

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-950-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-L10-950-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	991
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1885.413
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1885.413
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.14 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.659 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	412.1	N.A.	41.6
FM - Front-Medium (30-60)	78.6	N.A.	7.9
FH - Front-High (60-80)	4.4	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	412.1	N.A.	41.6
BM - Back-Medium (30-60)	78.6	N.A.	7.9
BH - Back-High (60-80)	4.4	N.A.	0.4
BVH - Back-Very High (80-90)	0.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	990.7	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	1885.413	1885.413	1885.413	1885.413	1885.413
1	1882.504	1882.950	1881.697	1881.269	1881.438
2	1874.586	1877.225	1875.234	1874.550	1872.210
3	1860.818	1862.273	1860.199	1860.732	1859.965
4	1841.682	1845.631	1842.049	1842.247	1841.509
5	1822.293	1820.633	1817.839	1817.198	1816.057
6	1792.096	1792.964	1789.295	1787.275	1786.998
7	1758.925	1757.805	1756.066	1752.375	1749.362
8	1716.796	1718.664	1714.225	1710.480	1709.523
9	1668.826	1670.472	1667.851	1665.064	1663.779
10	1614.906	1615.655	1614.434	1613.408	1610.801
11	1556.611	1556.416	1555.671	1553.925	1551.851
12	1492.299	1493.822	1489.660	1490.563	1490.938
13	1425.204	1425.312	1421.197	1425.525	1426.684
14	1353.465	1355.193	1353.673	1357.404	1358.761
15	1279.885	1281.934	1281.430	1286.535	1287.846
16	1207.887	1208.888	1208.895	1214.616	1218.580
17	1137.263	1138.408	1138.898	1143.593	1148.447
18	1064.977	1068.318	1069.031	1073.769	1080.156
19	999.052	1000.132	1003.236	1007.866	1012.608
20	933.531	937.228	939.565	944.098	950.161
21	872.884	875.509	879.027	883.214	888.777
22	815.583	818.690	821.073	826.420	831.425
23	761.356	763.163	765.900	771.650	777.000
24	710.438	711.270	714.701	720.102	723.371
25	661.112	662.203	666.062	671.114	673.504
26	612.919	615.598	619.055	623.573	625.489
27	565.602	567.388	573.195	577.613	577.386
28	518.130	520.106	526.760	529.536	529.421
29	470.197	474.884	478.316	481.196	481.261
30	421.281	424.910	429.058	431.798	431.074
31	372.001	374.492	377.787	380.124	379.634
32	322.977	325.256	327.755	329.631	329.249
33	274.000	276.109	278.245	279.746	280.567
34	226.931	229.678	230.931	232.634	233.671
35	184.009	186.526	187.261	188.355	190.098
36	150.053	148.491	149.384	149.816	152.131
37	117.401	115.651	116.410	115.737	119.132
38	87.924	89.313	88.464	89.162	91.920
39	67.545	68.873	67.898	70.213	74.047
40	51.829	52.607	53.377	53.967	56.236
41	41.859	41.197	42.021	43.465	45.474
42	32.952	33.492	34.971	36.354	37.751
43	27.698	28.267	29.358	30.712	32.123
44	24.235	24.688	25.650	26.899	27.997
45	21.790	22.165	23.050	24.037	24.897
46	20.073	20.400	21.164	21.930	22.579
47	18.823	19.119	19.745	20.346	20.883
48	17.873	18.139	18.658	19.147	19.601
49	17.138	17.358	17.786	18.175	18.593
50	16.501	16.670	17.048	17.372	17.740
51	15.896	16.037	16.379	16.652	16.983
52	15.262	15.385	15.666	15.889	16.159

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

53	14.589	14.701	14.931	15.100	15.324
54	13.891	13.984	14.179	14.315	14.492
55	13.167	13.253	13.419	13.520	13.664
56	12.407	12.486	12.620	12.720	12.825
57	11.633	11.691	11.795	11.896	11.979
58	10.848	10.899	10.981	11.079	11.161
59	10.067	10.107	10.171	10.265	10.341
60	9.296	9.336	9.390	9.469	9.545
61	8.573	8.612	8.638	8.717	8.782
62	7.899	7.928	7.950	8.011	8.076
63	7.277	7.302	7.313	7.363	7.421
64	6.711	6.729	6.736	6.772	6.834
65	6.207	6.222	6.214	6.247	6.312
66	5.728	5.750	5.732	5.768	5.826
67	5.311	5.325	5.307	5.336	5.386
68	4.925	4.929	4.911	4.933	4.983
69	4.565	4.558	4.544	4.551	4.601
70	4.223	4.205	4.187	4.191	4.231
71	3.889	3.867	3.842	3.835	3.874
72	3.557	3.539	3.503	3.489	3.532
73	3.226	3.204	3.165	3.143	3.194
74	2.884	2.862	2.816	2.794	2.841
75	2.513	2.502	2.448	2.430	2.470
76	2.092	2.085	2.031	2.027	2.056
77	1.624	1.617	1.555	1.552	1.577
78	1.084	1.084	1.030	1.001	1.019
79	0.727	0.738	0.716	0.713	0.709
80	0.659	0.655	0.652	0.644	0.644
81	0.616	0.616	0.612	0.608	0.608
82	0.580	0.576	0.580	0.576	0.576
83	0.540	0.536	0.540	0.536	0.540
84	0.497	0.493	0.497	0.493	0.497
85	0.446	0.446	0.446	0.446	0.446
86	0.389	0.389	0.392	0.389	0.392
87	0.331	0.328	0.331	0.324	0.324
88	0.259	0.259	0.259	0.256	0.259
89	0.187	0.184	0.187	0.180	0.180
90	0.140	0.137	0.137	0.126	0.119
91	0.130	0.130	0.130	0.119	0.119
92	0.130	0.130	0.130	0.119	0.119
93	0.133	0.130	0.130	0.122	0.119
94	0.133	0.130	0.133	0.122	0.122
95	0.133	0.130	0.133	0.122	0.126
96	0.133	0.130	0.133	0.126	0.126
97	0.137	0.130	0.133	0.126	0.126
98	0.137	0.133	0.133	0.126	0.130
99	0.140	0.137	0.137	0.130	0.133
100	0.140	0.140	0.137	0.133	0.133
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

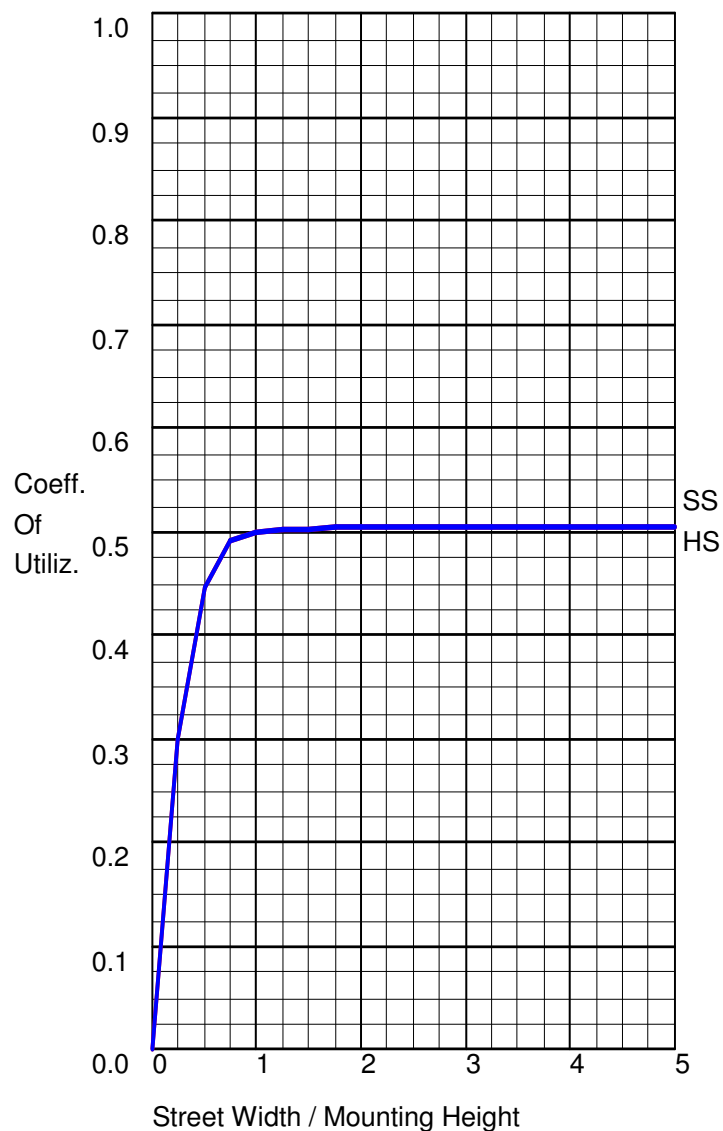
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-950-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

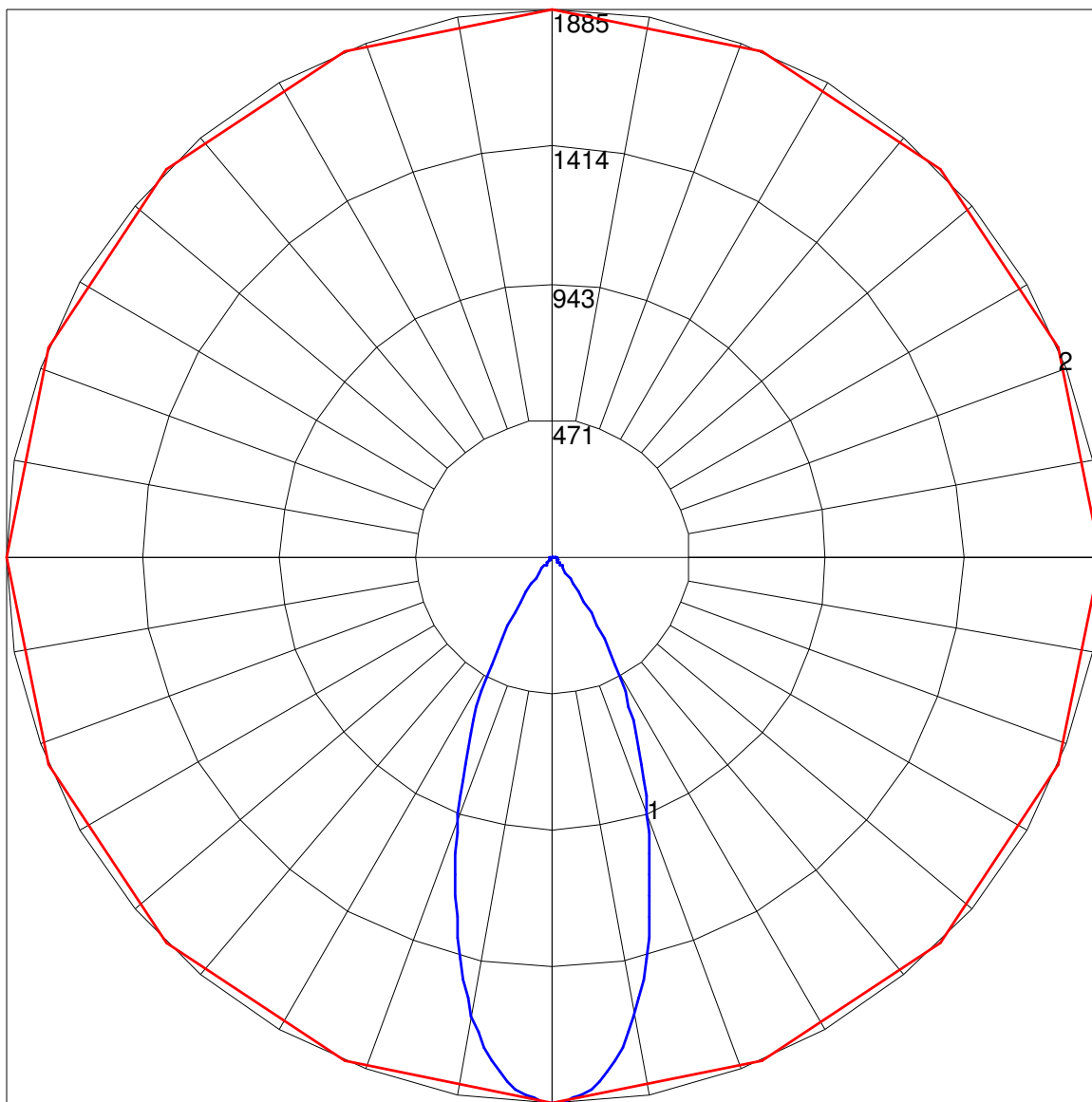
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

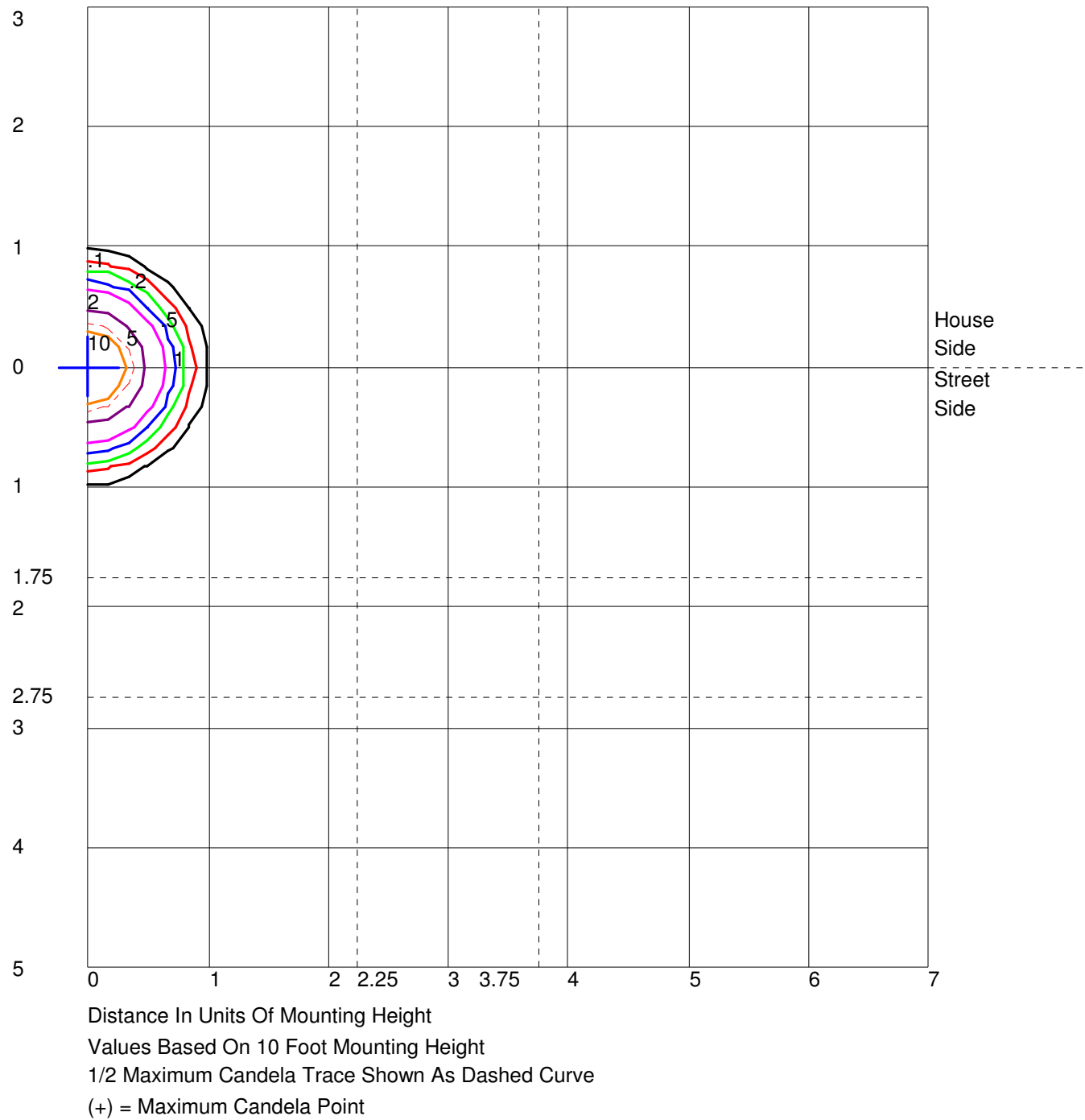
	Lumens	Percent Of Luminaire
Downward Street Side	495.4	50.0
Downward House Side	495.4	50.0
Downward Total	990.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	991.0	100.0

POLAR GRAPH

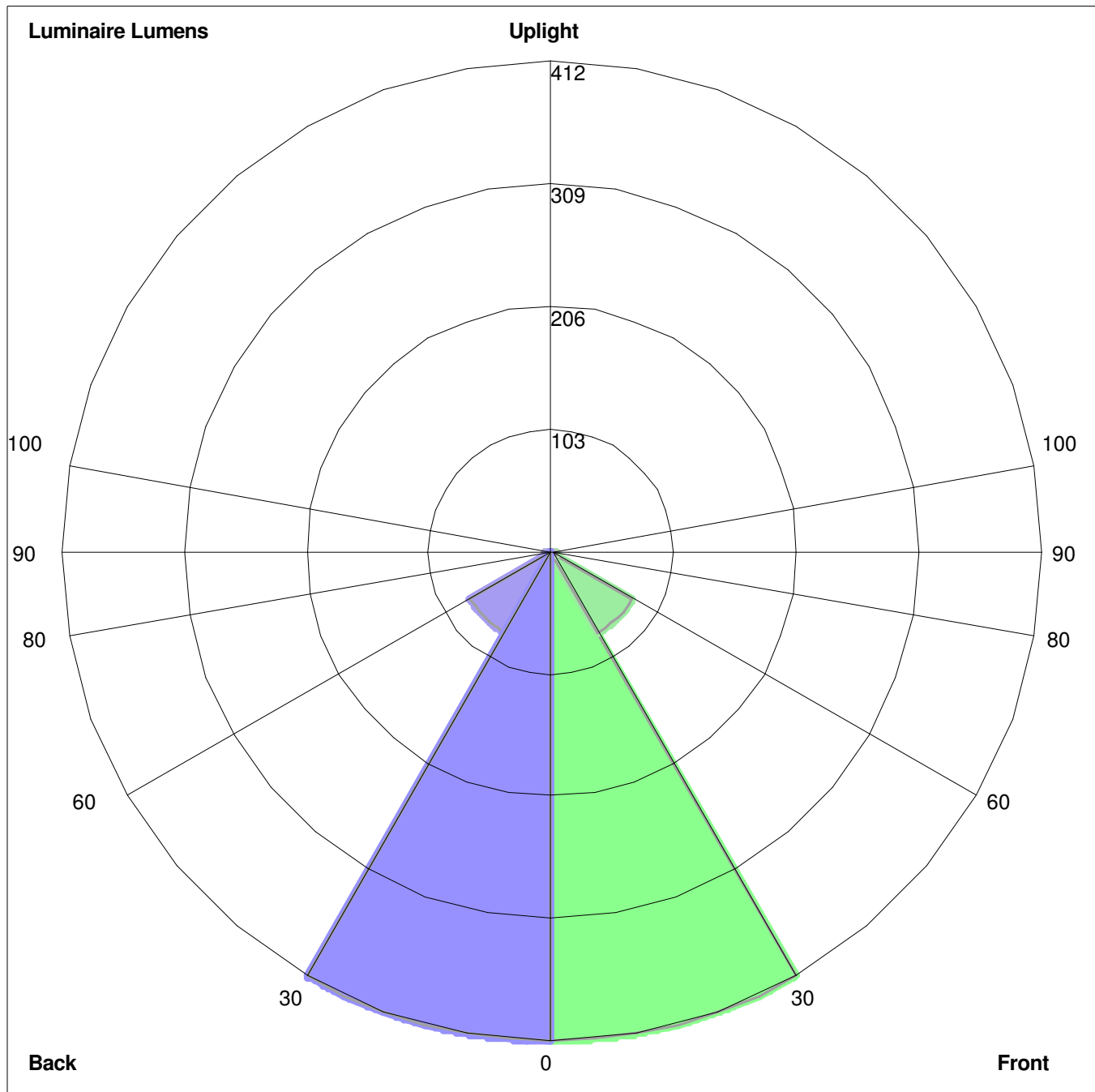


Maximum Candela = 1885.413 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=412.1, Medium=78.6, High=4.4, Very High=0.2
Back: Low=412.1, Medium=78.6, High=4.4, Very High=0.2
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0