

## Exhibit 9

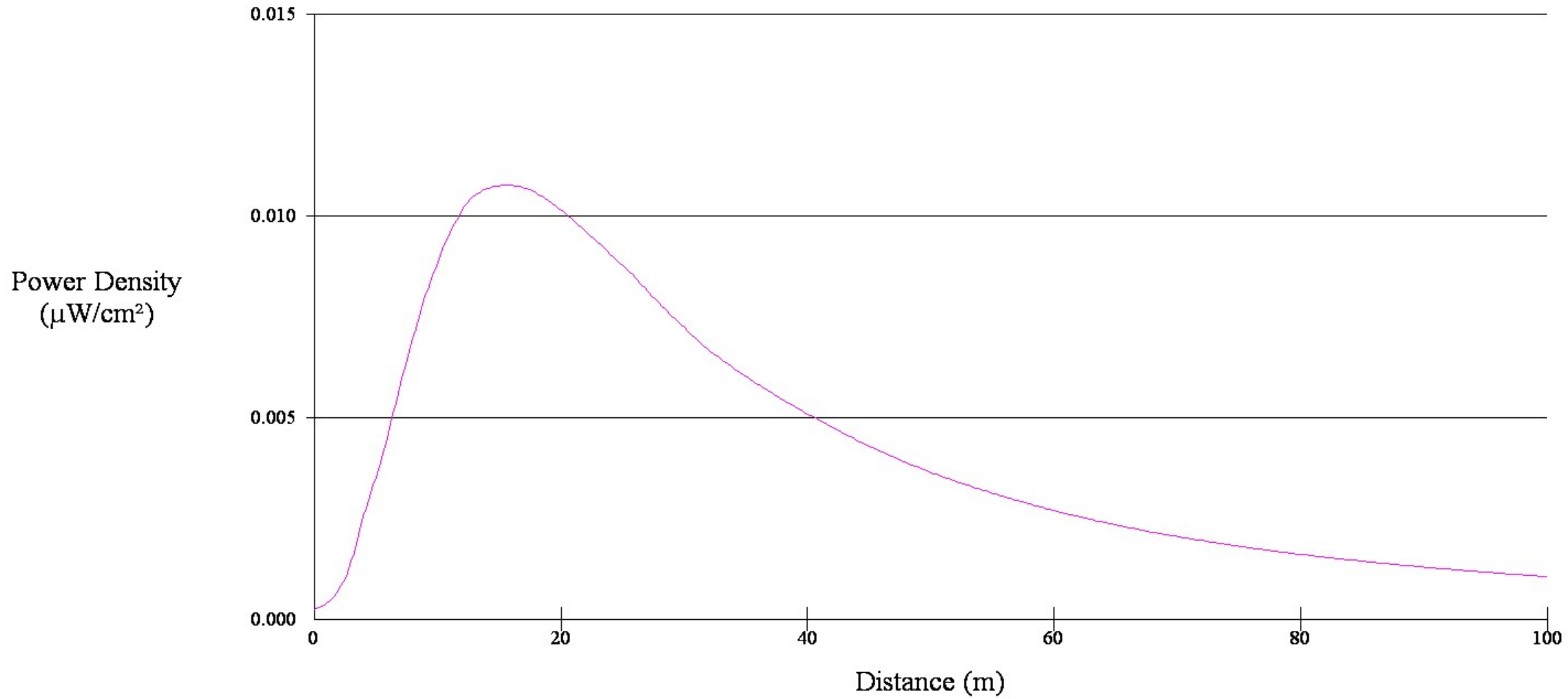
Special operating condition # 3 in the KNWU(FM) construction permit in FCC File No. BMPED-20090311ABO indicates that the permittee specified use of a Shively 6810 (EPA Type 6), 1 section antenna, and that if any other type of antenna is used, the permittee must include a revised RF field showing with the FCC Form 302-FM filing to demonstrate continued compliance with FCC guidelines. Washington State University installed a Shively circularly polarized 6812B antenna at KNWU(FM). The Shively 6812B antenna is also an EPA Type 6 and has an identical elevation pattern (see attached) that the applicant submits is in compliance with the FCC guidelines. The applicant provides the following attachments in support of this exhibit:

Attachment 1: Original FM model drawing

Attachment 2: 6810 elevation pattern

Attachment 3: 6812B elevation pattern

Power Density vs Distance



Office of Engineering and Technology

Distance (m):  Antenna Type:

Horizontal ERP (W):  Number of Elements:

Vertical ERP (W):  Element Spacing:

Antenna Height (m):

# Shively Labs®

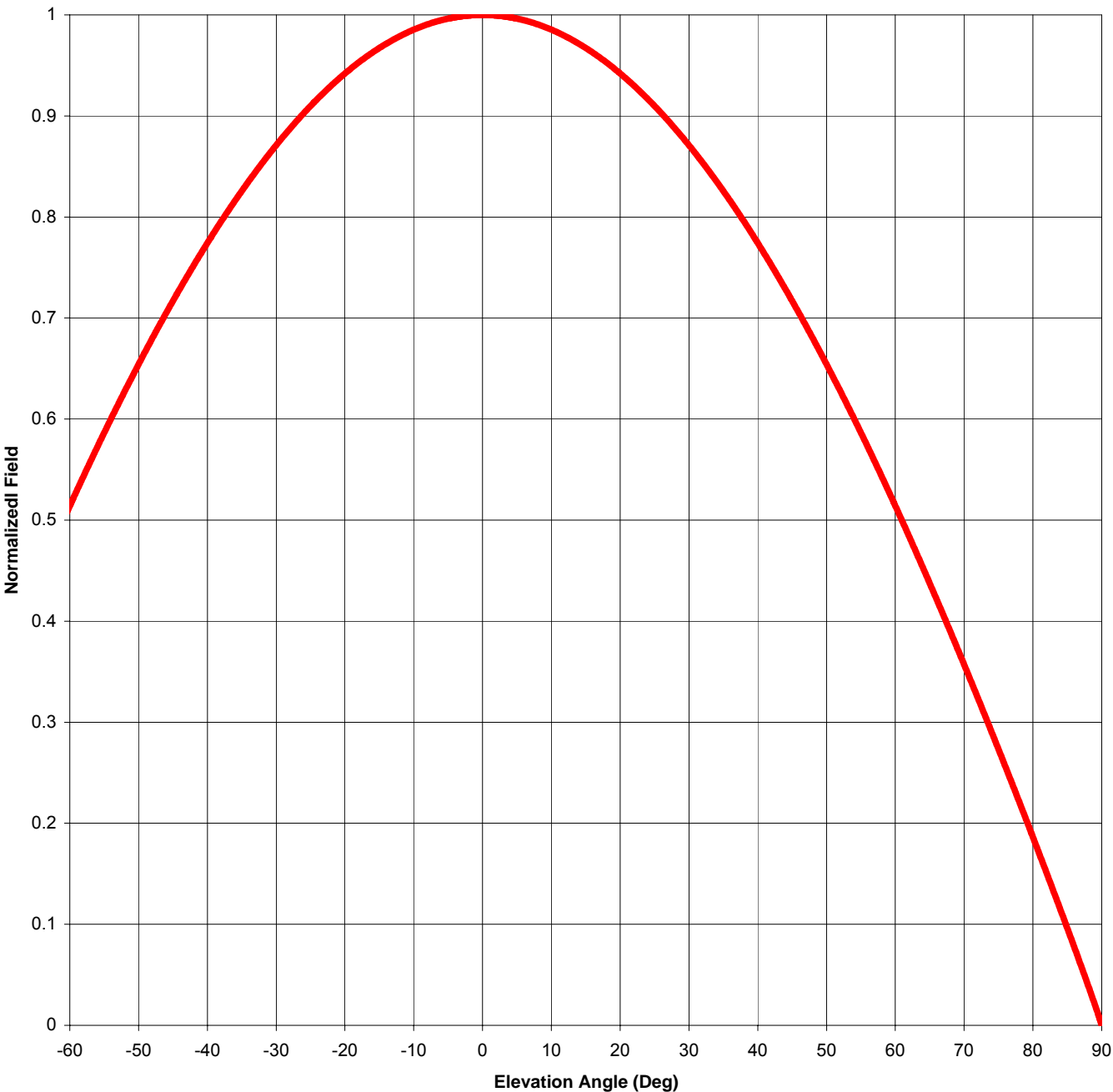
Antenna Mfr.: Shively Labs

Antenna Type: 6014, 6015, 6510, 6513, 6600, 68xx 1-Bay, full-wave-spaced

Frequency: 98.1

Date: 12/30/2004

6014, 6015, 68xx Gain (Max)	0.46	-3.37 dB
6510, 6513, 6600 Gain (Max)	0.92	-0.36 dB



## Elevation Pattern Tabulation, Sidemount Single-Bay Antennas, Full-Wave-Spaced

Includes Models 6014, 6015, 66xx series except 6602B, 65xx series, 68xx series except 6812B & 6832.

Relative Field at 0° Depression = 1.000

Degrees	Rel. Field
1	1.000
2	0.999
3	0.999
4	0.998
5	0.996
6	0.995
7	0.993
8	0.991
9	0.988
10	0.985
11	0.982
12	0.979
13	0.975
14	0.971
15	0.967
16	0.963
17	0.958
18	0.953

Degrees	Rel. Field
19	0.948
20	0.942
21	0.936
22	0.930
23	0.924
24	0.917
25	0.910
26	0.903
27	0.895
28	0.887
29	0.879
30	0.871
31	0.862
32	0.854
33	0.845
34	0.835
35	0.826
36	0.816

Degrees	Rel. Field
37	0.806
38	0.796
39	0.785
40	0.774
41	0.763
42	0.752
43	0.741
44	0.729
45	0.717
46	0.705
47	0.693
48	0.680
49	0.667
50	0.654
51	0.641
52	0.628
53	0.614
54	0.600

Degrees	Rel. Field
55	0.586
56	0.572
57	0.558
58	0.544
59	0.529
60	0.514
61	0.499
62	0.484
63	0.469
64	0.453
65	0.437
66	0.422
67	0.406
68	0.390
69	0.373
70	0.357
71	0.341
72	0.324

Degrees	Rel. Field
73	0.307
74	0.290
75	0.273
76	0.256
77	0.239
78	0.221
79	0.204
80	0.186
81	0.168
82	0.151
83	0.133
84	0.114
85	0.096
86	0.078
87	0.059
88	0.040
89	0.021
90	0.000

# Shively Labs

Antenna Mfr.: Shively Labs

Date: 12/30/2004

Antenna Type: 6812B or 6602B 1-Bay, full-wave-spaced

Frequency: 98.1

6812B Gain (Max)

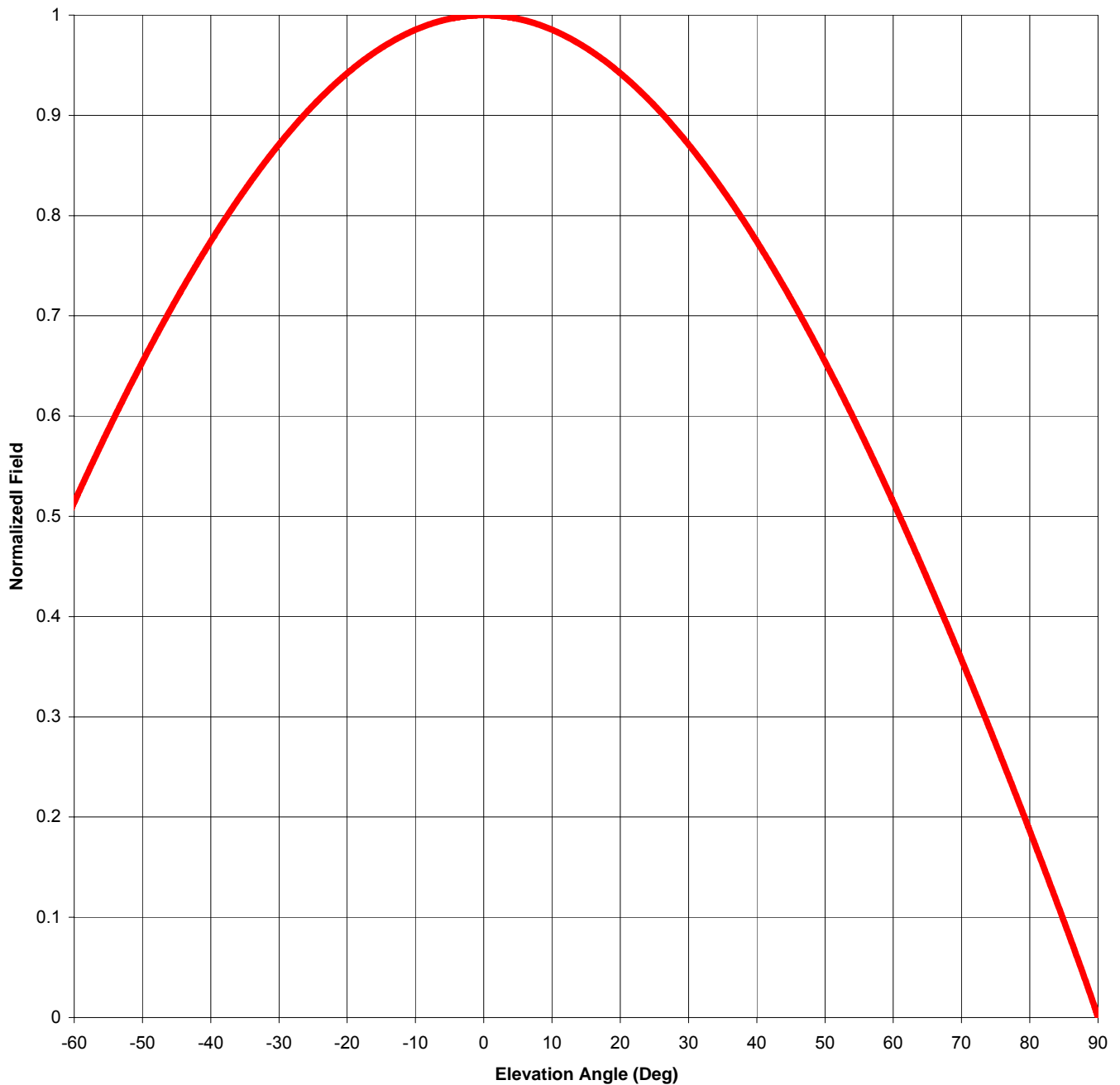
0.46

-3.37 dB

6602B Gain (Max)

0.92

-0.36 dB



## Elevation Pattern Tabulation, 6602B and 6812B Single-Bay

Relative Field at 0° Depression = 1.000

Degrees	Rel. Field
1	1.000
2	0.999
3	0.999
4	0.998
5	0.996
6	0.995
7	0.993
8	0.991
9	0.988
10	0.985
11	0.982
12	0.979
13	0.975
14	0.971
15	0.967
16	0.963
17	0.958
18	0.953

Degrees	Rel. Field
19	0.948
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22	0.930
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24	0.917
25	0.910
26	0.903
27	0.895
28	0.887
29	0.879
30	0.871
31	0.862
32	0.854
33	0.845
34	0.835
35	0.826
36	0.816

Degrees	Rel. Field
37	0.806
38	0.796
39	0.785
40	0.774
41	0.763
42	0.752
43	0.741
44	0.729
45	0.717
46	0.705
47	0.693
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50	0.654
51	0.641
52	0.628
53	0.614
54	0.600

Degrees	Rel. Field
55	0.586
56	0.572
57	0.558
58	0.544
59	0.529
60	0.514
61	0.499
62	0.484
63	0.469
64	0.453
65	0.437
66	0.422
67	0.406
68	0.390
69	0.373
70	0.357
71	0.341
72	0.324

Degrees	Rel. Field
73	0.307
74	0.290
75	0.273
76	0.256
77	0.239
78	0.221
79	0.204
80	0.186
81	0.168
82	0.151
83	0.133
84	0.114
85	0.096
86	0.078
87	0.059
88	0.040
89	0.021
90	0.000