

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-950-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-L10-950-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	1008
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1270.352
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1270.352
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.158 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.719 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	390.1	N.A.	38.7
FM - Front-Medium (30-60)	108.9	N.A.	10.8
FH - Front-High (60-80)	4.7	N.A.	0.5
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	390.1	N.A.	38.7
BM - Back-Medium (30-60)	108.9	N.A.	10.8
BH - Back-High (60-80)	4.7	N.A.	0.5
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	1008.2	N.A.	100.0
BUG Rating	B1-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	1268.243	1268.243	1268.243	1268.243	1268.243
1	1266.216	1266.156	1266.356	1267.877	1269.324
2	1267.316	1266.940	1265.682	1268.152	1270.352
3	1266.126	1264.536	1265.704	1264.921	1267.640
4	1264.235	1262.958	1262.412	1263.877	1266.446
5	1262.529	1262.017	1260.875	1261.907	1263.444
6	1258.954	1259.621	1256.604	1258.920	1257.632
7	1253.915	1256.001	1253.636	1253.613	1252.189
8	1249.195	1248.766	1247.779	1247.963	1248.283
9	1243.146	1241.699	1240.524	1241.149	1240.675
10	1231.699	1232.064	1231.319	1230.580	1230.132
11	1217.604	1218.693	1217.190	1217.796	1216.286
12	1201.148	1200.059	1199.611	1201.434	1200.718
13	1179.708	1179.362	1180.360	1182.413	1182.288
14	1157.877	1156.069	1156.672	1157.511	1159.862
15	1130.667	1129.733	1128.267	1131.623	1130.358
16	1101.615	1098.888	1097.712	1100.123	1101.796
17	1069.338	1066.205	1066.408	1066.265	1070.035
18	1034.072	1032.456	1032.731	1030.587	1034.689
19	996.876	995.513	995.362	995.697	998.040
20	959.097	958.942	957.967	958.475	961.628
21	922.594	920.986	920.564	921.837	922.877
22	882.721	884.359	883.308	884.367	885.629
23	846.068	845.476	845.420	846.301	849.303
24	807.735	807.012	807.833	809.667	810.725
25	769.025	768.788	769.496	771.812	772.193
26	729.325	729.517	731.219	733.103	732.911
27	685.666	686.777	690.619	692.318	690.615
28	640.538	640.779	646.109	647.864	645.276
29	591.873	593.274	597.975	599.146	597.414
30	540.334	541.472	546.530	547.694	545.344
31	484.660	487.300	490.554	492.788	491.888
32	428.978	431.934	434.040	436.594	435.852
33	372.685	374.493	377.507	379.959	379.929
34	316.389	319.598	321.689	325.211	326.382
35	263.947	267.423	268.493	271.947	273.947
36	216.762	219.346	220.408	222.804	226.325
37	174.474	176.497	177.536	179.680	183.450
38	140.458	139.821	141.915	144.156	146.160
39	109.613	111.402	111.907	114.114	116.773
40	86.188	87.977	89.254	91.100	93.514
41	68.044	69.502	71.001	74.481	77.581
42	54.624	55.690	58.202	60.070	61.720
43	45.704	46.104	47.750	49.881	51.204
44	37.749	38.491	40.069	42.375	43.124
45	32.340	32.984	34.359	36.069	36.830
46	28.299	28.826	30.016	31.357	31.866
47	25.180	25.673	26.607	27.692	28.137
48	22.826	23.225	23.944	24.848	25.319
49	20.954	21.289	21.895	22.600	23.040
50	19.425	19.707	20.227	20.803	21.161
51	18.133	18.366	18.841	19.319	19.620
52	16.923	17.138	17.541	17.940	18.182

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	15.827	16.008	16.343	16.667	16.863
54	14.818	14.984	15.266	15.515	15.680
55	13.906	14.031	14.291	14.486	14.611
56	13.021	13.142	13.360	13.526	13.601
57	12.185	12.279	12.456	12.603	12.652
58	11.368	11.447	11.594	11.718	11.759
59	10.573	10.633	10.746	10.863	10.901
60	9.789	9.842	9.940	10.031	10.072
61	9.055	9.096	9.172	9.247	9.270
62	8.369	8.392	8.445	8.509	8.528
63	7.722	7.740	7.774	7.823	7.850
64	7.123	7.138	7.160	7.202	7.228
65	6.584	6.599	6.603	6.633	6.674
66	6.079	6.094	6.091	6.117	6.143
67	5.624	5.635	5.624	5.642	5.665
68	5.202	5.205	5.198	5.198	5.224
69	4.806	4.802	4.791	4.784	4.802
70	4.430	4.422	4.399	4.384	4.399
71	4.064	4.049	4.019	3.996	4.004
72	3.703	3.688	3.654	3.620	3.635
73	3.352	3.326	3.281	3.247	3.266
74	2.991	2.961	2.915	2.878	2.900
75	2.603	2.580	2.531	2.505	2.520
76	2.177	2.158	2.106	2.094	2.102
77	1.695	1.687	1.635	1.627	1.635
78	1.145	1.145	1.104	1.081	1.089
79	0.795	0.802	0.783	0.780	0.768
80	0.719	0.716	0.712	0.708	0.704
81	0.670	0.670	0.670	0.667	0.667
82	0.633	0.629	0.633	0.629	0.629
83	0.588	0.588	0.591	0.588	0.588
84	0.542	0.539	0.546	0.539	0.539
85	0.490	0.486	0.490	0.486	0.486
86	0.429	0.429	0.429	0.426	0.426
87	0.362	0.358	0.362	0.358	0.354
88	0.286	0.282	0.286	0.282	0.279
89	0.207	0.203	0.203	0.196	0.196
90	0.158	0.151	0.151	0.139	0.132
91	0.147	0.139	0.143	0.136	0.132
92	0.147	0.139	0.143	0.132	0.132
93	0.147	0.143	0.143	0.136	0.132
94	0.147	0.143	0.143	0.136	0.136
95	0.151	0.143	0.143	0.136	0.136
96	0.151	0.143	0.143	0.136	0.136
97	0.151	0.147	0.147	0.139	0.139
98	0.151	0.147	0.151	0.139	0.143
99	0.154	0.151	0.151	0.143	0.143
100	0.154	0.151	0.154	0.143	0.147
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

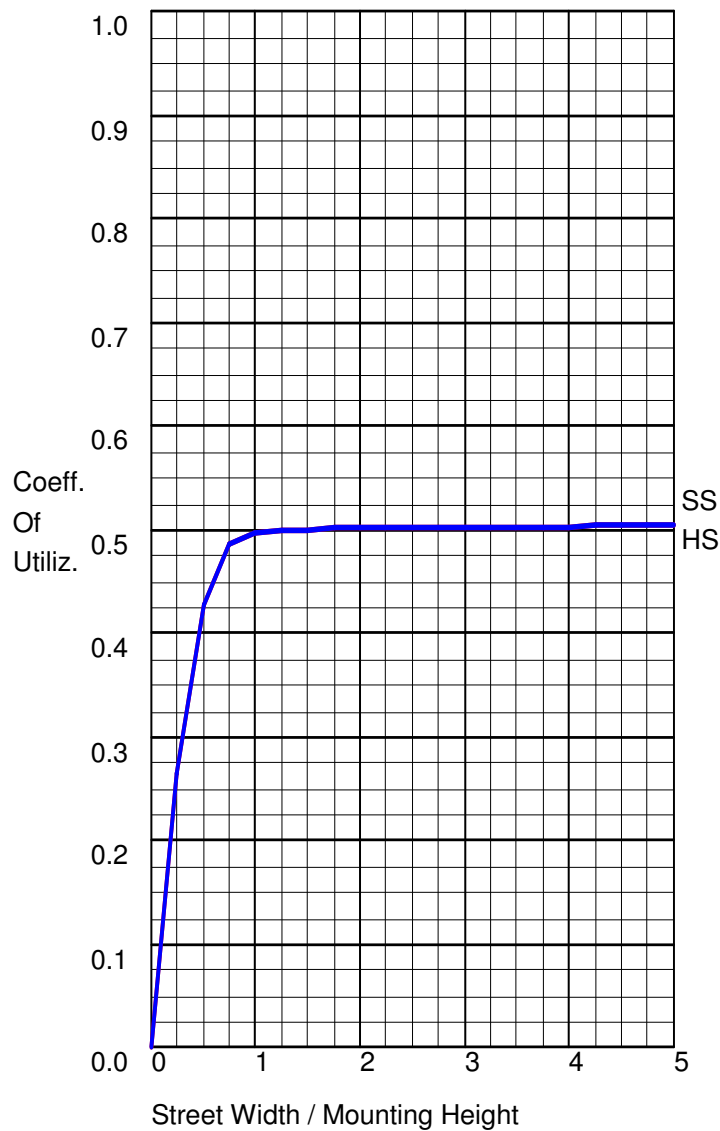
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L10-950-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

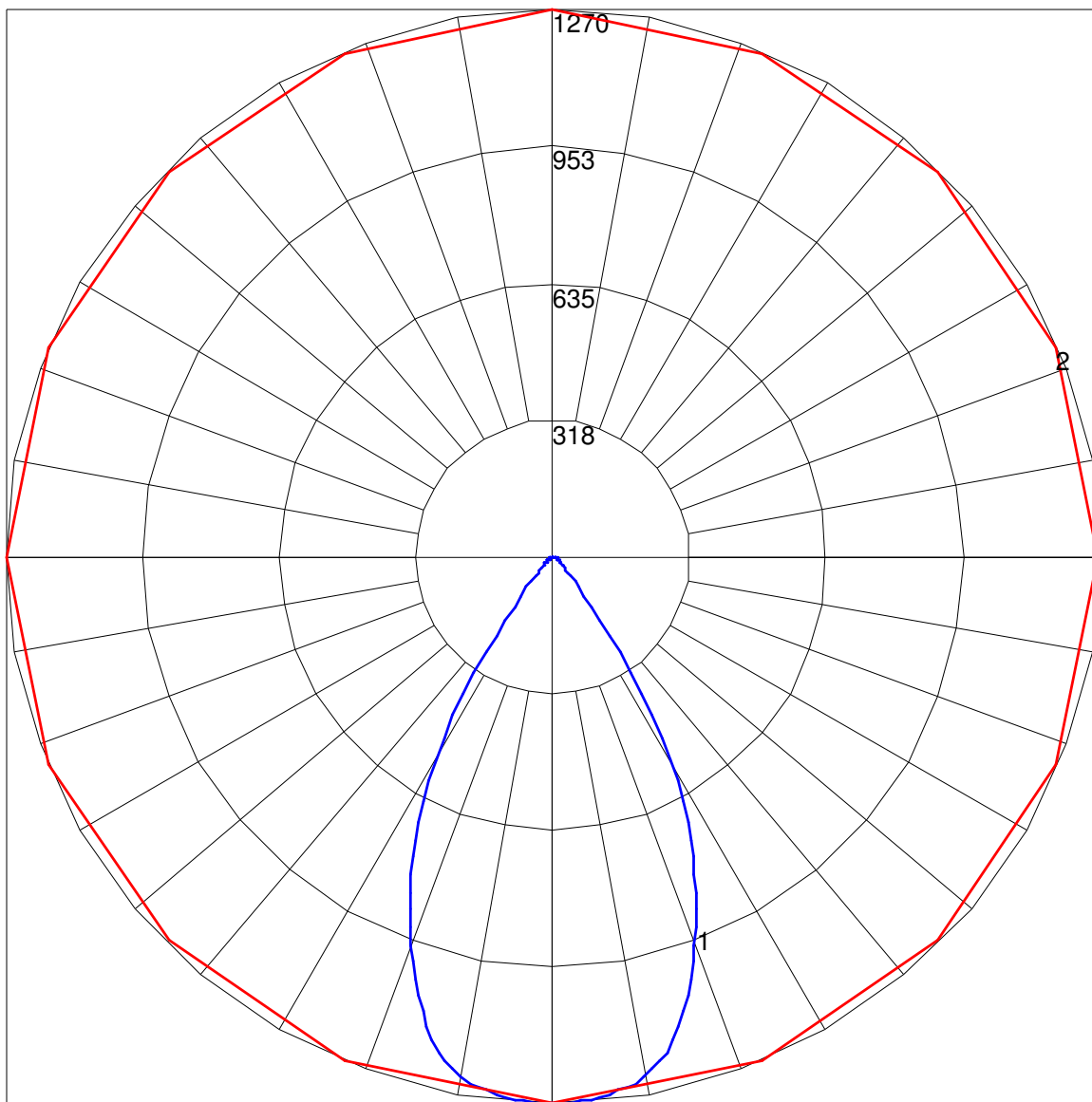
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	503.9	50.0
Downward House Side	503.9	50.0
Downward Total	1007.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1008.0	100.0

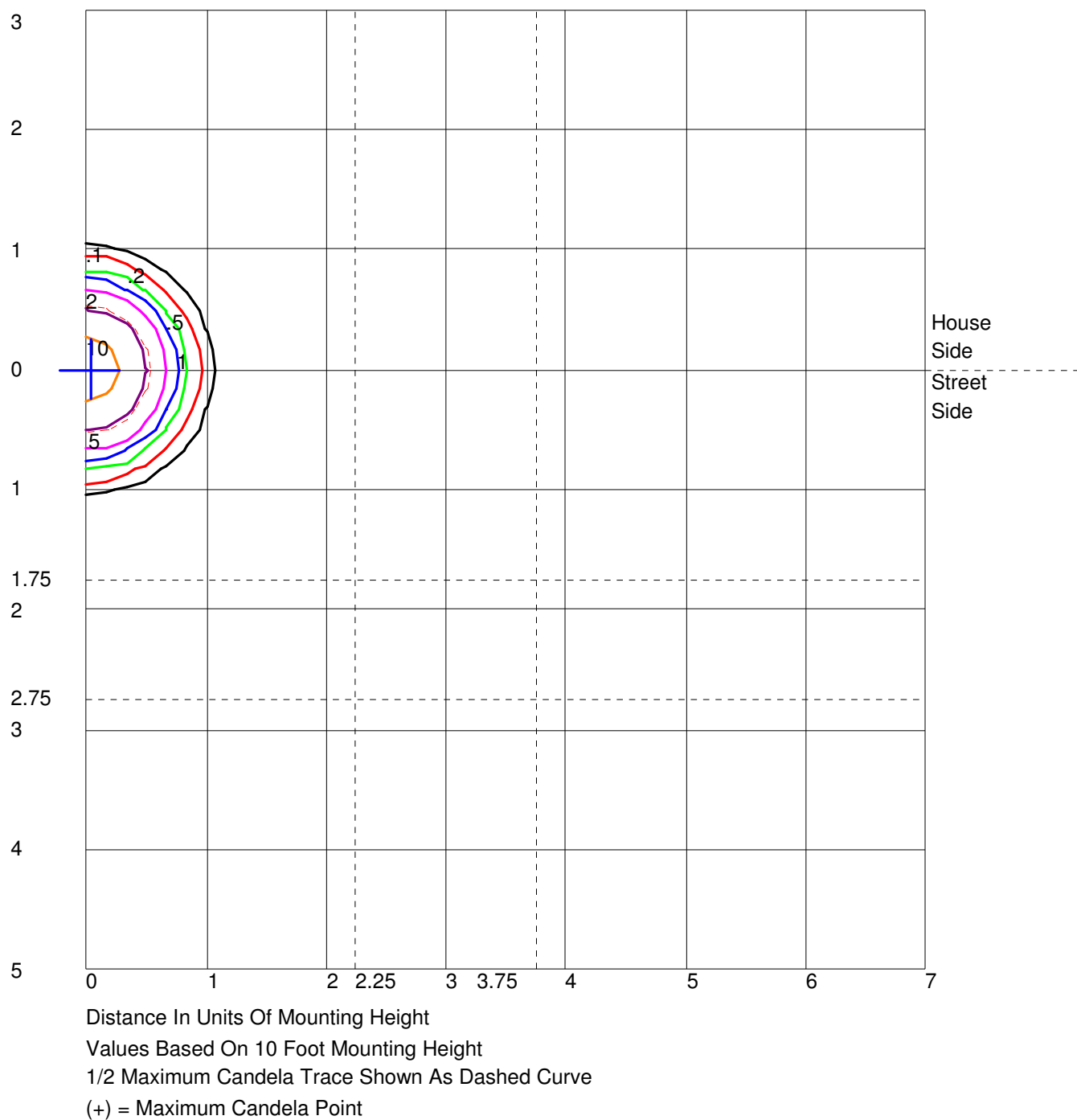
POLAR GRAPH



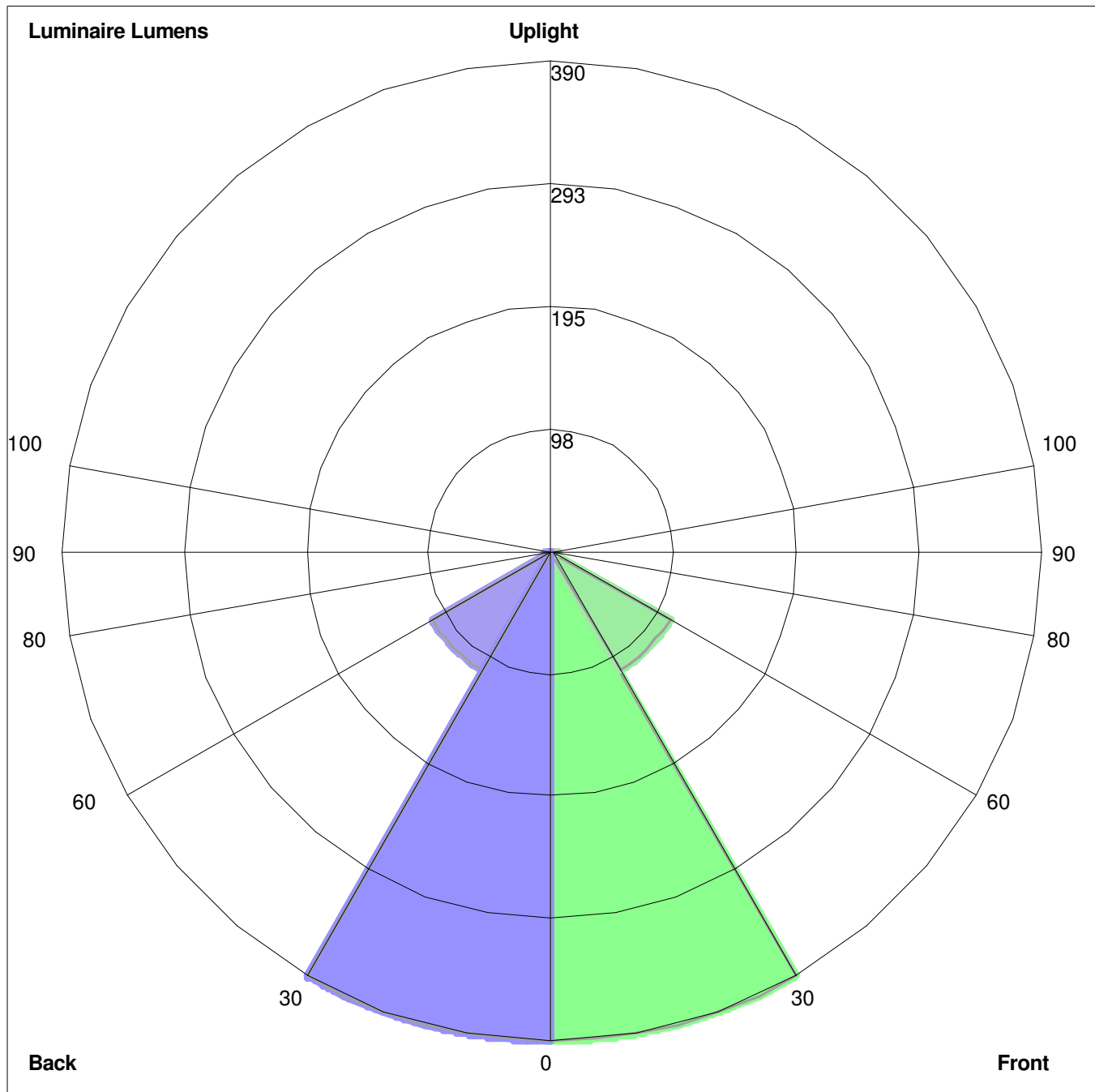
Maximum Candela = 1270.352 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=390.1, Medium=108.9, High=4.7, Very High=0.3  
 Back: Low=390.1, Medium=108.9, High=4.7, Very High=0.3  
 Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0