

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-827-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-L10-827-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	1022
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1944.952
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1944.952
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.145 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.68 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	425.2	N.A.	41.6
FM - Front-Medium (30-60)	81.1	N.A.	7.9
FH - Front-High (60-80)	4.6	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	425.2	N.A.	41.6
BM - Back-Medium (30-60)	81.1	N.A.	7.9
BH - Back-High (60-80)	4.6	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	1022.3	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT
PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-M-XXX_.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	1944.952	1944.952	1944.952	1944.952	1944.952
1	1941.951	1942.412	1941.119	1940.677	1940.852
2	1933.784	1936.506	1934.452	1933.746	1931.332
3	1919.581	1921.081	1918.942	1919.491	1918.700
4	1899.840	1903.914	1900.219	1900.423	1899.662
5	1879.839	1878.127	1875.245	1874.583	1873.406
6	1848.688	1849.583	1845.799	1843.715	1843.429
7	1814.470	1813.314	1811.521	1807.713	1804.605
8	1771.010	1772.938	1768.358	1764.495	1763.507
9	1721.526	1723.224	1720.520	1717.645	1716.319
10	1665.903	1666.675	1665.416	1664.358	1661.669
11	1605.767	1605.566	1604.797	1602.996	1600.856
12	1539.424	1540.995	1536.702	1537.634	1538.020
13	1470.210	1470.322	1466.077	1470.541	1471.737
14	1396.206	1397.988	1396.421	1400.269	1401.669
15	1320.303	1322.416	1321.896	1327.163	1328.515
16	1246.030	1247.063	1247.070	1252.972	1257.061
17	1173.177	1174.358	1174.863	1179.706	1184.713
18	1098.607	1102.054	1102.790	1107.677	1114.266
19	1030.601	1031.715	1034.917	1039.693	1044.585
20	963.011	966.825	969.235	973.912	980.166
21	900.449	903.157	906.785	911.105	916.843
22	841.338	844.543	847.002	852.518	857.680
23	785.399	787.263	790.086	796.018	801.537
24	732.873	733.731	737.271	742.842	746.214
25	681.989	683.114	687.096	692.307	694.773
26	632.275	635.038	638.604	643.265	645.241
27	583.463	585.305	591.296	595.853	595.619
28	534.492	536.531	543.394	546.258	546.139
29	485.045	489.881	493.420	496.392	496.459
30	434.584	438.328	442.607	445.433	444.687
31	383.748	386.318	389.717	392.127	391.622
32	333.176	335.527	338.105	340.040	339.646
33	282.652	284.829	287.031	288.580	289.427
34	234.097	236.931	238.223	239.980	241.050
35	189.820	192.416	193.174	194.303	196.101
36	154.792	153.180	154.101	154.547	156.935
37	121.108	119.303	120.087	119.392	122.895
38	90.700	92.134	91.257	91.978	94.823
39	69.678	71.048	70.042	72.430	76.386
40	53.466	54.268	55.063	55.672	58.012
41	43.181	42.498	43.348	44.837	46.910
42	33.992	34.549	36.076	37.502	38.943
43	28.573	29.160	30.285	31.682	33.138
44	25.000	25.468	26.460	27.749	28.881
45	22.478	22.864	23.778	24.796	25.683
46	20.707	21.044	21.832	22.623	23.292
47	19.418	19.722	20.369	20.989	21.542
48	18.437	18.712	19.247	19.752	20.220
49	17.679	17.906	18.348	18.749	19.180
50	17.022	17.197	17.587	17.921	18.300
51	16.398	16.543	16.896	17.178	17.520
52	15.744	15.871	16.160	16.391	16.669

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	15.050	15.165	15.403	15.577	15.808
54	14.329	14.426	14.626	14.768	14.950
55	13.583	13.672	13.843	13.947	14.095
56	12.799	12.881	13.018	13.122	13.230
57	12.000	12.060	12.168	12.272	12.357
58	11.191	11.243	11.328	11.429	11.514
59	10.385	10.426	10.493	10.589	10.667
60	9.590	9.631	9.687	9.768	9.846
61	8.843	8.884	8.910	8.992	9.059
62	8.149	8.179	8.201	8.264	8.331
63	7.506	7.532	7.543	7.595	7.655
64	6.923	6.942	6.949	6.986	7.049
65	6.403	6.418	6.411	6.444	6.511
66	5.909	5.932	5.913	5.950	6.010
67	5.478	5.493	5.475	5.504	5.556
68	5.081	5.085	5.066	5.088	5.140
69	4.710	4.702	4.687	4.695	4.747
70	4.357	4.338	4.320	4.323	4.364
71	4.011	3.989	3.963	3.956	3.996
72	3.670	3.651	3.614	3.599	3.644
73	3.328	3.306	3.265	3.242	3.294
74	2.975	2.953	2.904	2.882	2.930
75	2.592	2.581	2.526	2.507	2.548
76	2.158	2.151	2.095	2.091	2.121
77	1.675	1.668	1.605	1.601	1.627
78	1.118	1.118	1.062	1.033	1.051
79	0.750	0.761	0.739	0.735	0.732
80	0.680	0.676	0.672	0.665	0.665
81	0.635	0.635	0.631	0.628	0.628
82	0.598	0.594	0.598	0.594	0.594
83	0.557	0.553	0.557	0.553	0.557
84	0.513	0.509	0.513	0.509	0.513
85	0.461	0.461	0.461	0.461	0.461
86	0.401	0.401	0.405	0.401	0.405
87	0.342	0.338	0.342	0.334	0.334
88	0.267	0.267	0.267	0.264	0.267
89	0.193	0.189	0.193	0.186	0.186
90	0.145	0.141	0.141	0.130	0.123
91	0.134	0.134	0.134	0.123	0.123
92	0.134	0.134	0.134	0.123	0.123
93	0.137	0.134	0.134	0.126	0.123
94	0.137	0.134	0.137	0.126	0.126
95	0.137	0.134	0.137	0.126	0.130
96	0.137	0.134	0.137	0.130	0.130
97	0.141	0.134	0.137	0.130	0.130
98	0.141	0.137	0.137	0.130	0.134
99	0.145	0.141	0.141	0.134	0.137
100	0.145	0.145	0.141	0.137	0.137
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

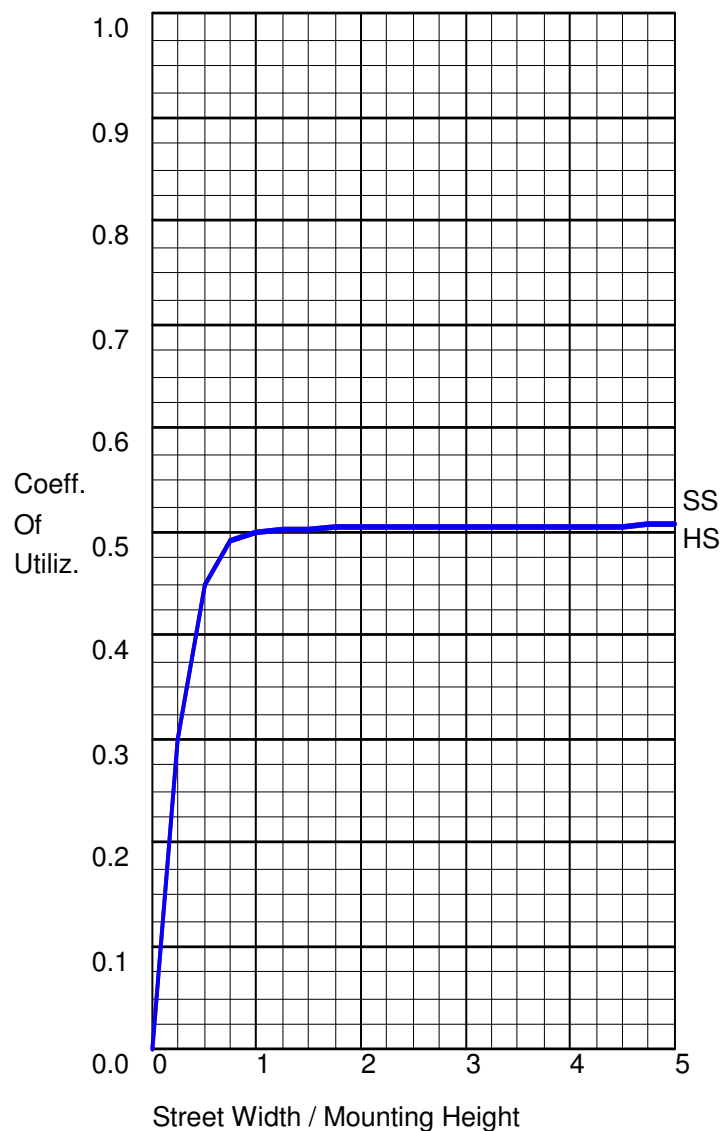
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-827-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

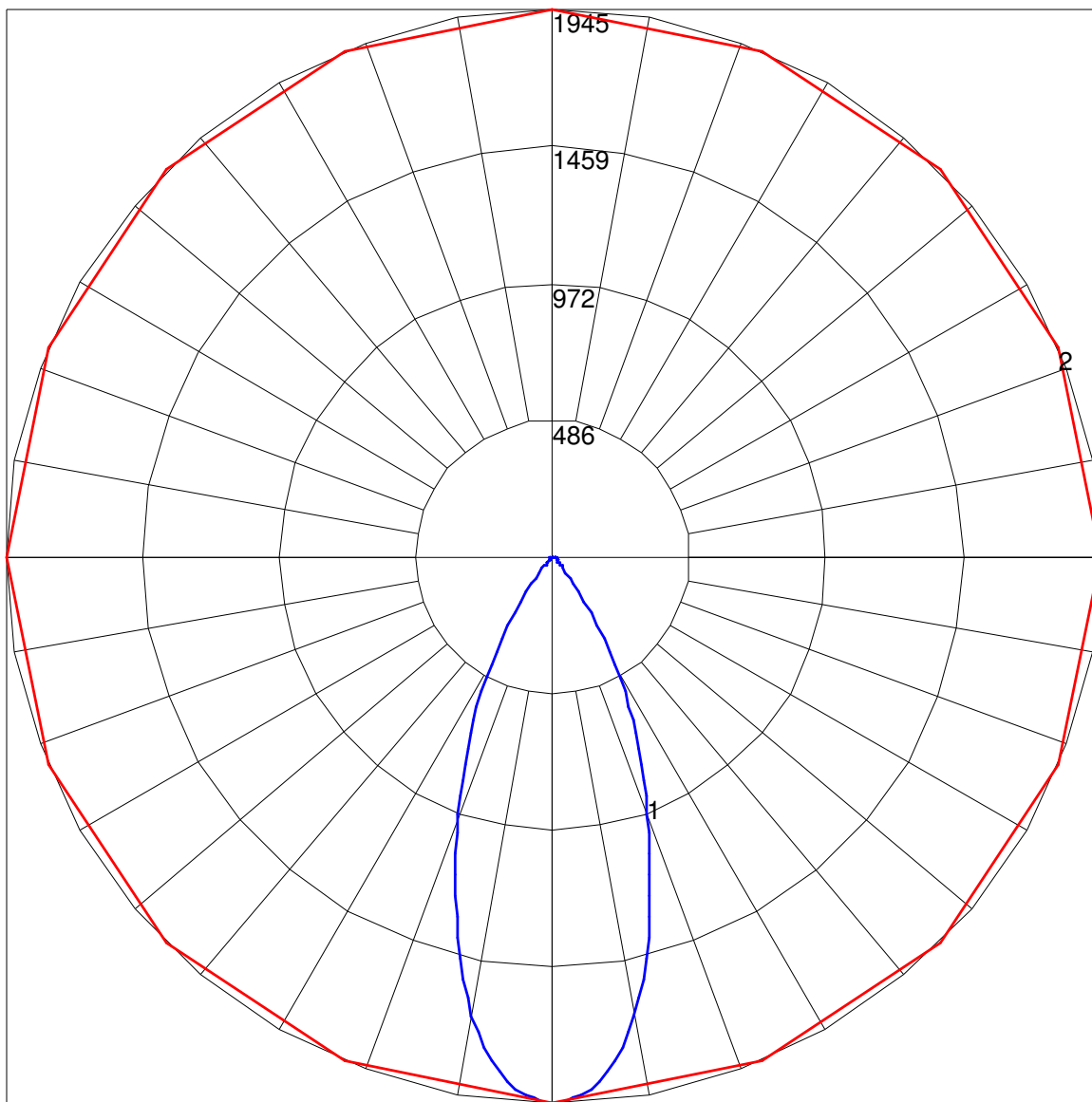
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

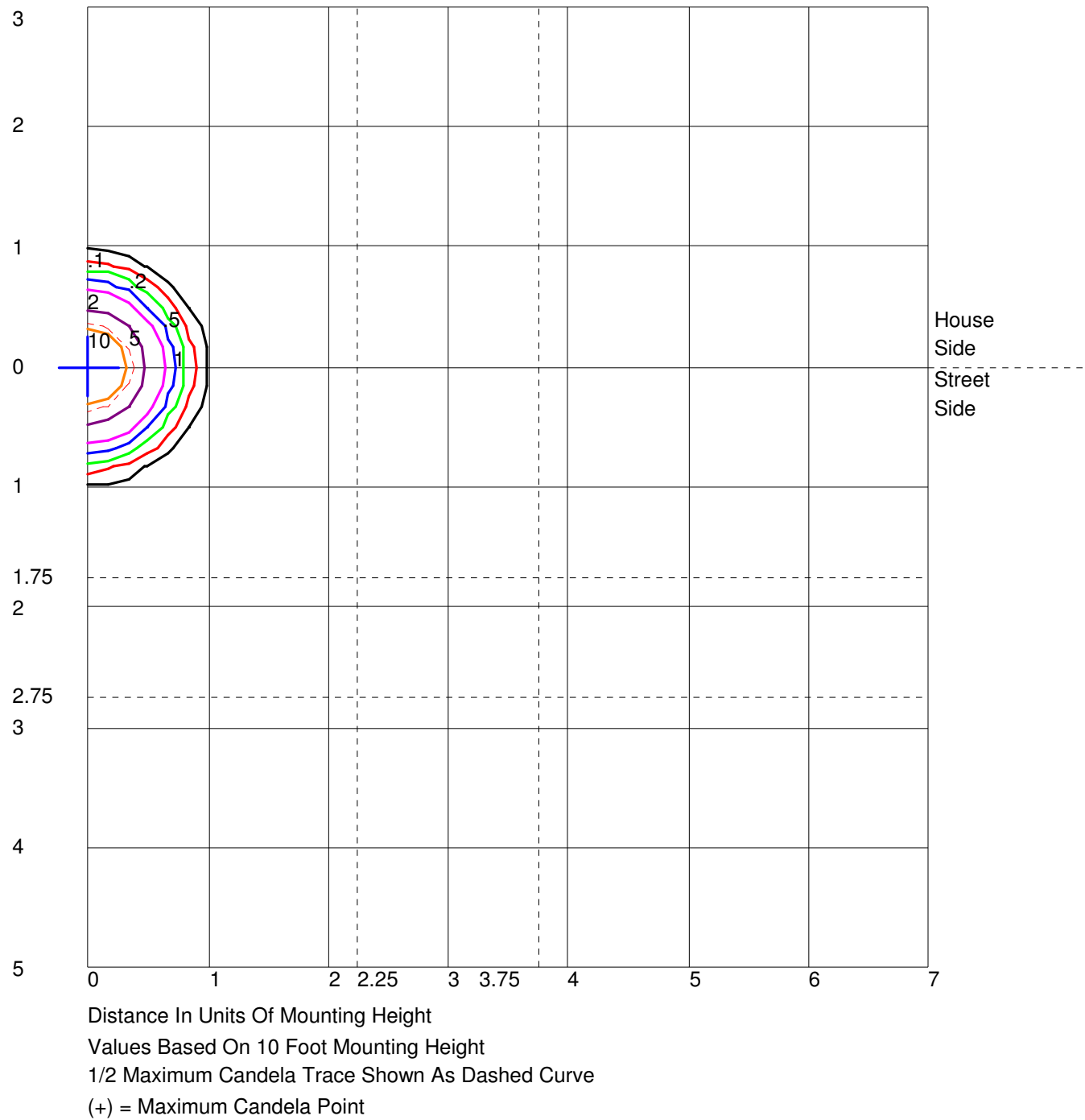
	Lumens	Percent Of Luminaire
Downward Street Side	511.0	50.0
Downward House Side	511.0	50.0
Downward Total	1022.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1022.2	100.0

POLAR GRAPH

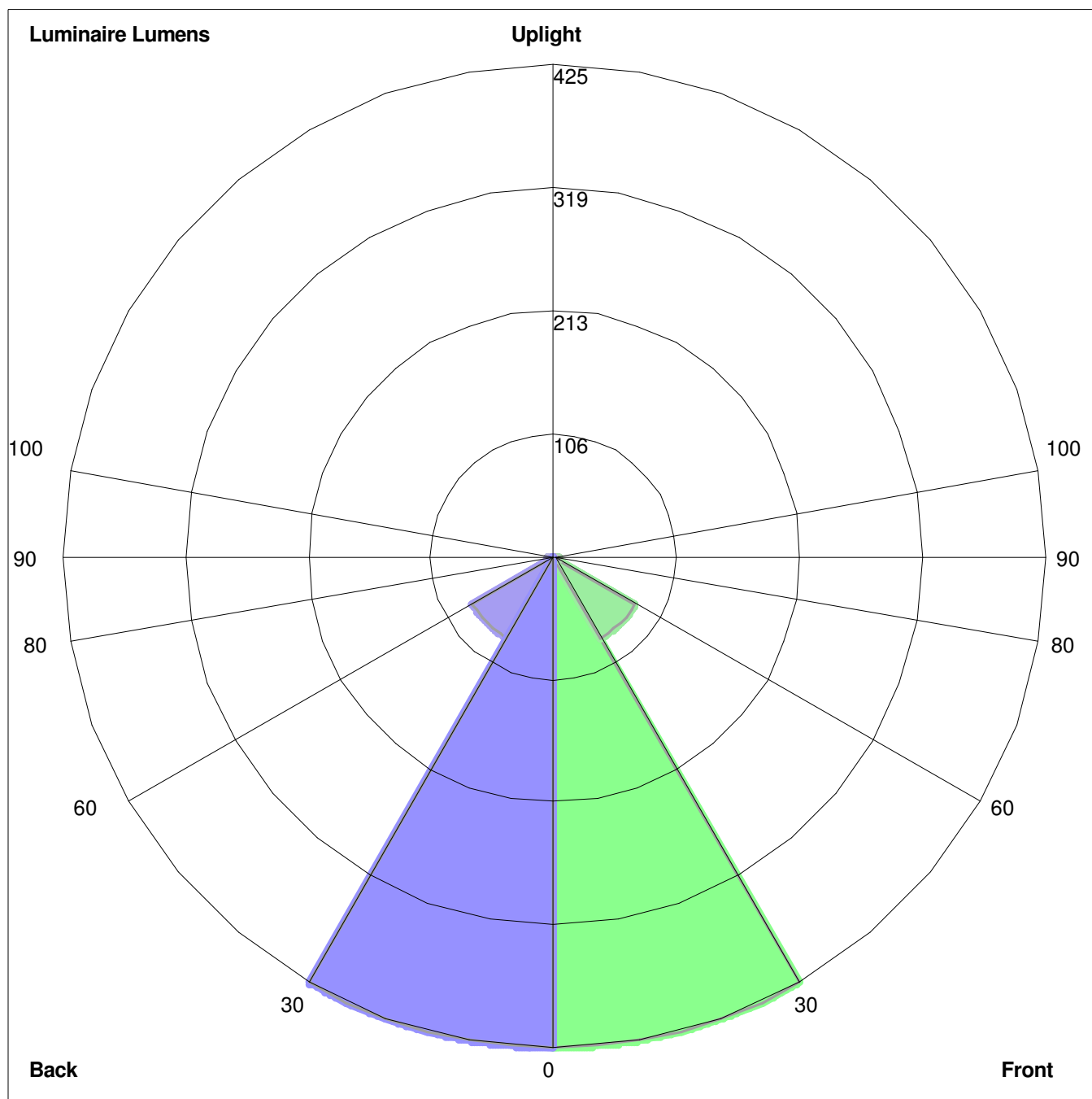


Maximum Candela = 1944.952 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=425.2, Medium=81.1, High=4.6, Very High=0.2
Back: Low=425.2, Medium=81.1, High=4.6, Very High=0.2
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0