

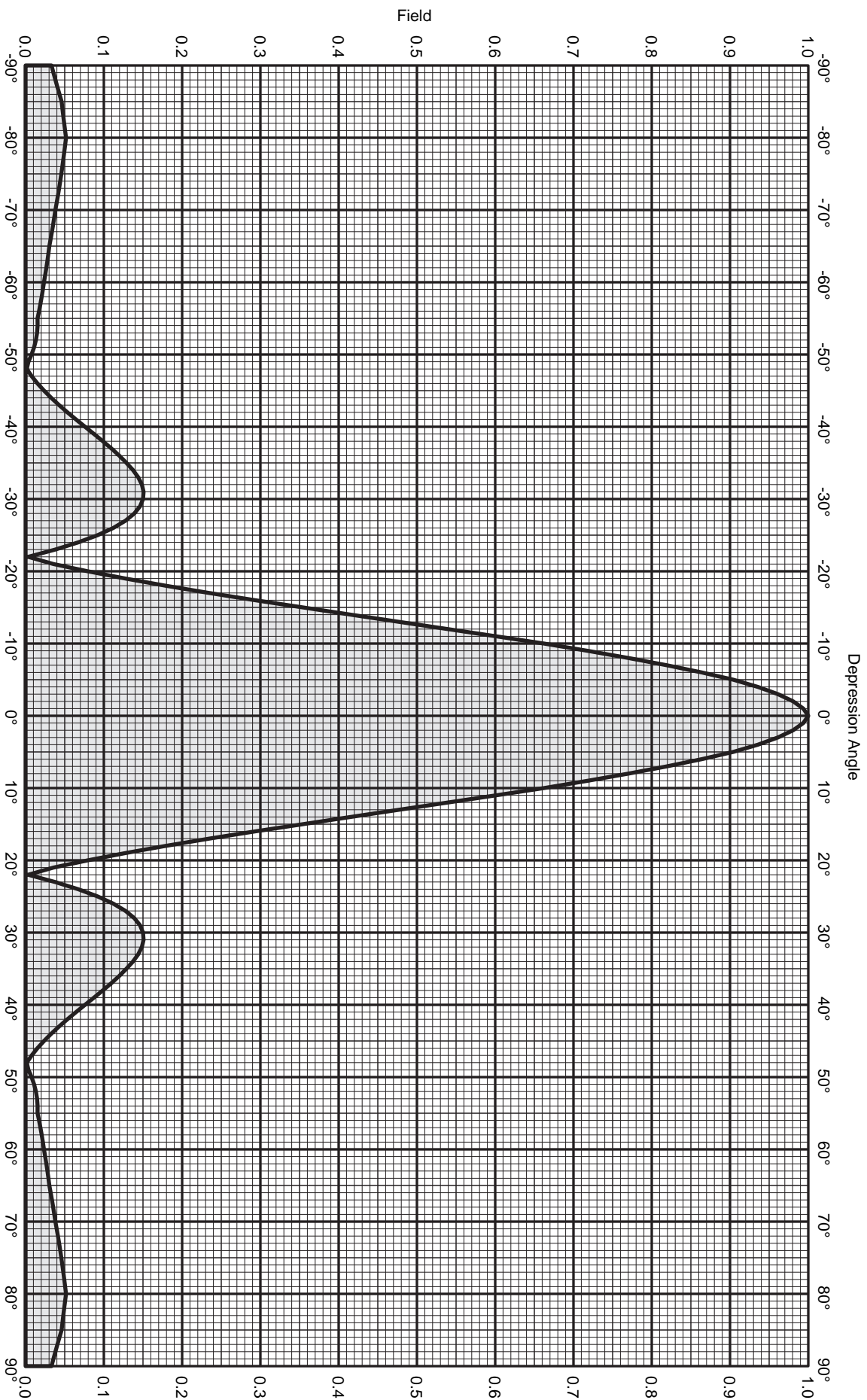
Eight pairs HDCA-10 Yagi Antennas  
 Horizontal stacked 1.0 wavelength  
 Oriented four each at 0 and 185 deg  
 Equal power splitting  
 Channel-11 KDTP-DT Gain: 15.4 dBd.  
 Horizontal Polarization  
 Vertical stacked  
 Horizontal plane Pattern



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	-0.00	15.40	34.67	180	0.958	-0.37	15.03	31.85
5	0.958	-0.37	15.03	31.85	185	1.000	0.00	15.40	34.67
10	0.825	-1.67	13.73	23.59	190	0.927	-0.66	14.74	29.81
15	0.633	-3.97	11.43	13.91	195	0.774	-2.23	13.17	20.77
20	0.413	-7.69	7.71	5.91	200	0.567	-4.93	10.47	11.15
25	0.202	-13.90	1.50	1.41	205	0.342	-9.33	6.07	4.04
30	0.033	-29.74	-14.34	0.04	210	0.134	-17.44	-2.04	0.63
35	0.080	-21.90	-6.50	0.22	215	0.025	-32.14	-16.74	0.02
40	0.133	-17.53	-2.13	0.61	220	0.121	-18.37	-2.97	0.50
45	0.127	-17.90	-2.50	0.56	225	0.149	-16.53	-1.13	0.77
50	0.104	-19.69	-4.29	0.37	230	0.125	-18.09	-2.69	0.54
55	0.080	-21.90	-6.50	0.22	235	0.088	-21.15	-5.75	0.27
60	0.040	-27.88	-12.48	0.06	240	0.050	-25.94	-10.54	0.09
65	0.016	-36.02	-20.62	0.01	245	0.024	-32.57	-17.17	0.02
70	0.016	-35.71	-20.31	0.01	250	0.016	-35.71	-20.31	0.01
75	0.017	-35.54	-20.14	0.01	255	0.017	-35.54	-20.14	0.01
80	0.017	-35.47	-20.07	0.01	260	0.017	-35.47	-20.07	0.01
85	0.017	-35.44	-20.04	0.01	265	0.017	-35.44	-20.04	0.01
90	0.017	-35.44	-20.04	0.01	270	0.017	-35.44	-20.04	0.01
95	0.017	-35.44	-20.04	0.01	275	0.017	-35.44	-20.04	0.01
100	0.017	-35.44	-20.04	0.01	280	0.017	-35.44	-20.04	0.01
105	0.017	-35.47	-20.07	0.01	285	0.017	-35.47	-20.07	0.01
110	0.017	-35.54	-20.14	0.01	290	0.017	-35.54	-20.14	0.01
115	0.016	-35.71	-20.31	0.01	295	0.016	-35.71	-20.31	0.01
120	0.016	-36.02	-20.62	0.01	300	0.024	-32.57	-17.17	0.02
125	0.040	-27.88	-12.48	0.06	305	0.050	-25.94	-10.54	0.09
130	0.080	-21.90	-6.50	0.22	310	0.088	-21.15	-5.75	0.27
135	0.104	-19.69	-4.29	0.37	315	0.125	-18.09	-2.69	0.54
140	0.127	-17.90	-2.50	0.56	320	0.149	-16.53	-1.13	0.77
145	0.133	-17.53	-2.13	0.61	325	0.121	-18.37	-2.97	0.50
150	0.080	-21.90	-6.50	0.22	330	0.025	-32.14	-16.74	0.02
155	0.033	-29.74	-14.34	0.04	335	0.134	-17.44	-2.04	0.63
160	0.202	-13.90	1.50	1.41	340	0.342	-9.33	6.07	4.04
165	0.413	-7.69	7.71	5.90	345	0.567	-4.93	10.47	11.15
170	0.633	-3.97	11.43	13.91	350	0.774	-2.23	13.17	20.77
175	0.825	-1.67	13.73	23.59	355	0.927	-0.66	14.74	29.81



**SCALA DIVISION**

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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.033	-29.60	-14.20	0.04	-45	0.024	-32.55	-17.15	0.02
-89	0.036	-28.97	-13.57	0.04	-44	0.033	-29.69	-14.29	0.04
-88	0.038	-28.38	-12.98	0.05	-43	0.043	-27.38	-11.98	0.06
-87	0.041	-27.81	-12.41	0.06	-42	0.053	-25.45	-10.05	0.10
-86	0.043	-27.26	-11.86	0.07	-41	0.065	-23.81	-8.41	0.14
-85	0.046	-26.73	-11.33	0.07	-40	0.076	-22.39	-6.99	0.20
-84	0.047	-26.54	-11.14	0.08	-39	0.087	-21.17	-5.77	0.26
-83	0.048	-26.34	-10.94	0.08	-38	0.099	-20.11	-4.71	0.34
-82	0.049	-26.14	-10.74	0.08	-37	0.110	-19.20	-3.80	0.42
-81	0.050	-25.94	-10.54	0.09	-36	0.120	-18.44	-3.04	0.50
-80	0.052	-25.74	-10.34	0.09	-35	0.129	-17.80	-2.40	0.58
-79	0.051	-25.93	-10.53	0.09	-34	0.137	-17.25	-1.85	0.65
-78	0.049	-26.13	-10.73	0.08	-33	0.144	-16.84	-1.44	0.72
-77	0.048	-26.34	-10.94	0.08	-32	0.149	-16.56	-1.16	0.77
-76	0.047	-26.57	-11.17	0.08	-31	0.151	-16.44	-1.04	0.79
-75	0.046	-26.81	-11.41	0.07	-30	0.150	-16.47	-1.07	0.78
-74	0.044	-27.07	-11.67	0.07	-29	0.146	-16.70	-1.30	0.74
-73	0.043	-27.36	-11.96	0.06	-28	0.139	-17.14	-1.74	0.67
-72	0.041	-27.67	-12.27	0.06	-27	0.128	-17.88	-2.48	0.56
-71	0.040	-28.02	-12.62	0.05	-26	0.112	-19.01	-3.61	0.44
-70	0.038	-28.39	-12.99	0.05	-25	0.092	-20.71	-5.31	0.29
-69	0.037	-28.71	-13.31	0.05	-24	0.067	-23.45	-8.05	0.16
-68	0.035	-29.06	-13.66	0.04	-23	0.038	-28.48	-13.08	0.05
-67	0.034	-29.45	-14.05	0.04	-22	0.010	-40.00	-24.60	0.00
-66	0.032	-29.88	-14.48	0.04	-21	0.036	-28.93	-13.53	0.04
-65	0.030	-30.36	-14.96	0.03	-20	0.080	-21.99	-6.59	0.22
-64	0.029	-30.70	-15.30	0.03	-19	0.127	-17.90	-2.50	0.56
-63	0.028	-31.08	-15.68	0.03	-18	0.179	-14.94	0.46	1.11
-62	0.027	-31.52	-16.12	0.02	-17	0.234	-12.60	2.80	1.91
-61	0.025	-32.02	-16.62	0.02	-16	0.293	-10.66	4.74	2.98
-60	0.023	-32.59	-17.19	0.02	-15	0.354	-9.01	6.39	4.35
-59	0.022	-33.11	-17.71	0.02	-14	0.415	-7.63	7.77	5.98
-58	0.021	-33.73	-18.33	0.01	-13	0.477	-6.43	8.97	7.90
-57	0.019	-34.45	-19.05	0.01	-12	0.540	-5.36	10.04	10.09
-56	0.017	-35.30	-19.90	0.01	-11	0.601	-4.42	10.98	12.54
-55	0.015	-36.31	-20.91	0.01	-10	0.662	-3.58	11.82	15.21
-54	0.015	-36.26	-20.86	0.01	-9	0.718	-2.88	12.52	17.86
-53	0.015	-36.65	-21.25	0.01	-8	0.770	-2.27	13.13	20.57
-52	0.013	-37.58	-22.18	0.01	-7	0.819	-1.73	13.67	23.27
-51	0.011	-39.27	-23.87	0.00	-6	0.864	-1.27	14.13	25.88
-50	0.010	-40.00	-24.60	0.00	-5	0.904	-0.88	14.52	28.34
-49	0.010	-40.00	-24.60	0.00	-4	0.936	-0.58	14.82	30.35
-48	0.010	-40.00	-24.60	0.00	-3	0.961	-0.34	15.06	32.03
-47	0.010	-40.00	-24.60	0.00	-2	0.981	-0.17	15.23	33.34
-46	0.015	-36.39	-20.99	0.01	-1	0.994	-0.06	15.34	34.23
					0	1.000	0.00	15.40	34.67



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0	1.000	0.00	15.40	34.67	45	0.024	-32.55	-17.15	0.02
1	0.994	-0.06	15.34	34.23	46	0.015	-36.39	-20.99	0.01
2	0.981	-0.17	15.23	33.34	47	0.010	-40.00	-24.60	0.00
3	0.961	-0.34	15.06	32.03	48	0.010	-40.00	-24.60	0.00
4	0.936	-0.58	14.82	30.35	49	0.010	-40.00	-24.60	0.00
5	0.904	-0.88	14.52	28.34	50	0.010	-40.00	-24.60	0.00
6	0.864	-1.27	14.13	25.88	51	0.011	-39.27	-23.87	0.00
7	0.819	-1.73	13.67	23.27	52	0.013	-37.58	-22.18	0.01
8	0.770	-2.27	13.13	20.57	53	0.015	-36.65	-21.25	0.01
9	0.718	-2.88	12.52	17.86	54	0.015	-36.26	-20.86	0.01
10	0.662	-3.58	11.82	15.21	55	0.015	-36.31	-20.91	0.01
11	0.601	-4.42	10.98	12.54	56	0.017	-35.30	-19.90	0.01
12	0.540	-5.36	10.04	10.09	57	0.019	-34.45	-19.05	0.01
13	0.477	-6.42	8.98	7.90	58	0.021	-33.73	-18.33	0.01
14	0.415	-7.63	7.77	5.98	59	0.022	-33.11	-17.71	0.02
15	0.354	-9.01	6.39	4.35	60	0.023	-32.59	-17.19	0.02
16	0.293	-10.66	4.74	2.98	61	0.025	-32.02	-16.62	0.02
17	0.234	-12.60	2.80	1.91	62	0.027	-31.52	-16.12	0.02
18	0.179	-14.94	0.46	1.11	63	0.028	-31.08	-15.68	0.03
19	0.127	-17.90	-2.50	0.56	64	0.029	-30.70	-15.30	0.03
20	0.080	-21.98	-6.58	0.22	65	0.030	-30.36	-14.96	0.03
21	0.036	-28.93	-13.53	0.04	66	0.032	-29.88	-14.48	0.04
22	0.010	-40.00	-24.60	0.00	67	0.034	-29.45	-14.05	0.04
23	0.038	-28.48	-13.08	0.05	68	0.035	-29.06	-13.66	0.04
24	0.067	-23.45	-8.05	0.16	69	0.037	-28.71	-13.31	0.05
25	0.092	-20.71	-5.31	0.29	70	0.038	-28.39	-12.99	0.05
26	0.112	-19.01	-3.61	0.44	71	0.040	-28.02	-12.62	0.05
27	0.128	-17.88	-2.48	0.56	72	0.041	-27.67	-12.27	0.06
28	0.139	-17.15	-1.75	0.67	73	0.043	-27.36	-11.96	0.06
29	0.146	-16.70	-1.30	0.74	74	0.044	-27.07	-11.67	0.07
30	0.150	-16.47	-1.07	0.78	75	0.046	-26.81	-11.41	0.07
31	0.151	-16.44	-1.04	0.79	76	0.047	-26.57	-11.17	0.08
32	0.149	-16.56	-1.16	0.77	77	0.048	-26.34	-10.94	0.08
33	0.144	-16.84	-1.44	0.72	78	0.049	-26.13	-10.73	0.08
34	0.137	-17.25	-1.85	0.65	79	0.051	-25.93	-10.53	0.09
35	0.129	-17.80	-2.40	0.58	80	0.052	-25.74	-10.34	0.09
36	0.120	-18.43	-3.03	0.50	81	0.050	-25.94	-10.54	0.09
37	0.110	-19.20	-3.80	0.42	82	0.049	-26.14	-10.74	0.08
38	0.099	-20.11	-4.71	0.34	83	0.048	-26.34	-10.94	0.08
39	0.087	-21.17	-5.77	0.26	84	0.047	-26.54	-11.14	0.08
40	0.076	-22.39	-6.99	0.20	85	0.046	-26.73	-11.33	0.07
41	0.065	-23.81	-8.41	0.14	86	0.043	-27.26	-11.86	0.07
42	0.053	-25.45	-10.05	0.10	87	0.041	-27.81	-12.41	0.06
43	0.043	-27.38	-11.98	0.06	88	0.038	-28.38	-12.98	0.05
44	0.033	-29.69	-14.29	0.04	89	0.036	-28.97	-13.57	0.04
					90	0.033	-29.60	-14.20	0.04