

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-850-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-L10-850-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	1050
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1323.841
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1323.841
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.165 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.75 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	406.5	N.A.	38.7
FM - Front-Medium (30-60)	113.5	N.A.	10.8
FH - Front-High (60-80)	4.9	N.A.	0.5
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	406.5	N.A.	38.7
BM - Back-Medium (30-60)	113.5	N.A.	10.8
BH - Back-High (60-80)	4.9	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	1050.6	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	1321.643	1321.643	1321.643	1321.643	1321.643
1	1319.531	1319.468	1319.676	1321.262	1322.769
2	1320.677	1320.284	1318.973	1321.548	1323.841
3	1319.437	1317.780	1318.997	1318.180	1321.014
4	1317.466	1316.135	1315.566	1317.093	1319.770
5	1315.688	1315.154	1313.965	1315.040	1316.642
6	1311.963	1312.658	1309.514	1311.928	1310.585
7	1306.711	1308.886	1306.421	1306.397	1304.913
8	1301.793	1301.345	1300.317	1300.509	1300.843
9	1295.489	1293.981	1292.757	1293.408	1292.914
10	1283.560	1283.941	1283.164	1282.394	1281.927
11	1268.872	1270.006	1268.440	1269.072	1267.498
12	1251.723	1250.588	1250.121	1252.021	1251.275
13	1229.380	1229.019	1230.059	1232.198	1232.069
14	1206.630	1204.745	1205.373	1206.249	1208.698
15	1178.274	1177.300	1175.773	1179.271	1177.952
16	1147.998	1145.157	1143.932	1146.444	1148.187
17	1114.363	1111.097	1111.309	1111.160	1115.089
18	1077.611	1075.927	1076.214	1073.981	1078.255
19	1038.850	1037.429	1037.272	1037.621	1040.063
20	999.480	999.319	998.302	998.832	1002.118
21	961.440	959.764	959.325	960.651	961.735
22	919.888	921.595	920.500	921.603	922.918
23	881.692	881.075	881.017	881.935	885.063
24	841.745	840.991	841.847	843.758	844.861
25	801.405	801.158	801.896	804.310	804.706
26	760.033	760.233	762.008	763.970	763.770
27	714.536	715.694	719.698	721.468	719.694
28	667.508	667.759	673.313	675.142	672.446
29	616.794	618.254	623.153	624.374	622.568
30	563.085	564.271	569.542	570.755	568.306
31	505.066	507.818	511.209	513.537	512.599
32	447.040	450.121	452.315	454.977	454.203
33	388.377	390.261	393.402	395.957	395.926
34	329.711	333.055	335.234	338.904	340.125
35	275.060	278.683	279.798	283.397	285.482
36	225.889	228.581	229.688	232.185	235.855
37	181.820	183.928	185.012	187.245	191.174
38	146.372	145.708	147.891	150.226	152.314
39	114.228	116.092	116.618	118.919	121.690
40	89.817	91.681	93.012	94.935	97.452
41	70.909	72.428	73.990	77.617	80.848
42	56.924	58.034	60.653	62.599	64.319
43	47.629	48.045	49.760	51.982	53.359
44	39.339	40.112	41.757	44.159	44.940
45	33.702	34.373	35.806	37.588	38.381
46	29.490	30.040	31.280	32.677	33.207
47	26.240	26.754	27.728	28.858	29.321
48	23.787	24.203	24.953	25.895	26.385
49	21.836	22.185	22.817	23.551	24.011
50	20.242	20.537	21.078	21.679	22.052
51	18.896	19.139	19.634	20.132	20.446
52	17.636	17.860	18.280	18.696	18.947

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	16.494	16.682	17.032	17.369	17.573
54	15.442	15.615	15.909	16.168	16.341
55	14.492	14.621	14.892	15.096	15.226
56	13.569	13.695	13.923	14.095	14.174
57	12.698	12.796	12.981	13.134	13.185
58	11.846	11.929	12.082	12.211	12.255
59	11.018	11.081	11.199	11.320	11.360
60	10.202	10.257	10.359	10.453	10.496
61	9.436	9.479	9.558	9.636	9.660
62	8.722	8.745	8.800	8.867	8.887
63	8.047	8.066	8.102	8.153	8.180
64	7.423	7.438	7.462	7.505	7.533
65	6.861	6.877	6.881	6.912	6.955
66	6.335	6.351	6.347	6.375	6.402
67	5.860	5.872	5.860	5.880	5.904
68	5.421	5.425	5.417	5.417	5.444
69	5.009	5.005	4.993	4.985	5.005
70	4.616	4.608	4.585	4.569	4.585
71	4.235	4.220	4.188	4.165	4.173
72	3.858	3.843	3.807	3.772	3.788
73	3.493	3.466	3.419	3.384	3.403
74	3.117	3.085	3.038	2.999	3.022
75	2.712	2.689	2.638	2.610	2.626
76	2.269	2.249	2.194	2.182	2.190
77	1.766	1.759	1.704	1.696	1.704
78	1.193	1.193	1.150	1.127	1.134
79	0.828	0.836	0.816	0.813	0.801
80	0.750	0.746	0.742	0.738	0.734
81	0.699	0.699	0.699	0.695	0.695
82	0.659	0.656	0.659	0.656	0.656
83	0.612	0.612	0.616	0.612	0.612
84	0.565	0.561	0.569	0.561	0.561
85	0.510	0.506	0.510	0.506	0.506
86	0.447	0.447	0.447	0.444	0.444
87	0.377	0.373	0.377	0.373	0.369
88	0.298	0.294	0.298	0.294	0.290
89	0.216	0.212	0.212	0.204	0.204
90	0.165	0.157	0.157	0.145	0.137
91	0.153	0.145	0.149	0.141	0.137
92	0.153	0.145	0.149	0.137	0.137
93	0.153	0.149	0.149	0.141	0.137
94	0.153	0.149	0.149	0.141	0.141
95	0.157	0.149	0.149	0.141	0.141
96	0.157	0.149	0.149	0.141	0.141
97	0.157	0.153	0.153	0.145	0.145
98	0.157	0.153	0.157	0.145	0.149
99	0.161	0.157	0.157	0.149	0.149
100	0.161	0.157	0.161	0.149	0.153
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

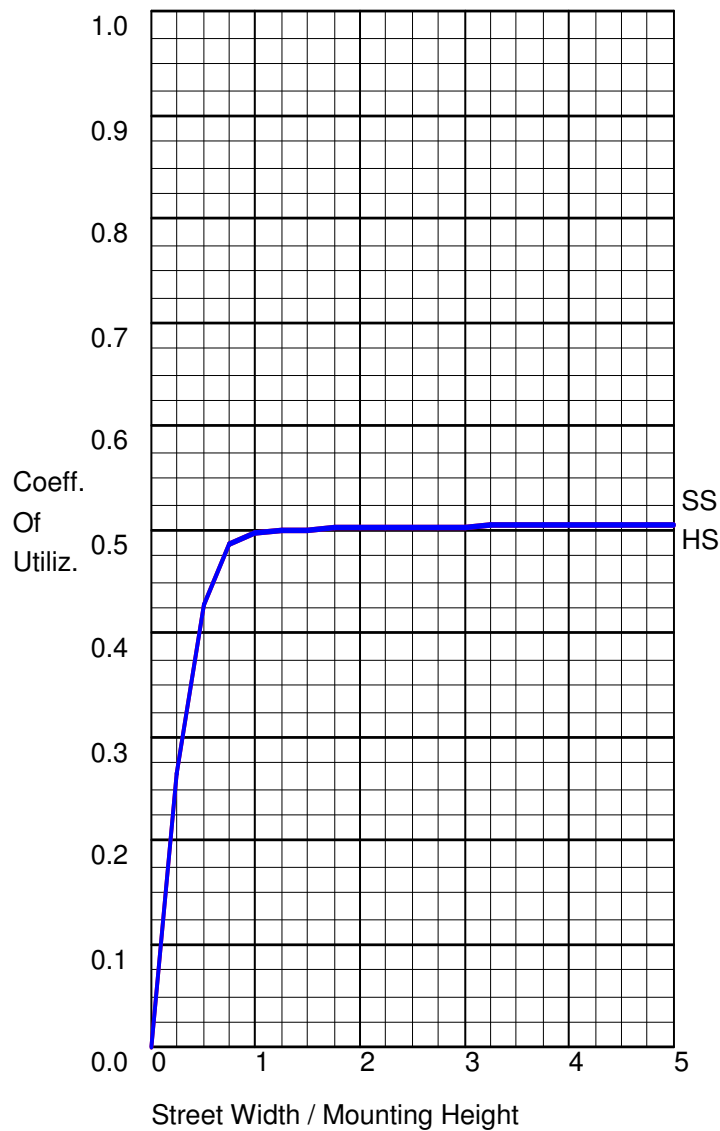
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L10-850-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

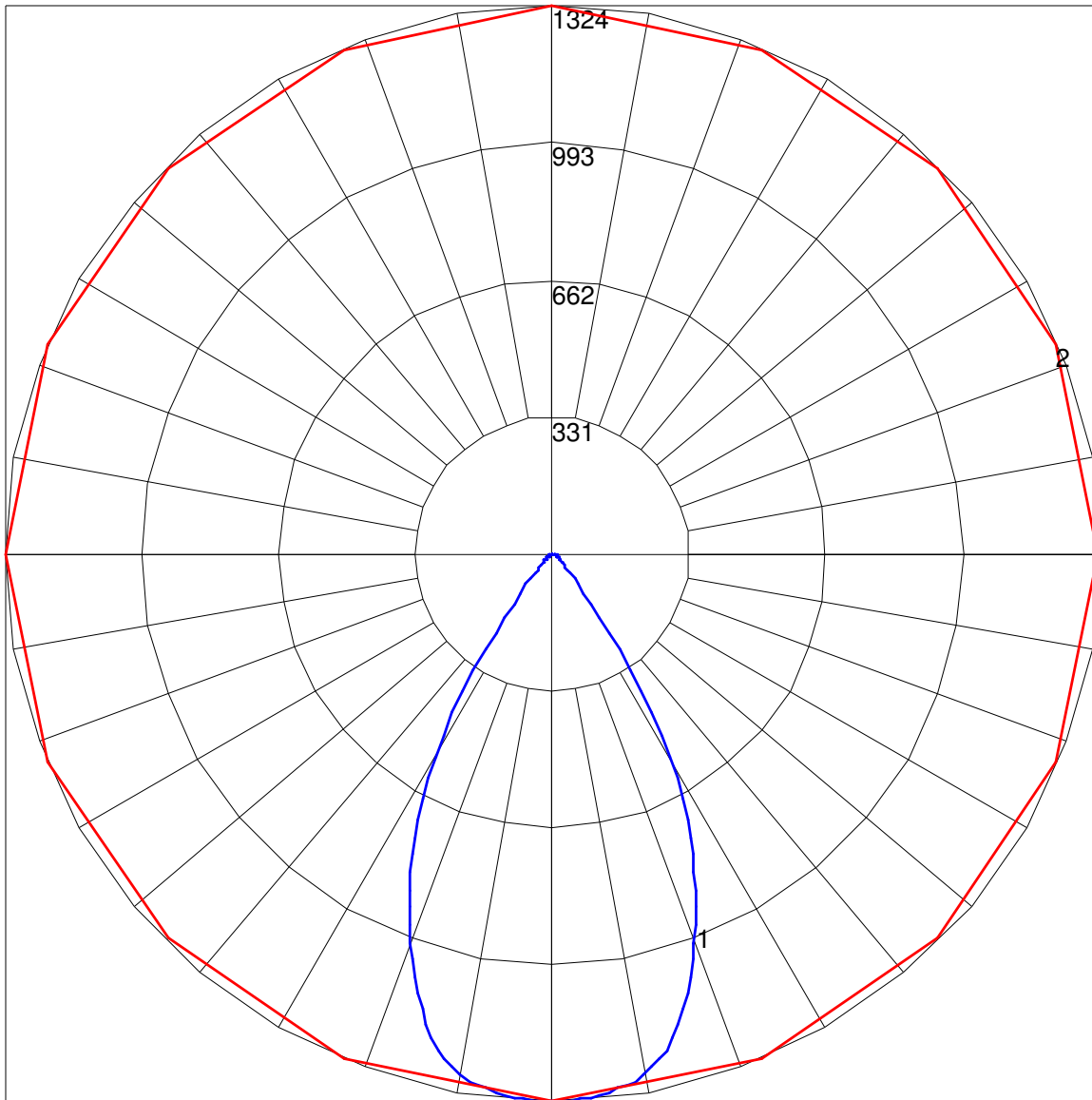
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

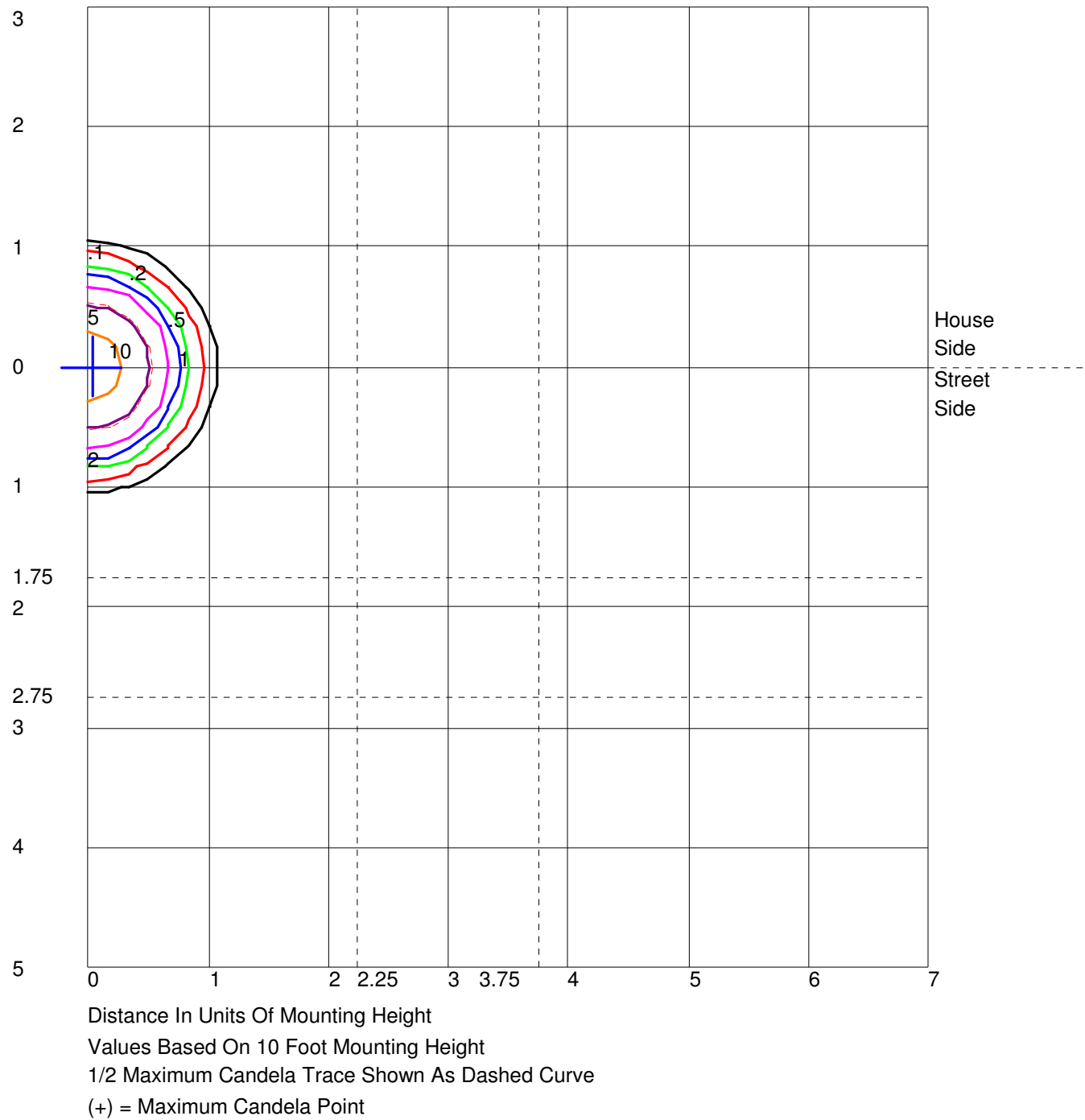
	Lumens	Percent Of Luminaire
Downward Street Side	525.1	50.0
Downward House Side	525.1	50.0
Downward Total	1050.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1050.4	100.0

POLAR GRAPH

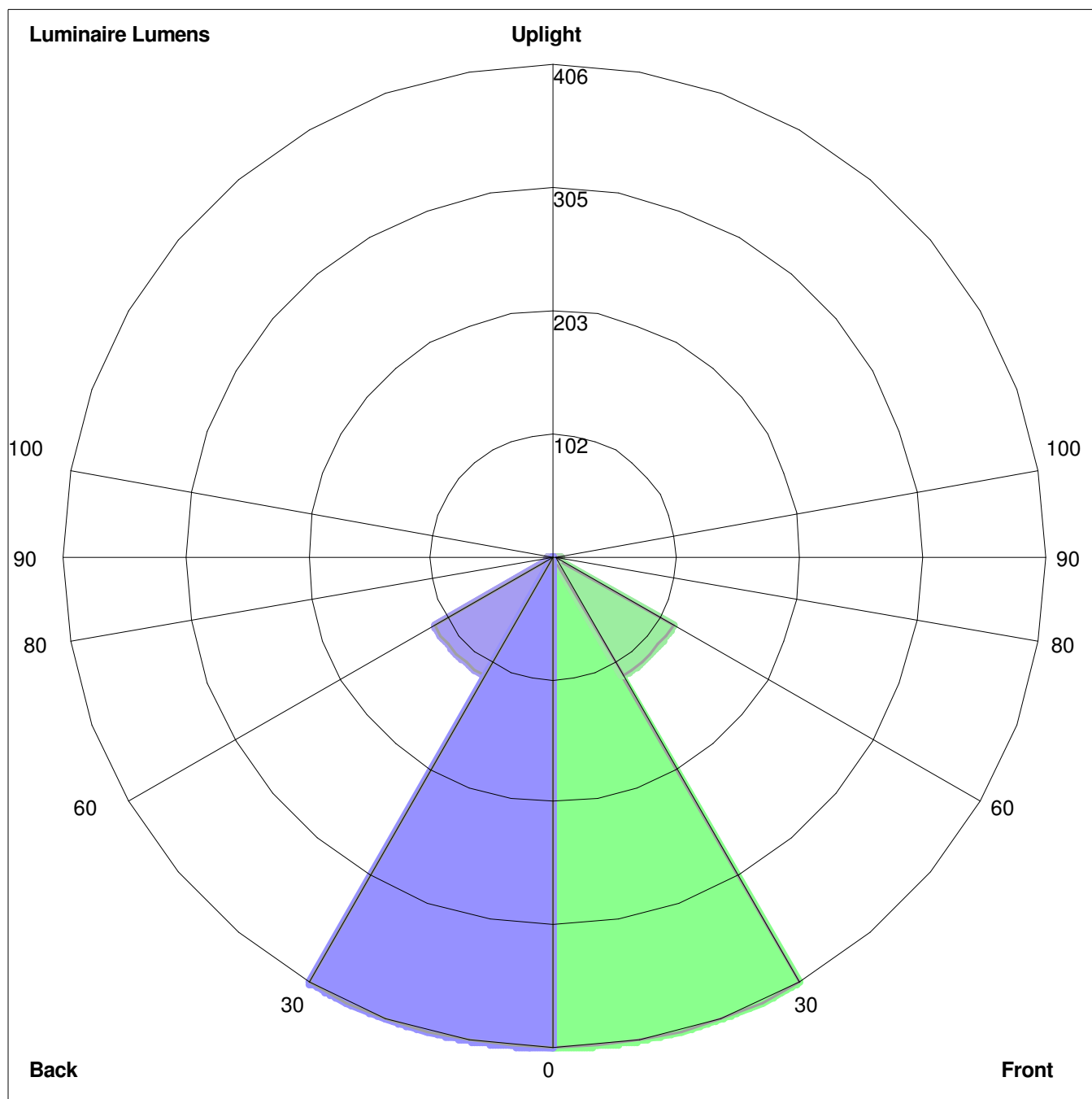


Maximum Candela = 1323.841 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=406.5, Medium=113.5, High=4.9, Very High=0.3  
Back: Low=406.5, Medium=113.5, High=4.9, Very High=0.3  
Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0