

Joel J. Kinlow

W G L B ( A M ), 1560 KHz, Elm Grove, Wisconsin  
FCC Form 301 Section III-A #7 Supporting Exhibit 13  
Distance-to-Contour Tables, November 2014

Mueller Broadcast Design

613 S. La Grange Road  
La Grange, Illinois 60525  
(708) 352-2166

**Daytime Distance-To-Contour in Kilometers**

<b>Bearing</b>	<b>IDF mv/m/km</b>	<b>0.025 mv/m</b>	<b>0.25 mv/m</b>	<b>0.5 mv/m</b>	<b>2 mv/m</b>	<b>5 mv/m</b>	<b>25 mv/m</b>	<b>1000 mv/m</b>
0°	224.70	178.58	76.60	57.96	31.45	19.40	6.53	0.22
5°	236.35	180.76	78.16	59.17	32.23	19.97	6.79	0.23
10°	256.22	183.47	80.65	61.11	33.50	20.89	7.22	0.25
15°	284.40	180.97	84.07	63.77	35.18	22.14	7.82	0.28
20°	320.60	170.49	73.98	57.90	36.40	23.62	8.54	0.31
25°	364.12	173.25	73.79	56.82	34.70	25.28	9.37	0.35
30°	413.81	180.20	76.84	58.94	35.64	25.79	10.26	0.40
35°	468.11	186.99	79.95	61.10	36.56	26.28	11.18	0.45
40°	525.03	193.72	83.29	63.50	37.75	27.03	12.08	0.51
45°	582.28	195.94	86.00	65.39	38.51	27.38	12.94	0.56
50°	637.26	193.98	88.75	67.36	39.41	27.90	13.72	0.61
55°	687.27	195.83	91.21	69.19	40.35	28.52	14.40	0.66
60°	729.61	192.55	93.10	70.55	40.95	28.87	14.96	0.70
65°	761.79	194.14	94.59	71.66	41.52	29.21	15.28	0.72
70°	781.69	195.10	95.33	72.18	41.70	29.27	15.22	0.74
75°	787.79	197.99	95.54	72.32	41.75	29.28	15.19	0.75
80°	779.34	199.14	95.03	71.91	41.47	29.05	15.02	0.74
85°	756.47	199.12	93.66	70.80	40.74	28.46	14.57	0.72
90°	720.31	197.65	91.82	69.38	39.94	27.92	14.25	0.69
95°	672.99	193.55	89.36	67.52	38.93	27.18	13.84	0.64
100°	617.60	187.67	86.64	65.52	37.93	26.57	13.44	0.59
105°	558.12	183.85	83.47	63.19	36.77	25.80	12.58	0.54
110°	499.27	179.62	80.32	60.93	35.72	25.21	11.67	0.48
115°	446.21	175.66	77.13	58.64	34.58	24.47	10.81	0.43
120°	404.00	169.77	70.61	52.88	29.80	20.03	7.91	0.38
125°	376.42	167.08	68.88	51.67	29.24	19.64	7.56	0.36
130°	364.61	166.81	68.17	51.19	29.06	19.22	7.41	0.35
135°	366.54	168.60	68.96	51.94	29.75	19.29	7.43	0.35
140°	378.07	171.58	71.26	54.02	31.20	19.70	7.58	0.36
145°	394.88	177.94	76.01	58.46	34.76	20.29	6.27	0.38
150°	413.68	181.79	78.44	60.55	35.61	20.93	6.44	0.39
155°	432.53	185.74	81.10	62.85	36.44	21.54	6.61	0.41
160°	450.63	186.70	80.85	62.29	31.89	16.80	6.77	0.43
165°	467.94	193.41	86.38	66.42	32.61	17.34	6.91	0.44
170°	484.87	202.97	91.19	67.52	33.29	17.85	7.05	0.46
175°	501.98	208.69	92.32	68.59	33.95	18.35	7.20	0.47

**Daytime Distance-To-Contour in Kilometers**

<u>Bearing</u>	<u>IDF</u> <u>mv/m/km</u>	<u>0.025 mv/m</u>	<u>0.25</u> <u>mv/m</u>	<u>0.5</u> <u>mv/m</u>	<u>2 mv/m</u>	<u>5 mv/m</u>	<u>25 mv/m</u>	<u>1000</u> <u>mv/m</u>
180°	519.85	211.85	93.04	69.68	34.64	18.87	7.34	0.49
185°	538.90	210.21	92.61	70.86	35.37	19.41	7.49	0.51
190°	559.28	202.04	87.46	67.17	36.12	19.97	7.64	0.52
195°	580.85	195.34	81.91	61.32	34.46	20.55	8.57	0.54
200°	603.12	195.08	80.54	59.62	32.31	21.06	8.75	0.56
205°	625.26	197.63	82.04	60.81	33.08	21.66	8.93	0.58
210°	646.11	199.08	82.54	61.03	32.92	21.34	9.09	0.60
215°	664.24	200.86	83.51	61.78	33.34	21.64	9.23	0.62
220°	678.04	206.31	88.36	66.46	37.78	26.00	12.62	0.65
225°	685.84	206.53	88.24	66.24	37.43	25.60	12.17	0.66
230°	686.06	202.94	84.65	62.65	33.83	22.00	8.57	0.64
235°	677.32	202.12	84.20	62.31	33.63	21.86	8.49	0.63
240°	658.69	200.33	83.22	61.56	33.21	21.56	8.36	0.61
245°	629.84	197.45	81.65	60.36	32.54	21.08	8.16	0.59
250°	591.16	196.61	82.65	61.89	34.84	23.65	10.90	0.57
255°	543.97	191.30	79.83	59.76	33.61	22.75	10.37	0.52
260°	490.60	184.91	76.44	57.20	32.19	21.73	9.80	0.47
265°	434.49	177.43	72.65	54.36	30.56	20.56	9.13	0.42
270°	380.24	169.10	68.72	51.43	28.90	19.35	8.47	0.37
275°	333.38	161.02	64.19	47.85	26.49	17.35	6.99	0.32
280°	299.55	154.95	61.32	45.70	25.27	16.46	6.52	0.28
285°	282.24	151.76	59.81	44.60	24.61	15.98	6.27	0.27
290°	280.42	150.60	59.64	44.48	24.54	15.92	6.24	0.27
295°	288.73	152.36	61.39	46.04	25.88	17.18	7.38	0.28
300°	300.54	154.02	62.42	46.79	26.32	17.50	7.55	0.29
305°	310.55	155.53	63.43	47.57	26.80	17.89	7.82	0.30
310°	315.62	156.53	64.01	48.04	27.14	18.18	8.04	0.31
315°	314.50	156.65	63.92	47.97	27.10	18.15	8.03	0.31
320°	307.30	156.80	63.67	47.88	27.21	18.33	8.28	0.30
325°	295.10	156.02	62.80	47.30	26.98	18.21	8.04	0.29
330°	279.58	153.29	61.68	46.52	26.61	18.00	7.72	0.27
335°	262.70	150.64	60.88	46.12	26.67	18.26	7.37	0.26
340°	246.52	147.98	60.12	45.77	26.82	18.58	7.01	0.24
345°	233.03	161.13	60.26	46.25	27.69	19.60	6.72	0.23
350°	223.99	175.53	76.50	57.89	31.41	19.36	6.51	0.22
355°	220.84	176.89	76.06	57.55	31.19	19.20	6.44	0.22

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La Grange, Illinois 60525  
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**Critical Hours Distance-To-Contour in Kilometers**

<u>Bearing</u>	<u>IDF</u> <u>mv/m/km</u>	<u>0.025</u> <u>mv/m</u>	<u>0.25</u> <u>mv/m</u>	<u>0.5</u> <u>mv/m</u>	<u>2 mv/m</u>	<u>5 mv/m</u>	<u>25 mv/m</u>	<u>1000</u> <u>mv/m</u>
0°	255.89	185.39	80.60	61.06	33.47	20.87	7.21	0.25
5°	255.89	184.95	80.60	61.06	33.47	20.87	7.21	0.25
10°	255.89	183.38	80.60	61.06	33.47	20.87	7.21	0.25
15°	255.89	175.17	80.60	61.06	33.47	20.87	7.21	0.25
20°	255.89	158.00	68.21	53.51	33.47	20.87	7.21	0.25
25°	255.89	153.48	64.54	49.95	30.72	20.87	7.21	0.25
30°	255.89	152.85	63.91	49.32	30.08	20.87	7.21	0.25
35°	255.89	152.18	63.24	48.65	29.42	20.87	7.21	0.25
40°	255.89	151.81	62.87	48.28	29.05	20.71	7.21	0.25
45°	255.89	151.13	62.19	47.60	28.37	20.03	7.21	0.25
50°	255.89	150.71	61.77	47.18	27.94	19.61	7.21	0.25
55°	255.89	150.51	61.57	46.98	27.75	19.41	7.21	0.25
60°	255.89	146.79	61.26	46.67	27.43	19.10	7.21	0.25
65°	255.89	146.20	61.13	46.54	27.30	18.96	7.21	0.25
70°	255.89	145.82	60.90	46.31	27.07	18.74	7.21	0.25
75°	255.89	146.06	60.82	46.23	26.99	18.65	7.21	0.25
80°	255.89	146.90	60.71	46.12	26.89	18.55	7.21	0.25
85°	255.89	147.82	60.46	45.87	26.63	18.29	7.21	0.25
90°	255.89	148.88	60.45	45.86	26.62	18.29	7.21	0.25
95°	255.89	149.22	60.46	45.87	26.64	18.30	7.21	0.25
100°	255.89	149.70	60.76	46.17	26.93	18.60	7.21	0.25
105°	255.89	149.98	61.04	46.45	27.22	18.88	7.21	0.25
110°	255.89	150.49	61.55	46.96	27.72	19.39	7.21	0.25
115°	255.89	150.82	61.88	47.29	28.06	19.72	7.21	0.25
120°	255.89	147.30	58.37	43.77	24.54	15.20	5.86	0.25
125°	255.89	147.62	58.68	44.09	24.85	15.20	5.86	0.25
130°	255.89	147.83	58.89	44.30	25.06	15.20	5.86	0.25
135°	255.89	148.46	59.52	44.93	25.69	15.20	5.86	0.25
140°	255.89	149.87	60.94	46.34	26.76	15.20	5.86	0.25
145°	255.89	153.37	64.43	49.84	27.40	11.75	4.81	0.25
150°	255.89	154.46	65.52	50.93	27.40	11.75	4.81	0.25
155°	255.89	155.75	66.82	52.23	27.40	11.75	4.81	0.25
160°	255.89	154.24	65.30	49.66	22.07	11.75	4.81	0.25
165°	255.89	158.61	69.19	49.66	22.07	11.75	4.81	0.25
170°	255.89	165.78	69.19	49.66	22.07	11.75	4.81	0.25
175°	255.89	166.03	69.19	49.66	22.07	11.75	4.81	0.25

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(708) 352-2166

**Critical Hours Distance-To-Contour in Kilometers**

<u>Bearing</u>	<u>IDF</u> <u>mv/m/km</u>	<u>0.025</u> <u>mv/m</u>	<u>0.25</u> <u>mv/m</u>	<u>0.5</u> <u>mv/m</u>	<u>2 mv/m</u>	<u>5 mv/m</u>	<u>25 mv/m</u>	<u>1000</u> <u>mv/m</u>
180°	255.89	164.54	69.19	49.66	22.07	11.75	4.81	0.25
185°	255.89	160.28	69.19	49.66	22.07	11.75	4.81	0.25
190°	255.89	153.91	64.97	49.41	22.07	11.75	4.81	0.25
195°	255.89	147.11	58.17	43.58	22.07	13.00	5.21	0.25
200°	255.89	144.43	55.49	40.90	21.67	13.00	5.21	0.25
205°	255.89	144.67	55.73	41.14	21.90	13.00	5.21	0.25
210°	255.89	144.01	55.07	40.48	21.24	13.00	5.21	0.25
215°	255.89	144.01	55.07	40.48	21.24	13.00	5.21	0.25
220°	255.89	148.14	59.20	44.61	25.37	17.03	7.21	0.25
225°	255.89	147.61	58.67	44.08	24.85	16.51	7.18	0.25
230°	255.89	144.01	55.07	40.48	21.25	12.91	4.81	0.25
235°	255.89	144.01	55.07	40.48	21.25	12.91	4.81	0.25
240°	255.89	144.01	55.07	40.48	21.25	12.91	4.81	0.25
245°	255.89	144.01	55.07	40.48	21.25	12.91	4.81	0.25
250°	255.89	147.24	58.30	43.71	24.47	16.14	6.80	0.25
255°	255.89	147.18	58.24	43.65	24.42	16.08	6.74	0.25
260°	255.89	147.18	58.24	43.65	24.42	16.08	6.74	0.25
265°	255.89	147.16	58.22	43.63	24.39	16.05	6.72	0.25
270°	255.89	147.16	58.22	43.63	24.39	16.05	6.72	0.25
275°	255.89	146.30	57.36	42.77	23.54	15.20	5.86	0.24
280°	255.89	146.30	57.36	42.77	23.54	15.20	5.86	0.24
285°	255.89	146.30	57.36	42.77	23.54	15.20	5.86	0.24
290°	255.89	146.30	57.36	42.77	23.54	15.20	5.86	0.24
295°	255.89	146.91	58.38	43.79	24.56	16.22	6.88	0.25
300°	255.89	146.70	58.38	43.79	24.56	16.22	6.88	0.25
305°	255.89	146.65	58.51	43.92	24.68	16.34	7.01	0.25
310°	255.89	146.88	58.65	44.06	24.83	16.49	7.15	0.25
315°	255.89	147.16	58.65	44.06	24.83	16.49	7.15	0.25
320°	255.89	147.96	59.02	44.43	25.20	16.86	7.21	0.25
325°	255.89	148.17	59.24	44.65	25.41	17.07	7.21	0.25
330°	255.89	148.40	59.46	44.87	25.63	17.30	7.21	0.25
335°	255.89	149.15	60.21	45.62	26.38	18.05	7.21	0.25
340°	255.89	149.97	61.03	46.44	27.20	18.86	7.21	0.25
345°	255.89	166.04	62.95	47.89	28.65	20.31	7.21	0.25
350°	255.89	182.50	80.60	61.06	33.47	20.87	7.21	0.25
355°	255.89	184.61	80.60	61.06	33.47	20.87	7.21	0.25