

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-M-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-MEDIUM DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO
[LUMCAT] W4CR-xx-L15-835-xxx-DIM-UNV-M-xxx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] MEDIUM DISTRIBUTION WITH 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	1538
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2926.543
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2926.543
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.218 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.023 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	639.7	N.A.	41.6
FM - Front-Medium (30-60)	122.0	N.A.	7.9
FH - Front-High (60-80)	6.9	N.A.	0.4
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	639.7	N.A.	41.6
BM - Back-Medium (30-60)	122.0	N.A.	7.9
BH - Back-High (60-80)	6.9	N.A.	0.4
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1538.2	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-M-XXX_.IES****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	2926.543	2926.543	2926.543	2926.543	2926.543
1	2922.027	2922.720	2920.775	2920.110	2920.373
2	2909.738	2913.834	2910.743	2909.682	2906.049
3	2888.366	2890.624	2887.405	2888.232	2887.042
4	2858.663	2864.793	2859.233	2859.540	2858.394
5	2828.568	2825.991	2821.655	2820.660	2818.888
6	2781.696	2783.043	2777.348	2774.212	2773.782
7	2730.207	2728.469	2725.770	2720.042	2715.364
8	2664.814	2667.715	2660.824	2655.012	2653.525
9	2590.357	2592.911	2588.842	2584.516	2582.521
10	2506.661	2507.823	2505.929	2504.336	2500.290
11	2416.175	2415.873	2414.716	2412.006	2408.787
12	2316.350	2318.714	2312.254	2313.656	2314.237
13	2212.205	2212.373	2205.985	2212.703	2214.502
14	2100.851	2103.534	2101.175	2106.965	2109.072
15	1986.641	1989.821	1989.039	1996.963	1998.998
16	1874.885	1876.438	1876.450	1885.330	1891.483
17	1765.263	1767.040	1767.800	1775.088	1782.621
18	1653.060	1658.246	1659.352	1666.707	1676.621
19	1550.731	1552.408	1557.225	1564.412	1571.772
20	1449.029	1454.768	1458.395	1465.431	1474.843
21	1354.893	1358.967	1364.427	1370.927	1379.562
22	1265.950	1270.773	1274.472	1282.771	1290.540
23	1181.779	1184.584	1188.832	1197.757	1206.061
24	1102.744	1104.035	1109.361	1117.744	1122.818
25	1026.179	1027.873	1033.864	1041.704	1045.415
26	951.375	955.533	960.898	967.912	970.885
27	877.929	880.701	889.715	896.572	896.220
28	804.242	807.310	817.638	821.947	821.768
29	729.840	737.117	742.443	746.914	747.014
30	653.913	659.546	665.984	670.237	669.114
31	577.421	581.288	586.402	590.029	589.269
32	501.325	504.863	508.742	511.653	511.061
33	425.303	428.578	431.892	434.222	435.497
34	352.242	356.506	358.451	361.095	362.704
35	285.620	289.526	290.666	292.365	295.070
36	232.913	230.488	231.874	232.544	236.138
37	182.230	179.513	180.693	179.648	184.918
38	136.475	138.632	137.313	138.398	142.679
39	104.843	106.906	105.391	108.985	114.936
40	80.449	81.656	82.852	83.768	87.289
41	64.974	63.945	65.225	67.466	70.585
42	51.147	51.986	54.283	56.429	58.597
43	42.994	43.877	45.570	47.671	49.862
44	37.617	38.321	39.814	41.753	43.457
45	33.823	34.404	35.779	37.310	38.646
46	31.157	31.665	32.850	34.041	35.047
47	29.218	29.676	30.648	31.582	32.414
48	27.742	28.156	28.960	29.721	30.425
49	26.602	26.943	27.608	28.212	28.860
50	25.613	25.876	26.462	26.965	27.535
51	24.674	24.892	25.423	25.848	26.362
52	23.690	23.880	24.316	24.663	25.082

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	22.645	22.819	23.176	23.439	23.785
54	21.561	21.706	22.008	22.221	22.494
55	20.438	20.572	20.829	20.985	21.209
56	19.259	19.381	19.588	19.745	19.907
57	18.057	18.146	18.308	18.465	18.593
58	16.839	16.917	17.045	17.196	17.325
59	15.626	15.687	15.788	15.933	16.051
60	14.430	14.491	14.575	14.698	14.816
61	13.307	13.368	13.407	13.530	13.631
62	12.262	12.306	12.340	12.435	12.535
63	11.295	11.334	11.351	11.429	11.518
64	10.417	10.445	10.456	10.512	10.607
65	9.635	9.657	9.646	9.696	9.797
66	8.892	8.925	8.897	8.953	9.042
67	8.243	8.266	8.238	8.282	8.361
68	7.645	7.651	7.623	7.656	7.735
69	7.086	7.075	7.053	7.064	7.142
70	6.556	6.528	6.500	6.505	6.567
71	6.036	6.002	5.963	5.952	6.013
72	5.522	5.494	5.438	5.415	5.482
73	5.007	4.974	4.912	4.879	4.957
74	4.477	4.443	4.370	4.337	4.409
75	3.901	3.884	3.800	3.772	3.834
76	3.247	3.236	3.152	3.146	3.191
77	2.520	2.509	2.414	2.409	2.448
78	1.682	1.682	1.598	1.554	1.582
79	1.129	1.146	1.112	1.107	1.101
80	1.023	1.017	1.012	1.000	1.000
81	0.956	0.956	0.950	0.944	0.944
82	0.900	0.894	0.900	0.894	0.894
83	0.838	0.833	0.838	0.833	0.838
84	0.771	0.766	0.771	0.766	0.771
85	0.693	0.693	0.693	0.693	0.693
86	0.604	0.604	0.609	0.604	0.609
87	0.514	0.509	0.514	0.503	0.503
88	0.402	0.402	0.402	0.397	0.402
89	0.291	0.285	0.291	0.279	0.279
90	0.218	0.212	0.212	0.196	0.184
91	0.201	0.201	0.201	0.184	0.184
92	0.201	0.201	0.201	0.184	0.184
93	0.207	0.201	0.201	0.190	0.184
94	0.207	0.201	0.207	0.190	0.190
95	0.207	0.201	0.207	0.190	0.196
96	0.207	0.201	0.207	0.196	0.196
97	0.212	0.201	0.207	0.196	0.196
98	0.212	0.207	0.207	0.196	0.201
99	0.218	0.212	0.212	0.201	0.207
100	0.218	0.218	0.212	0.207	0.207
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

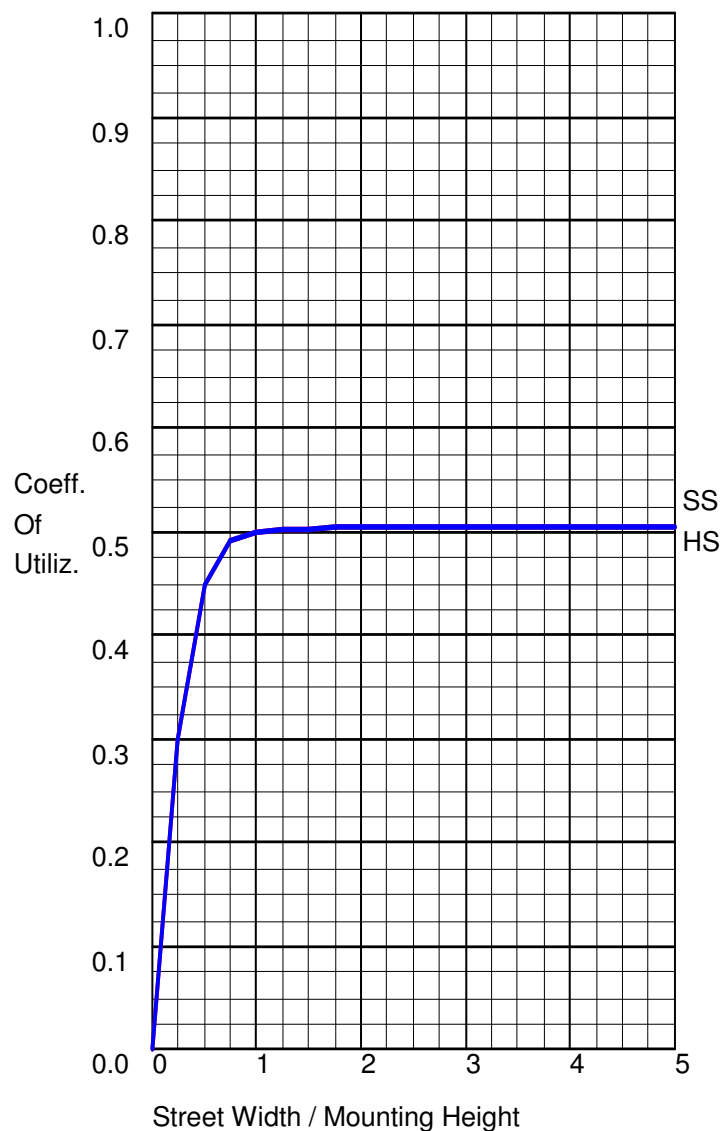
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-835-XXX-DIM-UNV-M-XXX_.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

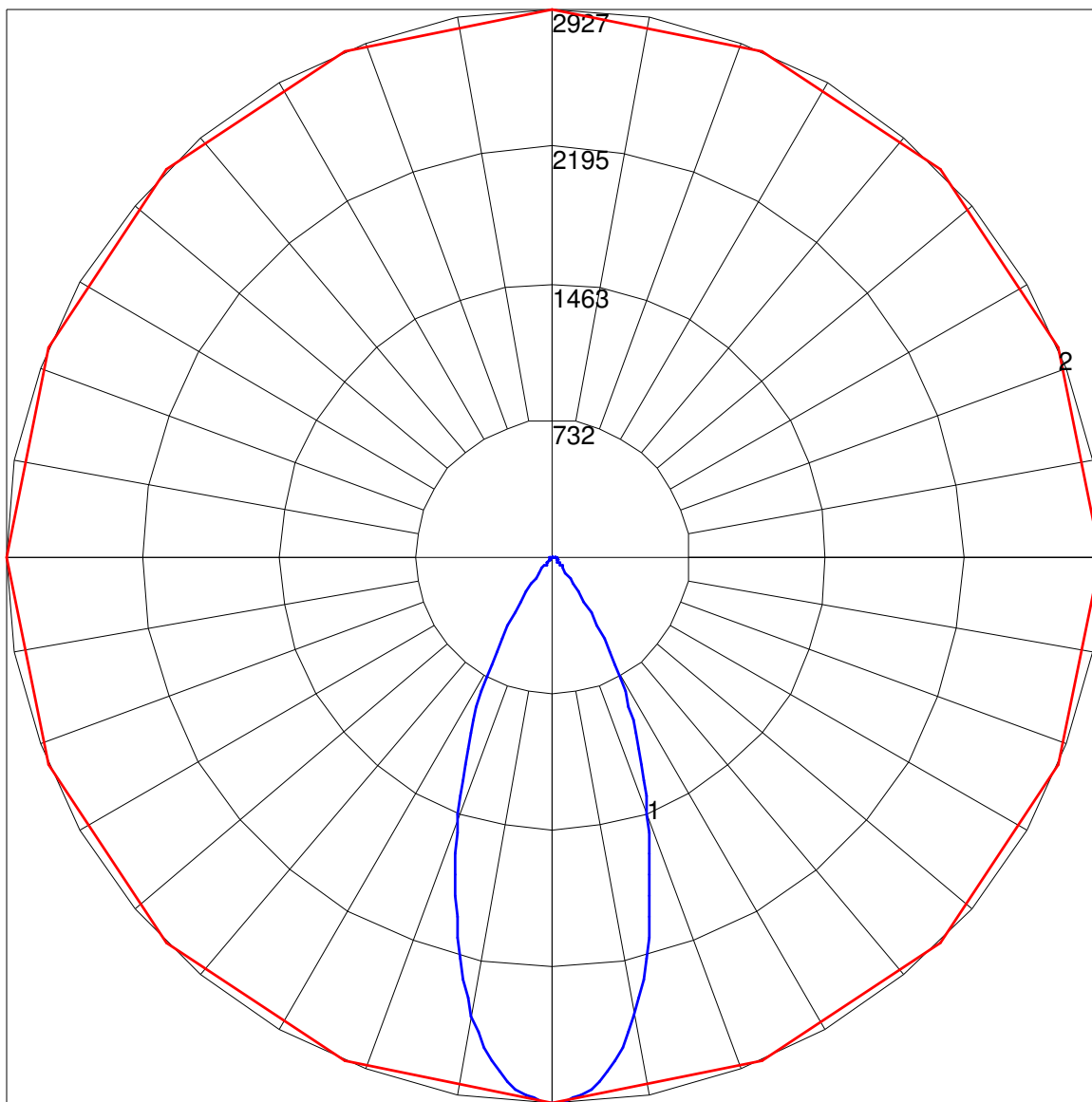
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

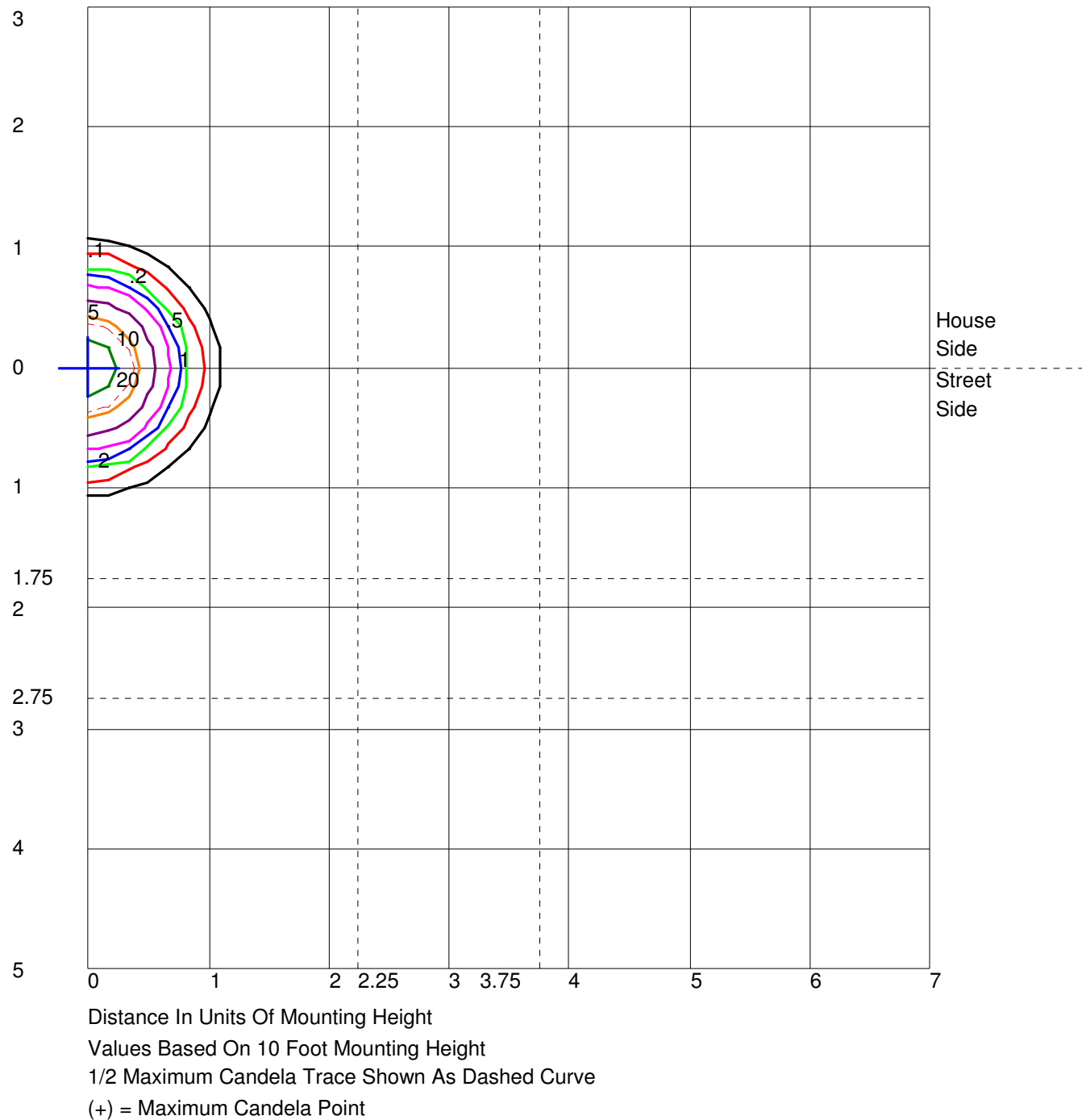
	Lumens	Percent Of Luminaire
Downward Street Side	768.9	50.0
Downward House Side	768.9	50.0
Downward Total	1537.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1538.0	100.0

POLAR GRAPH

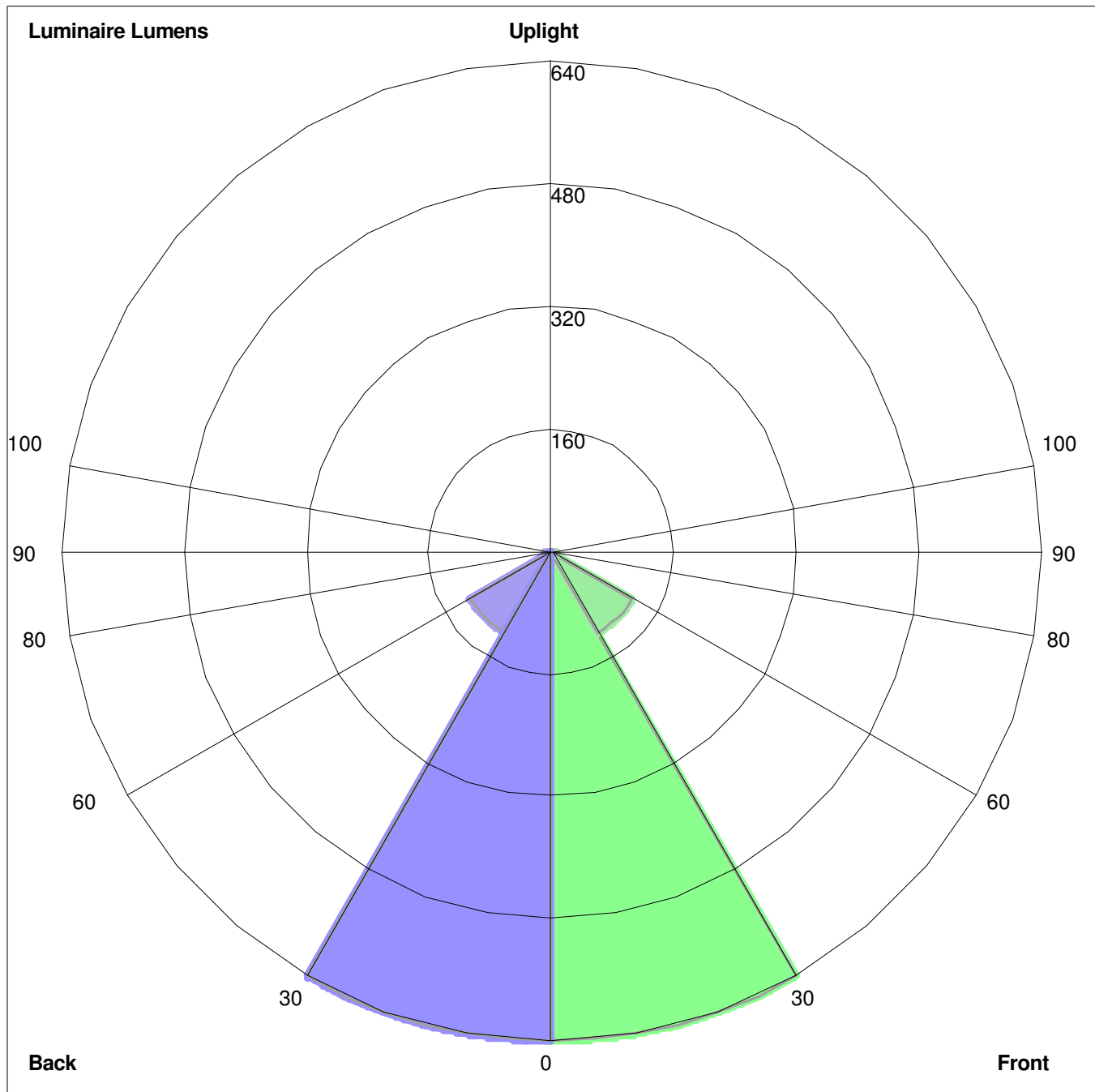


Maximum Candela = 2926.543 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=639.7, Medium=122.0, High=6.9, Very High=0.4
Back: Low=639.7, Medium=122.0, High=6.9, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0