

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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-L10-840-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	1072
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1350.585
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1350.585
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.168 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.765 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	414.7	N.A.	38.7
FM - Front-Medium (30-60)	115.8	N.A.	10.8
FH - Front-High (60-80)	5.0	N.A.	0.5
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	414.7	N.A.	38.7
BM - Back-Medium (30-60)	115.8	N.A.	10.8
BH - Back-High (60-80)	5.0	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	1071.8	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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	1348.343	1348.343	1348.343	1348.343	1348.343
1	1346.188	1346.124	1346.336	1347.954	1349.492
2	1347.357	1346.957	1345.619	1348.246	1350.585
3	1346.092	1344.402	1345.644	1344.811	1347.702
4	1344.082	1342.724	1342.144	1343.701	1346.432
5	1342.268	1341.723	1340.510	1341.607	1343.241
6	1338.467	1339.176	1335.969	1338.431	1337.062
7	1333.109	1335.328	1332.813	1332.789	1331.275
8	1328.092	1327.635	1326.586	1326.782	1327.123
9	1321.660	1320.123	1318.873	1319.538	1319.033
10	1309.491	1309.879	1309.086	1308.301	1307.825
11	1294.506	1295.663	1294.065	1294.710	1293.104
12	1277.010	1275.853	1275.376	1277.314	1276.554
13	1254.216	1253.848	1254.909	1257.092	1256.959
14	1231.006	1229.084	1229.725	1230.618	1233.116
15	1202.077	1201.084	1199.527	1203.095	1201.749
16	1171.191	1168.291	1167.042	1169.605	1171.383
17	1136.876	1133.544	1133.760	1133.608	1137.617
18	1099.381	1097.663	1097.956	1095.677	1100.038
19	1059.837	1058.387	1058.227	1058.583	1061.074
20	1019.671	1019.507	1018.470	1019.011	1022.362
21	980.864	979.154	978.705	980.059	981.164
22	938.472	940.214	939.096	940.222	941.563
23	899.504	898.875	898.815	899.752	902.944
24	858.750	857.981	858.854	860.804	861.929
25	817.595	817.343	818.096	820.559	820.963
26	775.388	775.592	777.402	779.404	779.200
27	728.971	730.152	734.237	736.043	734.233
28	680.993	681.249	686.916	688.782	686.031
29	629.255	630.744	635.742	636.987	635.145
30	574.461	575.670	581.048	582.286	579.787
31	515.270	518.077	521.537	523.912	522.955
32	456.071	459.215	461.453	464.168	463.379
33	396.223	398.146	401.349	403.956	403.924
34	336.372	339.784	342.006	345.750	346.996
35	280.617	284.313	285.450	289.122	291.249
36	230.452	233.199	234.329	236.875	240.620
37	185.493	187.644	188.749	191.028	195.036
38	149.329	148.652	150.878	153.261	155.391
39	116.536	118.438	118.974	121.321	124.148
40	91.631	93.534	94.891	96.853	99.420
41	72.342	73.891	75.485	79.185	82.481
42	58.074	59.207	61.878	63.864	65.618
43	48.591	49.015	50.765	53.032	54.437
44	40.133	40.922	42.600	45.051	45.848
45	34.383	35.068	36.529	38.347	39.156
46	30.086	30.647	31.912	33.338	33.878
47	26.770	27.295	28.288	29.441	29.914
48	24.267	24.692	25.457	26.418	26.918
49	22.277	22.634	23.278	24.027	24.496
50	20.651	20.952	21.504	22.117	22.497
51	19.278	19.526	20.031	20.539	20.860
52	17.992	18.221	18.649	19.074	19.330

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	16.827	17.019	17.376	17.720	17.928
54	15.754	15.930	16.230	16.495	16.671
55	14.785	14.917	15.193	15.401	15.534
56	13.844	13.972	14.204	14.380	14.460
57	12.955	13.055	13.243	13.399	13.451
58	12.086	12.170	12.326	12.458	12.502
59	11.241	11.305	11.425	11.549	11.589
60	10.408	10.464	10.568	10.664	10.708
61	9.627	9.671	9.751	9.831	9.855
62	8.898	8.922	8.978	9.046	9.066
63	8.209	8.229	8.265	8.317	8.345
64	7.573	7.589	7.613	7.657	7.685
65	7.000	7.016	7.020	7.052	7.096
66	6.463	6.479	6.475	6.503	6.531
67	5.979	5.991	5.979	5.999	6.023
68	5.530	5.534	5.526	5.526	5.554
69	5.110	5.106	5.094	5.086	5.106
70	4.709	4.701	4.677	4.661	4.677
71	4.321	4.305	4.273	4.249	4.257
72	3.936	3.920	3.884	3.848	3.864
73	3.564	3.536	3.488	3.452	3.472
74	3.180	3.148	3.100	3.059	3.083
75	2.767	2.743	2.691	2.663	2.679
76	2.315	2.295	2.239	2.227	2.235
77	1.802	1.794	1.738	1.730	1.738
78	1.217	1.217	1.173	1.149	1.157
79	0.845	0.853	0.833	0.829	0.817
80	0.765	0.761	0.757	0.753	0.749
81	0.713	0.713	0.713	0.709	0.709
82	0.673	0.669	0.673	0.669	0.669
83	0.625	0.625	0.629	0.625	0.625
84	0.577	0.573	0.581	0.573	0.573
85	0.521	0.517	0.521	0.517	0.517
86	0.457	0.457	0.457	0.453	0.453
87	0.384	0.380	0.384	0.380	0.376
88	0.304	0.300	0.304	0.300	0.296
89	0.220	0.216	0.216	0.208	0.208
90	0.168	0.160	0.160	0.148	0.140
91	0.156	0.148	0.152	0.144	0.140
92	0.156	0.148	0.152	0.140	0.140
93	0.156	0.152	0.152	0.144	0.140
94	0.156	0.152	0.152	0.144	0.144
95	0.160	0.152	0.152	0.144	0.144
96	0.160	0.152	0.152	0.144	0.144
97	0.160	0.156	0.156	0.148	0.148
98	0.160	0.156	0.160	0.148	0.152
99	0.164	0.160	0.160	0.152	0.152
100	0.164	0.160	0.164	0.152	0.156
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

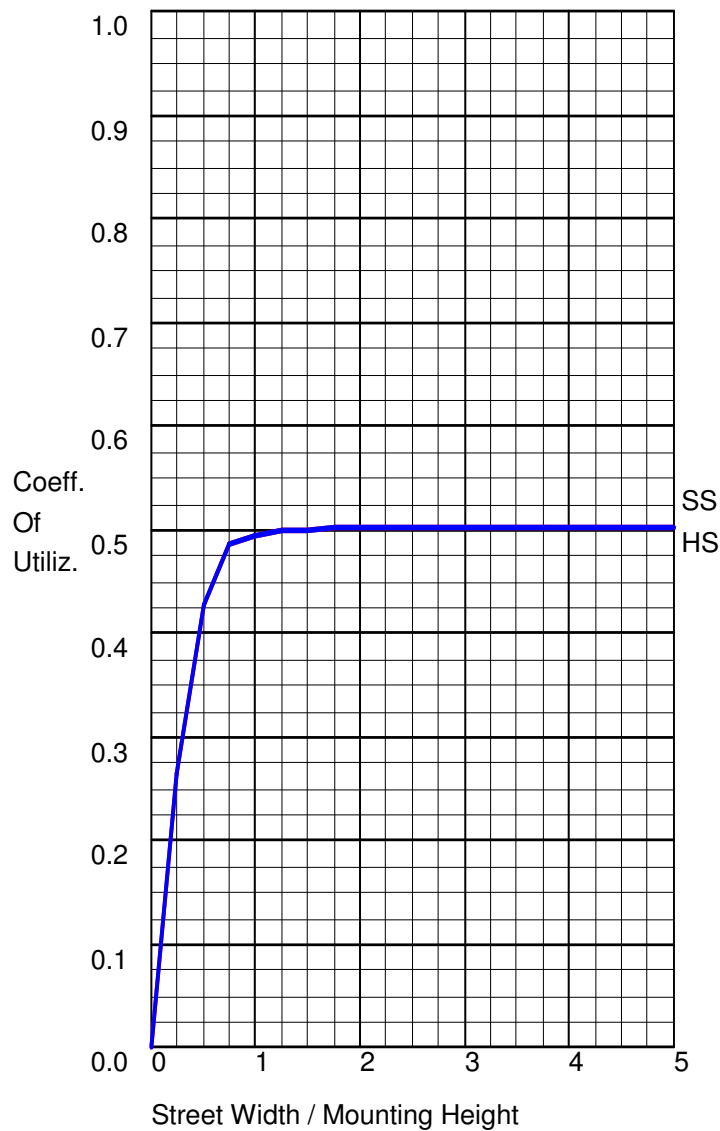
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L10-840-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

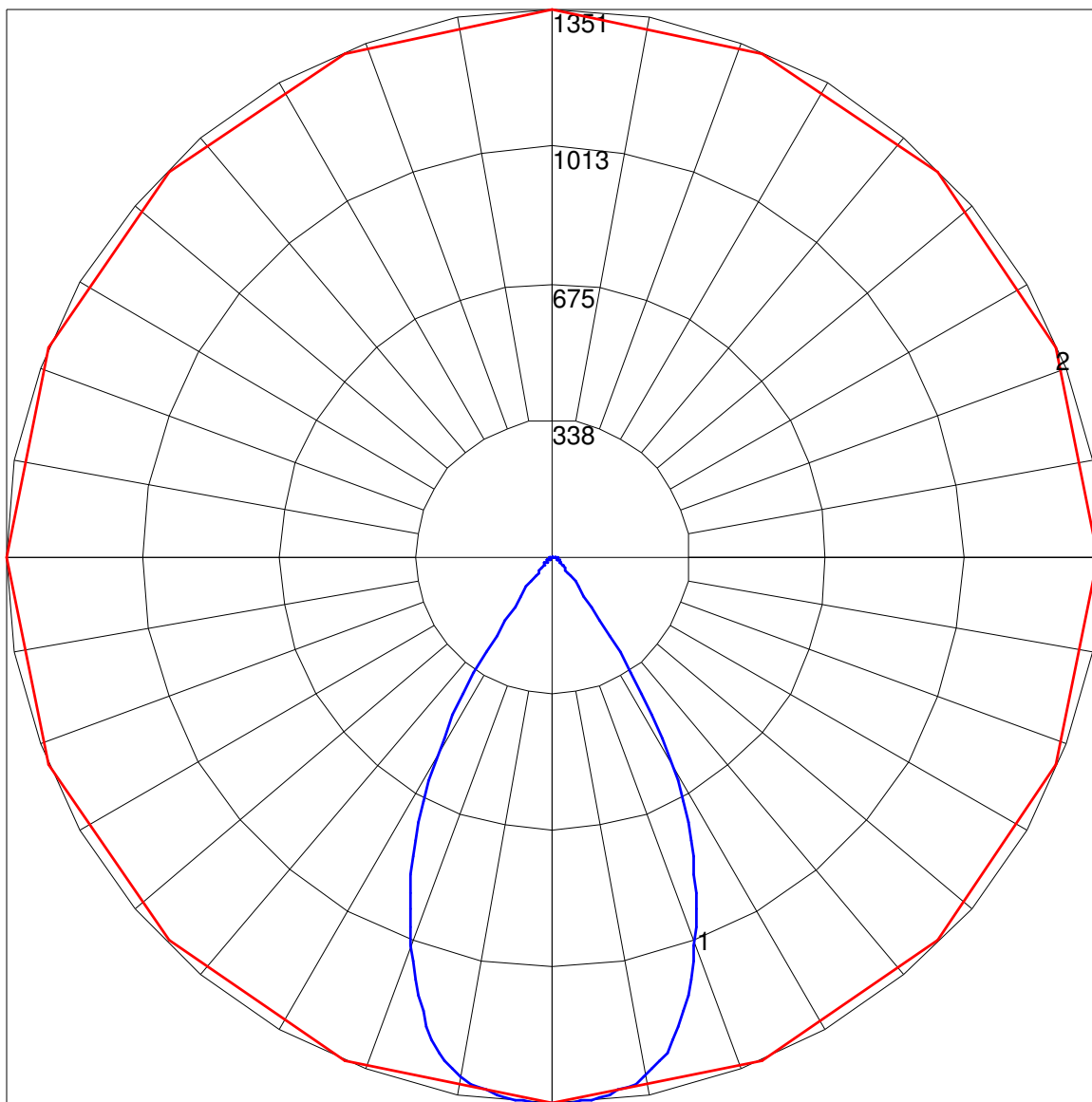
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

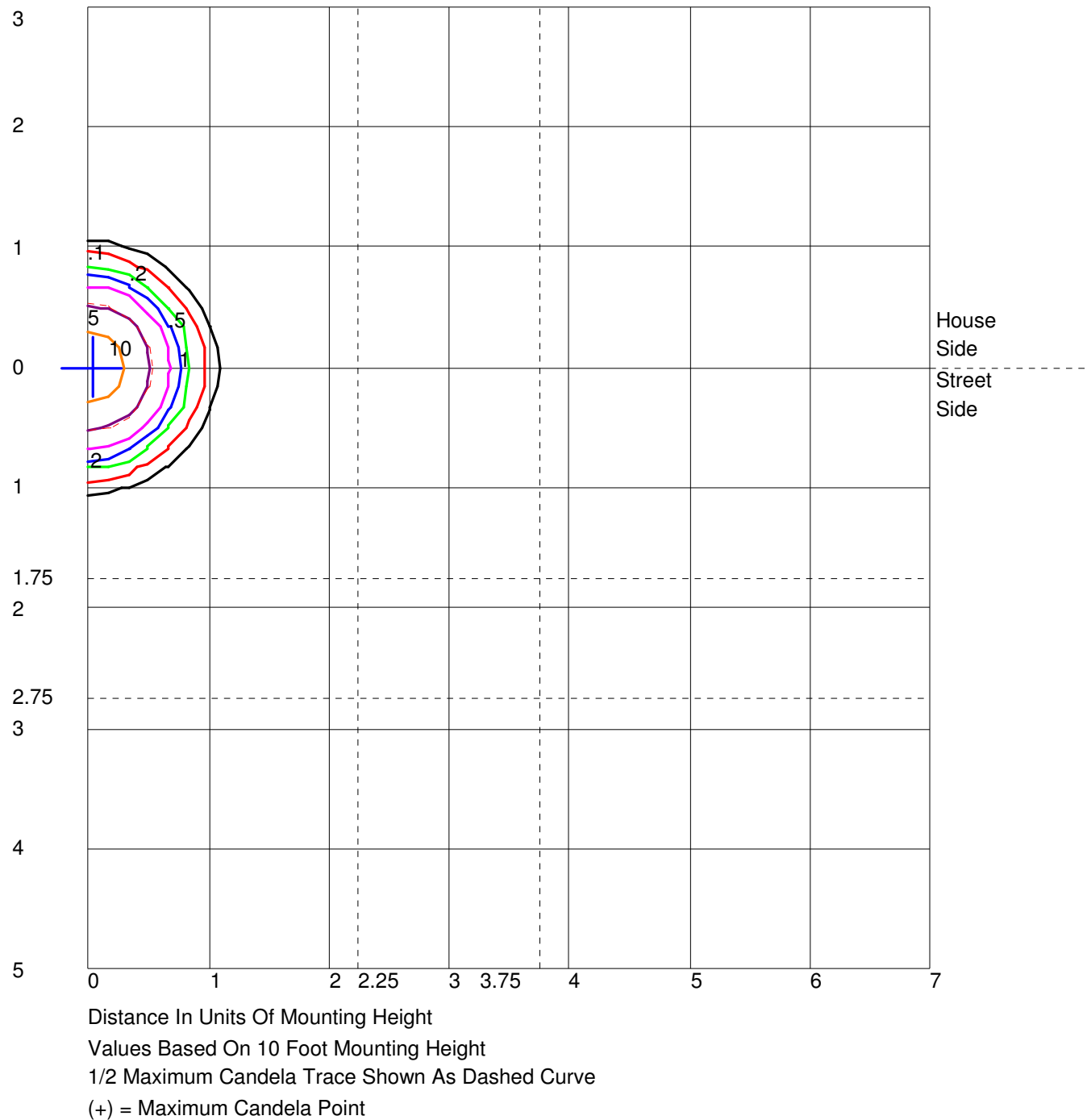
	Lumens	Percent Of Luminaire
Downward Street Side	535.7	50.0
Downward House Side	535.7	50.0
Downward Total	1071.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1071.6	100.0

POLAR GRAPH

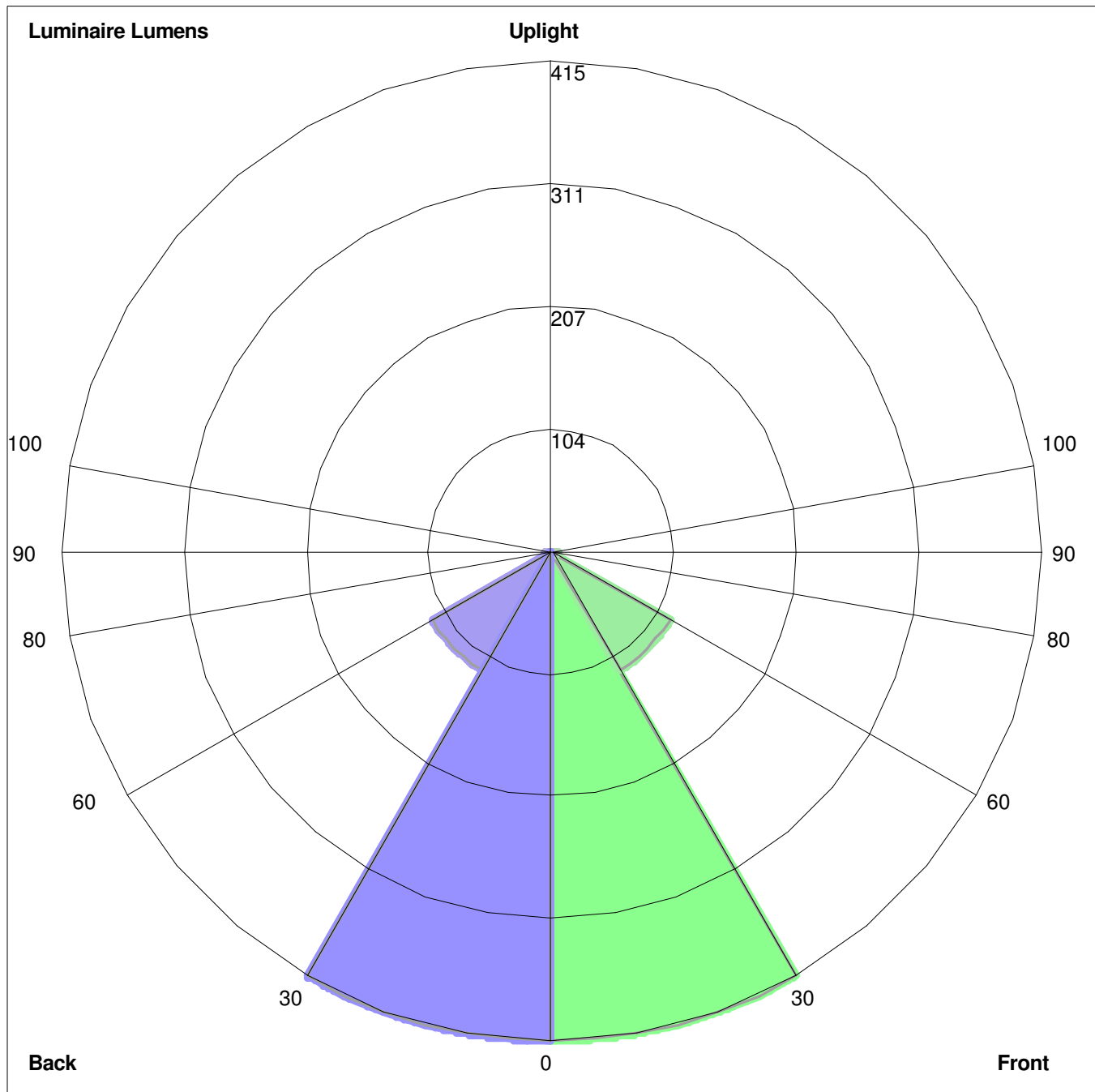


Maximum Candela = 1350.585 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=414.7, Medium=115.8, High=5.0, Very High=0.3
Back: Low=414.7, Medium=115.8, High=5.0, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0