



Electronics Research, Inc.  
7777 Gardner Road  
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Figure 1

----Theoretical----

Vertical Plane Relative Field

8 Bay Axiom

0.00 Degree(s) Electrical Beam Tilt

0.7 Percent First Null Fill

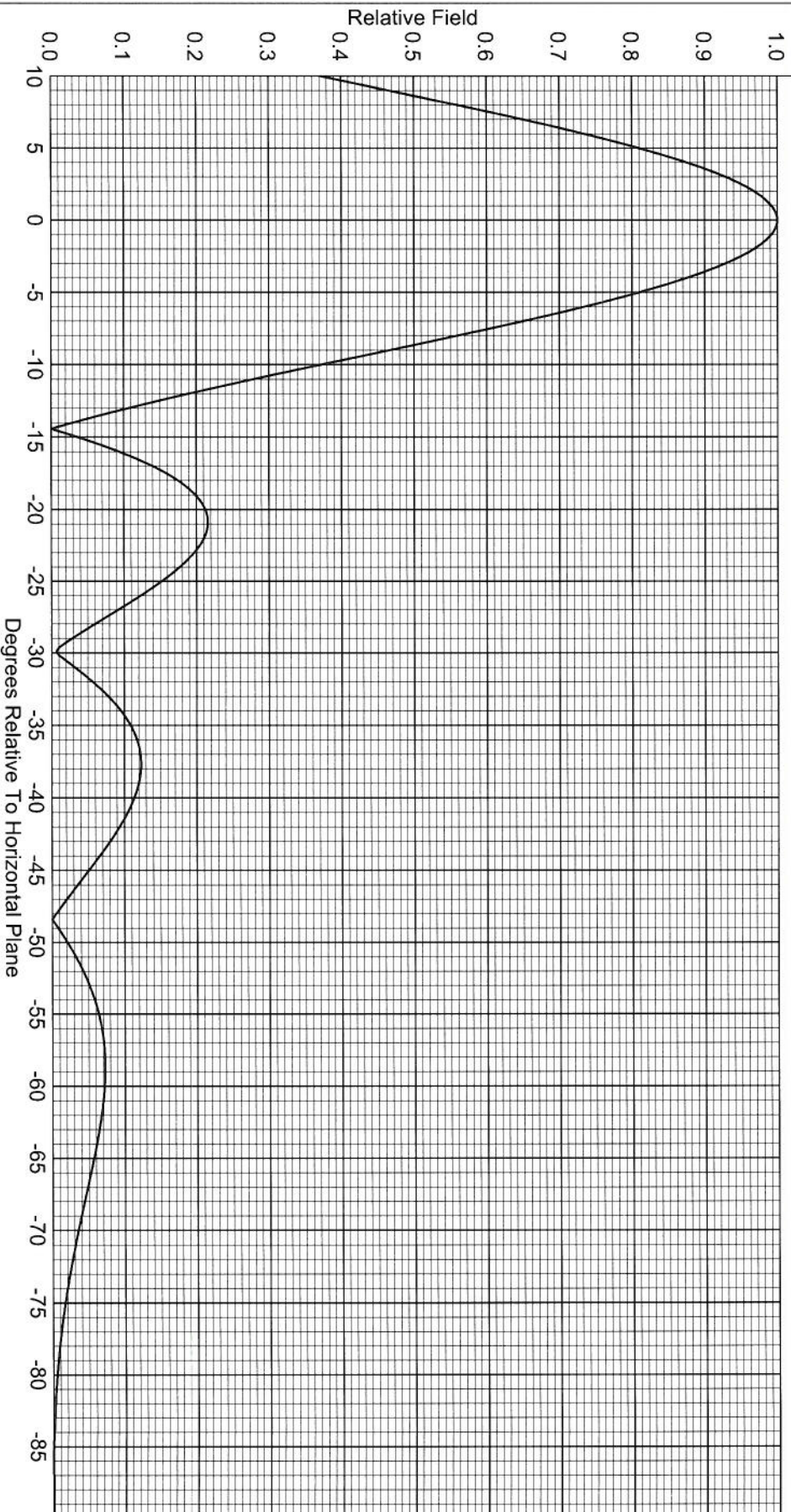
0.0 Percent Second Null Fill

Power Gain is 2.536 In The Horizontal Plane(2.536 In The Max.)

11/3/2009 1:15:05 PM

98.7 MHz

Element Spacing:  
60 Inches





**TABULATED DATA FOR ELEVATION PATTERN**

TYPE: SHPXA-8BC-HW-SP

98.7 MHZ, 8 BAYS SPACED 60 INCHES

ANGLE	FIELD	77.50	0.010	64.75	0.058	52.00	0.043	39.25	0.119	26.50	0.108	13.75	0.048	1.00	0.992	-11.75	0.211
ANGLE	FIELD	77.75	0.010	65.00	0.057	52.25	0.045	39.50	0.117	26.75	0.100	14.00	0.030	1.25	0.987	-11.50	0.234
ANGLE	FIELD	78.00	0.009	65.25	0.056	52.50	0.047	39.75	0.116	27.00	0.092	14.25	0.012	1.50	0.982	-11.25	0.256
ANGLE	FIELD	78.25	0.008	65.50	0.055	52.75	0.049	40.00	0.114	27.25	0.084	14.50	0.005	1.75	0.975	-11.00	0.279
ANGLE	FIELD	78.50	0.008	65.75	0.054	53.00	0.051	40.25	0.112	27.50	0.076	14.75	0.021	2.00	0.968	-10.75	0.302
ANGLE	FIELD	78.75	0.007	66.00	0.053	53.25	0.053	40.50	0.109	27.75	0.068	15.00	0.037	2.25	0.960	-10.50	0.325
ANGLE	FIELD	79.00	0.007	66.25	0.052	53.50	0.055	40.75	0.107	28.00	0.060	15.25	0.052	2.50	0.950	-10.25	0.348
ANGLE	FIELD	79.25	0.007	66.50	0.051	53.75	0.057	41.00	0.105	28.25	0.052	15.50	0.067	2.75	0.940	-10.00	0.372
ANGLE	FIELD	79.50	0.006	66.75	0.049	54.00	0.058	41.25	0.102	28.50	0.044	15.75	0.081	3.00	0.929	-9.75	0.396
ANGLE	FIELD	79.75	0.006	67.00	0.048	54.25	0.060	41.50	0.099	28.75	0.036	16.00	0.094	3.25	0.917	-9.50	0.419
ANGLE	FIELD	80.00	0.005	67.25	0.047	54.50	0.061	41.75	0.096	29.00	0.028	16.25	0.106	3.50	0.904	-9.25	0.443
ANGLE	FIELD	80.25	0.005	67.50	0.046	54.75	0.063	42.00	0.093	29.25	0.021	16.50	0.118	3.75	0.890	-9.00	0.467
ANGLE	FIELD	80.50	0.005	67.75	0.045	55.00	0.064	42.25	0.090	29.50	0.014	16.75	0.129	4.00	0.876	-8.75	0.490
ANGLE	FIELD	80.75	0.004	68.00	0.044	55.25	0.065	42.50	0.087	29.75	0.008	17.00	0.140	4.25	0.861	-8.50	0.514
ANGLE	FIELD	81.00	0.004	68.25	0.043	55.50	0.066	42.75	0.084	30.00	0.008	17.25	0.150	4.50	0.845	-8.25	0.537
ANGLE	FIELD	81.25	0.003	68.50	0.042	55.75	0.067	43.00	0.080	30.25	0.013	17.50	0.159	4.75	0.828	-8.00	0.560
ANGLE	FIELD	81.50	0.003	68.75	0.041	56.00	0.068	43.25	0.077	30.50	0.019	17.75	0.167	5.00	0.810	-7.75	0.583
ANGLE	FIELD	81.75	0.003	69.00	0.040	56.25	0.069	43.50	0.073	30.75	0.026	18.00	0.175	5.25	0.792	-7.50	0.606
ANGLE	FIELD	82.00	0.003	69.25	0.038	56.50	0.070	43.75	0.070	31.00	0.032	18.25	0.182	5.50	0.774	-7.25	0.628
ANGLE	FIELD	82.25	0.002	69.50	0.037	56.75	0.070	44.00	0.066	31.25	0.039	18.50	0.188	5.75	0.754	-7.00	0.650
ANGLE	FIELD	82.50	0.002	69.75	0.036	57.00	0.071	44.25	0.062	31.50	0.045	18.75	0.194	6.00	0.735	-6.75	0.672
ANGLE	FIELD	82.75	0.002	70.00	0.035	57.25	0.071	44.50	0.058	31.75	0.051	19.00	0.199	6.25	0.714	-6.50	0.693
ANGLE	FIELD	83.00	0.002	70.25	0.034	57.50	0.072	44.75	0.055	32.00	0.057	19.25	0.203	6.50	0.693	-6.25	0.714
ANGLE	FIELD	83.25	0.001	70.50	0.033	57.75	0.072	45.00	0.051	32.25	0.063	19.50	0.207	6.75	0.672	-6.00	0.735
ANGLE	FIELD	83.50	0.001	70.75	0.032	58.00	0.072	45.25	0.047	32.50	0.068	19.75	0.210	7.00	0.650	-5.75	0.754
ANGLE	FIELD	83.75	0.001	71.00	0.031	58.25	0.072	45.50	0.043	32.75	0.073	20.00	0.212	7.25	0.628	-5.50	0.774
ANGLE	FIELD	84.00	0.001	71.25	0.030	58.50	0.073	45.75	0.039	33.00	0.078	20.25	0.214	7.50	0.606	-5.25	0.792
ANGLE	FIELD	84.25	0.001	71.50	0.029	58.75	0.073	46.00	0.035	33.25	0.083	20.50	0.215	7.75	0.583	-5.00	0.810
ANGLE	FIELD	84.50	0.000	71.75	0.028	59.00	0.073	46.25	0.032	33.50	0.088	20.75	0.216	8.00	0.560	-4.75	0.828
ANGLE	FIELD	84.75	0.000	72.00	0.027	59.25	0.072	46.50	0.028	33.75	0.092	21.00	0.216	8.25	0.537	-4.50	0.845
ANGLE	FIELD	85.00	0.000	72.25	0.026	59.50	0.072	46.75	0.024	34.00	0.096	21.25	0.215	8.50	0.514	-4.25	0.861
ANGLE	FIELD	85.25	0.000	72.50	0.025	59.75	0.072	47.00	0.020	34.25	0.099	21.50	0.214	8.75	0.490	-4.00	0.876
ANGLE	FIELD	85.50	0.000	72.75	0.024	60.00	0.072	47.25	0.017	34.50	0.103	21.75	0.212	9.00	0.467	-3.75	0.890
ANGLE	FIELD	85.75	0.000	73.00	0.023	60.25	0.071	47.50	0.013	34.75	0.106	22.00	0.210	9.25	0.443	-3.50	0.904
ANGLE	FIELD	86.00	0.000	73.25	0.023	60.50	0.071	47.75	0.009	35.00	0.109	22.25	0.208	9.50	0.419	-3.25	0.917
ANGLE	FIELD	86.25	0.000	73.50	0.022	60.75	0.071	48.00	0.006	35.25	0.112	22.50	0.205	9.75	0.396	-3.00	0.929
ANGLE	FIELD	86.50	0.000	73.75	0.021	61.00	0.070	48.25	0.002	35.50	0.114	22.75	0.201	10.00	0.372	-2.75	0.940
ANGLE	FIELD	86.75	0.000	74.00	0.020	61.25	0.070	48.50	0.002	35.75	0.116	23.00	0.197	10.25	0.348	-2.50	0.950
ANGLE	FIELD	87.00	0.000	74.25	0.019	61.50	0.069	48.75	0.005	36.00	0.118	23.25	0.192	10.50	0.325	-2.25	0.960
ANGLE	FIELD	87.25	0.001	74.50	0.018	61.75	0.068	49.00	0.008	36.25	0.119	23.50	0.188	10.75	0.302	-2.00	0.968
ANGLE	FIELD	87.50	0.001	74.75	0.018	62.00	0.068	49.25	0.012	36.50	0.121	23.75	0.182	11.00	0.279	-1.75	0.975
ANGLE	FIELD	87.75	0.001	75.00	0.017	62.25	0.067	49.50	0.015	36.75	0.122	24.00	0.177	11.25	0.256	-1.50	0.982
ANGLE	FIELD	88.00	0.001	75.25	0.016	62.50	0.066	49.75	0.018	37.00	0.122	24.25	0.171	11.50	0.234	-1.25	0.987
ANGLE	FIELD	88.25	0.001	75.50	0.015	62.75	0.065	50.00	0.021	37.25	0.123	24.50	0.165	11.75	0.211	-1.00	0.992
ANGLE	FIELD	88.50	0.001	75.75	0.015	63.00	0.064	50.25	0.024	37.50	0.123	24.75	0.159	12.00	0.190	-0.75	0.995
ANGLE	FIELD	88.75	0.001	76.00	0.014	63.25	0.064	50.50	0.027	37.75	0.123	25.00	0.152	12.25	0.168	-0.50	0.998
ANGLE	FIELD	89.00	0.001	76.25	0.013	63.50	0.063	50.75	0.030	38.00	0.123	25.25	0.145	12.50	0.147	-0.25	0.999
ANGLE	FIELD	89.25	0.001	76.50	0.013	63.75	0.062	51.00	0.033	38.25	0.123	25.50	0.138	12.75	0.126	0.00	1.000
ANGLE	FIELD	89.50	0.001	76.75	0.012	64.00	0.061	51.25	0.035	38.50	0.122	25.75	0.130	13.00	0.106	0.25	0.999
ANGLE	FIELD	89.75	0.001	77.00	0.011	64.25	0.060	51.50	0.038	38.75	0.121	26.00	0.123	13.25	0.086	0.50	0.998
ANGLE	FIELD	90.00	0.001	77.25	0.011	64.50	0.059	51.75	0.040	39.00	0.120	26.25	0.115	13.50	0.067	0.75	0.995