

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-927-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-L15-927-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	1446
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2750.95
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2750.95
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.205 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.961 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-927-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	601.3	N.A.	41.6
FM - Front-Medium (30-60)	114.6	N.A.	7.9
FH - Front-High (60-80)	6.4	N.A.	0.4
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	601.3	N.A.	41.6
BM - Back-Medium (30-60)	114.6	N.A.	7.9
BH - Back-High (60-80)	6.4	N.A.	0.4
BVH - Back-Very High (80-90)	0.3	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	1445.4	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	2750.950	2750.950	2750.950	2750.950	2750.950
1	2746.705	2747.357	2745.528	2744.903	2745.150
2	2735.153	2739.004	2736.099	2735.100	2731.686
3	2715.064	2717.187	2714.161	2714.938	2713.819
4	2687.143	2692.906	2687.679	2687.967	2686.891
5	2658.853	2656.432	2652.355	2651.420	2649.755
6	2614.794	2616.060	2610.707	2607.759	2607.355
7	2566.395	2564.761	2562.223	2556.839	2552.442
8	2504.925	2507.652	2501.174	2495.711	2494.314
9	2434.935	2437.336	2433.511	2429.445	2427.570
10	2356.261	2357.354	2355.573	2354.076	2350.272
11	2271.204	2270.920	2269.833	2267.285	2264.259
12	2177.369	2179.591	2173.518	2174.837	2175.383
13	2079.473	2079.630	2073.626	2079.940	2081.632
14	1974.800	1977.322	1975.105	1980.547	1982.528
15	1867.443	1870.432	1869.696	1877.146	1879.058
16	1762.392	1763.852	1763.862	1772.210	1777.994
17	1659.347	1661.018	1661.732	1668.583	1675.664
18	1553.876	1558.751	1559.791	1566.704	1576.024
19	1457.687	1459.263	1463.791	1470.547	1477.466
20	1362.087	1367.482	1370.891	1377.505	1386.352
21	1273.599	1277.429	1282.562	1288.671	1296.788
22	1189.993	1194.526	1198.004	1205.805	1213.107
23	1110.872	1113.509	1117.502	1125.891	1133.698
24	1036.579	1037.793	1042.799	1050.679	1055.449
25	964.608	966.200	971.832	979.202	982.690
26	894.292	898.201	903.244	909.837	912.632
27	825.253	827.859	836.332	842.778	842.447
28	755.988	758.872	768.580	772.630	772.462
29	686.050	692.890	697.896	702.099	702.193
30	614.678	619.973	626.025	630.023	628.967
31	542.775	546.411	551.218	554.627	553.912
32	471.246	474.571	478.217	480.954	480.397
33	399.785	402.863	405.978	408.169	409.367
34	331.108	335.116	336.944	339.429	340.942
35	268.483	272.155	273.226	274.823	277.366
36	218.938	216.658	217.961	218.592	221.970
37	171.296	168.743	169.851	168.869	173.823
38	128.287	130.314	129.075	130.094	134.118
39	98.553	100.491	99.068	102.445	108.040
40	75.622	76.757	77.881	78.742	82.052
41	61.075	60.109	61.312	63.418	66.350
42	48.079	48.867	51.026	53.043	55.081
43	40.414	41.244	42.836	44.811	46.870
44	35.360	36.022	37.425	39.248	40.850
45	31.793	32.340	33.632	35.071	36.327
46	29.287	29.765	30.879	31.998	32.944
47	27.464	27.895	28.809	29.687	30.469
48	26.078	26.466	27.223	27.937	28.599
49	25.006	25.326	25.952	26.519	27.128
50	24.076	24.323	24.875	25.347	25.883
51	23.194	23.398	23.897	24.297	24.780
52	22.269	22.448	22.857	23.183	23.577

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-927-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.287	21.449	21.786	22.033	22.358
54	20.267	20.404	20.688	20.887	21.145
55	19.211	19.338	19.579	19.726	19.936
56	18.103	18.219	18.413	18.560	18.712
57	16.974	17.058	17.210	17.357	17.478
58	15.828	15.902	16.023	16.165	16.285
59	14.688	14.746	14.841	14.977	15.088
60	13.564	13.622	13.701	13.816	13.927
61	12.508	12.566	12.603	12.718	12.813
62	11.526	11.568	11.599	11.689	11.783
63	10.617	10.654	10.670	10.743	10.827
64	9.792	9.818	9.829	9.882	9.971
65	9.057	9.078	9.067	9.115	9.209
66	8.358	8.390	8.363	8.416	8.500
67	7.749	7.770	7.743	7.785	7.859
68	7.187	7.192	7.166	7.197	7.271
69	6.661	6.651	6.630	6.640	6.714
70	6.162	6.136	6.110	6.115	6.173
71	5.674	5.642	5.605	5.595	5.653
72	5.190	5.164	5.112	5.090	5.154
73	4.707	4.675	4.618	4.586	4.660
74	4.208	4.176	4.108	4.077	4.145
75	3.667	3.651	3.572	3.546	3.604
76	3.052	3.042	2.963	2.958	3.000
77	2.369	2.359	2.269	2.264	2.301
78	1.581	1.581	1.502	1.460	1.487
79	1.061	1.077	1.045	1.040	1.035
80	0.961	0.956	0.951	0.940	0.940
81	0.898	0.898	0.893	0.888	0.888
82	0.846	0.841	0.846	0.841	0.841
83	0.788	0.783	0.788	0.783	0.788
84	0.725	0.720	0.725	0.720	0.725
85	0.651	0.651	0.651	0.651	0.651
86	0.567	0.567	0.573	0.567	0.573
87	0.483	0.478	0.483	0.473	0.473
88	0.378	0.378	0.378	0.373	0.378
89	0.273	0.268	0.273	0.263	0.263
90	0.205	0.200	0.200	0.184	0.173
91	0.189	0.189	0.189	0.173	0.173
92	0.189	0.189	0.189	0.173	0.173
93	0.194	0.189	0.189	0.179	0.173
94	0.194	0.189	0.194	0.179	0.179
95	0.194	0.189	0.194	0.179	0.184
96	0.194	0.189	0.194	0.184	0.184
97	0.200	0.189	0.194	0.184	0.184
98	0.200	0.194	0.194	0.184	0.189
99	0.205	0.200	0.200	0.189	0.194
100	0.205	0.205	0.200	0.194	0.194
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

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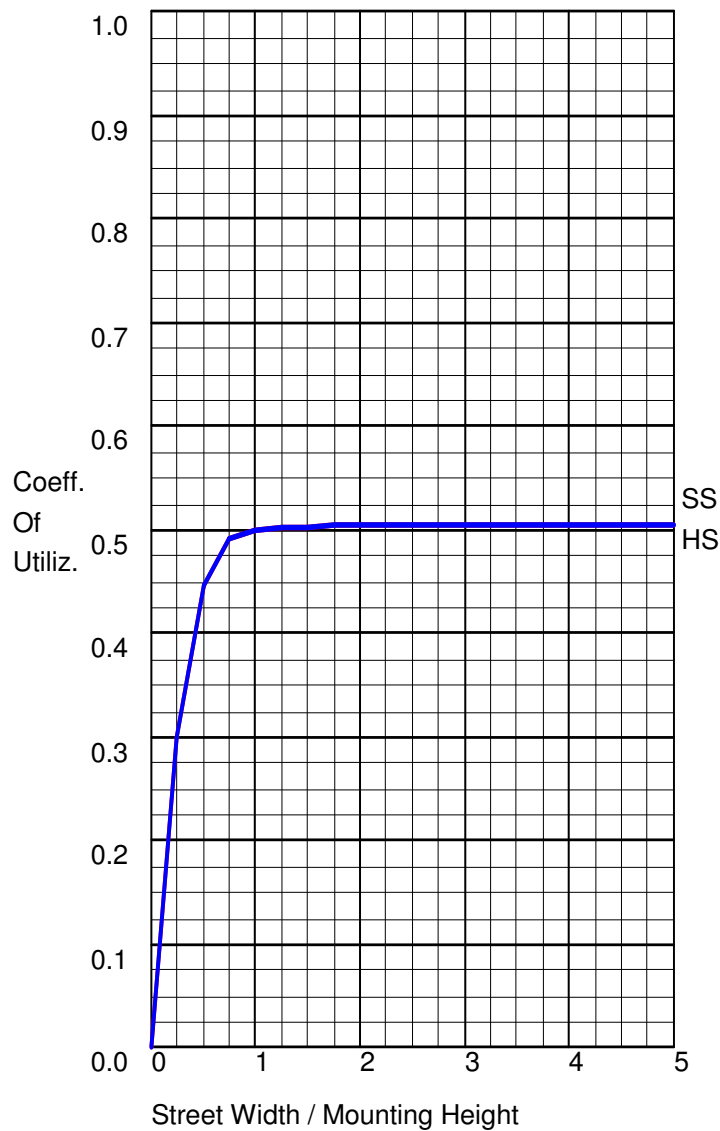
CANDELA TABULATION - (Cont.)

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-L15-927-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

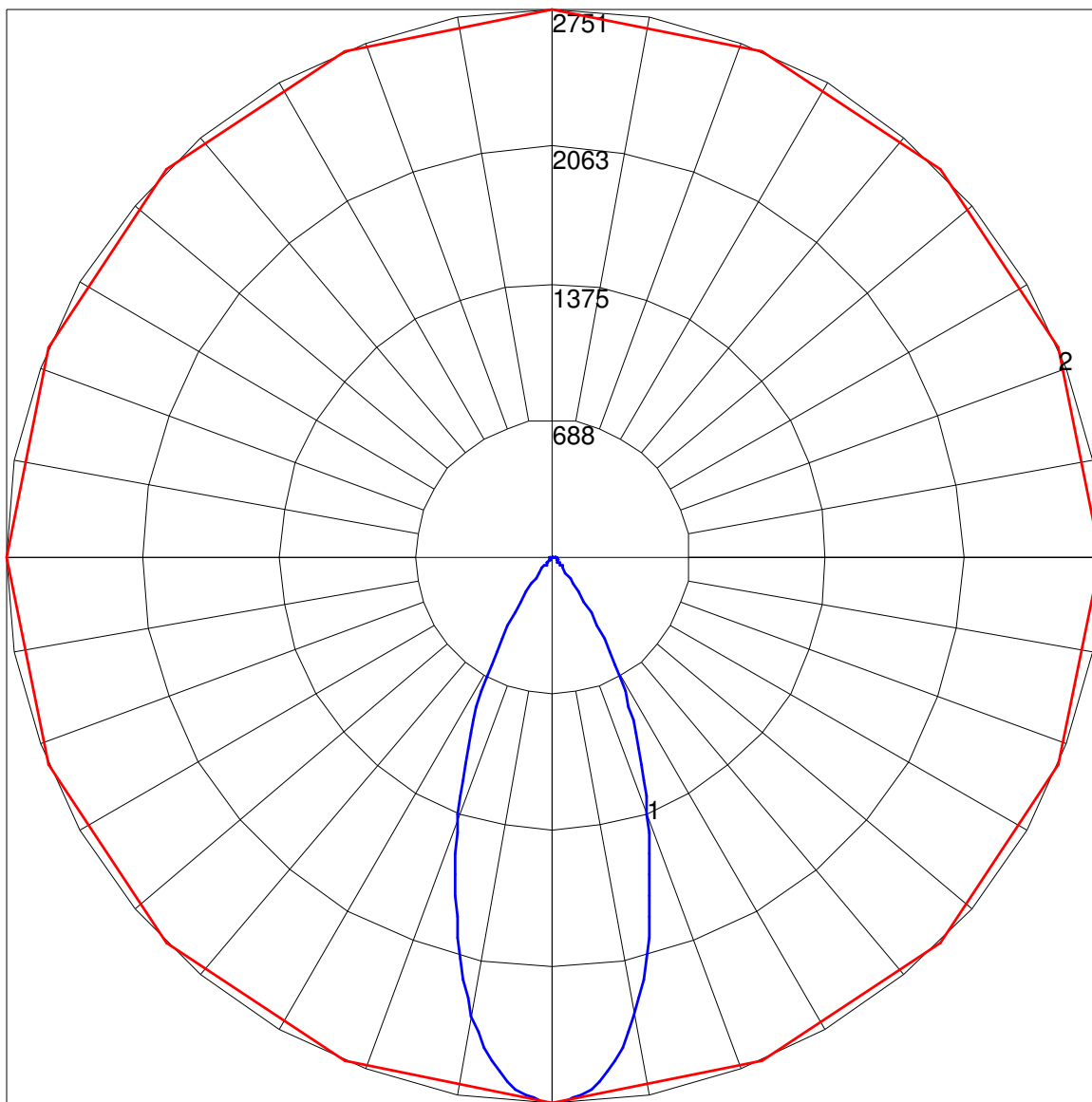
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

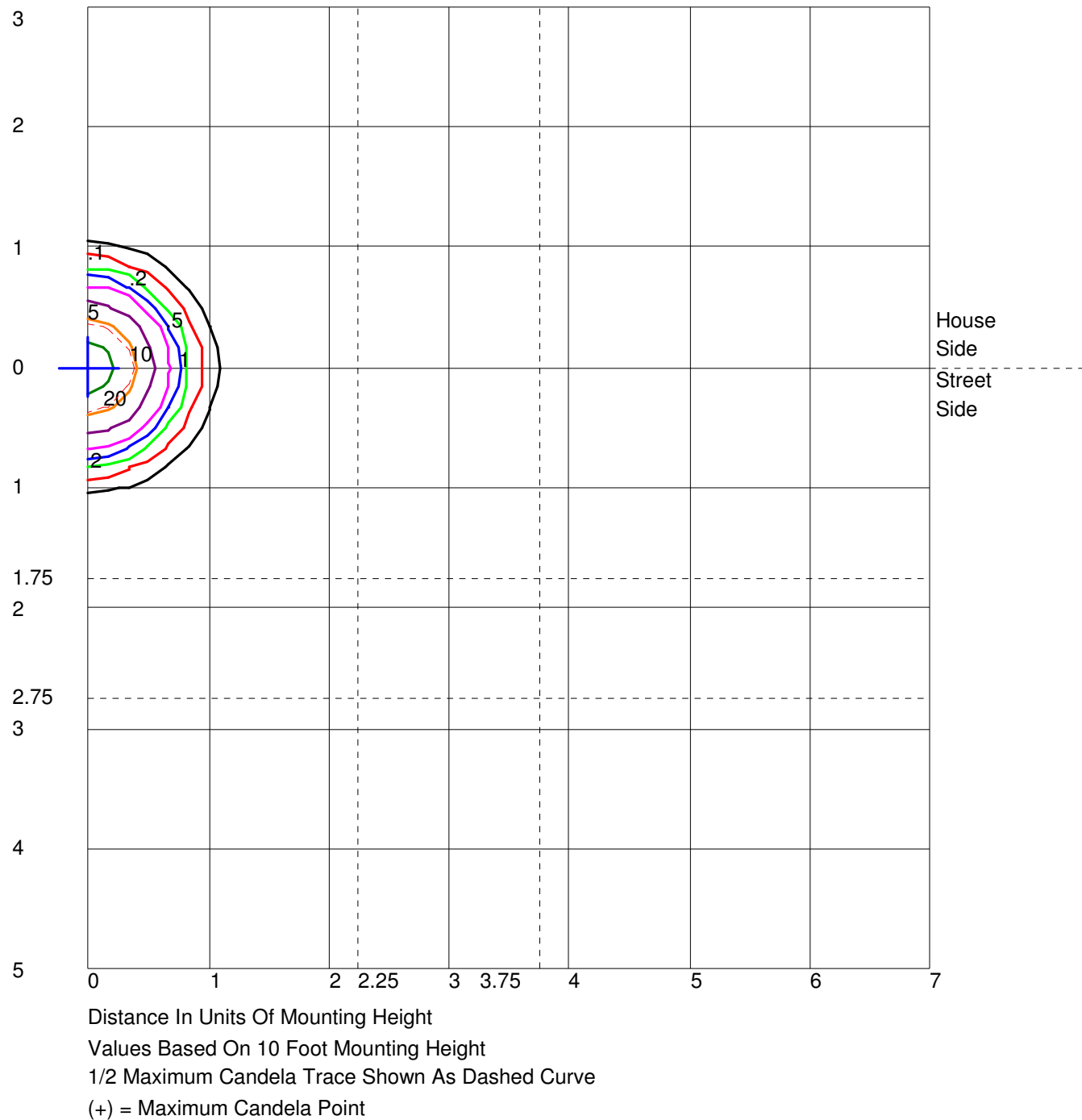
	Lumens	Percent Of Luminaire
Downward Street Side	722.8	50.0
Downward House Side	722.8	50.0
Downward Total	1445.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1445.8	100.0

POLAR GRAPH

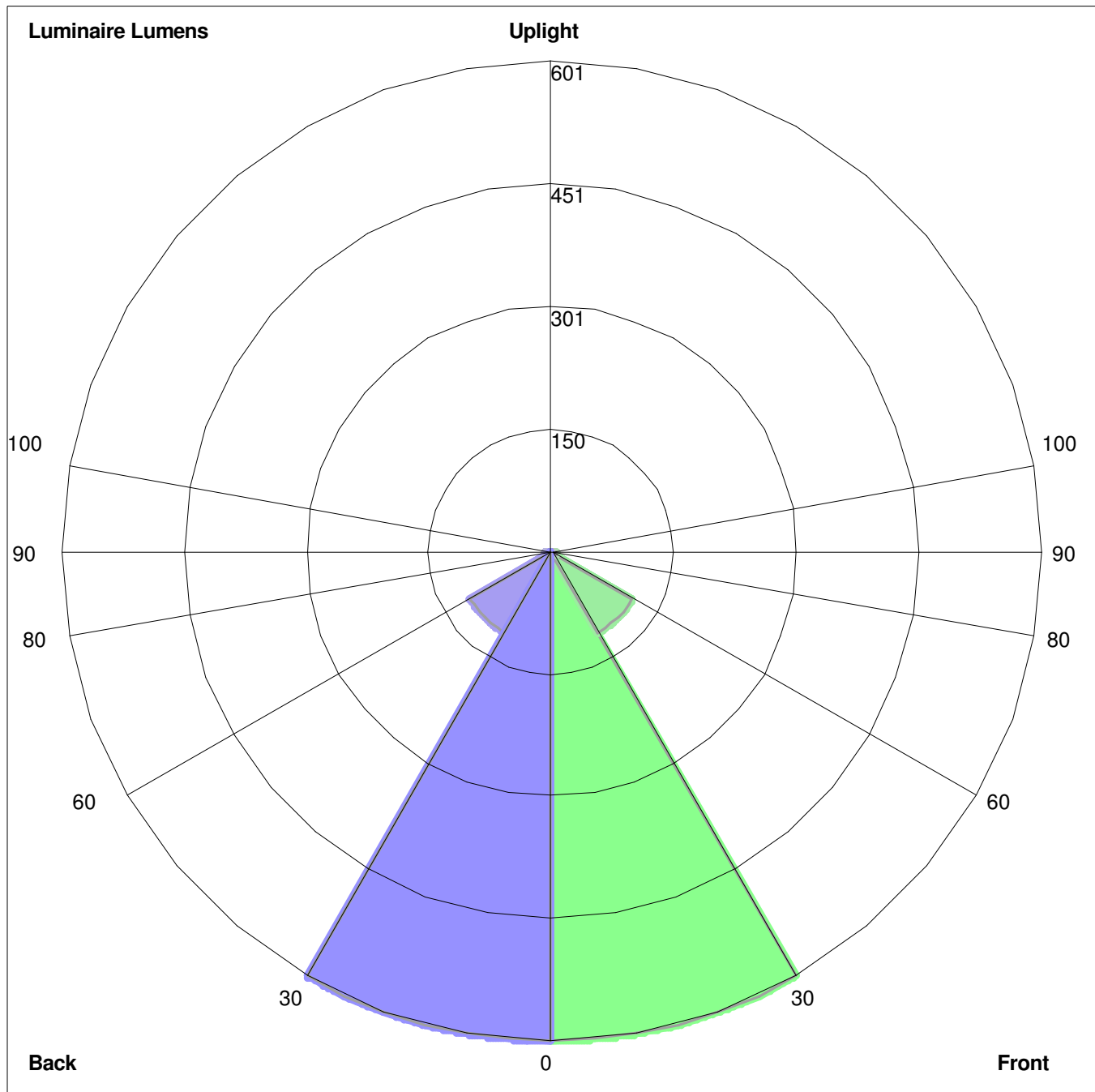


Maximum Candela = 2750.95 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=601.3, Medium=114.6, High=6.4, Very High=0.3
Back: Low=601.3, Medium=114.6, High=6.4, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0