-8.12	0.15
123	0.256	-11.82	-8.12	0.15	168	0.278	-11.13	-7.43	0.18
124	0.235	-12.58	-8.88	0.13	169	0.299	-10.49	-6.79	0.21
125	0.214	-13.41	-9.71	0.11	170	0.320	-9.89	-6.19	0.24
126	0.198	-14.06	-10.36	0.09	171	0.338	-9.43	-5.73	0.27
127	0.183	-14.77	-11.07	0.08	172	0.355	-8.99	-5.29	0.30
128	0.167	-15.55	-11.85	0.07	173	0.373	-8.57	-4.87	0.33
129	0.151	-16.39	-12.69	0.05	174	0.390	-8.17	-4.47	0.36
130	0.136	-17.33	-13.63	0.04	175	0.408	-7.79	-4.09	0.39
131	0.124	-18.11	-14.41	0.04	176	0.423	-7.48	-3.78	0.42
132	0.113	-18.97	-15.27	0.03	177	0.438	-7.17	-3.47	0.45
133	0.101	-19.92	-16.22	0.02	178	0.453	-6.88	-3.18	0.48
134	0.089	-20.98	-17.28	0.02	179	0.468	-6.60	-2.90	0.51



Two CL-FM Log-periodics

Horizontal plane pattern

Oriented one each at 55 and 235 degrees

Maximum array gain: 3.7 dBd (x 2.34)

Vertical polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
180	0.483	-6.32	-2.62	0.55	225	0.981	-0.17	3.53	2.25
181	0.498	-6.06	-2.36	0.58	226	0.983	-0.15	3.55	2.27
182	0.513	-5.80	-2.10	0.62	227	0.986	-0.12	3.58	2.28
183	0.527	-5.56	-1.86	0.65	228	0.988	-0.10	3.60	2.29
184	0.542	-5.32	-1.62	0.69	229	0.991	-0.08	3.62	2.30
185	0.557	-5.09	-1.39	0.73	230	0.994	-0.05	3.65	2.31
186	0.571	-4.86	-1.16	0.77	231	0.995	-0.04	3.66	2.32
187	0.585	-4.65	-0.95	0.80	232	0.996	-0.03	3.67	2.33
188	0.600	-4.44	-0.74	0.84	233	0.998	-0.02	3.68	2.33
189	0.614	-4.24	-0.54	0.88	234	0.999	-0.01	3.69	2.34
190	0.629	-4.03	-0.33	0.93	235	1.000	0.00	3.70	2.34
191	0.643	-3.84	-0.14	0.97	236	0.999	-0.01	3.69	2.34
192	0.657	-3.65	0.05	1.01	237	0.998	-0.02	3.68	2.33
193	0.671	-3.47	0.23	1.06	238	0.996	-0.03	3.67	2.33
194	0.685	-3.29	0.41	1.10	239	0.995	-0.04	3.66	2.32
195	0.699	-3.11	0.59	1.15	240	0.994	-0.05	3.65	2.31
196	0.712	-2.95	0.75	1.19	241	0.991	-0.08	3.62	2.30
197	0.724	-2.80	0.90	1.23	242	0.988	-0.10	3.60	2.29
198	0.737	-2.65	1.05	1.27	243	0.986	-0.12	3.58	2.28
199	0.750	-2.50	1.20	1.32	244	0.983	-0.15	3.55	2.27
200	0.763	-2.35	1.35	1.36	245	0.981	-0.17	3.53	2.25
201	0.774	-2.22	1.48	1.41	246	0.975	-0.22	3.48	2.23
202	0.787	-2.08	1.62	1.45	247	0.970	-0.27	3.43	2.21
203	0.799	-1.95	1.75	1.49	248	0.965	-0.31	3.39	2.18
204	0.811	-1.82	1.88	1.54	249	0.959	-0.36	3.34	2.16
205	0.823	-1.69	2.01	1.59	250	0.954	-0.41	3.29	2.13
206	0.833	-1.58	2.12	1.63	251	0.947	-0.47	3.23	2.10
207	0.844	-1.47	2.23	1.67	252	0.940	-0.54	3.16	2.07
208	0.855	-1.36	2.34	1.71	253	0.933	-0.60	3.10	2.04
209	0.866	-1.25	2.45	1.76	254	0.926	-0.67	3.03	2.01
210	0.876	-1.15	2.55	1.80	255	0.919	-0.73	2.97	1.98
211	0.885	-1.06	2.64	1.84	256	0.910	-0.82	2.88	1.94
212	0.893	-0.98	2.72	1.87	257	0.902	-0.90	2.80	1.91
213	0.902	-0.90	2.80	1.91	258	0.893	-0.98	2.72	1.87
214	0.910	-0.82	2.88	1.94	259	0.885	-1.06	2.64	1.84
215	0.919	-0.73	2.97	1.98	260	0.876	-1.15	2.55	1.80
216	0.926	-0.67	3.03	2.01	261	0.866	-1.25	2.45	1.76
217	0.933	-0.60	3.10	2.04	262	0.855	-1.36	2.34	1.71
218	0.940	-0.54	3.16	2.07	263	0.844	-1.47	2.23	1.67
219	0.947	-0.47	3.23	2.10	264	0.833	-1.58	2.12	1.63
220	0.954	-0.41	3.29	2.13	265	0.823	-1.69	2.01	1.59
221	0.959	-0.36	3.34	2.16	266	0.811	-1.82	1.88	1.54
222	0.965	-0.31	3.39	2.18	267	0.799	-1.95	1.75	1.49
223	0.970	-0.27	3.43	2.21	268	0.787	-2.08	1.62	1.45
224	0.975	-0.22	3.48	2.23	269	0.774	-2.22	1.48	1.41



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Horizontal plane pattern

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Maximum array gain: 3.7 dBd (x 2.34)

Vertical polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.763	-2.35	1.35	1.36	315	0.078	-22.19	-18.49	0.01
271	0.750	-2.50	1.20	1.32	316	0.074	-22.64	-18.94	0.01
272	0.737	-2.65	1.05	1.27	317	0.070	-23.11	-19.41	0.01
273	0.724	-2.80	0.90	1.23	318	0.066	-23.61	-19.91	0.01
274	0.712	-2.95	0.75	1.19	319	0.062	-24.13	-20.43	0.01
275	0.699	-3.11	0.59	1.15	320	0.058	-24.69	-20.99	0.01
276	0.685	-3.29	0.41	1.10	321	0.058	-24.69	-20.99	0.01
277	0.671	-3.47	0.23	1.06	322	0.058	-24.69	-20.99	0.01
278	0.657	-3.65	0.05	1.01	323	0.058	-24.69	-20.99	0.01
279	0.643	-3.84	-0.14	0.97	324	0.058	-24.69	-20.99	0.01
280	0.629	-4.03	-0.33	0.93	325	0.058	-24.69	-20.99	0.01
281	0.614	-4.24	-0.54	0.88	326	0.058	-24.69	-20.99	0.01
282	0.600	-4.44	-0.74	0.84	327	0.058	-24.69	-20.99	0.01
283	0.585	-4.65	-0.95	0.80	328	0.058	-24.69	-20.99	0.01
284	0.571	-4.86	-1.16	0.77	329	0.058	-24.69	-20.99	0.01
285	0.557	-5.09	-1.39	0.73	330	0.058	-24.69	-20.99	0.01
286	0.542	-5.32	-1.62	0.69	331	0.062	-24.13	-20.43	0.01
287	0.527	-5.56	-1.86	0.65	332	0.066	-23.61	-19.91	0.01
288	0.513	-5.80	-2.10	0.62	333	0.070	-23.11	-19.41	0.01
289	0.498	-6.06	-2.36	0.58	334	0.074	-22.64	-18.94	0.01
290	0.483	-6.32	-2.62	0.55	335	0.078	-22.19	-18.49	0.01
291	0.468	-6.60	-2.90	0.51	336	0.089	-20.98	-17.28	0.02
292	0.453	-6.88	-3.18	0.48	337	0.101	-19.92	-16.22	0.02
293	0.438	-7.17	-3.47	0.45	338	0.113	-18.97	-15.27	0.03
294	0.423	-7.48	-3.78	0.42	339	0.124	-18.11	-14.41	0.04
295	0.408	-7.79	-4.09	0.39	340	0.136	-17.33	-13.63	0.04
296	0.390	-8.17	-4.47	0.36	341	0.151	-16.39	-12.69	0.05
297	0.373	-8.57	-4.87	0.33	342	0.167	-15.55	-11.85	0.07
298	0.355	-8.99	-5.29	0.30	343	0.183	-14.77	-11.07	0.08
299	0.338	-9.43	-5.73	0.27	344	0.198	-14.06	-10.36	0.09
300	0.320	-9.89	-6.19	0.24	345	0.214	-13.41	-9.71	0.11
301	0.299	-10.49	-6.79	0.21	346	0.235	-12.58	-8.88	0.13
302	0.278	-11.13	-7.43	0.18	347	0.256	-11.82	-8.12	0.15
303	0.256	-11.82	-8.12	0.15	348	0.278	-11.13	-7.43	0.18
304	0.235	-12.58	-8.88	0.13	349	0.299	-10.49	-6.79	0.21
305	0.214	-13.41	-9.71	0.11	350	0.320	-9.89	-6.19	0.24
306	0.198	-14.06	-10.36	0.09	351	0.338	-9.43	-5.73	0.27
307	0.183	-14.77	-11.07	0.08	352	0.355	-8.99	-5.29	0.30
308	0.167	-15.55	-11.85	0.07	353	0.373	-8.57	-4.87	0.33
309	0.151	-16.39	-12.69	0.05	354	0.390	-8.17	-4.47	0.36
310	0.136	-17.33	-13.63	0.04	355	0.408	-7.79	-4.09	0.39
311	0.124	-18.11	-14.41	0.04	356	0.423	-7.48	-3.78	0.42
312	0.113	-18.97	-15.27	0.03	357	0.438	-7.17	-3.47	0.45
313	0.101	-19.92	-16.22	0.02	358	0.453	-6.88	-3.18	0.48
314	0.089	-20.98	-17.28	0.02	359	0.468	-6.60	-2.90	0.51