

Fill-In Contours

When using 30-second terrain data, the resulting protected contour averages more than a kilometer than those resulting from use of more accurate three-second data.

As permitted by §73.312(d), more accurate three-second data was used for EAH calculations when determining the 60 dBu F[50,50] contour for this application.

The following pages include a tabulation of the contours determined by three-second data used for this determination. It is that data which was used as the basis for the mapped translator contour in Exhibit 10 – Fill-In Contour.

Distance to FM Contour

Study: __WZFN Fill-In 265ft on WTKE tower 225W
 Site: __WZFN Fill-In on WTKE tower

Latitude: N30-24-50.00
 Longitude: W86-37-40.00

True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	Distance to Contour 60.0 dBu F(50,50) (dBKW)	Distance to Contour (km)
0.00	36.93	49.87	0.225	-6.48	9.00
1.00	37.20	49.60	0.225	-6.48	8.98
2.00	37.22	49.58	0.225	-6.48	8.97
3.00	37.07	49.73	0.225	-6.48	8.99
4.00	36.70	50.10	0.225	-6.48	9.03
5.00	36.45	50.35	0.225	-6.48	9.05
6.00	35.36	51.44	0.225	-6.48	9.16
7.00	34.61	52.19	0.225	-6.48	9.24
8.00	34.88	51.92	0.225	-6.48	9.21
9.00	34.12	52.68	0.225	-6.48	9.28
10.00	32.20	54.60	0.225	-6.48	9.46
11.00	30.76	56.04	0.225	-6.48	9.59
12.00	31.14	55.66	0.225	-6.48	9.56
13.00	31.56	55.24	0.225	-6.48	9.52
14.00	31.46	55.34	0.225	-6.48	9.53
15.00	31.43	55.37	0.225	-6.48	9.53
16.00	31.55	55.25	0.225	-6.48	9.52
17.00	31.27	55.53	0.225	-6.48	9.54
18.00	30.28	56.52	0.225	-6.48	9.63
19.00	29.96	56.84	0.225	-6.48	9.66
20.00	29.62	57.18	0.225	-6.48	9.69
21.00	29.45	57.35	0.225	-6.48	9.70
22.00	29.01	57.79	0.225	-6.48	9.74
23.00	28.38	58.42	0.225	-6.48	9.79
24.00	27.24	59.56	0.225	-6.48	9.88
25.00	26.25	60.55	0.225	-6.48	9.95
26.00	25.13	61.67	0.225	-6.48	10.03
27.00	23.76	63.04	0.225	-6.48	10.13
28.00	21.90	64.90	0.225	-6.48	10.27
29.00	22.72	64.08	0.225	-6.48	10.21
30.00	23.69	63.11	0.225	-6.48	10.14
31.00	24.24	62.56	0.225	-6.48	10.10
32.00	24.83	61.97	0.225	-6.48	10.06
33.00	25.07	61.73	0.225	-6.48	10.04
34.00	25.61	61.19	0.225	-6.48	10.00
35.00	25.80	61.00	0.225	-6.48	9.99
36.00	25.21	61.59	0.225	-6.48	10.03
37.00	24.58	62.22	0.225	-6.48	10.07
38.00	24.44	62.36	0.225	-6.48	10.08
39.00	23.85	62.95	0.225	-6.48	10.13

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
40.00	23.59	63.21	0.225	-6.48	10.15
41.00	23.28	63.52	0.225	-6.48	10.17
42.00	22.59	64.21	0.225	-6.48	10.22
43.00	22.16	64.64	0.225	-6.48	10.25
44.00	20.81	65.99	0.225	-6.48	10.34
45.00	20.45	66.35	0.225	-6.48	10.37
46.00	20.68	66.12	0.225	-6.48	10.35
47.00	20.09	66.71	0.225	-6.48	10.39
48.00	19.82	66.98	0.225	-6.48	10.41
49.00	20.01	66.79	0.225	-6.48	10.40
50.00	20.25	66.55	0.225	-6.48	10.38
51.00	20.23	66.57	0.225	-6.48	10.38
52.00	20.33	66.47	0.225	-6.48	10.38
53.00	20.25	66.55	0.225	-6.48	10.38
54.00	19.51	67.29	0.225	-6.48	10.43
55.00	18.47	68.33	0.225	-6.48	10.50
56.00	17.16	69.64	0.225	-6.48	10.59
57.00	15.65	71.15	0.225	-6.48	10.70
58.00	14.15	72.65	0.225	-6.48	10.80
59.00	12.30	74.50	0.225	-6.48	10.92
60.00	11.21	75.59	0.225	-6.48	10.99
61.00	10.74	76.06	0.225	-6.48	11.03
62.00	9.94	76.86	0.225	-6.48	11.08
63.00	8.44	78.36	0.225	-6.48	11.18
64.00	7.10	79.70	0.225	-6.48	11.27
65.00	6.13	80.67	0.225	-6.48	11.33
66.00	5.07	81.73	0.225	-6.48	11.40
67.00	3.88	82.92	0.225	-6.48	11.47
68.00	2.28	84.52	0.225	-6.48	11.58
69.00	1.81	84.99	0.225	-6.48	11.61
70.00	1.61	85.19	0.225	-6.48	11.62
71.00	1.34	85.46	0.225	-6.48	11.64
72.00	1.13	85.67	0.225	-6.48	11.65
73.00	0.97	85.83	0.225	-6.48	11.66
74.00	0.76	86.04	0.225	-6.48	11.67
75.00	0.56	86.24	0.225	-6.48	11.69
76.00	0.39	86.41	0.225	-6.48	11.70
77.00	0.31	86.49	0.225	-6.48	11.70
78.00	0.25	86.55	0.225	-6.48	11.71
79.00	0.25	86.55	0.225	-6.48	11.71
80.00	0.29	86.51	0.225	-6.48	11.70
81.00	0.40	86.40	0.225	-6.48	11.70
82.00	0.44	86.36	0.225	-6.48	11.69
83.00	0.48	86.32	0.225	-6.48	11.69
84.00	0.51	86.29	0.225	-6.48	11.69
85.00	0.57	86.23	0.225	-6.48	11.69

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
86.00	0.59	86.21	0.225	-6.48	11.69
87.00	0.61	86.19	0.225	-6.48	11.68
88.00	0.74	86.06	0.225	-6.48	11.68
89.00	0.87	85.93	0.225	-6.48	11.67
90.00	1.41	85.39	0.225	-6.48	11.63
91.00	2.03	84.77	0.225	-6.48	11.59
92.00	2.94	83.86	0.225	-6.48	11.53
93.00	3.32	83.48	0.225	-6.48	11.51
94.00	3.47	83.33	0.225	-6.48	11.50
95.00	3.91	82.89	0.225	-6.48	11.47
96.00	4.19	82.61	0.225	-6.48	11.45
97.00	5.05	81.75	0.225	-6.48	11.40
98.00	5.12	81.68	0.225	-6.48	11.39
99.00	5.26	81.54	0.225	-6.48	11.39
100.00	5.67	81.13	0.225	-6.48	11.36
101.00	4.10	82.70	0.225	-6.48	11.46
102.00	2.31	84.49	0.225	-6.48	11.57
103.00	2.22	84.58	0.225	-6.48	11.58
104.00	2.68	84.12	0.225	-6.48	11.55
105.00	2.75	84.05	0.225	-6.48	11.55
106.00	1.96	84.84	0.225	-6.48	11.60
107.00	1.96	84.84	0.225	-6.48	11.60
108.00	1.68	85.12	0.225	-6.48	11.62
109.00	1.25	85.55	0.225	-6.48	11.64
110.00	1.09	85.71	0.225	-6.48	11.65
111.00	1.00	85.80	0.225	-6.48	11.66
112.00	0.98	85.82	0.225	-6.48	11.66
113.00	0.86	85.94	0.225	-6.48	11.67
114.00	0.78	86.02	0.225	-6.48	11.67
115.00	0.80	86.00	0.225	-6.48	11.67
116.00	0.81	85.99	0.225	-6.48	11.67
117.00	0.89	85.91	0.225	-6.48	11.67
118.00	0.81	85.99	0.225	-6.48	11.67
119.00	0.76	86.04	0.225	-6.48	11.67
120.00	0.73	86.07	0.225	-6.48	11.68
121.00	0.66	86.14	0.225	-6.48	11.68
122.00	0.65	86.15	0.225	-6.48	11.68
123.00	0.61	86.19	0.225	-6.48	11.68
124.00	0.61	86.19	0.225	-6.48	11.68
125.00	0.59	86.21	0.225	-6.48	11.69
126.00	0.53	86.27	0.225	-6.48	11.69
127.00	0.45	86.35	0.225	-6.48	11.69
128.00	0.39	86.41	0.225	-6.48	11.70
129.00	0.29	86.51	0.225	-6.48	11.70
130.00	0.27	86.53	0.225	-6.48	11.71
131.00	0.23	86.57	0.225	-6.48	11.71

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
132.00	0.23	86.57	0.225	-6.48	11.71
133.00	0.15	86.65	0.225	-6.48	11.71
134.00	0.15	86.65	0.225	-6.48	11.71
135.00	0.06	86.74	0.225	-6.48	11.72
136.00	0.06	86.74	0.225	-6.48	11.72
137.00	0.01	86.79	0.225	-6.48	11.72
138.00	0.01	86.79	0.225	-6.48	11.72
139.00	0.01	86.79	0.225	-6.48	11.72
140.00	0.00	86.80	0.225	-6.48	11.72
141.00	0.00	86.80	0.225	-6.48	11.72
142.00	0.00	86.80	0.225	-6.48	11.72
143.00	0.00	86.80	0.225	-6.48	11.72
144.00	0.00	86.80	0.225	-6.48	11.72
145.00	0.00	86.80	0.225	-6.48	11.72
146.00	0.00	86.80	0.225	-6.48	11.72
147.00	0.00	86.80	0.225	-6.48	11.72
148.00	0.00	86.80	0.225	-6.48	11.72
149.00	0.00	86.80	0.225	-6.48	11.72
150.00	0.00	86.80	0.225	-6.48	11.72
151.00	0.00	86.80	0.225	-6.48	11.72
152.00	0.00	86.80	0.225	-6.48	11.72
153.00	0.00	86.80	0.225	-6.48	11.72
154.00	0.00	86.80	0.225	-6.48	11.72
155.00	0.00	86.80	0.225	-6.48	11.72
156.00	0.00	86.80	0.225	-6.48	11.72
157.00	0.00	86.80	0.225	-6.48	11.72
158.00	0.00	86.80	0.225	-6.48	11.72
159.00	0.00	86.80	0.225	-6.48	11.72
160.00	0.00	86.80	0.225	-6.48	11.72
161.00	0.00	86.80	0.225	-6.48	11.72
162.00	0.00	86.80	0.225	-6.48	11.72
163.00	0.00	86.80	0.225	-6.48	11.72
164.00	0.00	86.80	0.225	-6.48	11.72
165.00	0.00	86.80	0.225	-6.48	11.72
166.00	0.00	86.80	0.225	-6.48	11.72
167.00	0.00	86.80	0.225	-6.48	11.72
168.00	0.00	86.80	0.225	-6.48	11.72
169.00	0.00	86.80	0.225	-6.48	11.72
170.00	0.00	86.80	0.225	-6.48	11.72
171.00	0.00	86.80	0.225	-6.48	11.72
172.00	0.00	86.80	0.225	-6.48	11.72
173.00	0.00	86.80	0.225	-6.48	11.72
174.00	0.00	86.80	0.225	-6.48	11.72
175.00	0.00	86.80	0.225	-6.48	11.72
176.00	0.00	86.80	0.225	-6.48	11.72
177.00	0.00	86.80	0.225	-6.48	11.72

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
178.00	0.00	86.80	0.225	-6.48	11.72
179.00	0.00	86.80	0.225	-6.48	11.72
180.00	0.00	86.80	0.225	-6.48	11.72
181.00	0.00	86.80	0.225	-6.48	11.72
182.00	0.00	86.80	0.225	-6.48	11.72
183.00	0.00	86.80	0.225	-6.48	11.72
184.00	0.00	86.80	0.225	-6.48	11.72
185.00	0.00	86.80	0.225	-6.48	11.72
186.00	0.00	86.80	0.225	-6.48	11.72
187.00	0.00	86.80	0.225	-6.48	11.72
188.00	0.00	86.80	0.225	-6.48	11.72
189.00	0.00	86.80	0.225	-6.48	11.72
190.00	0.00	86.80	0.225	-6.48	11.72
191.00	0.00	86.80	0.225	-6.48	11.72
192.00	0.00	86.80	0.225	-6.48	11.72
193.00	0.00	86.80	0.225	-6.48	11.72
194.00	0.00	86.80	0.225	-6.48	11.72
195.00	0.00	86.80	0.225	-6.48	11.72
196.00	0.00	86.80	0.225	-6.48	11.72
197.00	0.00	86.80	0.225	-6.48	11.72
198.00	0.00	86.80	0.225	-6.48	11.72
199.00	0.00	86.80	0.225	-6.48	11.72
200.00	0.00	86.80	0.225	-6.48	11.72
201.00	0.00	86.80	0.225	-6.48	11.72
202.00	0.00	86.80	0.225	-6.48	11.72
203.00	0.00	86.80	0.225	-6.48	11.72
204.00	0.00	86.80	0.225	-6.48	11.72
205.00	0.00	86.80	0.225	-6.48	11.72
206.00	0.00	86.80	0.225	-6.48	11.72
207.00	0.00	86.80	0.225	-6.48	11.72
208.00	0.00	86.80	0.225	-6.48	11.72
209.00	0.00	86.80	0.225	-6.48	11.72
210.00	0.00	86.80	0.225	-6.48	11.72
211.00	0.00	86.80	0.225	-6.48	11.72
212.00	0.00	86.80	0.225	-6.48	11.72
213.00	0.00	86.80	0.225	-6.48	11.72
214.00	0.00	86.80	0.225	-6.48	11.72
215.00	0.00	86.80	0.225	-6.48	11.72
216.00	0.00	86.80	0.225	-6.48	11.72
217.00	0.00	86.80	0.225	-6.48	11.72
218.00	0.00	86.80	0.225	-6.48	11.72
219.00	0.00	86.80	0.225	-6.48	11.72
220.00	0.00	86.80	0.225	-6.48	11.72
221.00	0.00	86.80	0.225	-6.48	11.72
222.00	0.00	86.80	0.225	-6.48	11.72
223.00	0.00	86.80	0.225	-6.48	11.72

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
224.00	0.00	86.80	0.225	-6.48	11.72
225.00	0.00	86.80	0.225	-6.48	11.72
226.00	0.00	86.80	0.225	-6.48	11.72
227.00	0.00	86.80	0.225	-6.48	11.72
228.00	0.00	86.80	0.225	-6.48	11.72
229.00	0.01	86.79	0.225	-6.48	11.72
230.00	0.01	86.79	0.225	-6.48	11.72
231.00	0.05	86.75	0.225	-6.48	11.72
232.00	0.07	86.73	0.225	-6.48	11.72
233.00	0.11	86.69	0.225	-6.48	11.72
234.00	0.14	86.66	0.225	-6.48	11.71
235.00	0.15	86.65	0.225	-6.48	11.71
236.00	0.21	86.59	0.225	-6.48	11.71
237.00	0.25	86.55	0.225	-6.48	11.71
238.00	0.25	86.55	0.225	-6.48	11.71
239.00	0.31	86.49	0.225	-6.48	11.70
240.00	0.32	86.48	0.225	-6.48	11.70
241.00	0.39	86.41	0.225	-6.48	11.70
242.00	0.40	86.40	0.225	-6.48	11.70
243.00	0.41	86.39	0.225	-6.48	11.70
244.00	0.50	86.30	0.225	-6.48	11.69
245.00	0.58	86.22	0.225	-6.48	11.69
246.00	0.71	86.09	0.225	-6.48	11.68
247.00	0.84	85.96	0.225	-6.48	11.67
248.00	0.90	85.90	0.225	-6.48	11.67
249.00	0.93	85.87	0.225	-6.48	11.66
250.00	0.97	85.83	0.225	-6.48	11.66
251.00	1.07	85.73	0.225	-6.48	11.65
252.00	1.22	85.58	0.225	-6.48	11.65
253.00	1.46	85.34	0.225	-6.48	11.63
254.00	1.70	85.10	0.225	-6.48	11.61
255.00	1.83	84.97	0.225	-6.48	11.61
256.00	1.78	85.02	0.225	-6.48	11.61
257.00	2.13	84.67	0.225	-6.48	11.59
258.00	2.68	84.12	0.225	-6.48	11.55
259.00	3.84	82.96	0.225	-6.48	11.48
260.00	4.87	81.93	0.225	-6.48	11.41
261.00	4.74	82.06	0.225	-6.48	11.42
262.00	3.61	83.19	0.225	-6.48	11.49
263.00	2.93	83.87	0.225	-6.48	11.53
264.00	3.36	83.44	0.225	-6.48	11.51
265.00	4.23	82.57	0.225	-6.48	11.45
266.00	5.79	81.01	0.225	-6.48	11.35
267.00	7.35	79.45	0.225	-6.48	11.25
268.00	10.17	76.63	0.225	-6.48	11.06
269.00	11.40	75.40	0.225	-6.48	10.98

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
270.00	12.85	73.95	0.225	-6.48	10.89
271.00	14.03	72.77	0.225	-6.48	10.81
272.00	15.25	71.55	0.225	-6.48	10.73
273.00	15.95	70.85	0.225	-6.48	10.68
274.00	15.97	70.83	0.225	-6.48	10.68
275.00	16.59	70.21	0.225	-6.48	10.63
276.00	16.60	70.20	0.225	-6.48	10.63
277.00	15.93	70.87	0.225	-6.48	10.68
278.00	15.76	71.04	0.225	-6.48	10.69
279.00	17.29	69.51	0.225	-6.48	10.59
280.00	18.72	68.08	0.225	-6.48	10.49
281.00	19.44	67.36	0.225	-6.48	10.44
282.00	19.17	67.63	0.225	-6.48	10.46
283.00	19.29	67.51	0.225	-6.48	10.45
284.00	18.93	67.87	0.225	-6.48	10.47
285.00	19.50	67.30	0.225	-6.48	10.43
286.00	19.29	67.51	0.225	-6.48	10.45
287.00	19.54	67.26	0.225	-6.48	10.43
288.00	20.22	66.58	0.225	-6.48	10.38
289.00	20.46	66.34	0.225	-6.48	10.37
290.00	20.60	66.20	0.225	-6.48	10.36
291.00	20.53	66.27	0.225	-6.48	10.36
292.00	21.43	65.37	0.225	-6.48	10.30
293.00	22.11	64.69	0.225	-6.48	10.25
294.00	22.23	64.57	0.225	-6.48	10.24
295.00	21.98	64.82	0.225	-6.48	10.26
296.00	21.38	65.42	0.225	-6.48	10.30
297.00	21.48	65.32	0.225	-6.48	10.29
298.00	22.00	64.80	0.225	-6.48	10.26
299.00	22.23	64.57	0.225	-6.48	10.24
300.00	23.00	63.80	0.225	-6.48	10.19
301.00	24.01	62.79	0.225	-6.48	10.12
302.00	24.71	62.09	0.225	-6.48	10.06
303.00	24.95	61.85	0.225	-6.48	10.05
304.00	25.80	61.00	0.225	-6.48	9.99
305.00	26.29	60.51	0.225	-6.48	9.95
306.00	26.94	59.86	0.225	-6.48	9.90
307.00	26.69	60.11	0.225	-6.48	9.92
308.00	26.72	60.08	0.225	-6.48	9.92
309.00	27.05	59.75	0.225	-6.48	9.89
310.00	26.95	59.85	0.225	-6.48	9.90
311.00	26.88	59.92	0.225	-6.48	9.91
312.00	26.65	60.15	0.225	-6.48	9.92
313.00	26.32	60.48	0.225	-6.48	9.95
314.00	26.02	60.78	0.225	-6.48	9.97
315.00	26.10	60.70	0.225	-6.48	9.96

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 60.0 dBu F(50,50) (km)
316.00	26.12	60.68	0.225	-6.48	9.96
317.00	26.16	60.64	0.225	-6.48	9.96
318.00	26.00	60.80	0.225	-6.48	9.97
319.00	25.92	60.88	0.225	-6.48	9.98
320.00	26.25	60.55	0.225	-6.48	9.95
321.00	26.68	60.12	0.225	-6.48	9.92
322.00	26.35	60.45	0.225	-6.48	9.95
323.00	27.04	59.76	0.225	-6.48	9.89
324.00	27.40	59.40	0.225	-6.48	9.87
325.00	27.28	59.52	0.225	-6.48	9.88
326.00	28.59	58.21	0.225	-6.48	9.77
327.00	29.97	56.83	0.225	-6.48	9.66
328.00	30.31	56.49	0.225	-6.48	9.63
329.00	30.18	56.62	0.225	-6.48	9.64
330.00	29.85	56.95	0.225	-6.48	9.67
331.00	30.11	56.69	0.225	-6.48	9.65
332.00	30.16	56.64	0.225	-6.48	9.64
333.00	29.77	57.03	0.225	-6.48	9.68
334.00	29.58	57.22	0.225	-6.48	9.69
335.00	29.26	57.54	0.225	-6.48	9.72
336.00	29.45	57.35	0.225	-6.48	9.70
337.00	29.37	57.43	0.225	-6.48	9.71
338.00	29.30	57.50	0.225	-6.48	9.72
339.00	29.28	57.52	0.225	-6.48	9.72
340.00	29.07	57.73	0.225	-6.48	9.73
341.00	28.64	58.16	0.225	-6.48	9.77
342.00	28.99	57.81	0.225	-6.48	9.74
343.00	29.95	56.85	0.225	-6.48	9.66
344.00	30.67	56.13	0.225	-6.48	9.60
345.00	30.81	55.99	0.225	-6.48	9.59
346.00	32.01	54.79	0.225	-6.48	9.48
347.00	32.56	54.24	0.225	-6.48	9.43
348.00	33.08	53.72	0.225	-6.48	9.38
349.00	33.61	53.19	0.225	-6.48	9.33
350.00	33.82	52.98	0.225	-6.48	9.31
351.00	34.91	51.89	0.225	-6.48	9.21
352.00	35.04	51.76	0.225	-6.48	9.19
353.00	35.66	51.14	0.225	-6.48	9.13
354.00	35.99	50.81	0.225	-6.48	9.10
355.00	36.58	50.22	0.225	-6.48	9.04
356.00	36.79	50.01	0.225	-6.48	9.02
357.00	36.71	50.09	0.225	-6.48	9.03
358.00	37.15	49.65	0.225	-6.48	8.98
359.00	36.94	49.86	0.225	-6.48	9.00

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Radiation Center (AGL):	80.8 meters	265.1 feet
Radiation Center (AMSL):	86.8 meters	284.8 feet
Radiation Center (HAAT):	75.3 meters	247.0 feet
Average Terrain (AMSL):	11.5 meters	37.8 feet
Ground AMSL:	6.0 meters	19.7 feet

Peak ERP:	0.2 KW
Frequency:	101 MHz
Antenna:	
Orientation:	0.00°
Downtilt:	0.00°

Area within 60.0 dBu F(50,50) Contour is 378.223 km