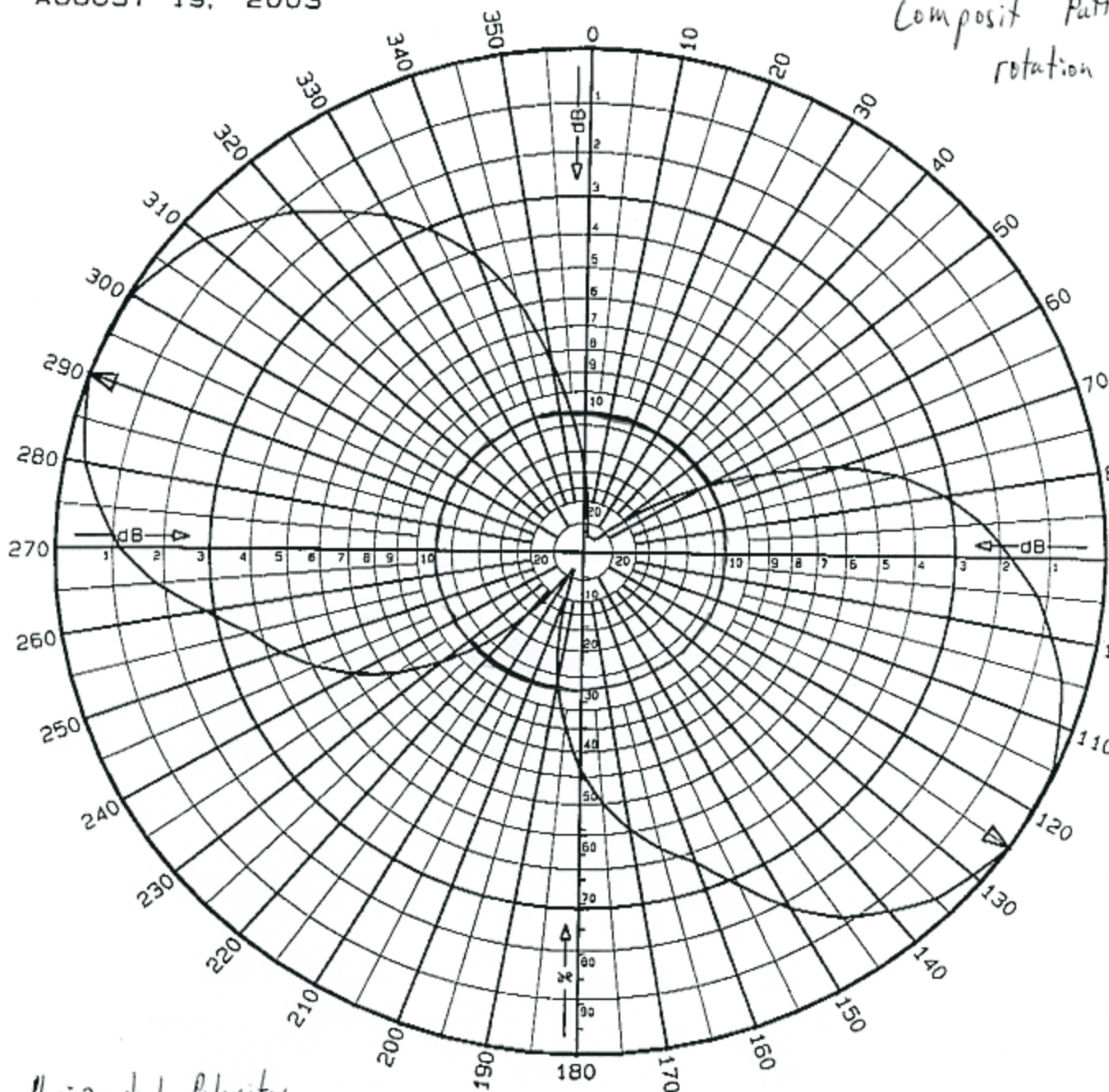


AUGUST 19, 2003

Composit Path
rotation

TWO CA-2 YAGI ANTENNAS
ORIENTED AT 125 AND 290 DEGREES
FREQUENCY: MHZ.
MAXIMUM ARRAY GAIN: 2.3 dBd.
POWER GAIN: 1.7
VERTICAL POLARIZATION
VERTICAL STACK
HORIZONTAL PLANE PATTERN

KATHREIN
SCALA DIVISION

Post Office Box 4580 Phone: (541) 779-6500
Medford, OR 97501 (USA) Fax: (541) 779-3991
<http://www.kathrein.com>

Modified for Composite H & V Pol

rotation 3°

2 X CA-2 YAGI ANTENNAS

VERTICAL POLARIZATION - HORIZONTAL PLANE PATTERN

Azimuth	Relative Field	Relative dB	dBd	Power
0	0.165 .274	-15.7	-13.4	0.0
5	0.000	-21.9	-19.6	0.0
10	0.040 .274	-27.9	-25.6	0.0
15	0.032	-29.9	-27.6	0.0
20	0.032 .274	-29.9	-27.6	0.0
25	0.032	-29.9	-27.6	0.0
30	0.032 .274	-29.9	-27.6	0.0
35	0.032	-29.9	-27.6	0.0
40	0.032 .274	-29.9	-27.6	0.0
45	0.040	-27.9	-25.6	0.0
50	0.000 .274	-21.9	-19.6	0.0
55	0.165	-15.7	-13.4	0.0
60	0.265 .274	-11.5	-9.2	0.1
65	0.378	-8.5	-6.2	0.2
70	-0.514	-5.8	-3.5	0.4
75	0.618	-4.2	-1.9	0.6
80	-0.697	-3.1	-0.8	0.8
85	0.763	-2.3	-0.0	1.0
90	-0.815	-1.8	0.5	1.1
95	0.871	-1.2	1.1	1.2
100	-0.910	-0.8	1.5	1.4
105	0.950	-0.4	1.9	1.5
110	-0.972	-0.2	2.1	1.6
115	0.996	-0.0	2.3	1.6
120	-0.996	-0.0	2.3	1.6
125	1.000	-0.0	2.3	1.6
130	-0.980	-0.2	2.1	1.6
135	0.960	-0.4	1.9	1.5
140	-0.920	-0.7	1.6	1.4
145	0.878	-1.1	1.2	1.3
150	-0.809	-1.8	0.5	1.1
155	0.723	-2.8	-0.5	0.8
160	-0.651	-3.7	-1.4	0.7
165	0.606	-4.3	-2.0	0.6
170	-0.556	-5.1	-2.8	0.5
175	0.498	-6.1	-3.8	0.4
180	-0.430	-7.3	-5.0	0.3
185	0.345	-9.2	-6.9	0.2
190	0.261 .274	-11.7	-9.4	0.1
195	0.165	-15.7	-13.4	0.0
200	0.000 .274	-21.9	-19.6	0.0
205	0.040	-27.9	-25.6	0.0
210	0.040 .274	-27.9	-25.6	0.0
215	0.000	-21.9	-19.6	0.0
220	0.165 .274	-15.7	-13.4	0.0
225	0.261 .274	-11.7	-9.4	0.1
230	-0.345	-9.2	-6.9	0.2
235	0.430	-7.3	-5.0	0.3
240	-0.498	-6.1	-3.8	0.4
245	0.556	-5.1	-2.8	0.5
250	0.430	-7.3	-5.0	0.3

Relative Field of Horizontal
antenna is 0.274 on all
azimuths

2 X CA-2 YAGI ANTENNAS
 VERTICAL POLARIZATION - HORIZONTAL PLANE PATTERN

Azimuth	Relative Field	Relative dB	dBd	Power G
255	0.651	-3.7	-1.4	0.724
260	0.723	-2.8	-0.5	0.891
265	0.809	-1.8	0.5	1.122
270	0.878	-1.1	1.2	1.316
275	0.920	-0.7	1.6	1.445
280	0.960	-0.4	1.9	1.549
285	0.980	-0.2	2.1	1.622
290	1.000	-0.0	2.3	1.698
295	0.996	-0.0	2.3	1.698
300	0.996	-0.0	2.3	1.698
305	0.972	-0.2	2.1	1.622
310	0.950	-0.4	1.9	1.549
315	0.910	-0.8	1.5	1.413
320	0.871	-1.2	1.1	1.288
325	0.815	-1.8	0.5	1.122
330	0.763	-2.3	-0.0	1.000
335	0.697	-3.1	-0.8	0.832
340	0.618	-4.2	-1.9	0.646
345	0.514	-5.8	-3.5	0.447
350	0.378	-8.5	-6.2	0.240
355	0.265 .274	-11.5	-9.2	0.120