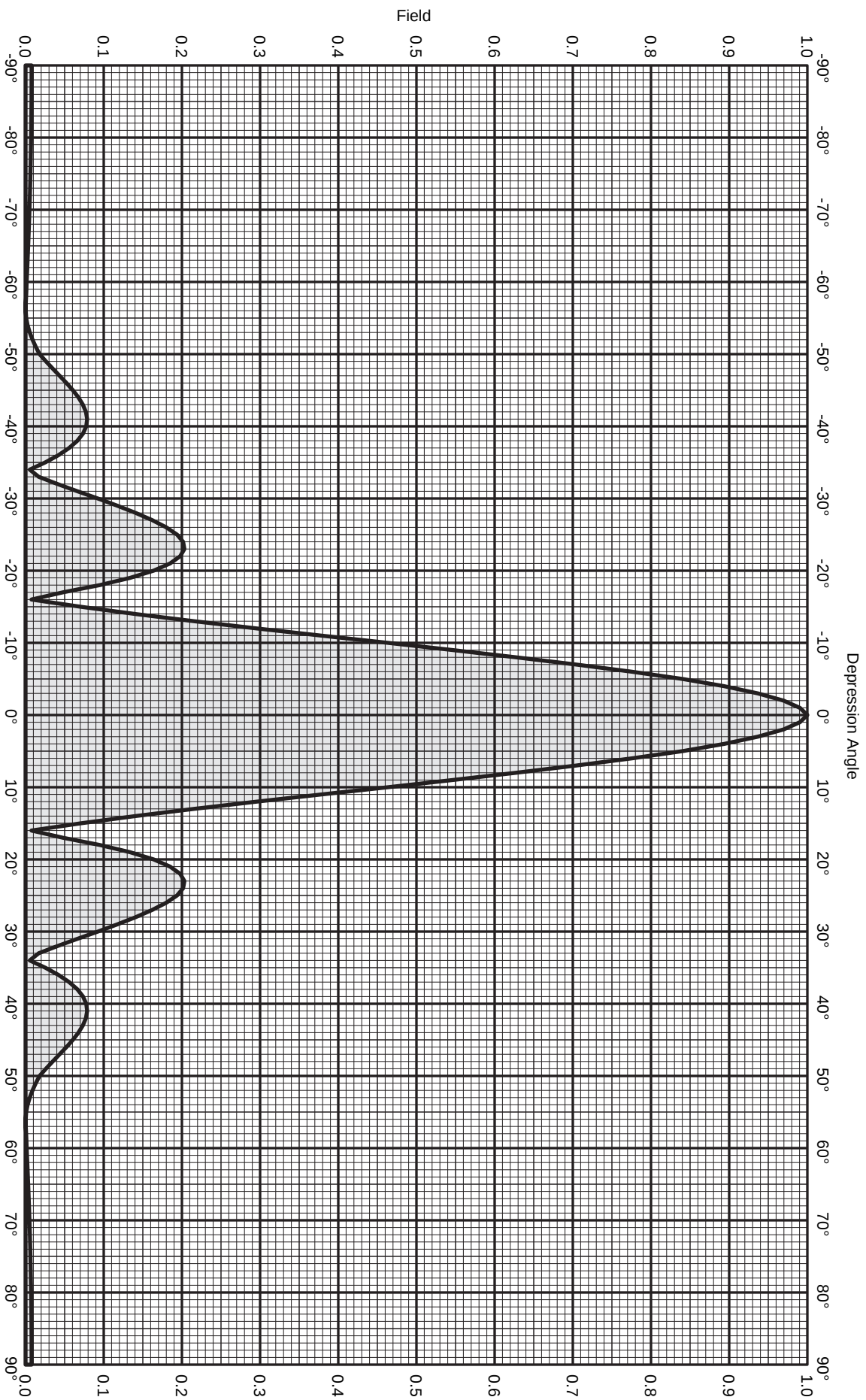




KATHREIN SCALA DIVISION

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4xCL-1469B/50/HV array

Four Antennas skewed 49 degrees

Vertically stacked @ 19" CTC

Max Gain: 13 dBd

Power-X: 19.95

Vertical Polarization

Vertical Plane Pattern



4xCL-1469B/50/HV array
 Four Antennas skewed 49 degrees
 Vertically stacked @ 19" CTC
 Max Gain: 13 dBd

Power-x: 19.95
 Vertical Polarization
 Vertical Plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.010	-40.00	-27.00	0.00	-45	0.061	-24.36	-11.36	0.07
-89	0.010	-40.00	-27.00	0.00	-44	0.068	-23.39	-10.39	0.09
-88	0.010	-40.00	-27.00	0.00	-43	0.073	-22.70	-9.70	0.11
-87	0.010	-40.00	-27.00	0.00	-42	0.077	-22.25	-9.25	0.12
-86	0.010	-40.00	-27.00	0.00	-41	0.079	-22.07	-9.07	0.12
-85	0.010	-40.00	-27.00	0.00	-40	0.078	-22.20	-9.20	0.12
-84	0.010	-40.00	-27.00	0.00	-39	0.074	-22.67	-9.67	0.11
-83	0.010	-40.00	-27.00	0.00	-38	0.066	-23.57	-10.57	0.09
-82	0.010	-40.00	-27.00	0.00	-37	0.056	-25.07	-12.07	0.06
-81	0.010	-40.00	-27.00	0.00	-36	0.042	-27.53	-14.53	0.04
-80	0.010	-40.00	-27.00	0.00	-35	0.025	-31.98	-18.98	0.01
-79	0.010	-40.00	-27.00	0.00	-34	0.010	-40.00	-27.00	0.00
-78	0.010	-40.00	-27.00	0.00	-33	0.017	-35.46	-22.46	0.01
-77	0.010	-40.00	-27.00	0.00	-32	0.041	-27.75	-14.75	0.03
-76	0.010	-40.00	-27.00	0.00	-31	0.066	-23.55	-10.55	0.09
-75	0.010	-40.00	-27.00	0.00	-30	0.092	-20.68	-7.68	0.17
-74	0.010	-40.00	-27.00	0.00	-29	0.117	-18.61	-5.61	0.28
-73	0.010	-40.00	-27.00	0.00	-28	0.141	-17.02	-4.02	0.40
-72	0.010	-40.00	-27.00	0.00	-27	0.162	-15.81	-2.81	0.52
-71	0.010	-40.00	-27.00	0.00	-26	0.180	-14.89	-1.89	0.65
-70	0.010	-40.00	-27.00	0.00	-25	0.194	-14.26	-1.26	0.75
-69	0.010	-40.00	-27.00	0.00	-24	0.202	-13.91	-0.91	0.81
-68	0.010	-40.00	-27.00	0.00	-23	0.203	-13.84	-0.84	0.82
-67	0.010	-40.00	-27.00	0.00	-22	0.198	-14.08	-1.08	0.78
-66	0.010	-40.00	-27.00	0.00	-21	0.185	-14.66	-1.66	0.68
-65	0.010	-40.00	-27.00	0.00	-20	0.164	-15.71	-2.71	0.54
-64	0.010	-40.00	-27.00	0.00	-19	0.134	-17.49	-4.49	0.36
-63	0.010	-40.00	-27.00	0.00	-18	0.095	-20.45	-7.45	0.18
-62	0.010	-40.00	-27.00	0.00	-17	0.048	-26.40	-13.40	0.05
-61	0.010	-40.00	-27.00	0.00	-16	0.010	-40.00	-27.00	0.00
-60	0.010	-40.00	-27.00	0.00	-15	0.071	-23.03	-10.03	0.10
-59	0.010	-40.00	-27.00	0.00	-14	0.140	-17.06	-4.06	0.39
-58	0.010	-40.00	-27.00	0.00	-13	0.216	-13.33	-0.33	0.93
-57	0.010	-40.00	-27.00	0.00	-12	0.295	-10.59	2.41	1.74
-56	0.010	-40.00	-27.00	0.00	-11	0.379	-8.44	4.56	2.86
-55	0.010	-40.00	-27.00	0.00	-10	0.464	-6.68	6.32	4.29
-54	0.010	-40.00	-27.00	0.00	-9	0.547	-5.25	7.75	5.96
-53	0.010	-40.00	-27.00	0.00	-8	0.627	-4.05	8.95	7.85
-52	0.010	-40.00	-27.00	0.00	-7	0.704	-3.05	9.95	9.89
-51	0.013	-37.65	-24.65	0.00	-6	0.776	-2.21	10.79	12.00
-50	0.018	-34.94	-21.94	0.01	-5	0.840	-1.51	11.49	14.09
-49	0.026	-31.68	-18.68	0.01	-4	0.894	-0.98	12.02	15.93
-48	0.035	-29.19	-16.19	0.02	-3	0.937	-0.57	12.43	17.50
-47	0.044	-27.22	-14.22	0.04	-2	0.969	-0.27	12.73	18.75
-46	0.052	-25.62	-12.62	0.05	-1	0.990	-0.08	12.92	19.57
					0	1.000	0.00	13.00	19.95



4xCL-1469B/50/HV array
 Four Antennas skewed 49 degrees
 Vertically stacked @ 19" CTC
 Max Gain: 13 dBd

Power-x: 19.95
 Vertical Polarization
 Vertical Plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	13.00	19.95	45	0.061	-24.36	-11.36	0.07
1	0.990	-0.08	12.92	19.57	46	0.052	-25.62	-12.62	0.05
2	0.969	-0.27	12.73	18.75	47	0.044	-27.22	-14.22	0.04
3	0.937	-0.57	12.43	17.50	48	0.035	-29.19	-16.19	0.02
4	0.894	-0.98	12.02	15.93	49	0.026	-31.68	-18.68	0.01
5	0.840	-1.51	11.49	14.09	50	0.018	-34.94	-21.94	0.01
6	0.776	-2.21	10.79	12.00	51	0.013	-37.65	-24.65	0.00
7	0.704	-3.05	9.95	9.89	52	0.010	-40.00	-27.00	0.00
8	0.627	-4.05	8.95	7.85	53	0.010	-40.00	-27.00	0.00
9	0.547	-5.25	7.75	5.96	54	0.010	-40.00	-27.00	0.00
10	0.464	-6.68	6.32	4.29	55	0.010	-40.00	-27.00	0.00
11	0.379	-8.44	4.56	2.86	56	0.010	-40.00	-27.00	0.00
12	0.295	-10.59	2.41	1.74	57	0.010	-40.00	-27.00	0.00
13	0.216	-13.33	-0.33	0.93	58	0.010	-40.00	-27.00	0.00
14	0.140	-17.06	-4.06	0.39	59	0.010	-40.00	-27.00	0.00
15	0.071	-23.02	-10.02	0.10	60	0.010	-40.00	-27.00	0.00
16	0.010	-40.00	-27.00	0.00	61	0.010	-40.00	-27.00	0.00
17	0.048	-26.41	-13.41	0.05	62	0.010	-40.00	-27.00	0.00
18	0.095	-20.45	-7.45	0.18	63	0.010	-40.00	-27.00	0.00
19	0.134	-17.49	-4.49	0.36	64	0.010	-40.00	-27.00	0.00
20	0.164	-15.71	-2.71	0.54	65	0.010	-40.00	-27.00	0.00
21	0.185	-14.66	-1.66	0.68	66	0.010	-40.00	-27.00	0.00
22	0.198	-14.08	-1.08	0.78	67	0.010	-40.00	-27.00	0.00
23	0.203	-13.84	-0.84	0.82	68	0.010	-40.00	-27.00	0.00
24	0.202	-13.91	-0.91	0.81	69	0.010	-40.00	-27.00	0.00
25	0.194	-14.26	-1.26	0.75	70	0.010	-40.00	-27.00	0.00
26	0.180	-14.89	-1.89	0.65	71	0.010	-40.00	-27.00	0.00
27	0.162	-15.81	-2.81	0.52	72	0.010	-40.00	-27.00	0.00
28	0.141	-17.02	-4.02	0.40	73	0.010	-40.00	-27.00	0.00
29	0.117	-18.61	-5.61	0.28	74	0.010	-40.00	-27.00	0.00
30	0.092	-20.68	-7.68	0.17	75	0.010	-40.00	-27.00	0.00
31	0.066	-23.55	-10.55	0.09	76	0.010	-40.00	-27.00	0.00
32	0.041	-27.75	-14.75	0.03	77	0.010	-40.00	-27.00	0.00
33	0.017	-35.45	-22.45	0.01	78	0.010	-40.00	-27.00	0.00
34	0.010	-40.00	-27.00	0.00	79	0.010	-40.00	-27.00	0.00
35	0.025	-31.98	-18.98	0.01	80	0.010	-40.00	-27.00	0.00
36	0.042	-27.53	-14.53	0.04	81	0.010	-40.00	-27.00	0.00
37	0.056	-25.07	-12.07	0.06	82	0.010	-40.00	-27.00	0.00
38	0.066	-23.57	-10.57	0.09	83	0.010	-40.00	-27.00	0.00
39	0.074	-22.67	-9.67	0.11	84	0.010	-40.00	-27.00	0.00
40	0.078	-22.20	-9.20	0.12	85	0.010	-40.00	-27.00	0.00
41	0.079	-22.07	-9.07	0.12	86	0.010	-40.00	-27.00	0.00
42	0.077	-22.25	-9.25	0.12	87	0.010	-40.00	-27.00	0.00
43	0.073	-22.70	-9.70	0.11	88	0.010	-40.00	-27.00	0.00
44	0.068	-23.39	-10.39	0.09	89	0.010	-40.00	-27.00	0.00
					90	0.010	-40.00	-27.00	0.00