

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-927-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-L20-927-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	1928
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3668.529
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3668.529
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.273 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.282 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	801.9	N.A.	41.6
FM - Front-Medium (30-60)	152.9	N.A.	7.9
FH - Front-High (60-80)	8.6	N.A.	0.4
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	801.9	N.A.	41.6
BM - Back-Medium (30-60)	152.9	N.A.	7.9
BH - Back-High (60-80)	8.6	N.A.	0.4
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1927.9	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	3668.529	3668.529	3668.529	3668.529	3668.529
1	3662.869	3663.738	3661.300	3660.466	3660.795
2	3647.464	3652.599	3648.725	3647.394	3642.840
3	3620.674	3623.505	3619.469	3620.506	3619.014
4	3583.439	3591.125	3584.154	3584.539	3583.103
5	3545.714	3542.485	3537.048	3535.801	3533.581
6	3486.958	3488.647	3481.508	3477.578	3477.039
7	3422.416	3420.237	3416.853	3409.673	3403.809
8	3340.443	3344.079	3335.441	3328.156	3326.292
9	3247.108	3250.309	3245.209	3239.787	3237.286
10	3142.192	3143.649	3141.274	3139.278	3134.206
11	3028.764	3028.386	3026.936	3023.538	3019.503
12	2903.630	2906.594	2898.495	2900.254	2900.982
13	2773.081	2773.291	2765.284	2773.705	2775.960
14	2633.495	2636.857	2633.901	2641.159	2643.800
15	2490.328	2494.314	2493.334	2503.268	2505.818
16	2350.237	2352.185	2352.199	2363.331	2371.044
17	2212.823	2215.050	2216.003	2225.138	2234.582
18	2072.171	2078.672	2080.060	2089.279	2101.707
19	1943.899	1946.000	1952.039	1961.049	1970.275
20	1816.411	1823.606	1828.152	1836.972	1848.770
21	1698.409	1703.516	1710.360	1718.508	1729.331
22	1586.915	1592.960	1597.598	1608.001	1617.739
23	1481.403	1484.920	1490.244	1501.432	1511.843
24	1382.330	1383.949	1390.625	1401.133	1407.494
25	1286.354	1288.476	1295.986	1305.815	1310.467
26	1192.584	1197.796	1204.521	1213.313	1217.040
27	1100.516	1103.991	1115.291	1123.887	1123.445
28	1008.147	1011.993	1024.940	1030.341	1030.117
29	914.882	924.003	930.679	936.284	936.410
30	819.704	826.765	834.836	840.167	838.759
31	723.818	728.666	735.076	739.623	738.670
32	628.430	632.865	637.726	641.376	640.634
33	533.133	537.238	541.392	544.314	545.911
34	441.549	446.894	449.332	452.646	454.663
35	358.035	362.932	364.361	366.491	369.881
36	291.965	288.925	290.662	291.503	296.007
37	228.431	225.027	226.505	225.195	231.801
38	171.077	173.781	172.127	173.487	178.853
39	131.425	134.010	132.112	136.616	144.077
40	100.846	102.359	103.858	105.007	109.420
41	81.447	80.158	81.762	84.572	88.481
42	64.115	65.166	68.045	70.736	73.454
43	53.894	55.001	57.124	59.758	62.504
44	47.155	48.037	49.908	52.339	54.476
45	42.398	43.126	44.850	46.769	48.444
46	39.056	39.694	41.179	42.671	43.932
47	36.625	37.200	38.419	39.589	40.632
48	34.776	35.294	36.303	37.256	38.138
49	33.347	33.774	34.608	35.364	36.177
50	32.107	32.436	33.171	33.802	34.517
51	30.930	31.203	31.868	32.401	33.045
52	29.697	29.935	30.481	30.916	31.441

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	28.387	28.604	29.052	29.381	29.816
54	27.028	27.210	27.588	27.854	28.198
55	25.619	25.788	26.110	26.306	26.586
56	24.141	24.295	24.555	24.751	24.954
57	22.635	22.747	22.950	23.146	23.308
58	21.108	21.206	21.367	21.556	21.717
59	19.588	19.665	19.791	19.973	20.120
60	18.088	18.166	18.271	18.425	18.572
61	16.680	16.757	16.806	16.961	17.087
62	15.370	15.426	15.468	15.587	15.714
63	14.158	14.207	14.228	14.326	14.439
64	13.058	13.093	13.107	13.178	13.297
65	12.078	12.106	12.092	12.155	12.281
66	11.146	11.188	11.153	11.223	11.335
67	10.333	10.361	10.326	10.382	10.480
68	9.584	9.591	9.556	9.598	9.696
69	8.883	8.869	8.841	8.855	8.953
70	8.218	8.183	8.148	8.155	8.232
71	7.566	7.524	7.475	7.461	7.538
72	6.922	6.887	6.816	6.788	6.872
73	6.277	6.235	6.158	6.116	6.214
74	5.611	5.569	5.478	5.436	5.527
75	4.890	4.869	4.764	4.729	4.806
76	4.070	4.056	3.951	3.944	4.000
77	3.160	3.146	3.026	3.019	3.068
78	2.109	2.109	2.004	1.948	1.983
79	1.415	1.436	1.394	1.387	1.380
80	1.282	1.275	1.268	1.254	1.254
81	1.198	1.198	1.191	1.184	1.184
82	1.128	1.121	1.128	1.121	1.121
83	1.051	1.044	1.051	1.044	1.051
84	0.967	0.960	0.967	0.960	0.967
85	0.869	0.869	0.869	0.869	0.869
86	0.757	0.757	0.764	0.757	0.764
87	0.645	0.638	0.645	0.631	0.631
88	0.504	0.504	0.504	0.497	0.504
89	0.364	0.357	0.364	0.350	0.350
90	0.273	0.266	0.266	0.245	0.231
91	0.252	0.252	0.252	0.231	0.231
92	0.252	0.252	0.252	0.231	0.231
93	0.259	0.252	0.252	0.238	0.231
94	0.259	0.252	0.259	0.238	0.238
95	0.259	0.252	0.259	0.238	0.245
96	0.259	0.252	0.259	0.245	0.245
97	0.266	0.252	0.259	0.245	0.245
98	0.266	0.259	0.259	0.245	0.252
99	0.273	0.266	0.266	0.252	0.259
100	0.273	0.273	0.266	0.259	0.259
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

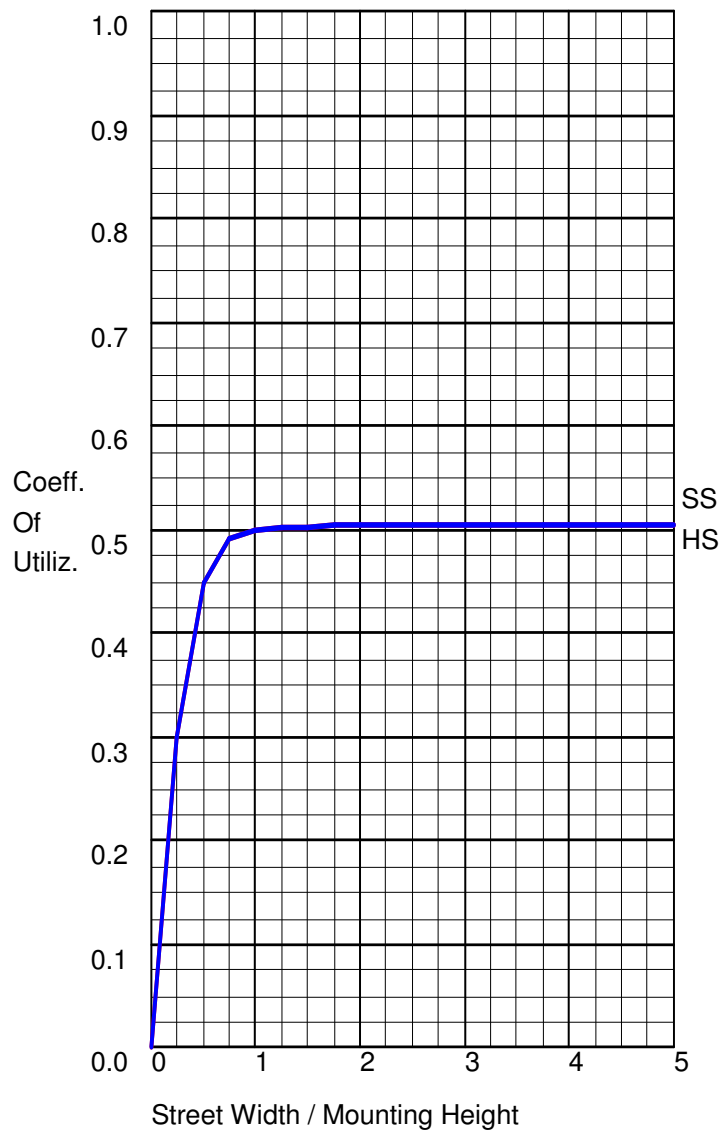
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L20-927-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

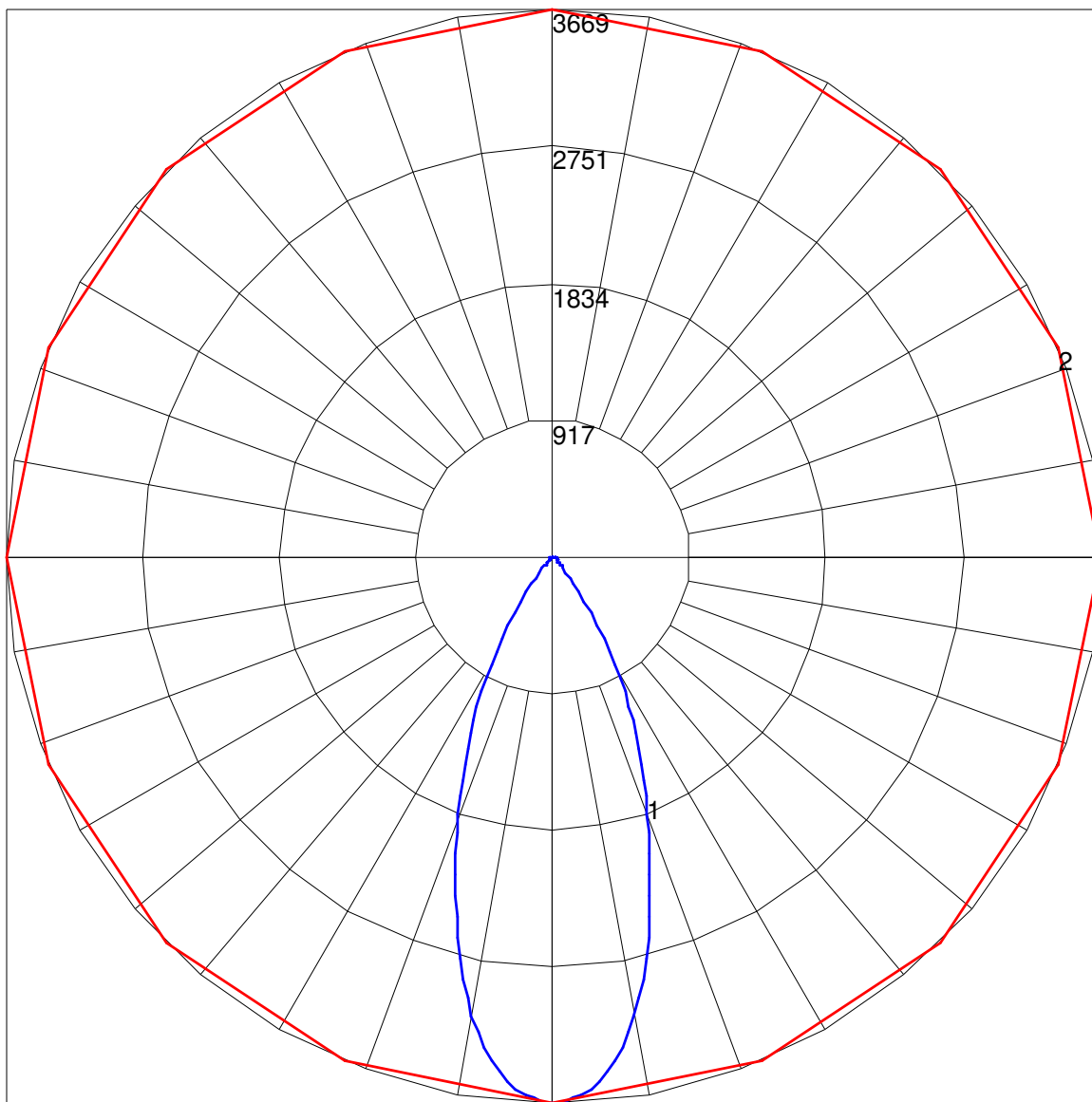
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

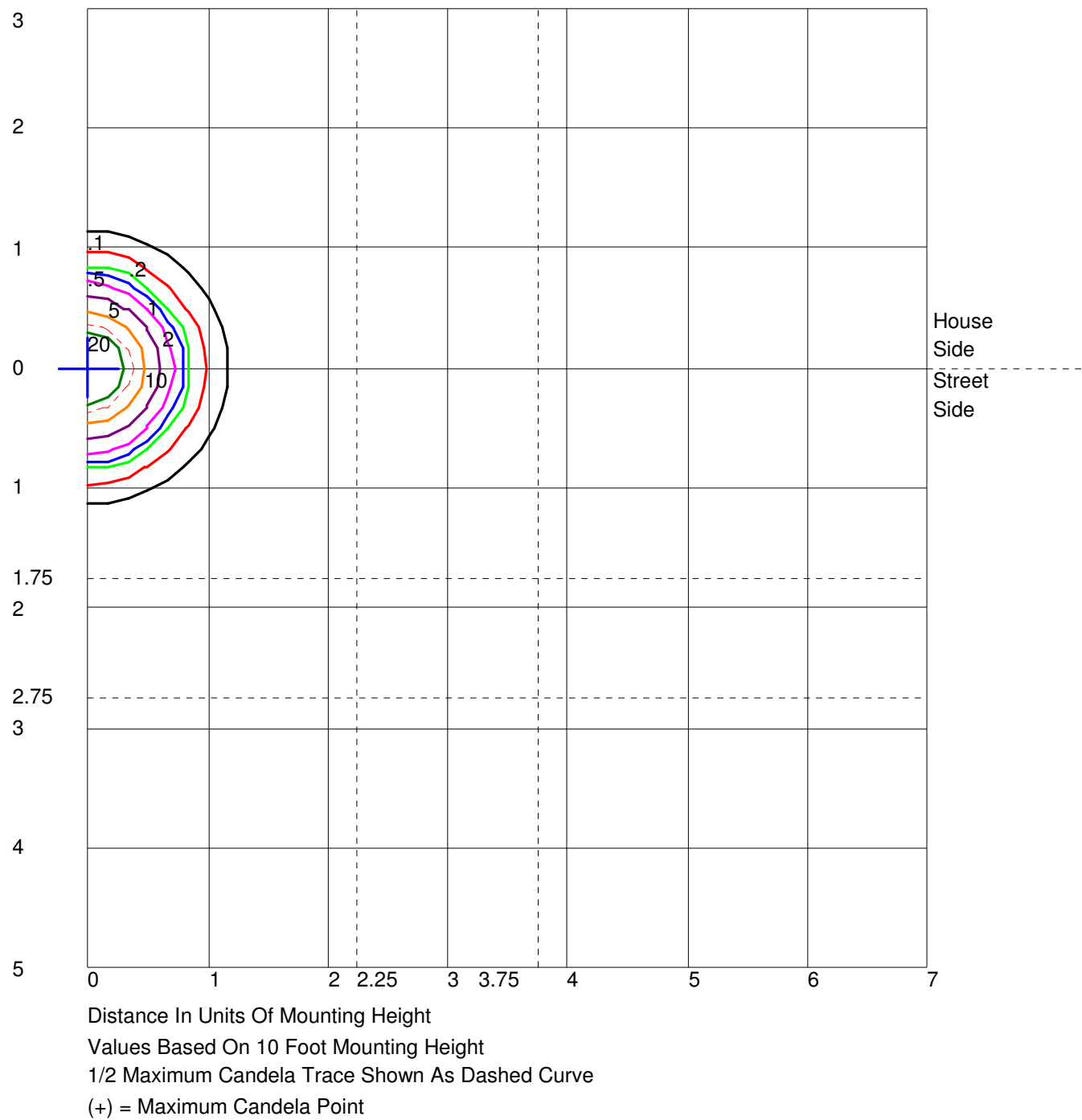
	Lumens	Percent Of Luminaire
Downward Street Side	963.8	50.0
Downward House Side	963.8	50.0
Downward Total	1927.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1927.8	100.0

POLAR GRAPH

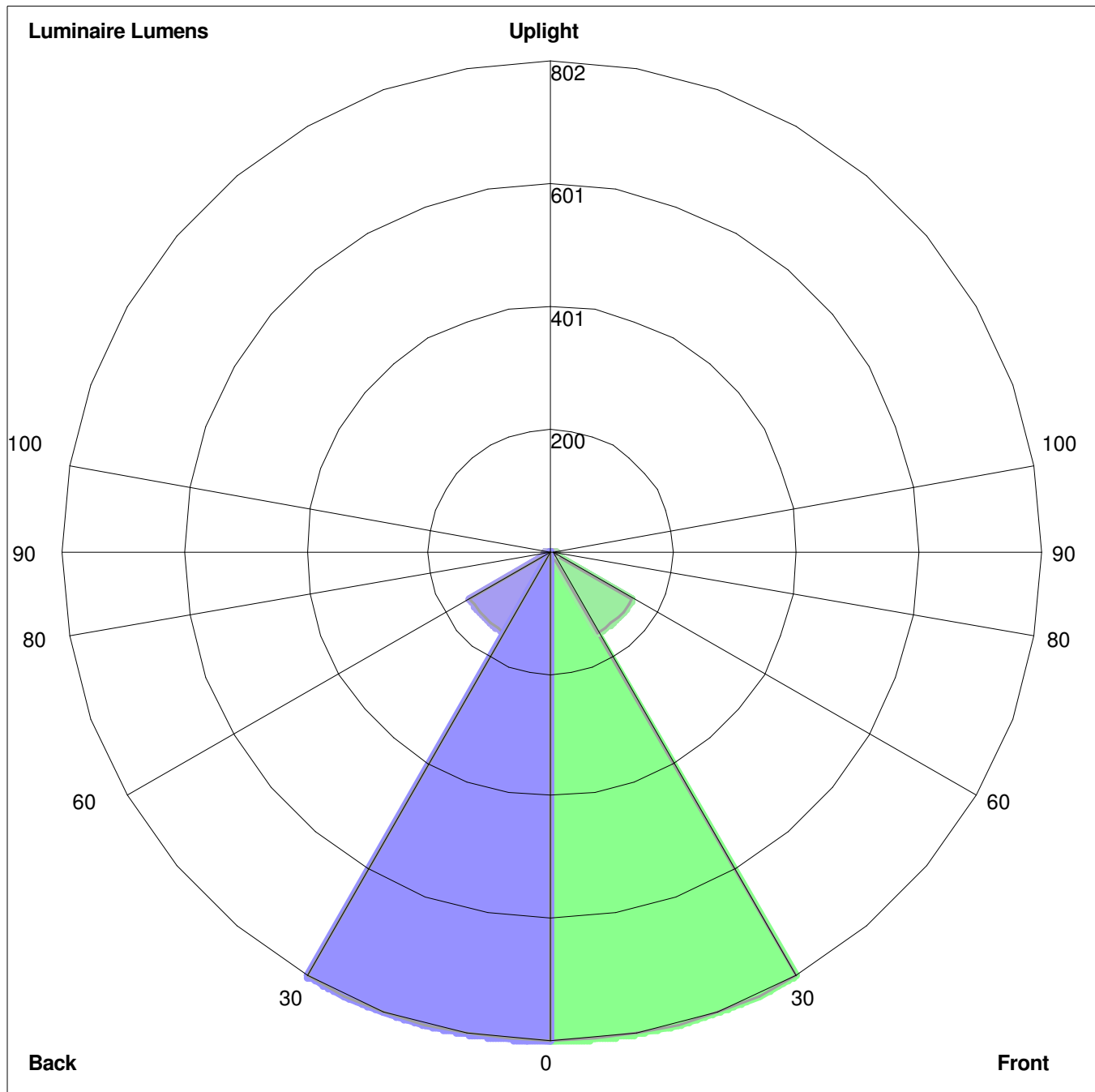


Maximum Candela = 3668.529 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=801.9, Medium=152.9, High=8.6, Very High=0.4  
Back: Low=801.9, Medium=152.9, High=8.6, Very High=0.4  
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0