

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-835-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-L15-835-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	1564
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1971.16
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1971.16
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.245 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.116 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	605.3	N.A.	38.7
FM - Front-Medium (30-60)	169.0	N.A.	10.8
FH - Front-High (60-80)	7.2	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	605.3	N.A.	38.7
BM - Back-Medium (30-60)	169.0	N.A.	10.8
BH - Back-High (60-80)	7.2	N.A.	0.5
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	1564.0	N.A.	100.0
BUG Rating	B2-U1-G0		

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-W-XXX\_.IES\_.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	1967.887	1967.887	1967.887	1967.887	1967.887
1	1964.743	1964.649	1964.959	1967.320	1969.565
2	1966.449	1965.865	1963.913	1967.747	1971.160
3	1964.603	1962.136	1963.948	1962.732	1966.952
4	1961.669	1959.687	1958.840	1961.113	1965.099
5	1959.021	1958.226	1956.455	1958.057	1960.441
6	1953.475	1954.509	1949.828	1953.422	1951.423
7	1945.655	1948.892	1945.222	1945.187	1942.978
8	1938.331	1937.665	1936.134	1936.420	1936.917
9	1928.945	1926.701	1924.877	1925.847	1925.111
10	1911.183	1911.750	1910.593	1909.448	1908.752
11	1889.313	1891.002	1888.670	1889.611	1887.268
12	1863.778	1862.089	1861.394	1864.223	1863.112
13	1830.511	1829.974	1831.522	1834.708	1834.515
14	1796.636	1793.831	1794.766	1796.069	1799.716
15	1754.415	1752.966	1750.692	1755.900	1753.936
16	1709.336	1705.105	1703.281	1707.022	1709.617
17	1659.254	1654.392	1654.707	1654.485	1660.336
18	1604.532	1602.025	1602.451	1599.126	1605.490
19	1546.817	1544.701	1544.468	1544.988	1548.623
20	1488.196	1487.957	1486.443	1487.232	1492.124
21	1431.557	1429.061	1428.407	1430.382	1431.995
22	1369.686	1372.229	1370.598	1372.241	1374.198
23	1312.813	1311.896	1311.808	1313.176	1317.834
24	1253.333	1252.211	1253.485	1256.332	1257.974
25	1193.269	1192.901	1193.999	1197.594	1198.184
26	1131.667	1131.965	1134.607	1137.529	1137.231
27	1063.923	1065.647	1071.609	1074.245	1071.603
28	993.900	994.274	1002.544	1005.267	1001.252
29	918.388	920.562	927.856	929.674	926.986
30	838.417	840.182	848.032	849.838	846.191
31	752.029	756.126	761.176	764.642	763.245
32	665.629	670.217	673.484	677.447	676.296
33	578.283	581.088	585.764	589.568	589.522
34	490.930	495.910	499.153	504.618	506.436
35	409.556	414.951	416.611	421.970	425.074
36	336.342	340.351	341.999	345.716	351.181
37	270.725	273.864	275.477	278.802	284.653
38	217.943	216.955	220.205	223.682	226.792
39	170.082	172.858	173.641	177.066	181.193
40	133.735	136.511	138.492	141.356	145.102
41	105.582	107.844	110.170	115.570	120.380
42	84.758	86.412	90.310	93.209	95.769
43	70.918	71.537	74.091	77.399	79.451
44	58.574	59.725	62.174	65.751	66.914
45	50.181	51.181	53.314	55.967	57.148
46	43.910	44.728	46.575	48.656	49.445
47	39.071	39.836	41.286	42.969	43.659
48	35.418	36.037	37.154	38.556	39.287
49	32.513	33.033	33.974	35.067	35.751
50	30.140	30.579	31.385	32.279	32.835
51	28.136	28.498	29.234	29.977	30.444
52	26.260	26.593	27.218	27.838	28.212

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

53	24.559	24.839	25.359	25.862	26.166
54	22.992	23.250	23.688	24.074	24.331
55	21.578	21.771	22.174	22.478	22.671
56	20.205	20.392	20.731	20.988	21.105
57	18.907	19.053	19.328	19.556	19.632
58	17.639	17.762	17.990	18.182	18.247
59	16.406	16.499	16.674	16.856	16.914
60	15.190	15.272	15.424	15.564	15.628
61	14.050	14.115	14.231	14.348	14.383
62	12.987	13.022	13.103	13.203	13.232
63	11.981	12.011	12.063	12.139	12.180
64	11.052	11.075	11.110	11.175	11.216
65	10.216	10.240	10.245	10.292	10.357
66	9.433	9.456	9.451	9.492	9.532
67	8.726	8.743	8.726	8.755	8.790
68	8.071	8.077	8.065	8.065	8.106
69	7.458	7.452	7.434	7.423	7.452
70	6.873	6.861	6.826	6.803	6.826
71	6.306	6.283	6.236	6.201	6.213
72	5.745	5.722	5.669	5.617	5.640
73	5.202	5.161	5.091	5.038	5.067
74	4.641	4.594	4.524	4.465	4.500
75	4.039	4.004	3.928	3.887	3.910
76	3.378	3.349	3.267	3.250	3.261
77	2.630	2.618	2.537	2.525	2.537
78	1.777	1.777	1.712	1.677	1.689
79	1.233	1.245	1.216	1.210	1.192
80	1.116	1.110	1.105	1.099	1.093
81	1.040	1.040	1.040	1.034	1.034
82	0.982	0.976	0.982	0.976	0.976
83	0.912	0.912	0.918	0.912	0.912
84	0.842	0.836	0.847	0.836	0.836
85	0.760	0.754	0.760	0.754	0.754
86	0.666	0.666	0.666	0.660	0.660
87	0.561	0.555	0.561	0.555	0.549
88	0.444	0.438	0.444	0.438	0.432
89	0.321	0.316	0.316	0.304	0.304
90	0.245	0.234	0.234	0.216	0.205
91	0.228	0.216	0.222	0.210	0.205
92	0.228	0.216	0.222	0.205	0.205
93	0.228	0.222	0.222	0.210	0.205
94	0.228	0.222	0.222	0.210	0.210
95	0.234	0.222	0.222	0.210	0.210
96	0.234	0.222	0.222	0.210	0.210
97	0.234	0.228	0.228	0.216	0.216
98	0.234	0.228	0.234	0.216	0.222
99	0.240	0.234	0.234	0.222	0.222
100	0.240	0.234	0.240	0.222	0.228
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

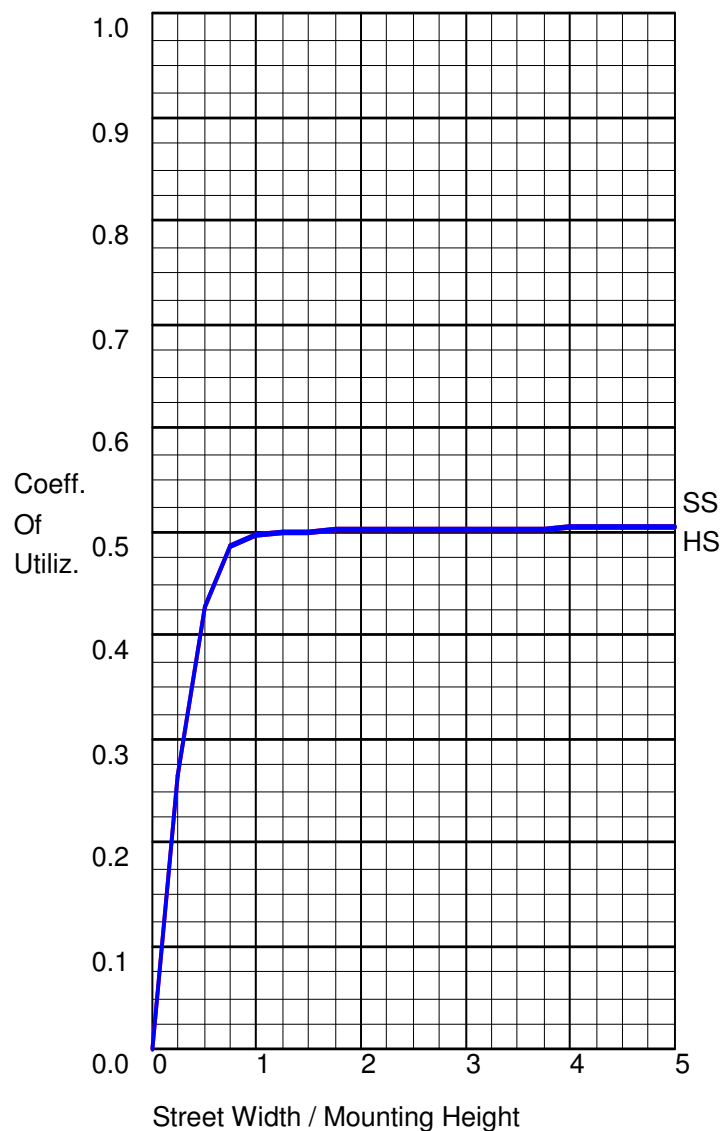
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L15-835-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

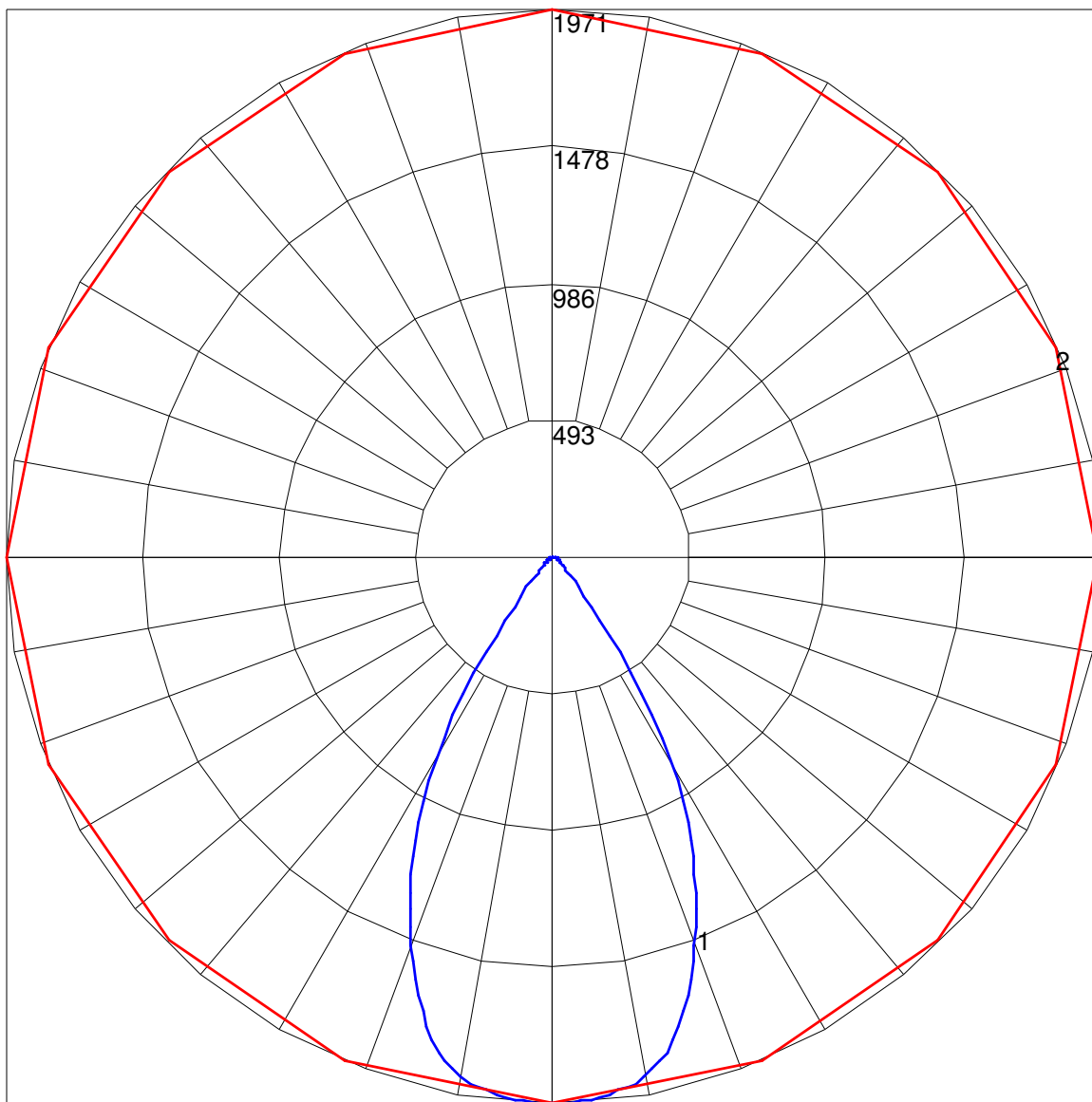
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	781.8	50.0
Downward House Side	781.8	50.0
Downward Total	1563.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1563.8	100.0

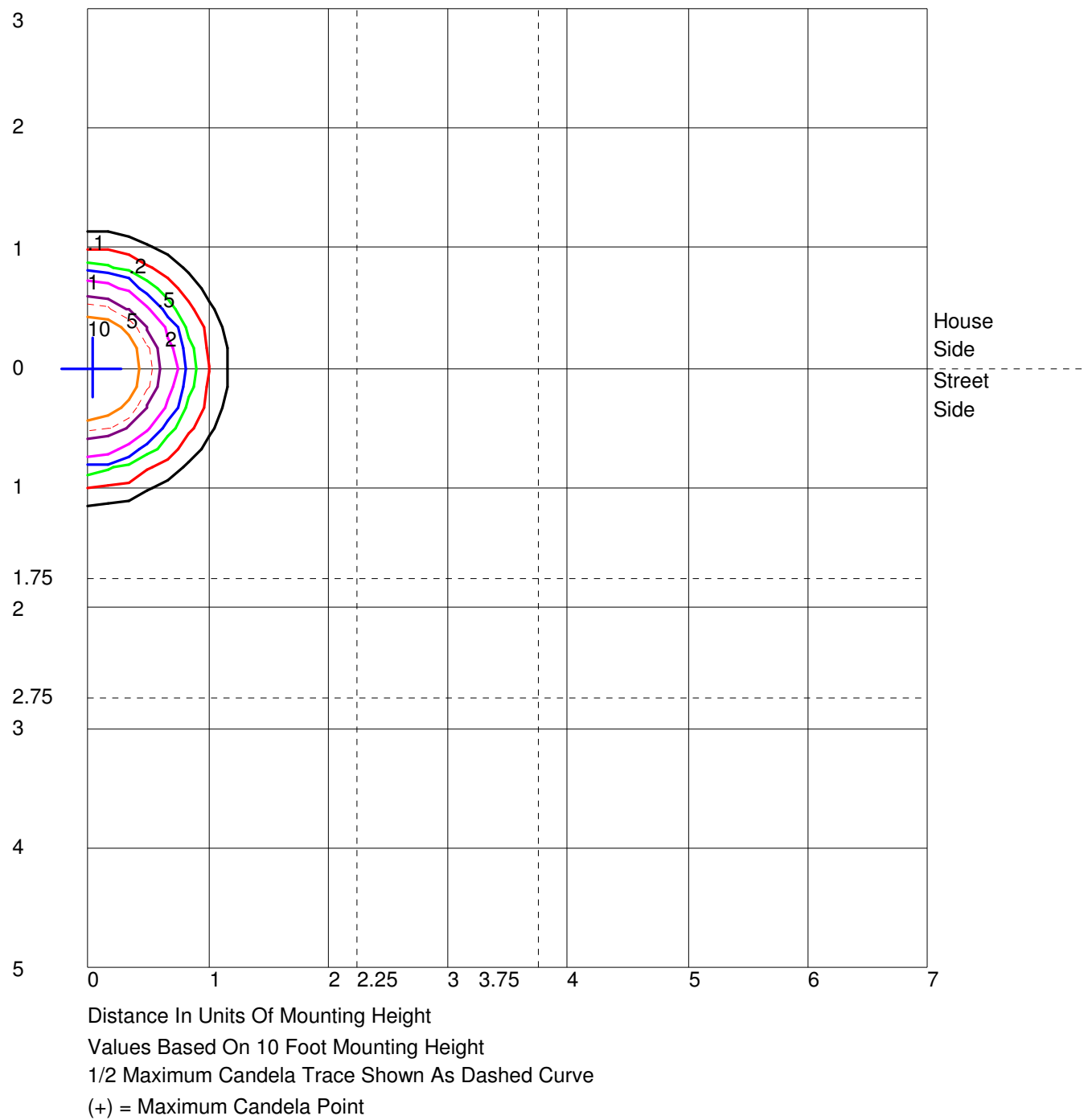
POLAR GRAPH



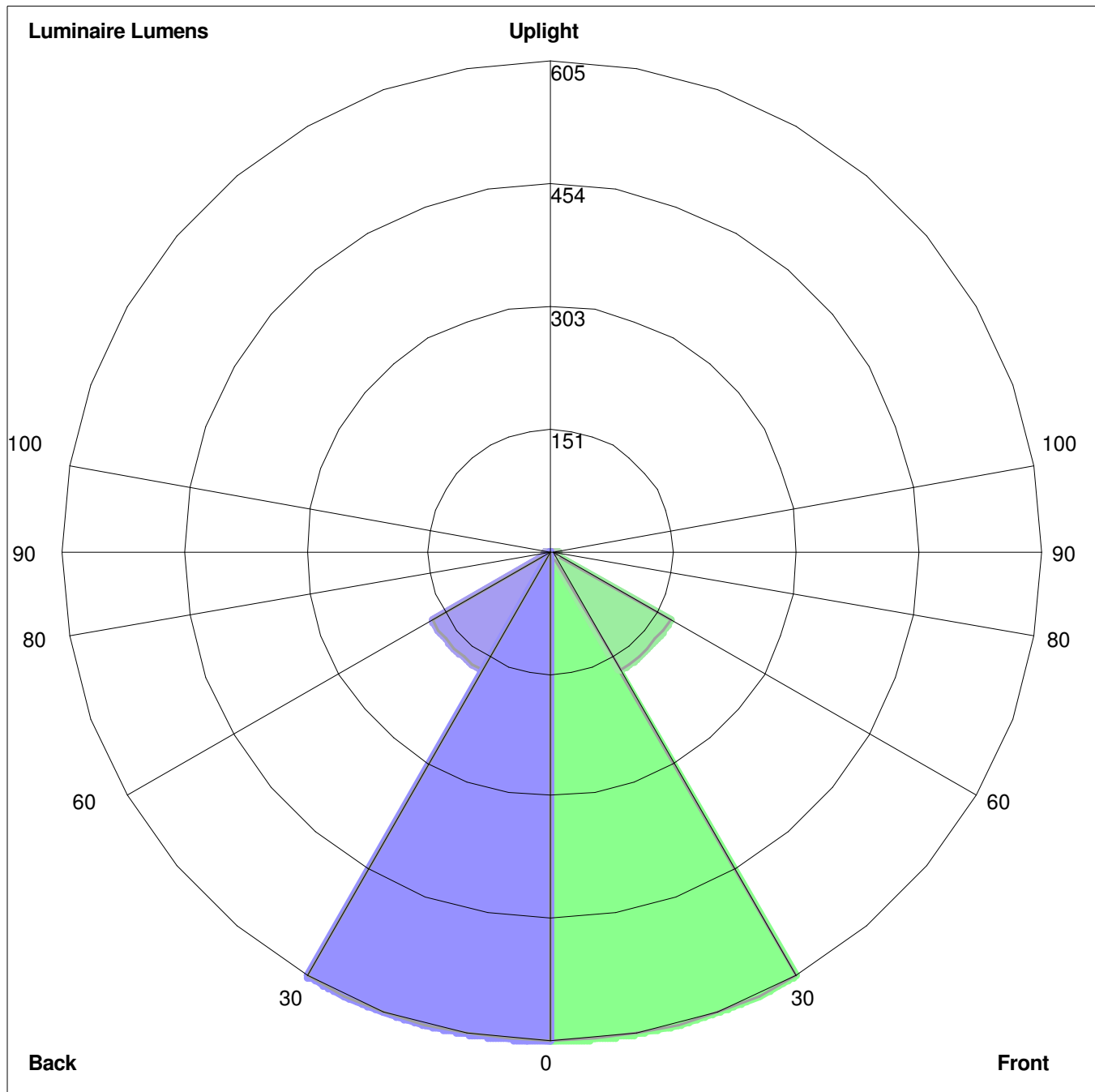
Maximum Candela = 1971.16 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=605.3, Medium=169.0, High=7.2, Very High=0.4  
Back: Low=605.3, Medium=169.0, High=7.2, Very High=0.4  
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0