

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-850-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-L15-850-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	1523
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2897.277
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2897.277
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.216 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.012 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	633.3	N.A.	41.6
FM - Front-Medium (30-60)	120.7	N.A.	7.9
FH - Front-High (60-80)	6.8	N.A.	0.4
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	633.3	N.A.	41.6
BM - Back-Medium (30-60)	120.7	N.A.	7.9
BH - Back-High (60-80)	6.8	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	1522.6	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-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	2897.277	2897.277	2897.277	2897.277	2897.277
1	2892.806	2893.493	2891.567	2890.909	2891.169
2	2880.640	2884.695	2881.636	2880.585	2876.988
3	2859.483	2861.718	2858.531	2859.350	2858.171
4	2830.076	2836.145	2830.640	2830.944	2829.810
5	2800.282	2797.731	2793.438	2792.453	2790.699
6	2753.878	2755.212	2749.574	2746.470	2746.044
7	2702.905	2701.184	2698.512	2692.841	2688.210
8	2638.166	2641.037	2634.216	2628.461	2626.990
9	2564.453	2566.981	2562.953	2558.671	2556.696
10	2481.594	2482.745	2480.869	2479.292	2475.287
11	2392.013	2391.714	2390.569	2387.885	2384.698
12	2293.186	2295.527	2289.131	2290.520	2291.095
13	2190.083	2190.249	2183.925	2190.575	2192.357
14	2079.842	2082.498	2080.163	2085.895	2087.981
15	1966.775	1969.923	1969.148	1976.994	1979.008
16	1856.136	1857.674	1857.685	1866.476	1872.568
17	1747.610	1749.370	1750.122	1757.337	1764.795
18	1636.529	1641.663	1642.759	1650.040	1659.855
19	1535.224	1536.883	1541.653	1548.768	1556.055
20	1434.538	1440.220	1443.811	1450.777	1460.094
21	1341.344	1345.378	1350.783	1357.218	1365.766
22	1253.290	1258.065	1261.727	1269.944	1277.634
23	1169.961	1172.738	1176.943	1185.779	1194.001
24	1091.716	1092.994	1098.267	1106.566	1111.590
25	1015.917	1017.594	1023.525	1031.287	1034.961
26	941.861	945.977	951.289	958.233	961.176
27	869.149	871.894	880.818	887.607	887.258
28	796.200	799.237	809.462	813.728	813.550
29	722.542	729.746	735.018	739.444	739.544
30	647.374	652.951	659.324	663.535	662.423
31	571.646	575.475	580.538	584.128	583.376
32	496.312	499.814	503.654	506.537	505.950
33	421.050	424.292	427.573	429.880	431.142
34	348.720	352.941	354.867	357.484	359.077
35	282.764	286.631	287.760	289.442	292.120
36	230.584	228.183	229.555	230.219	233.776
37	180.407	177.718	178.886	177.851	183.068
38	135.110	137.246	135.940	137.014	141.252
39	103.795	105.836	104.337	107.895	113.787
40	79.644	80.839	82.023	82.931	86.416
41	64.324	63.306	64.573	66.792	69.879
42	50.636	51.466	53.740	55.864	58.011
43	42.564	43.438	45.114	47.195	49.363
44	37.241	37.938	39.415	41.335	43.023
45	33.484	34.060	35.421	36.937	38.259
46	30.845	31.349	32.522	33.700	34.696
47	28.925	29.379	30.342	31.266	32.090
48	27.465	27.874	28.671	29.423	30.120
49	26.336	26.674	27.332	27.929	28.571
50	25.357	25.617	26.198	26.696	27.260
51	24.427	24.643	25.169	25.589	26.098
52	23.453	23.642	24.073	24.416	24.831

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	22.419	22.590	22.944	23.204	23.547
54	21.345	21.489	21.788	21.998	22.269
55	20.233	20.366	20.621	20.776	20.997
56	19.066	19.188	19.392	19.547	19.708
57	17.876	17.965	18.125	18.280	18.408
58	16.670	16.748	16.875	17.024	17.152
59	15.470	15.531	15.630	15.774	15.890
60	14.286	14.346	14.429	14.551	14.667
61	13.174	13.234	13.273	13.395	13.494
62	12.139	12.183	12.216	12.310	12.410
63	11.182	11.220	11.237	11.315	11.403
64	10.313	10.341	10.352	10.407	10.501
65	9.539	9.561	9.550	9.599	9.699
66	8.803	8.836	8.808	8.864	8.952
67	8.161	8.183	8.155	8.200	8.277
68	7.569	7.574	7.547	7.580	7.657
69	7.016	7.004	6.982	6.993	7.071
70	6.490	6.462	6.435	6.440	6.501
71	5.975	5.942	5.903	5.892	5.953
72	5.466	5.439	5.383	5.361	5.428
73	4.957	4.924	4.863	4.830	4.908
74	4.432	4.399	4.327	4.293	4.365
75	3.862	3.845	3.762	3.735	3.795
76	3.215	3.203	3.120	3.115	3.159
77	2.495	2.484	2.390	2.385	2.423
78	1.665	1.665	1.582	1.538	1.566
79	1.118	1.134	1.101	1.095	1.090
80	1.012	1.007	1.001	0.990	0.990
81	0.946	0.946	0.941	0.935	0.935
82	0.891	0.885	0.891	0.885	0.885
83	0.830	0.824	0.830	0.824	0.830
84	0.764	0.758	0.764	0.758	0.764
85	0.686	0.686	0.686	0.686	0.686
86	0.598	0.598	0.603	0.598	0.603
87	0.509	0.503	0.509	0.498	0.498
88	0.398	0.398	0.398	0.393	0.398
89	0.288	0.282	0.288	0.277	0.277
90	0.216	0.210	0.210	0.194	0.183
91	0.199	0.199	0.199	0.183	0.183
92	0.199	0.199	0.199	0.183	0.183
93	0.205	0.199	0.199	0.188	0.183
94	0.205	0.199	0.205	0.188	0.188
95	0.205	0.199	0.205	0.188	0.194
96	0.205	0.199	0.205	0.194	0.194
97	0.210	0.199	0.205	0.194	0.194
98	0.210	0.205	0.205	0.194	0.199
99	0.216	0.210	0.210	0.199	0.205
100	0.216	0.216	0.210	0.205	0.205
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

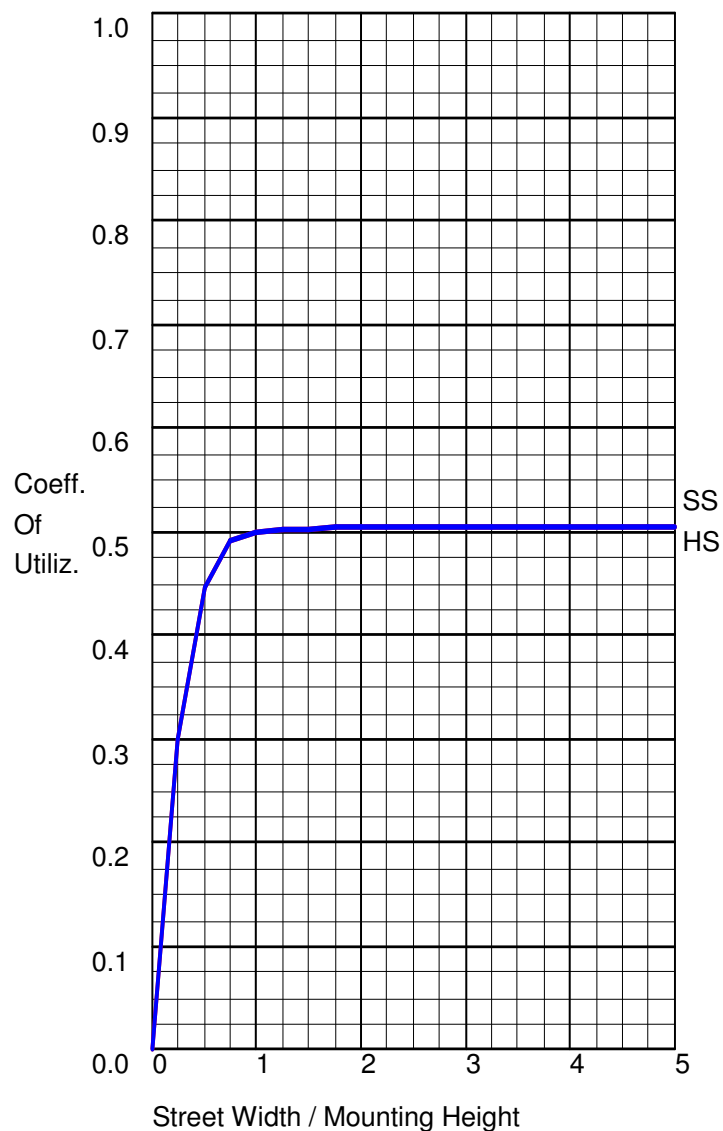
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-850-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

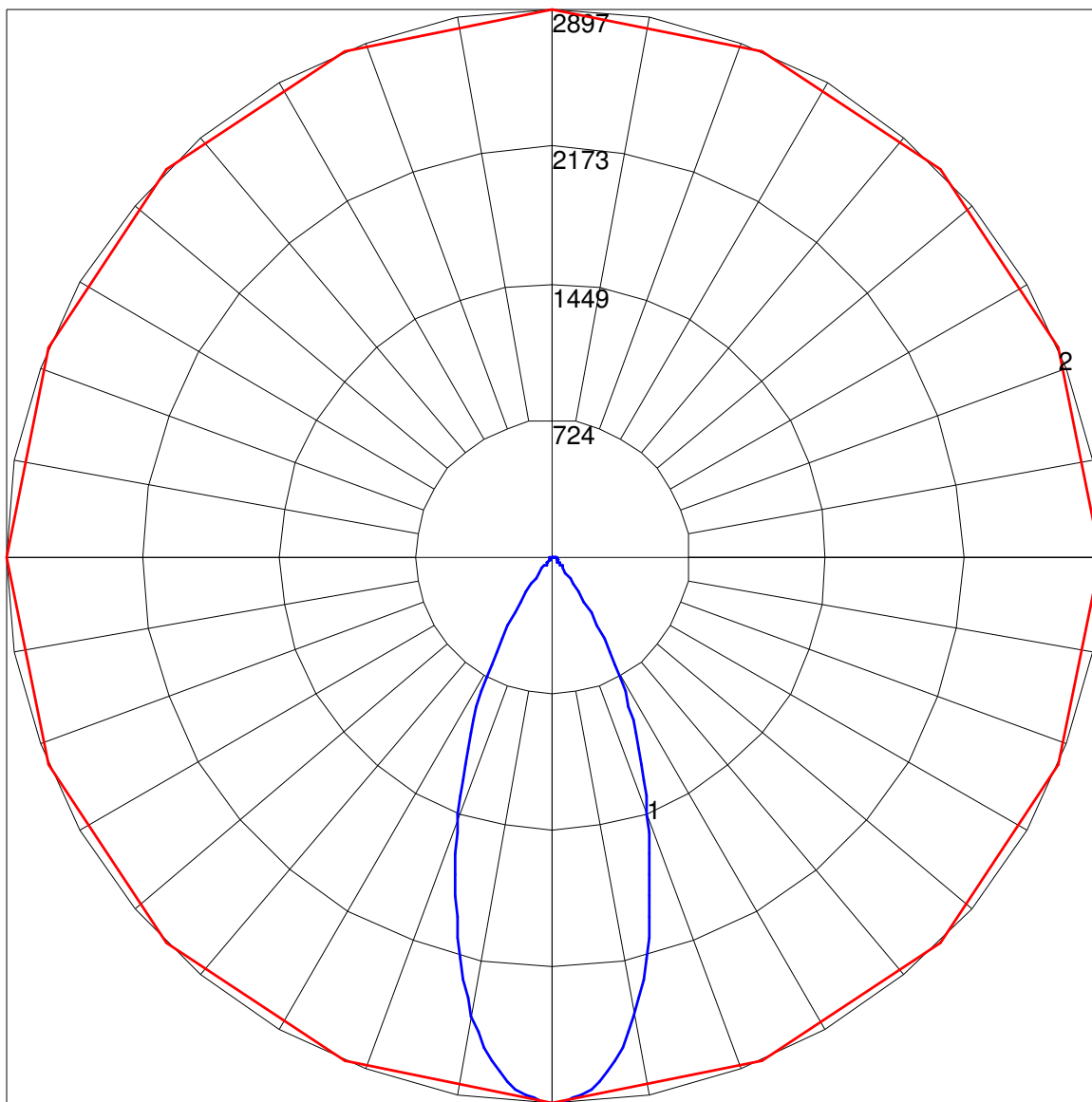
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FLUX DISTRIBUTION

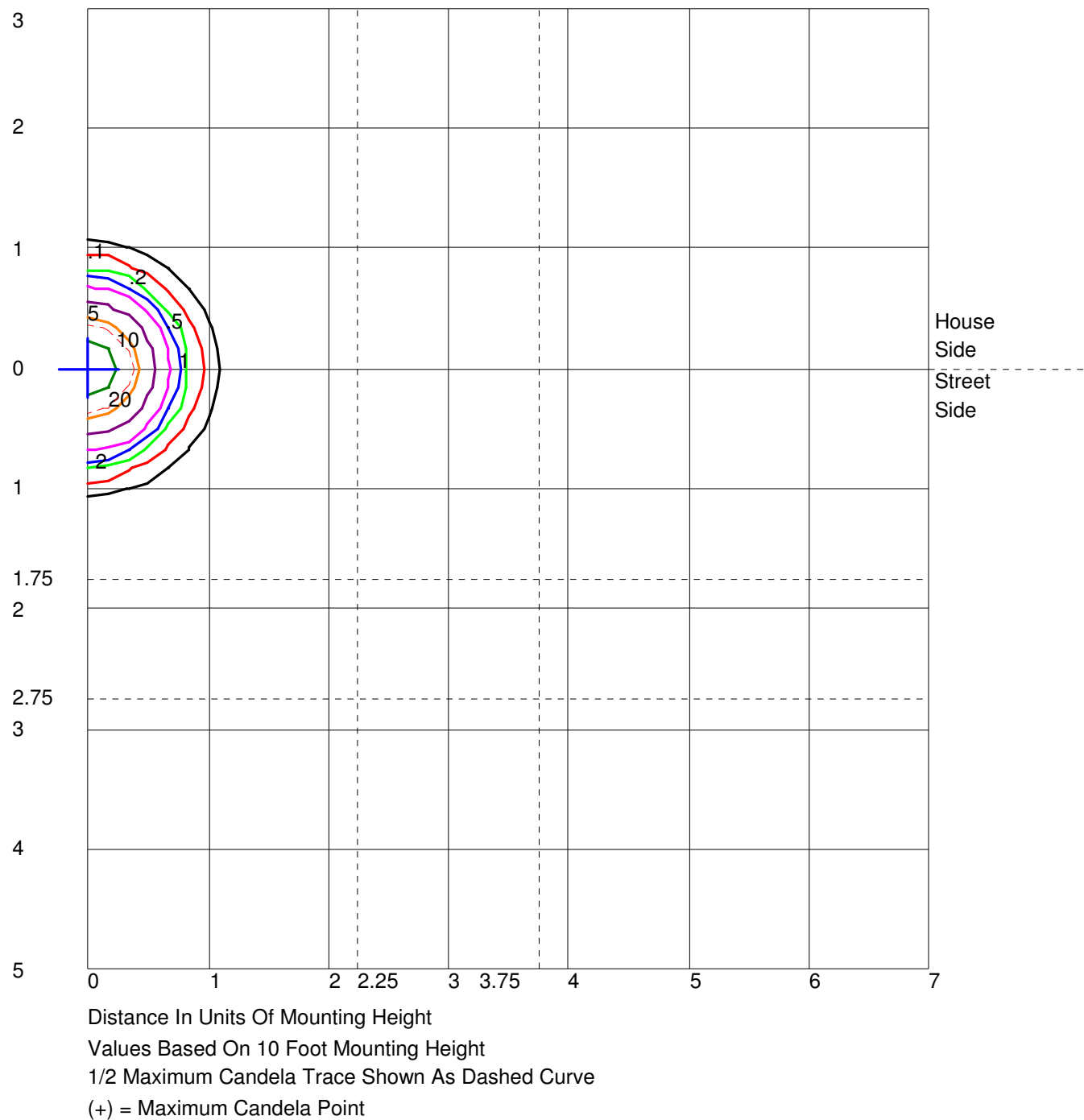
	Lumens	Percent Of Luminaire
Downward Street Side	761.2	50.0
Downward House Side	761.2	50.0
Downward Total	1522.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1522.6	100.0

POLAR GRAPH

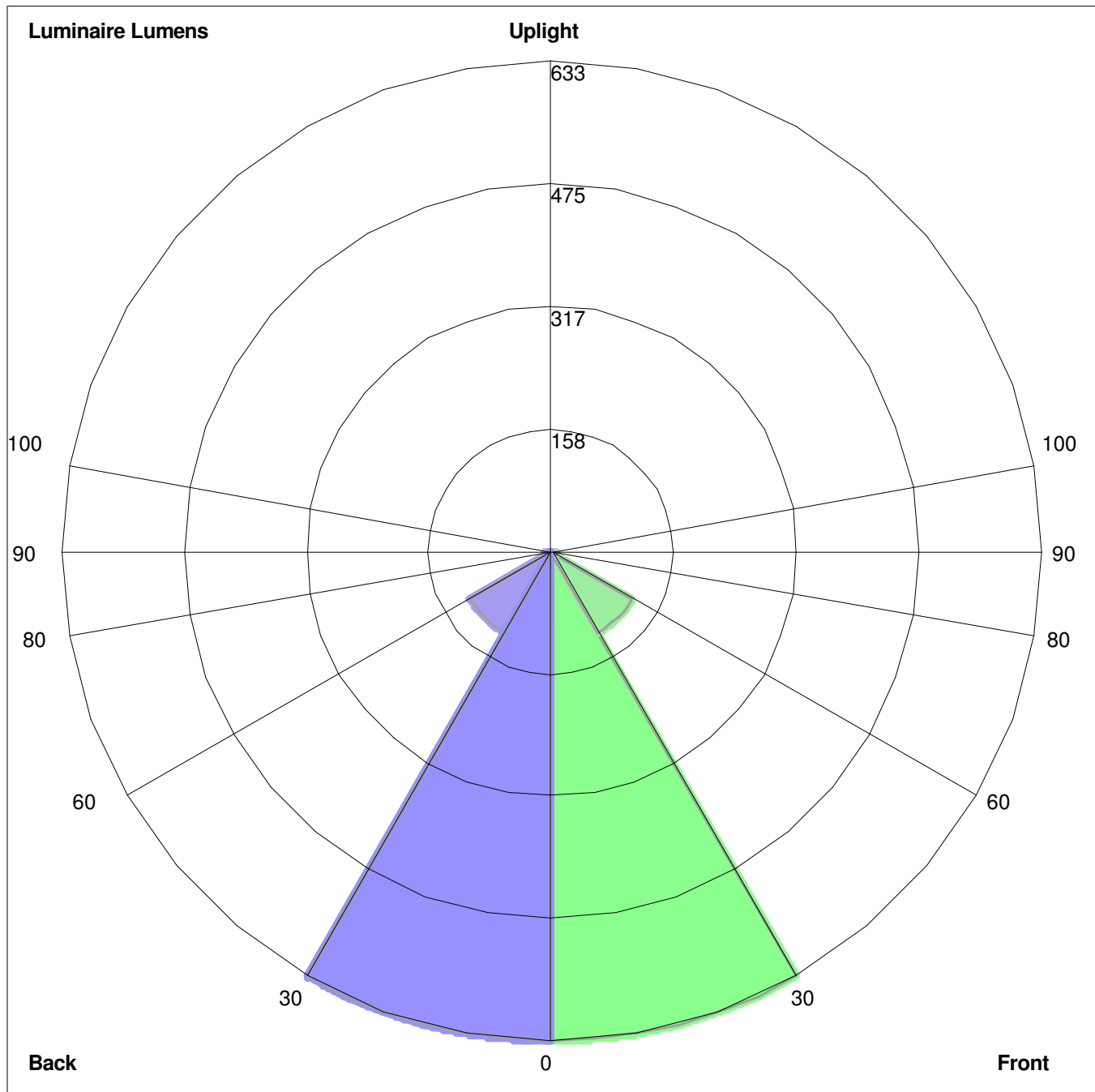


Maximum Candela = 2897.277 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=633.3, Medium=120.7, High=6.8, Very High=0.4
Back: Low=633.3, Medium=120.7, High=6.8, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0