

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-840-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-L15-840-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	1580
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1990.872
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1990.872
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.248 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.127 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	611.3	N.A.	38.7
FM - Front-Medium (30-60)	170.6	N.A.	10.8
FH - Front-High (60-80)	7.3	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	611.3	N.A.	38.7
BM - Back-Medium (30-60)	170.6	N.A.	10.8
BH - Back-High (60-80)	7.3	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	1579.4	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	1987.566	1987.566	1987.566	1987.566	1987.566
1	1984.390	1984.296	1984.609	1986.994	1989.260
2	1986.114	1985.524	1983.552	1987.425	1990.872
3	1984.249	1981.758	1983.588	1982.360	1986.622
4	1981.286	1979.284	1978.428	1980.725	1984.751
5	1978.611	1977.809	1976.020	1977.637	1980.046
6	1973.010	1974.054	1969.326	1972.956	1970.938
7	1965.111	1968.382	1964.674	1964.639	1962.408
8	1957.715	1957.042	1955.495	1955.785	1956.286
9	1948.235	1945.968	1944.126	1945.106	1944.362
10	1930.295	1930.868	1929.699	1928.542	1927.840
11	1908.206	1909.912	1907.557	1908.508	1906.140
12	1882.416	1880.710	1880.008	1882.865	1881.743
13	1848.817	1848.273	1849.838	1853.055	1852.860
14	1814.603	1811.769	1812.714	1814.030	1817.714
15	1771.960	1770.496	1768.199	1773.459	1771.476
16	1726.430	1722.156	1720.314	1724.092	1726.713
17	1675.847	1670.936	1671.255	1671.030	1676.939
18	1620.577	1618.045	1618.476	1615.117	1621.545
19	1562.285	1560.148	1559.912	1560.438	1564.109
20	1503.078	1502.836	1501.307	1502.104	1507.045
21	1445.872	1443.352	1442.691	1444.686	1446.315
22	1383.383	1385.951	1384.304	1385.963	1387.941
23	1325.941	1325.015	1324.926	1326.307	1331.012
24	1265.867	1264.733	1266.020	1268.895	1270.554
25	1205.202	1204.830	1205.940	1209.570	1210.166
26	1142.984	1143.285	1145.953	1148.905	1148.604
27	1074.563	1076.304	1082.325	1084.987	1082.319
28	1003.839	1004.217	1012.569	1015.320	1011.265
29	927.572	929.768	937.135	938.971	936.256
30	846.802	848.584	856.512	858.336	854.653
31	759.550	763.688	768.788	772.288	770.877
32	672.286	676.919	680.219	684.221	683.059
33	584.065	586.899	591.621	595.464	595.417
34	495.839	500.869	504.145	509.664	511.500
35	413.652	419.100	420.777	426.190	429.324
36	339.705	343.755	345.419	349.174	354.693
37	273.432	276.602	278.232	281.590	287.499
38	220.123	219.125	222.407	225.919	229.060
39	171.783	174.587	175.378	178.837	183.004
40	135.072	137.876	139.877	142.770	146.554
41	106.638	108.922	111.271	116.726	121.584
42	85.605	87.276	91.213	94.141	96.726
43	71.627	72.253	74.832	78.173	80.245
44	59.160	60.323	62.796	66.409	67.583
45	50.683	51.692	53.847	56.527	57.719
46	44.349	45.176	47.041	49.142	49.939
47	39.461	40.235	41.699	43.399	44.095
48	35.772	36.398	37.525	38.942	39.680
49	32.838	33.364	34.314	35.418	36.109
50	30.442	30.884	31.699	32.602	33.163
51	28.417	28.783	29.527	30.276	30.749
52	26.522	26.859	27.490	28.116	28.494

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	24.804	25.088	25.613	26.121	26.428
54	23.222	23.482	23.925	24.314	24.574
55	21.794	21.989	22.396	22.703	22.898
56	20.407	20.596	20.938	21.198	21.316
57	19.096	19.244	19.521	19.751	19.828
58	17.815	17.939	18.169	18.364	18.429
59	16.570	16.664	16.841	17.024	17.083
60	15.342	15.425	15.578	15.720	15.785
61	14.191	14.256	14.374	14.492	14.527
62	13.116	13.152	13.235	13.335	13.364
63	12.101	12.131	12.184	12.261	12.302
64	11.163	11.186	11.222	11.287	11.328
65	10.318	10.342	10.348	10.395	10.460
66	9.527	9.551	9.545	9.586	9.628
67	8.813	8.831	8.813	8.843	8.878
68	8.152	8.158	8.146	8.146	8.187
69	7.532	7.526	7.509	7.497	7.526
70	6.942	6.930	6.895	6.871	6.895
71	6.369	6.346	6.298	6.263	6.275
72	5.803	5.779	5.726	5.673	5.696
73	5.254	5.212	5.142	5.088	5.118
74	4.687	4.640	4.569	4.510	4.545
75	4.079	4.044	3.967	3.925	3.949
76	3.412	3.382	3.300	3.282	3.294
77	2.656	2.645	2.562	2.550	2.562
78	1.795	1.795	1.730	1.694	1.706
79	1.246	1.257	1.228	1.222	1.204
80	1.127	1.122	1.116	1.110	1.104
81	1.051	1.051	1.051	1.045	1.045
82	0.992	0.986	0.992	0.986	0.986
83	0.921	0.921	0.927	0.921	0.921
84	0.850	0.844	0.856	0.844	0.844
85	0.767	0.761	0.767	0.761	0.761
86	0.673	0.673	0.673	0.667	0.667
87	0.567	0.561	0.567	0.561	0.555
88	0.449	0.443	0.449	0.443	0.437
89	0.325	0.319	0.319	0.307	0.307
90	0.248	0.236	0.236	0.218	0.207
91	0.230	0.218	0.224	0.213	0.207
92	0.230	0.218	0.224	0.207	0.207
93	0.230	0.224	0.224	0.213	0.207
94	0.230	0.224	0.224	0.213	0.213
95	0.236	0.224	0.224	0.213	0.213
96	0.236	0.224	0.224	0.213	0.213
97	0.236	0.230	0.230	0.218	0.218
98	0.236	0.230	0.236	0.218	0.224
99	0.242	0.236	0.236	0.224	0.224
100	0.242	0.236	0.242	0.224	0.230
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

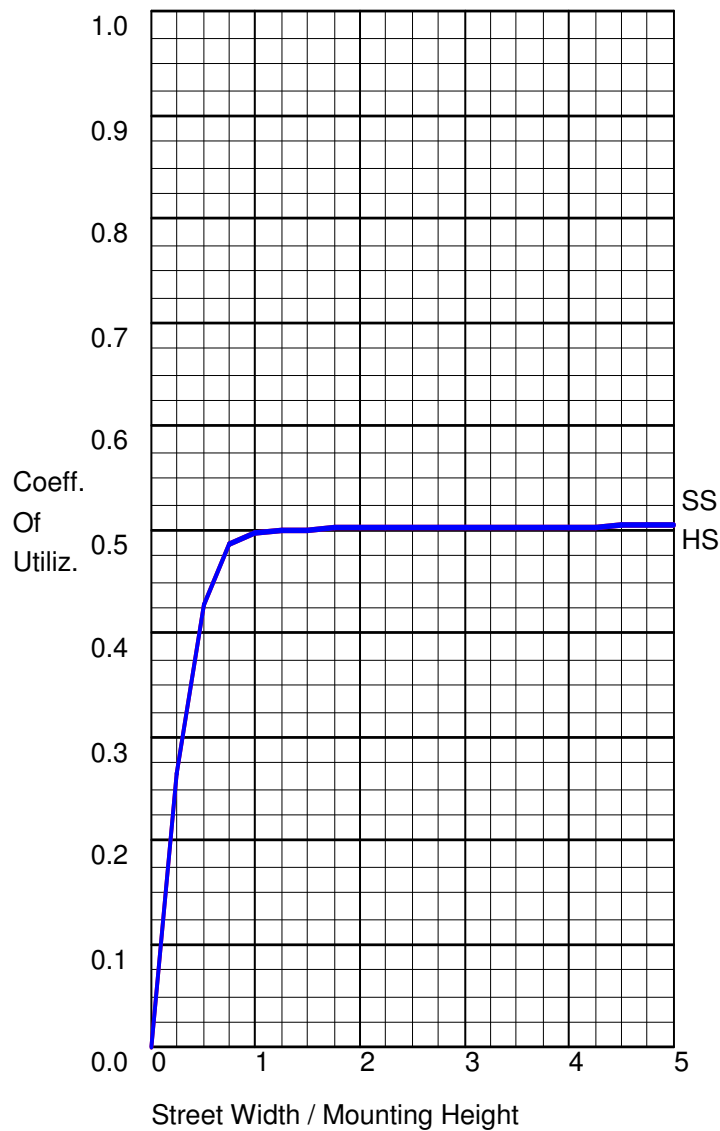
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-840-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

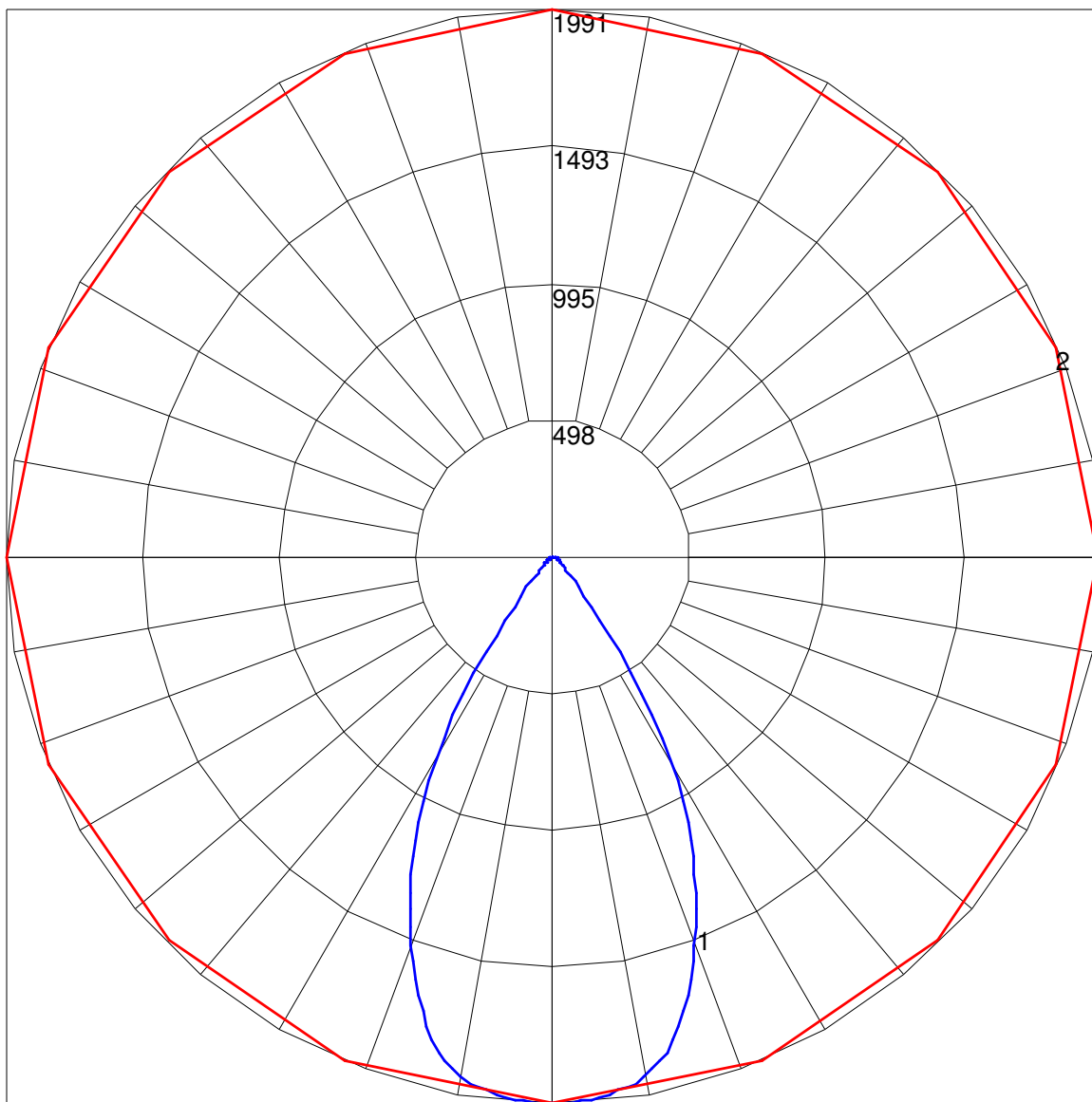
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

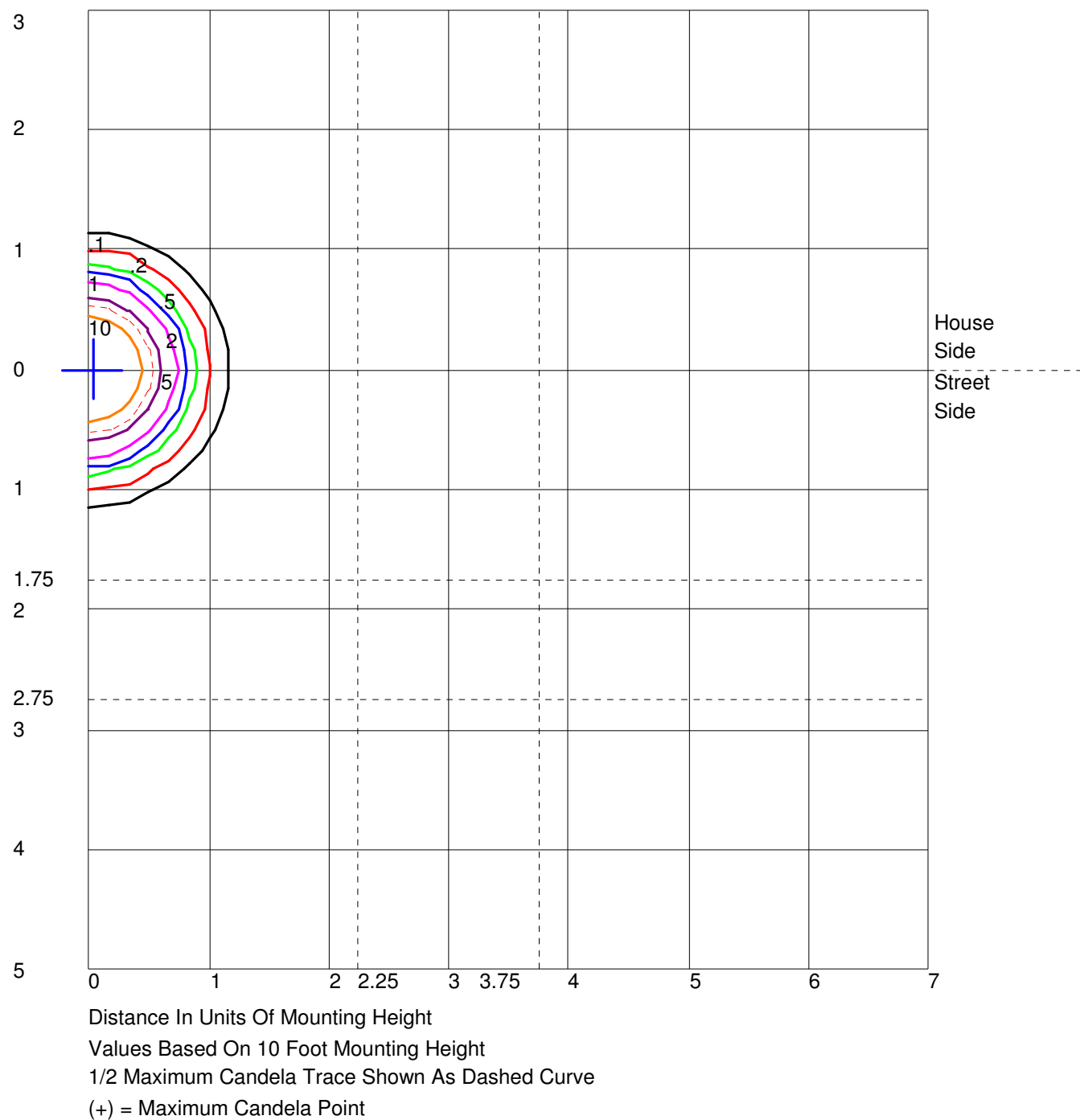
	Lumens	Percent Of Luminaire
Downward Street Side	789.6	50.0
Downward House Side	789.6	50.0
Downward Total	1579.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1579.4	100.0

POLAR GRAPH

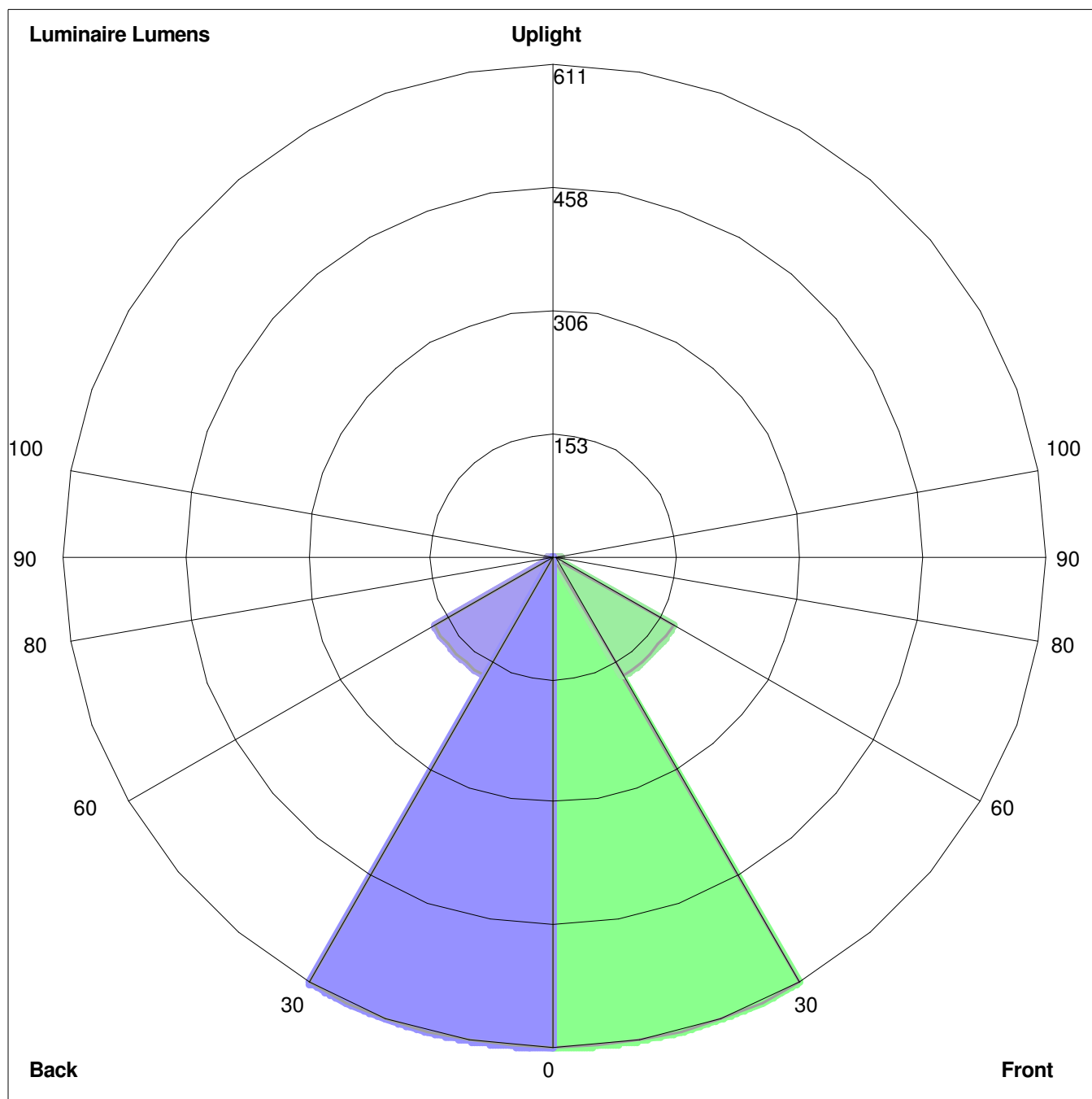


Maximum Candela = 1990.872 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=611.3, Medium=170.6, High=7.3, Very High=0.4
Back: Low=611.3, Medium=170.6, High=7.3, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0