

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-930-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-L15-930-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	1501
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1892.314
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1892.314
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.236 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.072 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	581.0	N.A.	38.7
FM - Front-Medium (30-60)	162.2	N.A.	10.8
FH - Front-High (60-80)	6.9	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	581.0	N.A.	38.7
BM - Back-Medium (30-60)	162.2	N.A.	10.8
BH - Back-High (60-80)	6.9	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	1501.2	N.A.	100.0
BUG Rating	B2-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	1889.172	1889.172	1889.172	1889.172	1889.172
1	1886.153	1886.063	1886.361	1888.627	1890.782
2	1887.791	1887.230	1885.356	1889.037	1892.314
3	1886.018	1883.651	1885.390	1884.223	1888.274
4	1883.202	1881.300	1880.486	1882.669	1886.495
5	1880.660	1879.897	1878.197	1879.734	1882.024
6	1875.336	1876.329	1871.834	1875.285	1873.366
7	1867.828	1870.937	1867.413	1867.379	1865.259
8	1860.798	1860.158	1858.688	1858.963	1859.440
9	1851.787	1849.633	1847.882	1848.813	1848.107
10	1834.736	1835.280	1834.169	1833.070	1832.402
11	1813.741	1815.362	1813.123	1814.027	1811.777
12	1789.227	1787.606	1786.938	1789.654	1788.588
13	1757.291	1756.775	1758.261	1761.319	1761.134
14	1724.771	1722.078	1722.975	1724.227	1727.728
15	1684.239	1682.847	1680.665	1685.664	1683.779
16	1640.963	1636.901	1635.150	1638.741	1641.232
17	1592.884	1588.216	1588.519	1588.306	1593.922
18	1540.351	1537.944	1538.353	1535.161	1541.271
19	1484.944	1482.913	1482.689	1483.188	1486.678
20	1428.668	1428.438	1426.985	1427.743	1432.439
21	1374.294	1371.899	1371.270	1373.167	1374.715
22	1314.899	1317.340	1315.774	1317.351	1319.230
23	1260.301	1259.420	1259.336	1260.649	1265.120
24	1203.200	1202.123	1203.346	1206.078	1207.655
25	1145.538	1145.185	1146.239	1149.690	1150.257
26	1086.401	1086.687	1089.223	1092.028	1091.742
27	1021.366	1023.022	1028.744	1031.275	1028.739
28	954.144	954.503	962.442	965.057	961.202
29	881.653	883.740	890.742	892.487	889.906
30	804.881	806.575	814.110	815.844	812.343
31	721.948	725.881	730.729	734.056	732.715
32	639.004	643.409	646.545	650.349	649.244
33	555.151	557.844	562.333	565.986	565.941
34	471.293	476.073	479.187	484.433	486.178
35	393.174	398.353	399.946	405.091	408.071
36	322.888	326.737	328.319	331.888	337.134
37	259.896	262.909	264.458	267.650	273.267
38	209.225	208.277	211.397	214.735	217.720
39	163.279	165.944	166.696	169.984	173.945
40	128.385	131.051	132.953	135.702	139.298
41	101.358	103.530	105.763	110.947	115.565
42	81.367	82.955	86.697	89.480	91.938
43	68.081	68.676	71.128	74.303	76.273
44	56.231	57.336	59.687	63.121	64.238
45	48.174	49.133	51.181	53.729	54.862
46	42.154	42.939	44.712	46.710	47.467
47	37.508	38.243	39.634	41.250	41.912
48	34.001	34.596	35.668	37.014	37.716
49	31.213	31.712	32.615	33.665	34.321
50	28.935	29.356	30.130	30.988	31.521
51	27.010	27.358	28.065	28.778	29.226
52	25.209	25.529	26.129	26.724	27.083

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	23.576	23.846	24.345	24.828	25.119
54	22.073	22.320	22.740	23.111	23.358
55	20.715	20.900	21.287	21.579	21.764
56	19.396	19.576	19.901	20.148	20.260
57	18.151	18.291	18.555	18.774	18.847
58	16.933	17.051	17.270	17.455	17.517
59	15.749	15.839	16.008	16.181	16.238
60	14.582	14.661	14.807	14.941	15.003
61	13.488	13.550	13.662	13.774	13.808
62	12.467	12.501	12.579	12.675	12.703
63	11.502	11.530	11.581	11.654	11.693
64	10.610	10.632	10.666	10.728	10.767
65	9.808	9.830	9.836	9.881	9.942
66	9.056	9.078	9.073	9.112	9.151
67	8.377	8.394	8.377	8.405	8.439
68	7.748	7.754	7.743	7.743	7.782
69	7.159	7.154	7.137	7.126	7.154
70	6.598	6.587	6.553	6.531	6.553
71	6.054	6.032	5.987	5.953	5.964
72	5.515	5.493	5.442	5.392	5.414
73	4.994	4.954	4.887	4.836	4.865
74	4.455	4.410	4.343	4.287	4.320
75	3.877	3.843	3.770	3.731	3.754
76	3.243	3.215	3.136	3.120	3.131
77	2.525	2.514	2.435	2.424	2.435
78	1.706	1.706	1.644	1.610	1.622
79	1.184	1.195	1.167	1.161	1.145
80	1.072	1.066	1.060	1.055	1.049
81	0.999	0.999	0.999	0.993	0.993
82	0.943	0.937	0.943	0.937	0.937
83	0.875	0.875	0.881	0.875	0.875
84	0.808	0.802	0.814	0.802	0.802
85	0.729	0.724	0.729	0.724	0.724
86	0.640	0.640	0.640	0.634	0.634
87	0.539	0.533	0.539	0.533	0.527
88	0.426	0.421	0.426	0.421	0.415
89	0.309	0.303	0.303	0.292	0.292
90	0.236	0.224	0.224	0.208	0.196
91	0.219	0.208	0.213	0.202	0.196
92	0.219	0.208	0.213	0.196	0.196
93	0.219	0.213	0.213	0.202	0.196
94	0.219	0.213	0.213	0.202	0.202
95	0.224	0.213	0.213	0.202	0.202
96	0.224	0.213	0.213	0.202	0.202
97	0.224	0.219	0.219	0.208	0.208
98	0.224	0.219	0.224	0.208	0.213
99	0.230	0.224	0.224	0.213	0.213
100	0.230	0.224	0.230	0.213	0.219
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

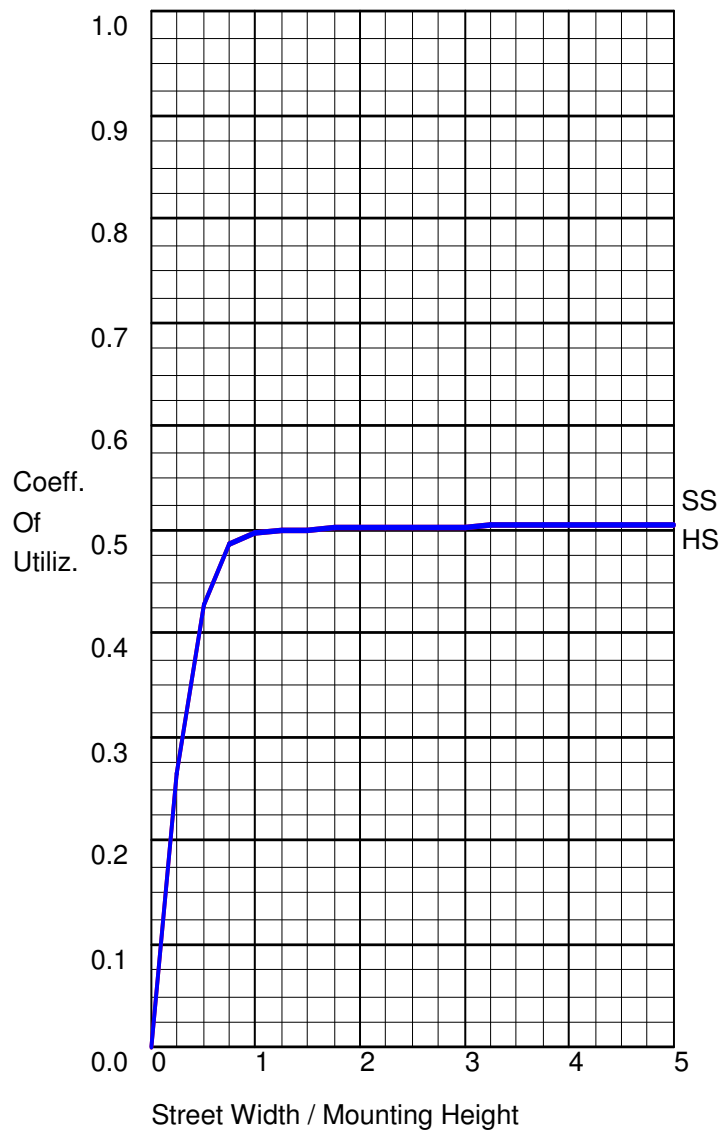
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-930-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

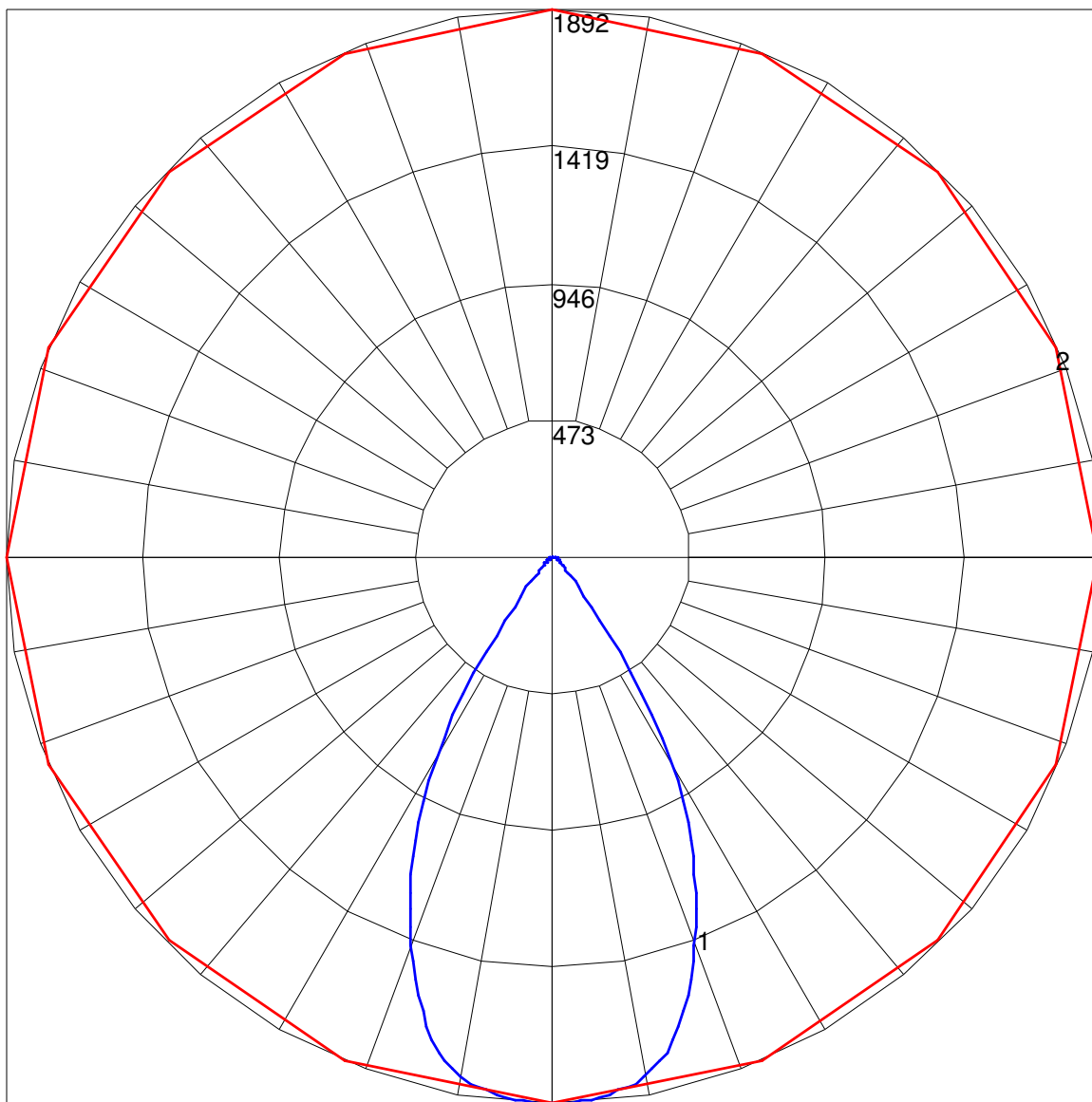
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

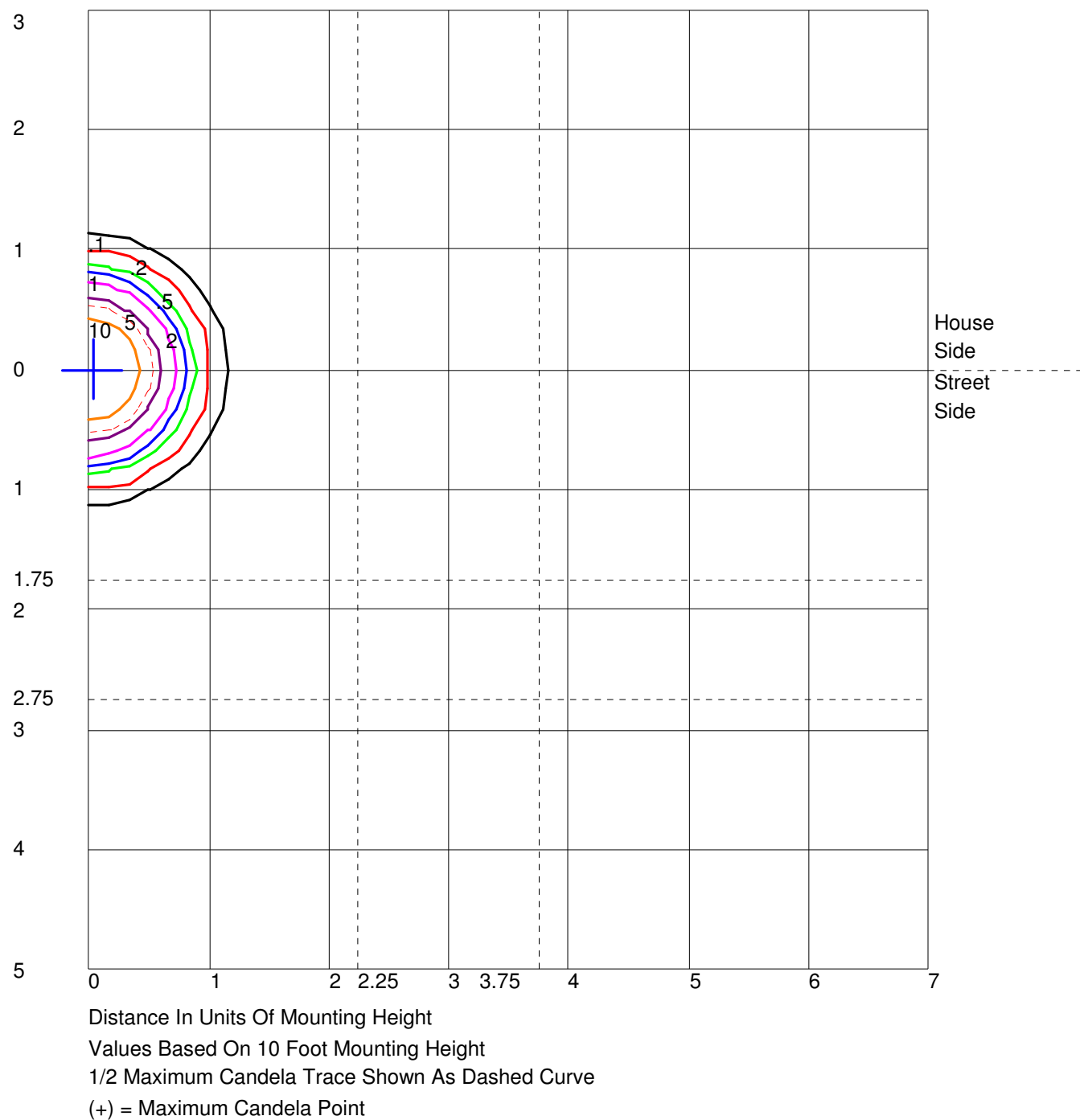
	Lumens	Percent Of Luminaire
Downward Street Side	750.6	50.0
Downward House Side	750.6	50.0
Downward Total	1501.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1501.4	100.0

POLAR GRAPH

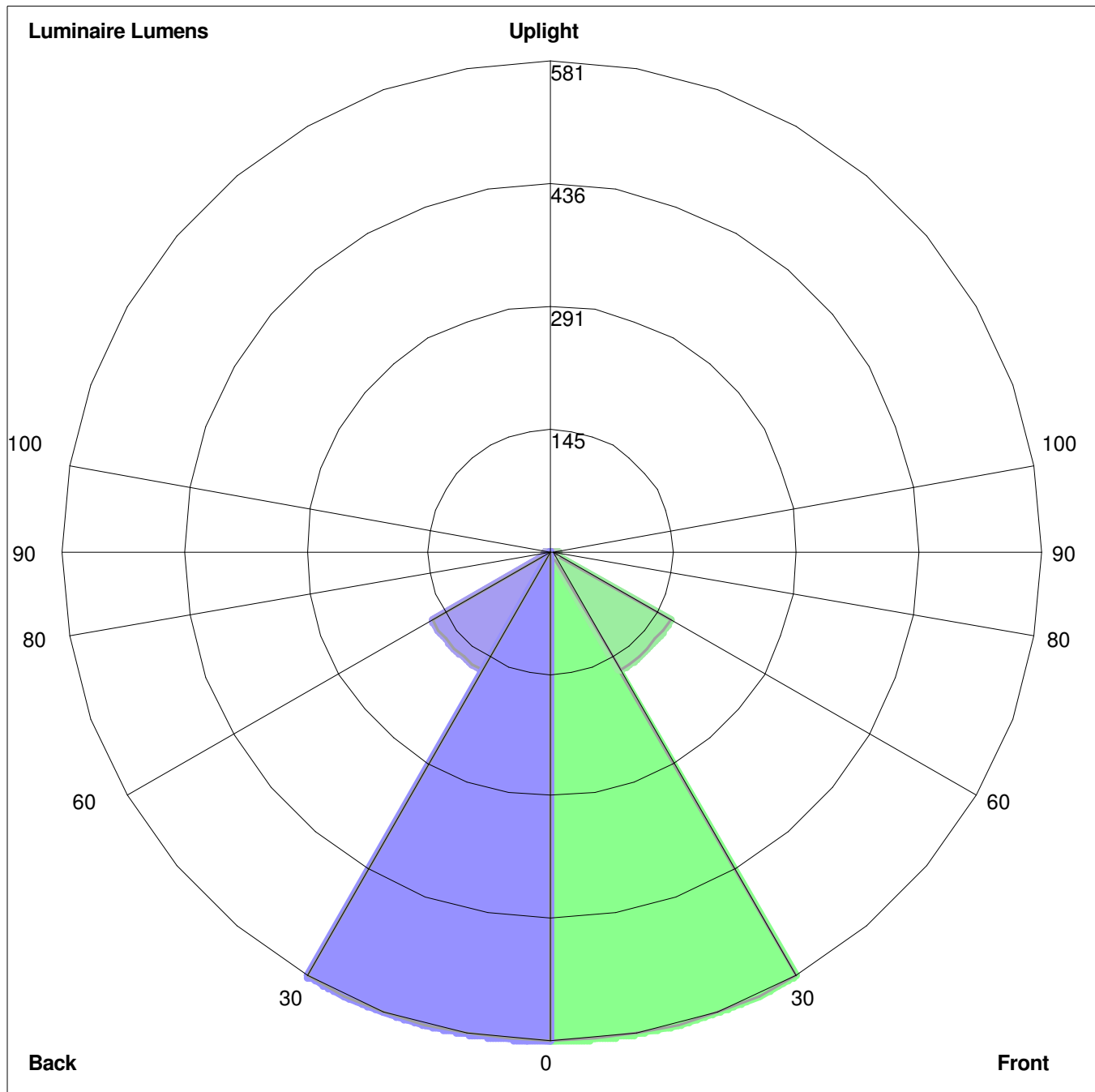


Maximum Candela = 1892.314 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=581.0, Medium=162.2, High=6.9, Very High=0.4
Back: Low=581.0, Medium=162.2, High=6.9, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0