

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W4CR\_BARBARA-WIDE DIST  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] W4CR-xx-L25-927-xxx-DIM-UNV-W-xxx\_  
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER  
[MORE] WIDE DIST. W/MICROPRISM LENS  
[MORE] 0-10V LED DRIVER

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2434
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3068.406
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3068.406
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.382 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.738 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	942.2	N.A.	38.7
FM - Front-Medium (30-60)	263.0	N.A.	10.8
FH - Front-High (60-80)	11.3	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	942.2	N.A.	38.7
BM - Back-Medium (30-60)	263.0	N.A.	10.8
BH - Back-High (60-80)	11.3	N.A.	0.5
BVH - Back-Very High (80-90)	0.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.4	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2434.6	N.A.	100.0
BUG Rating	B2-U1-G0		

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## CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3063.311	3063.311	3063.311	3063.311	3063.311
1	3058.416	3058.271	3058.753	3062.429	3065.922
2	3061.073	3060.163	3057.125	3063.093	3068.406
3	3058.198	3054.359	3057.179	3055.287	3061.855
4	3053.631	3050.547	3049.228	3052.767	3058.971
5	3049.510	3048.272	3045.516	3048.008	3051.720
6	3040.876	3042.486	3035.199	3040.794	3037.682
7	3028.703	3033.743	3028.029	3027.975	3024.536
8	3017.303	3016.266	3013.882	3014.328	3015.101
9	3002.692	2999.198	2996.360	2997.870	2996.724
10	2975.043	2975.926	2974.124	2972.341	2971.259
11	2940.999	2943.628	2939.998	2941.463	2937.815
12	2901.250	2898.621	2897.538	2901.942	2900.213
13	2849.465	2848.628	2851.039	2855.997	2855.697
14	2796.733	2792.366	2793.822	2795.851	2801.528
15	2731.010	2728.754	2725.215	2733.321	2730.264
16	2660.838	2654.251	2651.412	2657.235	2661.275
17	2582.878	2575.308	2575.800	2575.454	2584.561
18	2497.694	2493.791	2494.455	2489.279	2499.186
19	2407.852	2404.559	2404.195	2405.005	2410.664
20	2316.600	2316.227	2313.871	2315.099	2322.714
21	2228.433	2224.548	2223.529	2226.604	2229.115
22	2132.122	2136.080	2133.541	2136.098	2139.146
23	2043.590	2042.162	2042.025	2044.154	2051.405
24	1951.001	1949.254	1951.237	1955.668	1958.225
25	1857.502	1856.929	1858.639	1864.234	1865.153
26	1761.610	1762.074	1766.186	1770.735	1770.271
27	1656.156	1658.840	1668.120	1672.223	1668.111
28	1547.154	1547.736	1560.610	1564.849	1558.599
29	1429.609	1432.993	1444.348	1447.177	1442.992
30	1305.122	1307.870	1320.088	1322.900	1317.222
31	1170.646	1177.024	1184.884	1190.279	1188.105
32	1036.152	1043.294	1048.379	1054.548	1052.755
33	900.183	904.550	911.829	917.751	917.679
34	764.206	771.958	777.007	785.513	788.343
35	637.536	645.933	648.517	656.860	661.691
36	523.566	529.808	532.373	538.159	546.666
37	421.424	426.310	428.821	433.998	443.105
38	339.261	337.723	342.782	348.195	353.035
39	264.758	269.080	270.299	275.630	282.053
40	208.178	212.500	215.584	220.042	225.874
41	164.354	167.875	171.496	179.902	187.390
42	131.938	134.513	140.581	145.093	149.078
43	110.394	111.358	115.334	120.484	123.677
44	91.179	92.972	96.784	102.351	104.162
45	78.115	79.670	82.991	87.122	88.959
46	68.353	69.626	72.501	75.740	76.968
47	60.820	62.011	64.268	66.888	67.961
48	55.133	56.098	57.835	60.019	61.156
49	50.612	51.421	52.886	54.587	55.652
50	46.918	47.600	48.856	50.248	51.112
51	43.797	44.361	45.508	46.663	47.391
52	40.877	41.395	42.369	43.333	43.916

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	38.229	38.666	39.476	40.258	40.731
54	35.791	36.191	36.874	37.474	37.875
55	33.589	33.890	34.517	34.991	35.291
56	31.451	31.743	32.270	32.671	32.853
57	29.432	29.659	30.087	30.442	30.560
58	27.457	27.649	28.003	28.304	28.404
59	25.538	25.683	25.956	26.238	26.329
60	23.645	23.773	24.009	24.228	24.328
61	21.871	21.971	22.153	22.335	22.390
62	20.216	20.270	20.398	20.552	20.598
63	18.651	18.696	18.778	18.896	18.960
64	17.204	17.241	17.295	17.395	17.459
65	15.903	15.940	15.949	16.021	16.121
66	14.684	14.720	14.711	14.775	14.839
67	13.583	13.610	13.583	13.629	13.683
68	12.564	12.573	12.555	12.555	12.619
69	11.609	11.600	11.573	11.554	11.600
70	10.699	10.681	10.626	10.590	10.626
71	9.817	9.780	9.707	9.653	9.671
72	8.943	8.907	8.825	8.743	8.779
73	8.097	8.033	7.924	7.842	7.888
74	7.224	7.151	7.042	6.951	7.005
75	6.287	6.232	6.114	6.050	6.087
76	5.259	5.213	5.086	5.058	5.077
77	4.094	4.076	3.948	3.930	3.948
78	2.766	2.766	2.666	2.611	2.629
79	1.920	1.938	1.892	1.883	1.856
80	1.738	1.729	1.720	1.710	1.701
81	1.619	1.619	1.619	1.610	1.610
82	1.528	1.519	1.528	1.519	1.519
83	1.419	1.419	1.428	1.419	1.419
84	1.310	1.301	1.319	1.301	1.301
85	1.183	1.174	1.183	1.174	1.174
86	1.037	1.037	1.037	1.028	1.028
87	0.873	0.864	0.873	0.864	0.855
88	0.691	0.682	0.691	0.682	0.673
89	0.500	0.491	0.491	0.473	0.473
90	0.382	0.364	0.364	0.337	0.318
91	0.355	0.337	0.346	0.328	0.318
92	0.355	0.337	0.346	0.318	0.318
93	0.355	0.346	0.346	0.328	0.318
94	0.355	0.346	0.346	0.328	0.328
95	0.364	0.346	0.346	0.328	0.328
96	0.364	0.346	0.346	0.328	0.328
97	0.364	0.355	0.355	0.337	0.337
98	0.364	0.355	0.364	0.337	0.346
99	0.373	0.364	0.364	0.346	0.346
100	0.373	0.364	0.373	0.346	0.355
101	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000

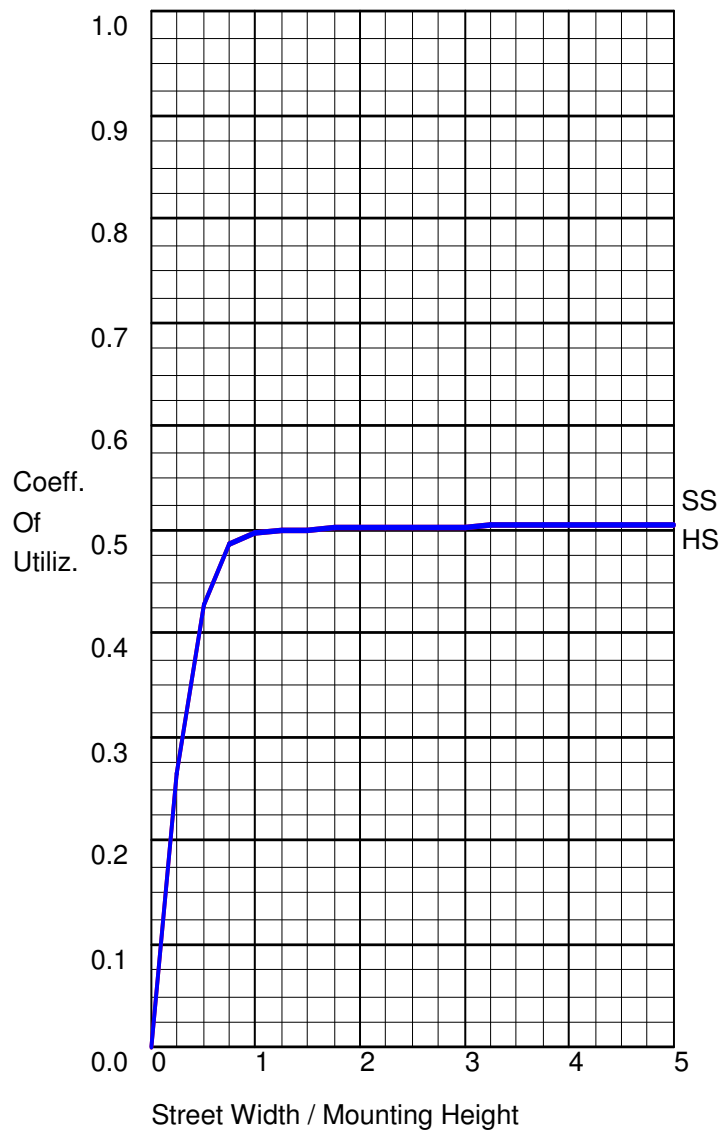
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000
149	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

165	0.000	0.000	0.000	0.000	0.000
166	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

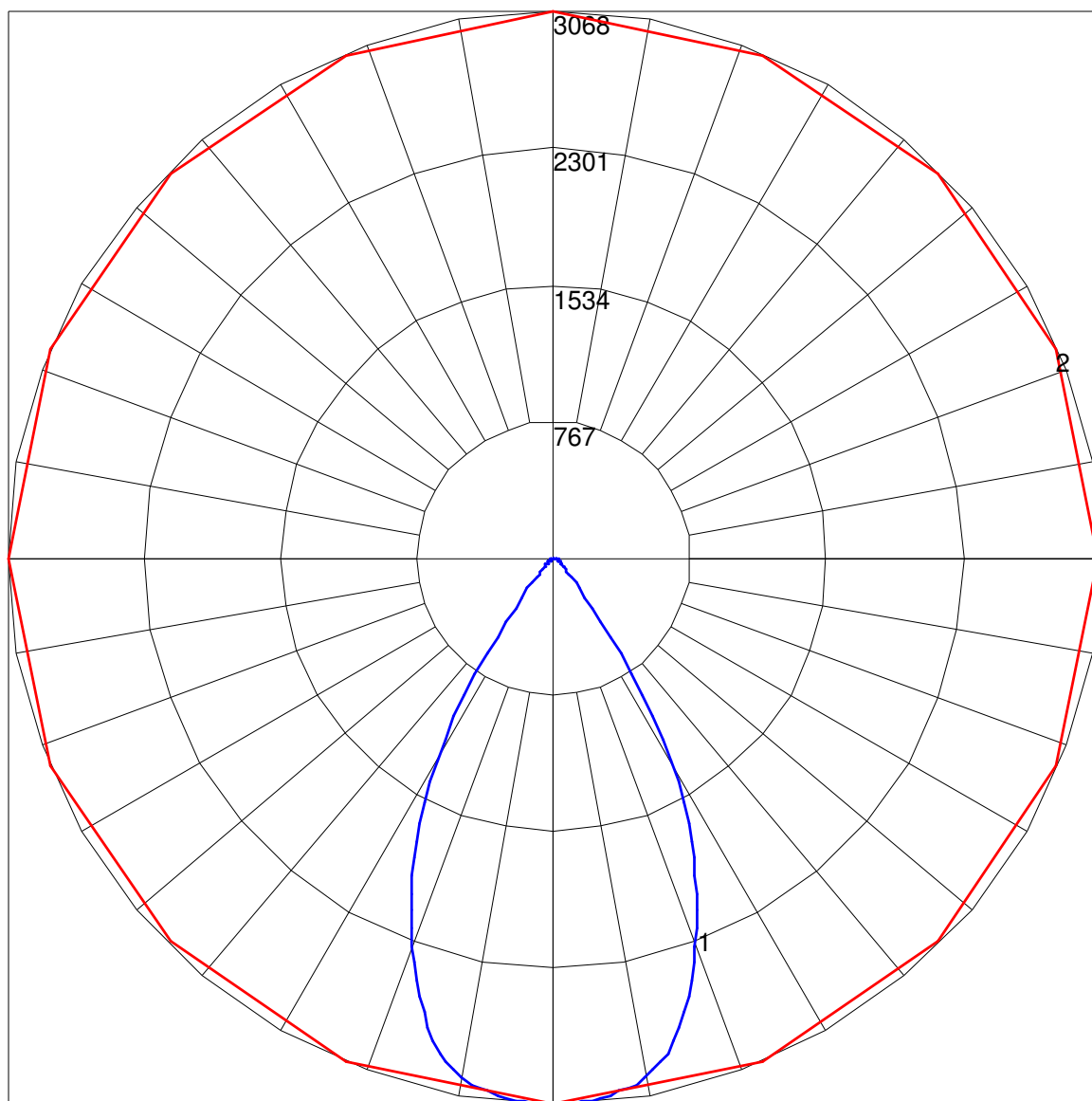
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1217.0	50.0
Downward House Side	1217.0	50.0
Downward Total	2434.0	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2434.4	100.0

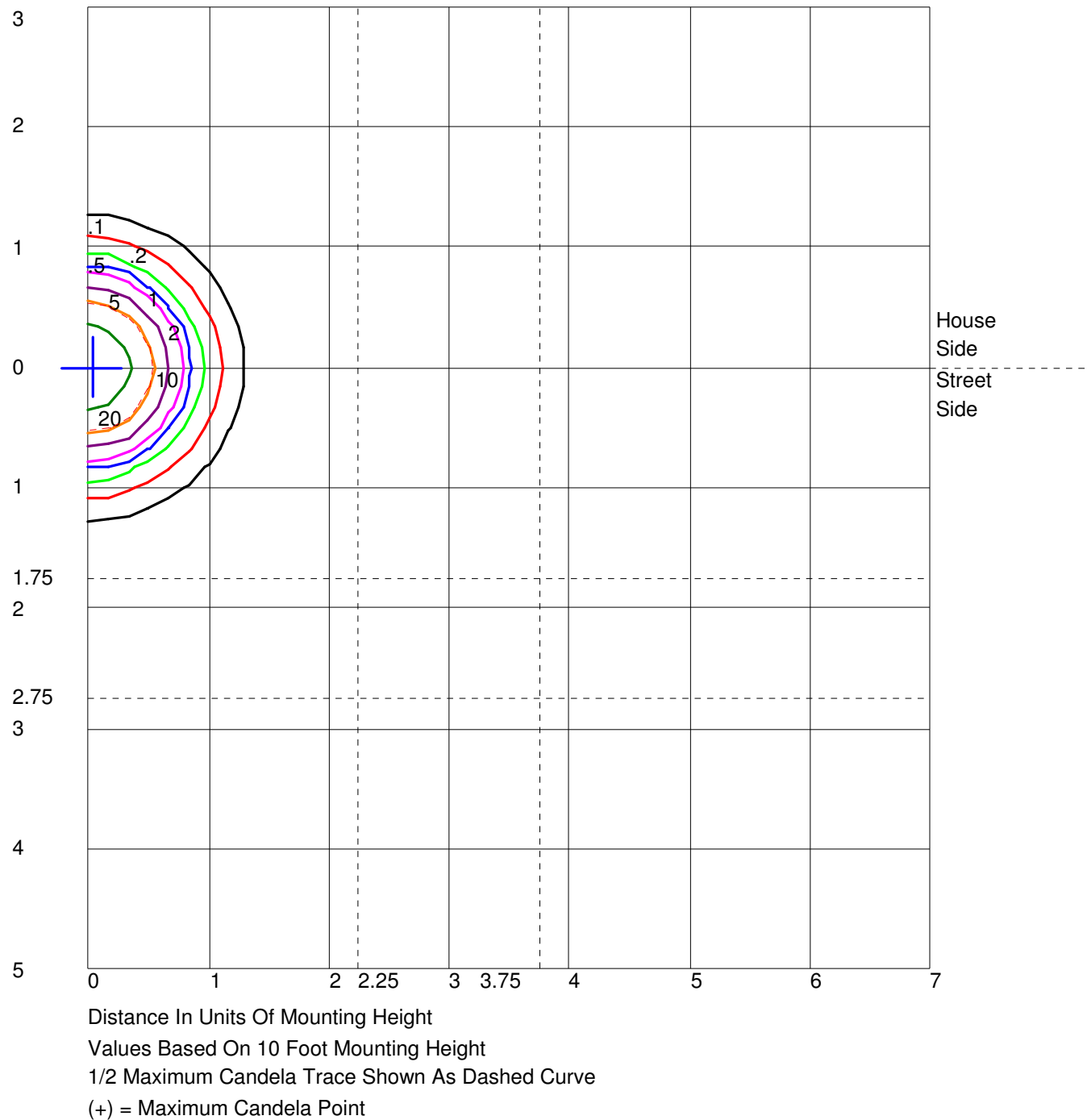
POLAR GRAPH



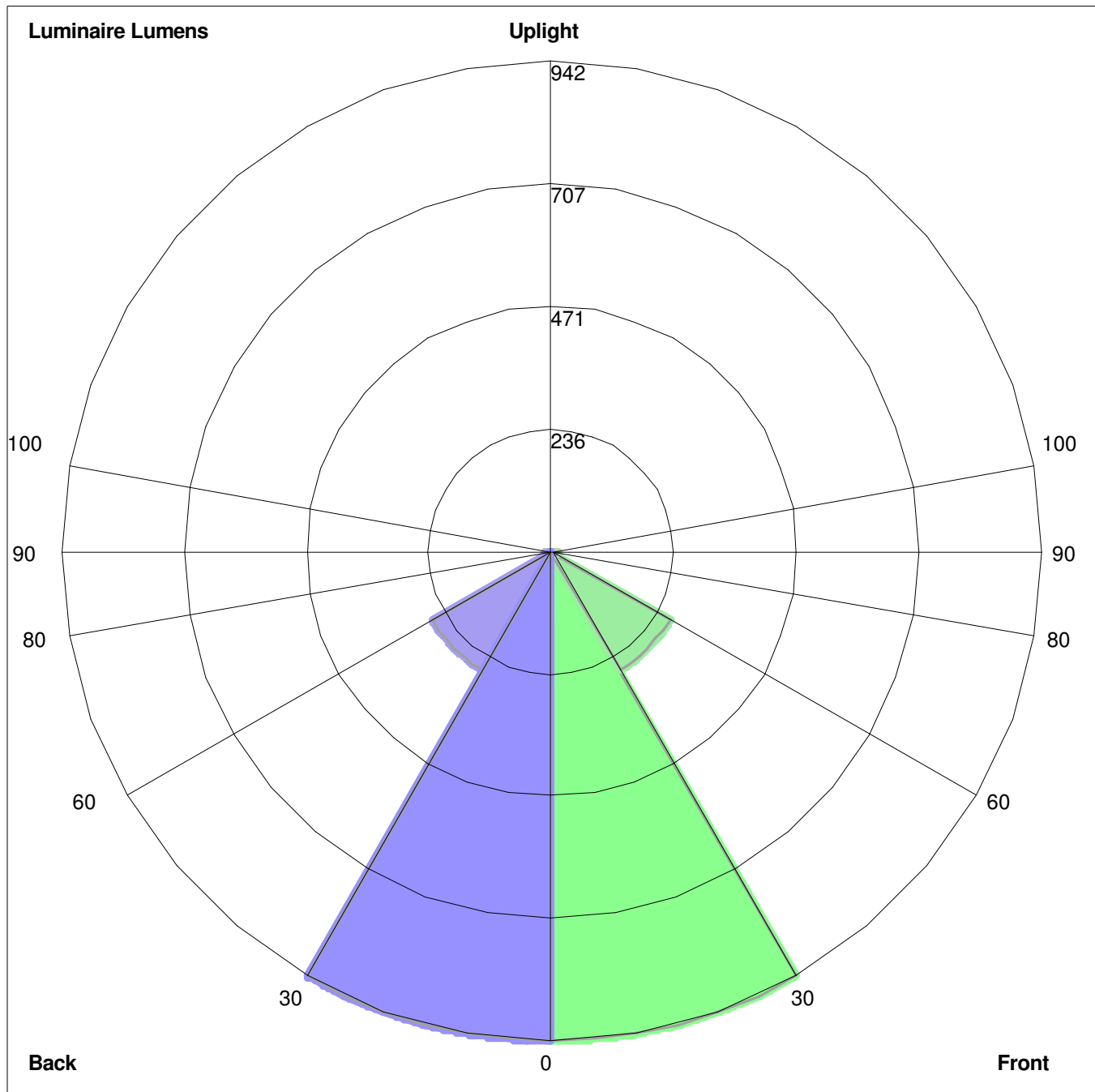
Maximum Candela = 3068.406 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=942.2, Medium=263.0, High=11.3, Very High=0.6  
Back: Low=942.2, Medium=263.0, High=11.3, Very High=0.6  
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0