

ELECTRONICS RESEARCH, INC.  
7777 GARDNER ROAD  
CHANDLER, IN. 47610

FIGURE 1

DECEMBER 13, 2005

ERI 1080 ELEMENTS ANTENNA  
96.5 MHZ. 2 LEVELS SPACED 122.13 INCHES

THETA DEGREES	FIELD VALUE
90	.189
89.75	.193
89.5	.196
89.25	.2
89	.203
88.75	.207
88.5	.21
88.25	.214
88	.217
87.75	.221
87.5	.224
87.25	.228
87	.231
86.75	.235
86.5	.238
86.25	.242
86	.246
85.75	.249
85.5	.253
85.25	.256
85	.26
84.75	.263
84.5	.267
84.25	.27
84	.274
83.75	.277
83.5	.281
83.25	.284
83	.288
82.75	.291
82.5	.295
82.25	.298
82	.302
81.75	.305
81.5	.309
81.25	.312
81	.316
80.75	.319
80.5	.322
80.25	.326
80	.329
79.75	.333
79.5	.336
79.25	.34
79	.343
78.75	.346
78.5	.35
78.25	.353
78	.357

WTIC-TAB.TXT

77.75	.36
77.5	.363
77.25	.367
77	.37
76.75	.373
76.5	.377
76.25	.38
76	.383
75.75	.387
75.5	.39
75.25	.393
75	.396
74.75	.4
74.5	.403
74.25	.406
74	.409
73.75	.412
73.5	.416
73.25	.419
73	.422
72.75	.425
72.5	.428
72.25	.431
72	.434
71.75	.437
71.5	.44
71.25	.443
71	.446
70.75	.449
70.5	.452
70.25	.455
70	.458
69.75	.46
69.5	.463
69.25	.466
69	.469
68.75	.472
68.5	.474
68.25	.477
68	.479
67.75	.482
67.5	.485
67.25	.487
67	.49
66.75	.492
66.5	.495
66.25	.497
66	.499
65.75	.502
65.5	.504
65.25	.506
65	.508
64.75	.51
64.5	.512
64.25	.514
64	.516
63.75	.518
63.5	.52
63.25	.522
63	.524
62.75	.526
62.5	.528
62.25	.529

## WTIC-TAB.TXT

62	.531
61.75	.532
61.5	.534
61.25	.535
61	.537
60.75	.538
60.5	.539
60.25	.54
60	.542
59.75	.543
59.5	.544
59.25	.545
59	.546
58.75	.546
58.5	.547
58.25	.548
58	.548
57.75	.549
57.5	.549
57.25	.55
57	.55
56.75	.55
56.5	.551
56.25	.551
56	.551
55.75	.551
55.5	.551
55.25	.55
55	.55
54.75	.55
54.5	.549
54.25	.549
54	.548
53.75	.547
53.5	.546
53.25	.546
53	.545
52.75	.543
52.5	.542
52.25	.541
52	.54
51.75	.538
51.5	.537
51.25	.535
51	.533
50.75	.531
50.5	.529
50.25	.527
50	.525
49.75	.523
49.5	.521
49.25	.518
49	.516
48.75	.513
48.5	.51
48.25	.507
48	.504
47.75	.501
47.5	.498
47.25	.495
47	.491
46.75	.488
46.5	.484

## WTIC-TAB.TXT

46.25	.48
46	.476
45.75	.472
45.5	.468
45.25	.464
45	.46
44.75	.455
44.5	.451
44.25	.446
44	.441
43.75	.436
43.5	.431
43.25	.426
43	.421
42.75	.416
42.5	.41
42.25	.405
42	.399
41.75	.393
41.5	.387
41.25	.381
41	.375
40.75	.369
40.5	.362
40.25	.356
40	.349
39.75	.342
39.5	.336
39.25	.329
39	.322
38.75	.314
38.5	.307
38.25	.3
38	.292
37.75	.284
37.5	.277
37.25	.269
37	.261
36.75	.253
36.5	.245
36.25	.236
36	.228
35.75	.219
35.5	.211
35.25	.202
35	.193
34.75	.184
34.5	.175
34.25	.166
34	.157
33.75	.148
33.5	.138
33.25	.129
33	.119
32.75	.11
32.5	.0999
32.25	.09
32	.0801
31.75	.0701
31.5	.06
31.25	.0498
31	.0396
30.75	.0293

30.5	.0189
30.25	.00843
30	.00211
29.75	.0127
29.5	.0234
29.25	.0341
29	.0449
28.75	.0558
28.5	.0667
28.25	.0777
28	.0887
27.75	.0997
27.5	.111
27.25	.122
27	.133
26.75	.144
26.5	.156
26.25	.167
26	.178
25.75	.19
25.5	.201
25.25	.213
25	.224
24.75	.236
24.5	.247
24.25	.259
24	.27
23.75	.282
23.5	.293
23.25	.305
23	.317
22.75	.328
22.5	.34
22.25	.351
22	.363
21.75	.374
21.5	.386
21.25	.397
21	.409
20.75	.42
20.5	.432
20.25	.443
20	.454
19.75	.466
19.5	.477
19.25	.488
19	.499
18.75	.51
18.5	.521
18.25	.532
18	.543
17.75	.554
17.5	.565
17.25	.576
17	.587
16.75	.597
16.5	.608
16.25	.618
16	.629
15.75	.639
15.5	.649
15.25	.659
15	.669

## WTIC-TAB.TXT

14.75	.679
14.5	.689
14.25	.699
14	.708
13.75	.718
13.5	.727
13.25	.736
13	.745
12.75	.754
12.5	.763
12.25	.772
12	.781
11.75	.789
11.5	.798
11.25	.806
11	.814
10.75	.822
10.5	.83
10.25	.837
10	.845
9.75	.852
9.5	.859
9.25	.866
9	.873
8.75	.88
8.5	.886
8.25	.893
8	.899
7.75	.905
7.5	.911
7.25	.917
7	.922
6.75	.928
6.5	.933
6.25	.938
6	.943
5.75	.947
5.5	.952
5.25	.956
5	.96
4.75	.964
4.5	.967
4.25	.971
4	.974
3.75	.977
3.5	.98
3.25	.983
3	.985
2.75	.988
2.5	.99
2.25	.992
2	.994
1.75	.995
1.5	.996
1.25	.997
1	.998
.75	.999
.5	1
.25	1
0	1
-.25	1
-.5	1
-.75	.999

## WTIC-TAB.TXT

-1	.998
-1.25	.997
-1.5	.996
-1.75	.995
-2	.994
-2.25	.992
-2.5	.99
-2.75	.988
-3	.985
-3.25	.983
-3.5	.98
-3.75	.977
-4	.974
-4.25	.971
-4.5	.967
-4.75	.964
-5	.96
-5.25	.956
-5.5	.952
-5.75	.947
-6	.943
-6.25	.938
-6.5	.933
-6.75	.928
-7	.922
-7.25	.917
-7.5	.911
-7.75	.905
-8	.899
-8.25	.893
-8.5	.886
-8.75	.88
-9	.873
-9.25	.866
-9.5	.859
-9.75	.852
-10	.845
-10.25	.837
-10.5	.83
-10.75	.822
-11	.814
-11.25	.806
-11.5	.798
-11.75	.789
-12	.781
-12.25	.772
-12.5	.763
-12.75	.754
-13	.745
-13.25	.736
-13.5	.727
-13.75	.718
-14	.708
-14.25	.699
-14.5	.689
-14.75	.679
-15	.669
-15.25	.659
-15.5	.649
-15.75	.639
-16	.629
-16.25	.618
-16.5	.608

## WTIC-TAB.TXT

-16.75	.597
-17	.587
-17.25	.576
-17.5	.565
-17.75	.554
-18	.543
-18.25	.532
-18.5	.521
-18.75	.51
-19	.499
-19.25	.488
-19.5	.477
-19.75	.466
-20	.454
-20.25	.443
-20.5	.432
-20.75	.42
-21	.409
-21.25	.397
-21.5	.386
-21.75	.374
-22	.363
-22.25	.351
-22.5	.34
-22.75	.328
-23	.317
-23.25	.305
-23.5	.293
-23.75	.282
-24	.27
-24.25	.259
-24.5	.247
-24.75	.236
-25	.224
-25.25	.213
-25.5	.201
-25.75	.19
-26	.178
-26.25	.167
-26.5	.156
-26.75	.144
-27	.133
-27.25	.122
-27.5	.111
-27.75	.0997
-28	.0887
-28.25	.0777
-28.5	.0667
-28.75	.0558
-29	.0449
-29.25	.0341
-29.5	.0234
-29.75	.0127
-30	.00211
-30.25	.00843
-30.5	.0189
-30.75	.0293
-31	.0396
-31.25	.0498
-31.5	.06
-31.75	.0701
-32	.0801
-32.25	.09

## WTIC-TAB.TXT

-32.5	.0999
-32.75	.11
-33	.119
-33.25	.129
-33.5	.138
-33.75	.148
-34	.157
-34.25	.166
-34.5	.175
-34.75	.184
-35	.193
-35.25	.202
-35.5	.211
-35.75	.219
-36	.228
-36.25	.236
-36.5	.245
-36.75	.253
-37	.261
-37.25	.269
-37.5	.277
-37.75	.284
-38	.292
-38.25	.3
-38.5	.307
-38.75	.314
-39	.322
-39.25	.329
-39.5	.336
-39.75	.342
-40	.349
-40.25	.356
-40.5	.362
-40.75	.369
-41	.375
-41.25	.381
-41.5	.387
-41.75	.393
-42	.399
-42.25	.405
-42.5	.41
-42.75	.416
-43	.421
-43.25	.426
-43.5	.431
-43.75	.436
-44	.441
-44.25	.446
-44.5	.451
-44.75	.455
-45	.46
-45.25	.464
-45.5	.468
-45.75	.472
-46	.476
-46.25	.48
-46.5	.484
-46.75	.488
-47	.491
-47.25	.495
-47.5	.498
-47.75	.501
-48	.504

WTIC-TAB.TXT

-48.25	.507
-48.5	.51
-48.75	.513
-49	.516
-49.25	.518
-49.5	.521
-49.75	.523
-50	.525
-50.25	.527
-50.5	.529
-50.75	.531
-51	.533
-51.25	.535
-51.5	.537
-51.75	.538
-52	.54
-52.25	.541
-52.5	.542
-52.75	.543
-53	.545
-53.25	.546
-53.5	.546
-53.75	.547
-54	.548
-54.25	.549
-54.5	.549
-54.75	.55
-55	.55
-55.25	.55
-55.5	.551
-55.75	.551
-56	.551
-56.25	.551
-56.5	.551
-56.75	.55
-57	.55
-57.25	.55
-57.5	.549
-57.75	.549
-58	.548
-58.25	.548
-58.5	.547
-58.75	.546
-59	.546
-59.25	.545
-59.5	.544
-59.75	.543
-60	.542
-60.25	.54
-60.5	.539
-60.75	.538
-61	.537
-61.25	.535
-61.5	.534
-61.75	.532
-62	.531
-62.25	.529
-62.5	.528
-62.75	.526
-63	.524
-63.25	.522
-63.5	.52
-63.75	.518

## WTIC-TAB.TXT

-64	.516
-64.25	.514
-64.5	.512
-64.75	.51
-65	.508
-65.25	.506
-65.5	.504
-65.75	.502
-66	.499
-66.25	.497
-66.5	.495
-66.75	.492
-67	.49
-67.25	.487
-67.5	.485
-67.75	.482
-68	.479
-68.25	.477
-68.5	.474
-68.75	.472
-69	.469
-69.25	.466
-69.5	.463
-69.75	.46
-70	.458
-70.25	.455
-70.5	.452
-70.75	.449
-71	.446
-71.25	.443
-71.5	.44
-71.75	.437
-72	.434
-72.25	.431
-72.5	.428
-72.75	.425
-73	.422
-73.25	.419
-73.5	.416
-73.75	.412
-74	.409
-74.25	.406
-74.5	.403
-74.75	.4
-75	.396
-75.25	.393
-75.5	.39
-75.75	.387
-76	.383
-76.25	.38
-76.5	.377
-76.75	.373
-77	.37
-77.25	.367
-77.5	.363
-77.75	.36
-78	.357
-78.25	.353
-78.5	.35
-78.75	.346
-79	.343
-79.25	.34
-79.5	.336

## WTIC-TAB.TXT

-79.75	.333
-80	.329
-80.25	.326
-80.5	.322
-80.75	.319
-81	.316
-81.25	.312
-81.5	.309
-81.75	.305
-82	.302
-82.25	.298
-82.5	.295
-82.75	.291
-83	.288
-83.25	.284
-83.5	.281
-83.75	.277
-84	.274
-84.25	.27
-84.5	.267
-84.75	.263
-85	.26
-85.25	.256
-85.5	.253
-85.75	.249
-86	.246
-86.25	.242
-86.5	.238
-86.75	.235
-87	.231
-87.25	.228
-87.5	.224
-87.75	.221
-88	.217
-88.25	.214
-88.5	.21
-88.75	.207
-89	.203
-89.25	.2
-89.5	.196
-89.75	.193
-90	.189