

Distance to FM Contour

Study: \_Johnson Farm 350ft 63KW  
Site: Johnson Farm site

Latitude: N45-20-48.50  
Longitude: W89-38-53.50

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 60.0 dBu F(50,50) (km)
0.00	449.18	181.82	63.00	17.99	57.84
1.00	451.37	179.63	63.00	17.99	57.64
2.00	454.79	176.21	63.00	17.99	57.31
3.00	456.41	174.59	63.00	17.99	57.15
4.00	456.73	174.27	63.00	17.99	57.12
5.00	456.13	174.87	63.00	17.99	57.18
6.00	457.79	173.21	63.00	17.99	57.01
7.00	460.85	170.15	63.00	17.99	56.69
8.00	463.05	167.95	63.00	17.99	56.45
9.00	464.23	166.77	63.00	17.99	56.32
10.00	462.55	168.45	63.00	17.99	56.50
11.00	461.36	169.64	61.5631	17.89	56.43
12.00	460.67	170.33	60.159	17.79	56.29
13.00	460.31	170.69	58.7869	17.69	56.12
14.00	459.96	171.04	57.4461	17.59	55.96
15.00	460.22	170.78	56.1359	17.49	55.72
16.00	460.72	170.28	54.8555	17.39	55.46
17.00	461.27	169.73	53.6044	17.29	55.20
18.00	461.65	169.35	52.3818	17.19	54.95
19.00	462.04	168.96	51.1871	17.09	54.70
20.00	462.30	168.70	50.0196	16.99	54.47
21.00	462.57	168.43	48.8788	16.89	54.23
22.00	463.01	167.99	47.764	16.79	53.98
23.00	463.40	167.60	46.6746	16.69	53.73
24.00	463.72	167.28	45.6101	16.59	53.49
25.00	464.54	166.46	44.5698	16.49	53.20
26.00	465.42	165.58	43.5532	16.39	52.89
27.00	466.41	164.59	42.5599	16.29	52.57
28.00	467.27	163.73	41.5892	16.19	52.27
29.00	468.30	162.70	40.6406	16.09	51.94
30.00	469.61	161.39	39.7137	15.99	51.58
31.00	471.70	159.30	38.8142	15.89	51.12
32.00	474.49	156.51	37.935	15.79	50.57
33.00	478.79	152.21	37.0758	15.69	49.81
34.00	483.31	147.69	36.236	15.59	49.00
35.00	485.36	145.64	35.4153	15.49	48.51
36.00	485.43	145.57	34.6131	15.39	48.29
37.00	486.60	144.40	33.8291	15.29	47.92
38.00	488.41	142.59	33.0629	15.19	47.47
39.00	489.90	141.10	32.314	15.09	47.05

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	491.93	139.07	31.5821	14.99	46.57
41.00	493.54	137.46	30.8632	14.89	46.14
42.00	494.67	136.33	30.1606	14.79	45.79
43.00	496.31	134.69	29.4741	14.69	45.36
44.00	499.56	131.44	28.8032	14.59	44.72
45.00	503.05	127.95	28.1475	14.49	44.05
46.00	504.34	126.66	27.5068	14.39	43.69
47.00	505.22	125.78	26.8807	14.29	43.38
48.00	509.08	121.92	26.2688	14.19	42.69
49.00	510.48	120.52	25.6709	14.09	42.32
50.00	511.67	119.33	25.0865	13.99	41.97
51.00	513.46	117.54	24.5121	13.89	41.54
52.00	513.52	117.48	23.9508	13.79	41.35
53.00	514.41	116.59	23.4024	13.69	41.04
54.00	516.27	114.73	22.8665	13.59	40.60
55.00	517.50	113.50	22.343	13.49	40.24
56.00	516.18	114.82	21.8313	13.39	40.24
57.00	514.67	116.33	21.3315	13.29	40.25
58.00	514.98	116.02	20.843	13.19	40.03
59.00	514.90	116.10	20.3658	13.09	39.85
60.00	515.25	115.75	19.8994	12.99	39.62
61.00	516.49	114.51	19.4474	12.89	39.26
62.00	516.08	114.92	19.0056	12.79	39.14
63.00	514.60	116.40	18.5738	12.69	39.15
64.00	513.67	117.33	18.1518	12.59	39.09
65.00	512.38	118.62	17.7395	12.49	39.07
66.00	508.39	122.61	17.3365	12.39	39.38
67.00	504.45	126.55	16.9426	12.29	39.68
68.00	502.00	129.00	16.5577	12.19	39.79
69.00	500.53	130.47	16.1816	12.09	39.79
70.00	498.69	132.31	15.814	11.99	39.83
71.00	496.80	134.20	15.4572	11.89	39.88
72.00	495.06	135.94	15.1085	11.79	39.91
73.00	491.91	139.09	14.7676	11.69	40.12
74.00	489.86	141.14	14.4345	11.59	40.19
75.00	488.53	142.47	14.1088	11.49	40.17
76.00	486.58	144.42	13.7905	11.40	40.22
77.00	482.94	148.06	13.4794	11.30	40.48
78.00	479.97	151.03	13.1753	11.20	40.66
79.00	477.81	153.19	12.8781	11.10	40.73
80.00	476.71	154.29	12.5875	11.00	40.67
81.00	475.15	155.85	12.2987	10.90	40.66
82.00	473.44	157.56	12.0166	10.80	40.67
83.00	472.14	158.86	11.7409	10.70	40.63
84.00	469.89	161.11	11.4715	10.60	40.69
85.00	467.07	163.93	11.2083	10.50	40.81

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	465.23	165.77	10.9512	10.39	40.82
87.00	463.66	167.34	10.6999	10.29	40.79
88.00	461.86	169.14	10.4544	10.19	40.79
89.00	459.84	171.16	10.2146	10.09	40.80
90.00	458.51	172.49	9.98023	9.99	40.74
91.00	456.95	174.05	9.74901	9.89	40.70
92.00	455.65	175.35	9.52315	9.79	40.62
93.00	454.45	176.55	9.30252	9.69	40.54
94.00	453.47	177.53	9.087	9.58	40.43
95.00	452.39	178.61	8.87647	9.48	40.33
96.00	451.98	179.02	8.67083	9.38	40.17
97.00	451.58	179.42	8.46994	9.28	40.01
98.00	451.56	179.44	8.27371	9.18	39.82
99.00	451.50	179.50	8.08203	9.08	39.63
100.00	451.44	179.56	7.89479	8.97	39.44
101.00	451.16	179.84	7.54381	8.78	39.08
102.00	451.09	179.91	7.20843	8.58	38.71
103.00	450.71	180.29	6.88796	8.38	38.37
104.00	450.16	180.84	6.58174	8.18	38.04
105.00	450.14	180.86	6.28913	7.99	37.66
106.00	450.07	180.93	6.00953	7.79	37.29
107.00	450.21	180.79	5.74236	7.59	36.91
108.00	450.20	180.80	5.48707	7.39	36.53
109.00	450.50	180.50	5.24313	7.20	36.13
110.00	450.85	180.15	5.01003	7.00	35.73
111.00	451.31	179.69	4.90242	6.90	35.51
112.00	451.67	179.33	4.79712	6.81	35.30
113.00	452.06	178.94	4.69408	6.72	35.08
114.00	452.32	178.68	4.59326	6.62	34.88
115.00	452.80	178.20	4.4946	6.53	34.66
116.00	453.48	177.52	4.39805	6.43	34.42
117.00	453.58	177.42	4.30359	6.34	34.23
118.00	454.05	176.95	4.21115	6.24	34.01
119.00	454.40	176.60	4.1207	6.15	33.80
120.00	454.56	176.44	4.03219	6.06	33.61
121.00	454.29	176.71	4.02578	6.05	33.62
122.00	454.64	176.36	4.01939	6.04	33.57
123.00	454.92	176.08	4.01301	6.03	33.53
124.00	455.40	175.60	4.00664	6.03	33.48
125.00	455.69	175.31	4.00028	6.02	33.43
126.00	455.84	175.16	3.99393	6.01	33.41
127.00	456.14	174.86	3.98759	6.01	33.37
128.00	456.19	174.81	3.98126	6.00	33.35
129.00	455.47	175.53	3.97494	5.99	33.40
130.00	454.76	176.24	3.96863	5.99	33.46
131.00	454.18	176.82	4.01505	6.04	33.61

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	454.26	176.74	4.06201	6.09	33.69
133.00	454.28	176.72	4.10951	6.14	33.79
134.00	454.15	176.85	4.15758	6.19	33.90
135.00	454.15	176.85	4.20621	6.24	33.99
136.00	454.36	176.64	4.2554	6.29	34.07
137.00	454.21	176.79	4.30517	6.34	34.18
138.00	454.26	176.74	4.35553	6.39	34.27
139.00	453.94	177.06	4.40647	6.44	34.39
140.00	453.99	177.01	4.45801	6.49	34.48
141.00	454.12	176.88	4.61424	6.64	34.76
142.00	455.11	175.89	4.77596	6.79	34.95
143.00	456.74	174.26	4.94334	6.94	35.08
144.00	457.13	173.87	5.11659	7.09	35.32
145.00	457.15	173.85	5.29591	7.24	35.60
146.00	457.52	173.48	5.48151	7.39	35.85
147.00	458.76	172.24	5.67362	7.54	36.02
148.00	458.49	172.51	5.87247	7.69	36.33
149.00	458.23	172.77	6.07828	7.84	36.64
150.00	457.86	173.14	6.2913	7.99	36.96
151.00	457.44	173.56	6.51389	8.14	37.29
152.00	455.62	175.38	6.74436	8.29	37.75
153.00	454.48	176.52	6.98298	8.44	38.14
154.00	453.68	177.32	7.23004	8.59	38.51
155.00	453.14	177.86	7.48584	8.74	38.84
156.00	451.79	179.21	7.75069	8.89	39.25
157.00	449.18	181.82	8.02492	9.04	39.77
158.00	448.25	182.75	8.30884	9.20	40.13
159.00	446.84	184.16	8.60281	9.35	40.54
160.00	447.00	184.00	8.90719	9.50	40.82
161.00	447.55	183.45	9.32547	9.70	41.16
162.00	447.95	183.05	9.76339	9.90	41.51
163.00	446.08	184.92	10.2219	10.10	42.05
164.00	444.38	186.62	10.7019	10.29	42.57
165.00	443.51	187.49	11.2045	10.49	43.03
166.00	442.37	188.63	11.7306	10.69	43.51
167.00	440.84	190.16	12.2815	10.89	44.02
168.00	439.67	191.33	12.8582	11.09	44.51
169.00	439.67	191.33	13.462	11.29	44.90
170.00	439.62	191.38	14.0942	11.49	45.30
171.00	437.81	193.19	14.7411	11.69	45.83
172.00	436.17	194.83	15.4177	11.88	46.36
173.00	434.60	196.40	16.1254	12.08	46.88
174.00	433.75	197.25	16.8656	12.27	47.34
175.00	432.73	198.27	17.6397	12.46	47.83
176.00	431.19	199.81	18.4493	12.66	48.36
177.00	429.74	201.26	19.2961	12.85	48.88

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	427.78	203.22	20.1818	13.05	49.44
179.00	425.78	205.22	21.1082	13.24	50.01
180.00	424.70	206.30	22.077	13.44	50.50
181.00	425.09	205.91	23.0909	13.63	50.88
182.00	425.68	205.32	24.1513	13.83	51.23
183.00	425.47	205.53	25.2604	14.02	51.66
184.00	424.64	206.36	26.4205	14.22	52.13
185.00	424.29	206.71	27.6338	14.41	52.56
186.00	423.83	207.17	28.9028	14.61	53.00
187.00	424.02	206.98	30.2302	14.80	53.39
188.00	423.80	207.20	31.6184	15.00	53.82
189.00	424.26	206.74	33.0705	15.19	54.18
190.00	425.47	205.53	34.5892	15.39	54.49
191.00	426.26	204.74	36.1818	15.58	54.83
192.00	426.13	204.87	37.8478	15.78	55.25
193.00	425.87	205.13	39.5905	15.98	55.68
194.00	425.83	205.17	41.4134	16.17	56.09
195.00	425.99	205.01	43.3202	16.37	56.48
196.00	426.00	205.00	45.3148	16.56	56.89
197.00	426.47	204.53	47.4013	16.76	57.26
198.00	426.94	204.06	49.5839	16.95	57.63
199.00	427.46	203.54	51.8669	17.15	57.99
200.00	427.58	203.42	54.2551	17.34	58.40
201.00	426.90	204.10	55.072	17.41	58.59
202.00	426.82	204.18	55.9011	17.47	58.74
203.00	426.40	204.60	56.7428	17.54	58.91
204.00	426.42	204.58	57.5971	17.60	59.05
205.00	426.93	204.07	58.4643	17.67	59.14
206.00	426.82	204.18	59.3445	17.73	59.29
207.00	427.13	203.87	60.238	17.80	59.40
208.00	427.63	203.37	61.1449	17.86	59.49
209.00	428.29	202.71	62.0655	17.93	59.57
210.00	428.97	202.03	63.00	17.99	59.65
211.00	430.08	200.92	63.00	17.99	59.55
212.00	432.32	198.68	63.00	17.99	59.35
213.00	433.94	197.06	63.00	17.99	59.20
214.00	433.92	197.08	63.00	17.99	59.20
215.00	433.71	197.29	63.00	17.99	59.22
216.00	433.63	197.37	63.00	17.99	59.23
217.00	433.66	197.34	63.00	17.99	59.22
218.00	434.03	196.97	63.00	17.99	59.19
219.00	434.42	196.58	63.00	17.99	59.16
220.00	434.89	196.11	63.00	17.99	59.11
221.00	436.32	194.68	63.00	17.99	58.99
222.00	438.00	193.00	63.00	17.99	58.83
223.00	439.72	191.28	63.00	17.99	58.68

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	443.01	187.99	63.00	17.99	58.39
225.00	447.23	183.77	63.00	17.99	58.01
226.00	448.39	182.61	63.00	17.99	57.91
227.00	445.57	185.43	63.00	17.99	58.16
228.00	442.43	188.57	63.00	17.99	58.44
229.00	439.42	191.58	63.00	17.99	58.71
230.00	437.00	194.00	63.00	17.99	58.92
231.00	435.86	195.14	63.00	17.99	59.03
232.00	435.35	195.65	63.00	17.99	59.07
233.00	435.11	195.89	63.00	17.99	59.09
234.00	435.20	195.80	63.00	17.99	59.09
235.00	435.57	195.43	63.00	17.99	59.05
236.00	436.63	194.37	63.00	17.99	58.96
237.00	438.07	192.93	63.00	17.99	58.83
238.00	438.84	192.16	63.00	17.99	58.76
239.00	439.15	191.85	63.00	17.99	58.73
240.00	439.42	191.58	63.00	17.99	58.71
241.00	439.65	191.35	63.00	17.99	58.69
242.00	440.19	190.81	63.00	17.99	58.64
243.00	442.35	188.65	63.00	17.99	58.45
244.00	443.94	187.06	63.00	17.99	58.30
245.00	445.17	185.83	63.00	17.99	58.19
246.00	446.48	184.52	63.00	17.99	58.08
247.00	447.46	183.54	63.00	17.99	57.99
248.00	448.44	182.56	63.00	17.99	57.90
249.00	449.89	181.11	63.00	17.99	57.77
250.00	451.05	179.95	63.00	17.99	57.67
251.00	452.48	178.52	63.00	17.99	57.53
252.00	453.46	177.54	63.00	17.99	57.44
253.00	453.62	177.38	63.00	17.99	57.42
254.00	452.98	178.02	63.00	17.99	57.49
255.00	452.04	178.96	63.00	17.99	57.57
256.00	452.05	178.95	63.00	17.99	57.57
257.00	452.32	178.68	63.00	17.99	57.55
258.00	452.44	178.56	63.00	17.99	57.54
259.00	452.40	178.60	63.00	17.99	57.54
260.00	452.50	178.50	63.00	17.99	57.53
261.00	452.52	178.48	63.00	17.99	57.53
262.00	452.55	178.45	63.00	17.99	57.53
263.00	452.41	178.59	63.00	17.99	57.54
264.00	452.27	178.73	63.00	17.99	57.55
265.00	452.09	178.91	63.00	17.99	57.57
266.00	450.96	180.04	63.00	17.99	57.68
267.00	450.05	180.95	63.00	17.99	57.76
268.00	448.81	182.19	63.00	17.99	57.87
269.00	448.12	182.88	63.00	17.99	57.93

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	447.56	183.44	63.00	17.99	57.98
271.00	447.75	183.25	63.00	17.99	57.97
272.00	448.34	182.66	63.00	17.99	57.91
273.00	448.55	182.45	63.00	17.99	57.89
274.00	447.91	183.09	63.00	17.99	57.95
275.00	447.48	183.52	63.00	17.99	57.99
276.00	447.10	183.90	63.00	17.99	58.02
277.00	446.75	184.25	63.00	17.99	58.05
278.00	446.44	184.56	63.00	17.99	58.08
279.00	446.32	184.68	63.00	17.99	58.09
280.00	446.25	184.75	63.00	17.99	58.10
281.00	446.41	184.59	63.00	17.99	58.08
282.00	446.69	184.31	63.00	17.99	58.06
283.00	446.71	184.29	63.00	17.99	58.06
284.00	446.48	184.52	63.00	17.99	58.08
285.00	446.50	184.50	63.00	17.99	58.08
286.00	447.03	183.97	63.00	17.99	58.03
287.00	446.97	184.03	63.00	17.99	58.03
288.00	447.43	183.57	63.00	17.99	57.99
289.00	447.91	183.09	63.00	17.99	57.95
290.00	448.90	182.10	63.00	17.99	57.86
291.00	449.68	181.32	63.00	17.99	57.79
292.00	450.20	180.80	63.00	17.99	57.75
293.00	451.02	179.98	63.00	17.99	57.67
294.00	451.36	179.64	63.00	17.99	57.64
295.00	451.21	179.79	63.00	17.99	57.65
296.00	451.09	179.91	63.00	17.99	57.66
297.00	450.54	180.46	63.00	17.99	57.71
298.00	449.61	181.39	63.00	17.99	57.80
299.00	448.62	182.38	63.00	17.99	57.89
300.00	447.61	183.39	63.00	17.99	57.98
301.00	446.92	184.08	63.00	17.99	58.04
302.00	446.45	184.55	63.00	17.99	58.08
303.00	446.53	184.47	63.00	17.99	58.07
304.00	446.42	184.58	63.00	17.99	58.08
305.00	445.93	185.07	63.00	17.99	58.13
306.00	446.02	184.98	63.00	17.99	58.12
307.00	446.35	184.65	63.00	17.99	58.09
308.00	446.80	184.20	63.00	17.99	58.05
309.00	447.39	183.61	63.00	17.99	58.00
310.00	447.88	183.12	63.00	17.99	57.95
311.00	447.75	183.25	63.00	17.99	57.97
312.00	446.81	184.19	63.00	17.99	58.05
313.00	445.40	185.60	63.00	17.99	58.17
314.00	444.16	186.84	63.00	17.99	58.28
315.00	443.06	187.94	63.00	17.99	58.38

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	442.33	188.67	63.00	17.99	58.45
317.00	442.24	188.76	63.00	17.99	58.46
318.00	441.48	189.52	63.00	17.99	58.52
319.00	441.19	189.81	63.00	17.99	58.55
320.00	441.25	189.75	63.00	17.99	58.54
321.00	441.60	189.40	63.00	17.99	58.51
322.00	442.29	188.71	63.00	17.99	58.45
323.00	443.25	187.75	63.00	17.99	58.37
324.00	443.90	187.10	63.00	17.99	58.31
325.00	443.88	187.12	63.00	17.99	58.31
326.00	443.43	187.57	63.00	17.99	58.35
327.00	442.79	188.21	63.00	17.99	58.41
328.00	442.32	188.68	63.00	17.99	58.45
329.00	441.75	189.25	63.00	17.99	58.50
330.00	441.13	189.87	63.00	17.99	58.55
331.00	440.88	190.12	63.00	17.99	58.58
332.00	441.51	189.49	63.00	17.99	58.52
333.00	442.01	188.99	63.00	17.99	58.48
334.00	443.25	187.75	63.00	17.99	58.37
335.00	444.31	186.69	63.00	17.99	58.27
336.00	444.52	186.48	63.00	17.99	58.25
337.00	444.95	186.05	63.00	17.99	58.21
338.00	445.67	185.33	63.00	17.99	58.15
339.00	446.39	184.61	63.00	17.99	58.09
340.00	447.24	183.76	63.00	17.99	58.01
341.00	447.30	183.70	63.00	17.99	58.01
342.00	446.61	184.39	63.00	17.99	58.07
343.00	446.08	184.92	63.00	17.99	58.11
344.00	445.92	185.08	63.00	17.99	58.13
345.00	446.05	184.95	63.00	17.99	58.12
346.00	445.89	185.11	63.00	17.99	58.13
347.00	445.62	185.38	63.00	17.99	58.15
348.00	445.62	185.38	63.00	17.99	58.15
349.00	445.73	185.27	63.00	17.99	58.14
350.00	446.17	184.83	63.00	17.99	58.11
351.00	446.59	184.41	63.00	17.99	58.07
352.00	446.00	185.00	63.00	17.99	58.12
353.00	445.92	185.08	63.00	17.99	58.13
354.00	445.45	185.55	63.00	17.99	58.17
355.00	444.78	186.22	63.00	17.99	58.23
356.00	444.67	186.33	63.00	17.99	58.24
357.00	445.51	185.49	63.00	17.99	58.16
358.00	446.70	184.30	63.00	17.99	58.06
359.00	447.51	183.49	63.00	17.99	57.99



Radiation Center (AGL):	107.0 meters	351.0 feet
Radiation Center (AMSL):	631.0 meters	2070.2 feet
Radiation Center (HAAT):	176.8 meters	580.1 feet
Average Terrain (AMSL):	454.2 meters	1490.1 feet
Ground AMSL:	524.0 meters	1719.2 feet

Peak ERP:	63.0 KW
Frequency:	88.1 MHz
Antenna:	
Orientation:	0.00°
Downtilt:	0.00°

Area within 60.0 dBu F(50,50) Contour is 8179.92 km