

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-850-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-L10-850-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	1033
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1964.798
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1964.798
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.146 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.687 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	429.5	N.A.	41.6
FM - Front-Medium (30-60)	81.9	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)	429.5	N.A.	41.6
BM - Back-Medium (30-60)	81.9	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	1032.5	N.A.	100.0
BUG Rating	B1-U1-G0		

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-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	1964.798	1964.798	1964.798	1964.798	1964.798
1	1961.767	1962.232	1960.926	1960.480	1960.656
2	1953.516	1956.266	1954.191	1953.478	1951.039
3	1939.168	1940.684	1938.522	1939.078	1938.279
4	1919.226	1923.342	1919.608	1919.815	1919.045
5	1899.021	1897.291	1894.379	1893.711	1892.522
6	1867.552	1868.456	1864.633	1862.528	1862.239
7	1832.984	1831.817	1830.005	1826.159	1823.019
8	1789.081	1791.029	1786.402	1782.500	1781.502
9	1739.092	1740.807	1738.076	1735.171	1733.832
10	1682.901	1683.682	1682.410	1681.341	1678.624
11	1622.152	1621.949	1621.172	1619.353	1617.191
12	1555.132	1556.719	1552.382	1553.324	1553.714
13	1485.212	1485.325	1481.036	1485.546	1486.754
14	1410.452	1412.253	1410.670	1414.557	1415.972
15	1333.775	1335.910	1335.385	1340.705	1342.071
16	1258.745	1259.788	1259.795	1265.757	1269.888
17	1185.148	1186.341	1186.851	1191.744	1196.802
18	1109.818	1113.299	1114.042	1118.980	1125.636
19	1041.117	1042.243	1045.477	1050.302	1055.244
20	972.837	976.690	979.125	983.849	990.168
21	909.637	912.372	916.038	920.402	926.199
22	849.923	853.161	855.645	861.217	866.432
23	793.413	795.296	798.148	804.140	809.716
24	740.351	741.218	744.794	750.422	753.829
25	688.948	690.085	694.107	699.371	701.862
26	638.726	641.518	645.120	649.829	651.825
27	589.417	591.278	597.330	601.933	601.697
28	539.946	542.005	548.939	551.832	551.712
29	489.994	494.879	498.455	501.457	501.524
30	439.019	442.801	447.123	449.978	449.224
31	387.664	390.260	393.694	396.129	395.618
32	336.576	338.951	341.555	343.510	343.112
33	285.536	287.735	289.960	291.525	292.380
34	236.486	239.348	240.654	242.429	243.509
35	191.757	194.380	195.145	196.286	198.102
36	156.371	154.743	155.673	156.124	158.536
37	122.344	120.520	121.312	120.610	124.149
38	91.626	93.074	92.188	92.916	95.790
39	70.389	71.773	70.757	73.169	77.165
40	54.011	54.822	55.624	56.240	58.604
41	43.622	42.931	43.790	45.295	47.389
42	34.339	34.902	36.444	37.885	39.340
43	28.865	29.458	30.594	32.005	33.476
44	25.255	25.728	26.730	28.032	29.176
45	22.708	23.098	24.021	25.049	25.946
46	20.918	21.259	22.055	22.854	23.529
47	19.616	19.923	20.576	21.203	21.762
48	18.625	18.903	19.443	19.954	20.426
49	17.860	18.089	18.535	18.940	19.376
50	17.196	17.372	17.766	18.104	18.486
51	16.565	16.712	17.068	17.353	17.699
52	15.905	16.033	16.325	16.558	16.839

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	15.203	15.320	15.560	15.736	15.969
54	14.475	14.573	14.776	14.918	15.102
55	13.721	13.811	13.984	14.089	14.239
56	12.930	13.012	13.151	13.256	13.365
57	12.123	12.183	12.292	12.397	12.483
58	11.305	11.358	11.444	11.545	11.631
59	10.491	10.532	10.600	10.697	10.776
60	9.688	9.729	9.785	9.868	9.947
61	8.934	8.975	9.001	9.084	9.151
62	8.232	8.262	8.285	8.348	8.416
63	7.583	7.609	7.620	7.673	7.733
64	6.994	7.013	7.020	7.058	7.121
65	6.469	6.484	6.476	6.510	6.577
66	5.970	5.992	5.973	6.011	6.071
67	5.534	5.549	5.531	5.561	5.613
68	5.133	5.137	5.118	5.140	5.193
69	4.758	4.750	4.735	4.743	4.795
70	4.401	4.382	4.364	4.367	4.409
71	4.052	4.030	4.003	3.996	4.037
72	3.707	3.688	3.651	3.636	3.681
73	3.362	3.339	3.298	3.276	3.328
74	3.005	2.983	2.934	2.912	2.960
75	2.619	2.608	2.551	2.533	2.574
76	2.180	2.172	2.116	2.112	2.142
77	1.692	1.685	1.621	1.617	1.643
78	1.129	1.129	1.073	1.043	1.062
79	0.758	0.769	0.747	0.743	0.739
80	0.687	0.683	0.679	0.672	0.672
81	0.642	0.642	0.638	0.634	0.634
82	0.604	0.600	0.604	0.600	0.600
83	0.563	0.559	0.563	0.559	0.563
84	0.518	0.514	0.518	0.514	0.518
85	0.465	0.465	0.465	0.465	0.465
86	0.405	0.405	0.409	0.405	0.409
87	0.345	0.341	0.345	0.338	0.338
88	0.270	0.270	0.270	0.266	0.270
89	0.195	0.191	0.195	0.188	0.188
90	0.146	0.143	0.143	0.131	0.124
91	0.135	0.135	0.135	0.124	0.124
92	0.135	0.135	0.135	0.124	0.124
93	0.139	0.135	0.135	0.128	0.124
94	0.139	0.135	0.139	0.128	0.128
95	0.139	0.135	0.139	0.128	0.131
96	0.139	0.135	0.139	0.131	0.131
97	0.143	0.135	0.139	0.131	0.131
98	0.143	0.139	0.139	0.131	0.135
99	0.146	0.143	0.143	0.135	0.139
100	0.146	0.146	0.143	0.139	0.139
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

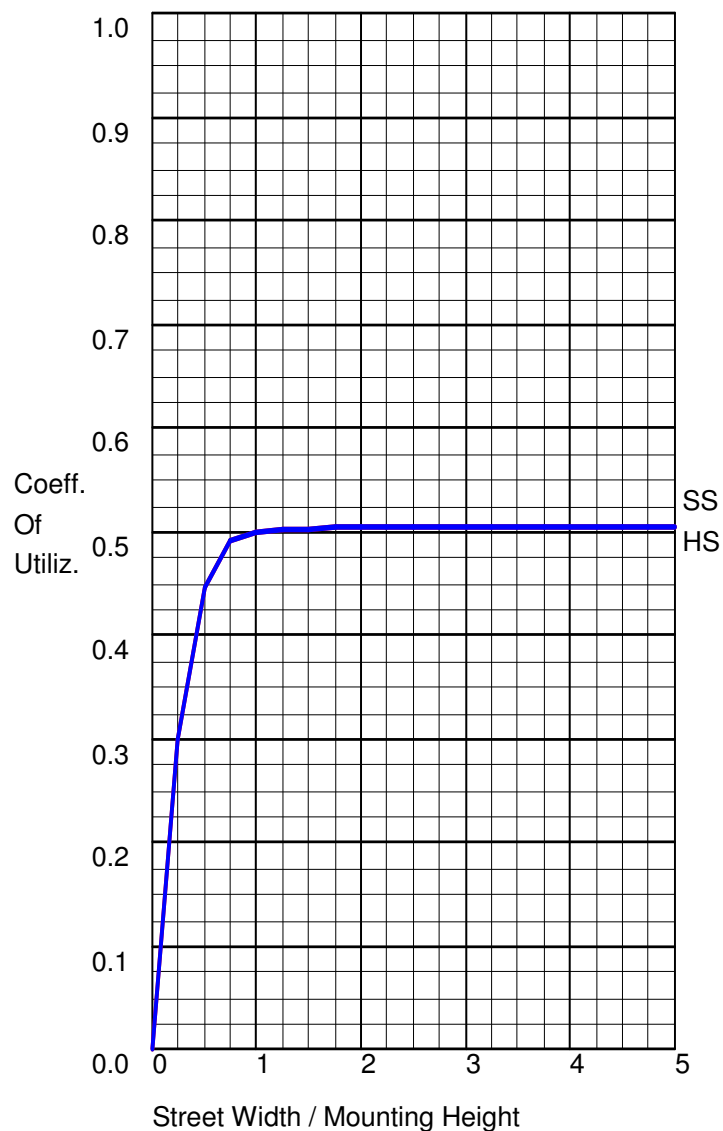
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L10-850-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

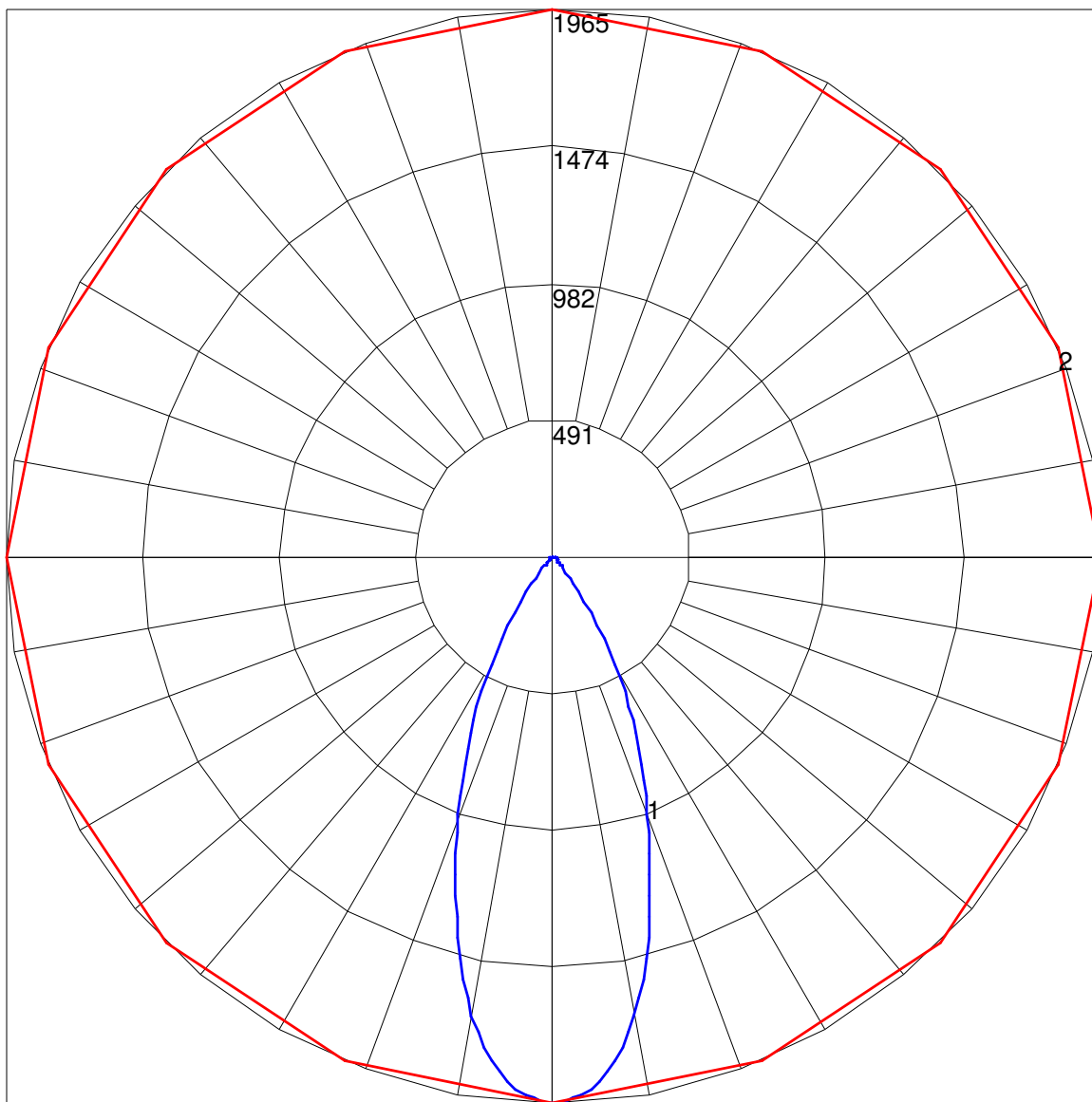
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	516.2	50.0
Downward House Side	516.2	50.0
Downward Total	1032.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1032.6	100.0

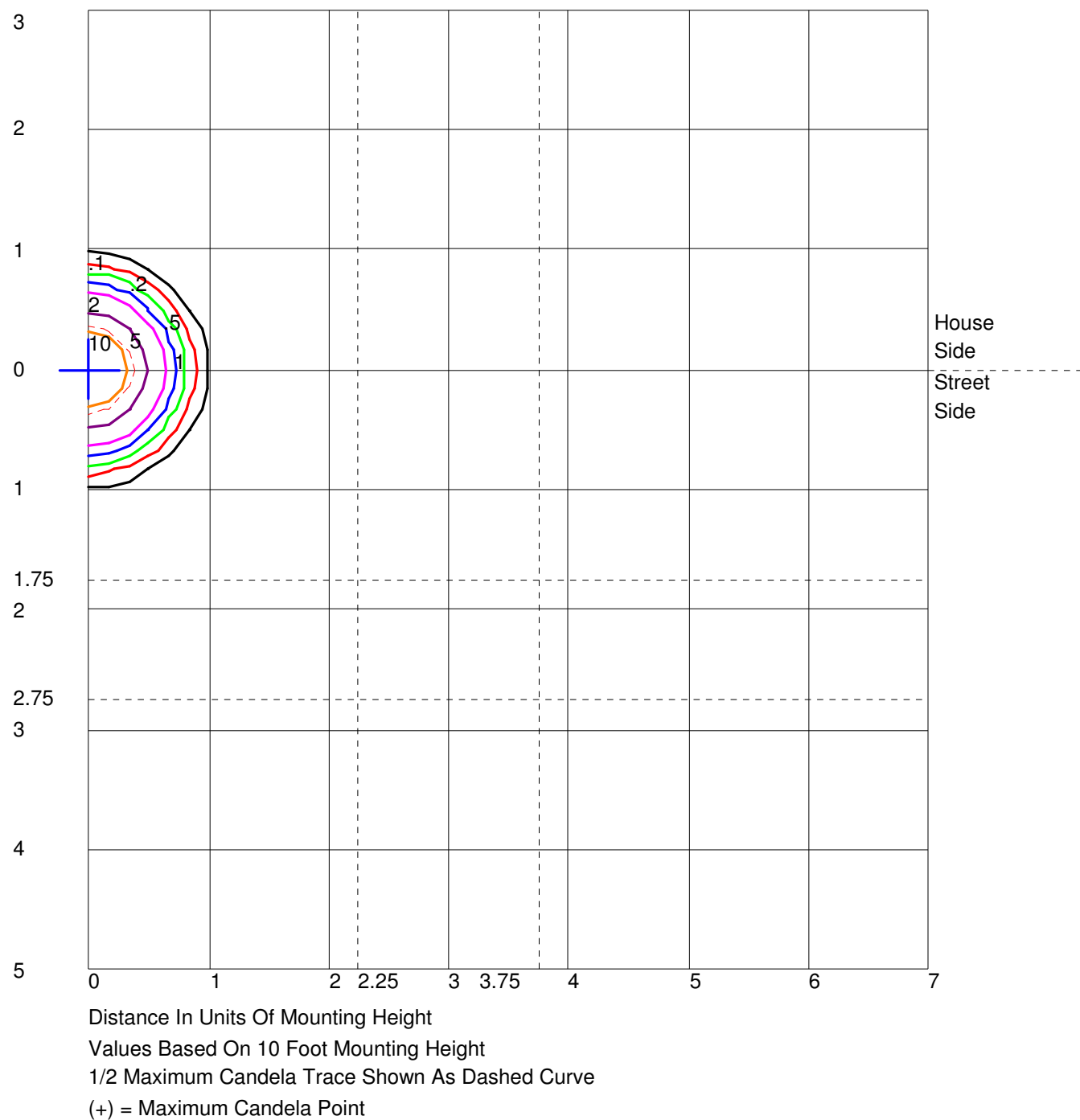
POLAR GRAPH



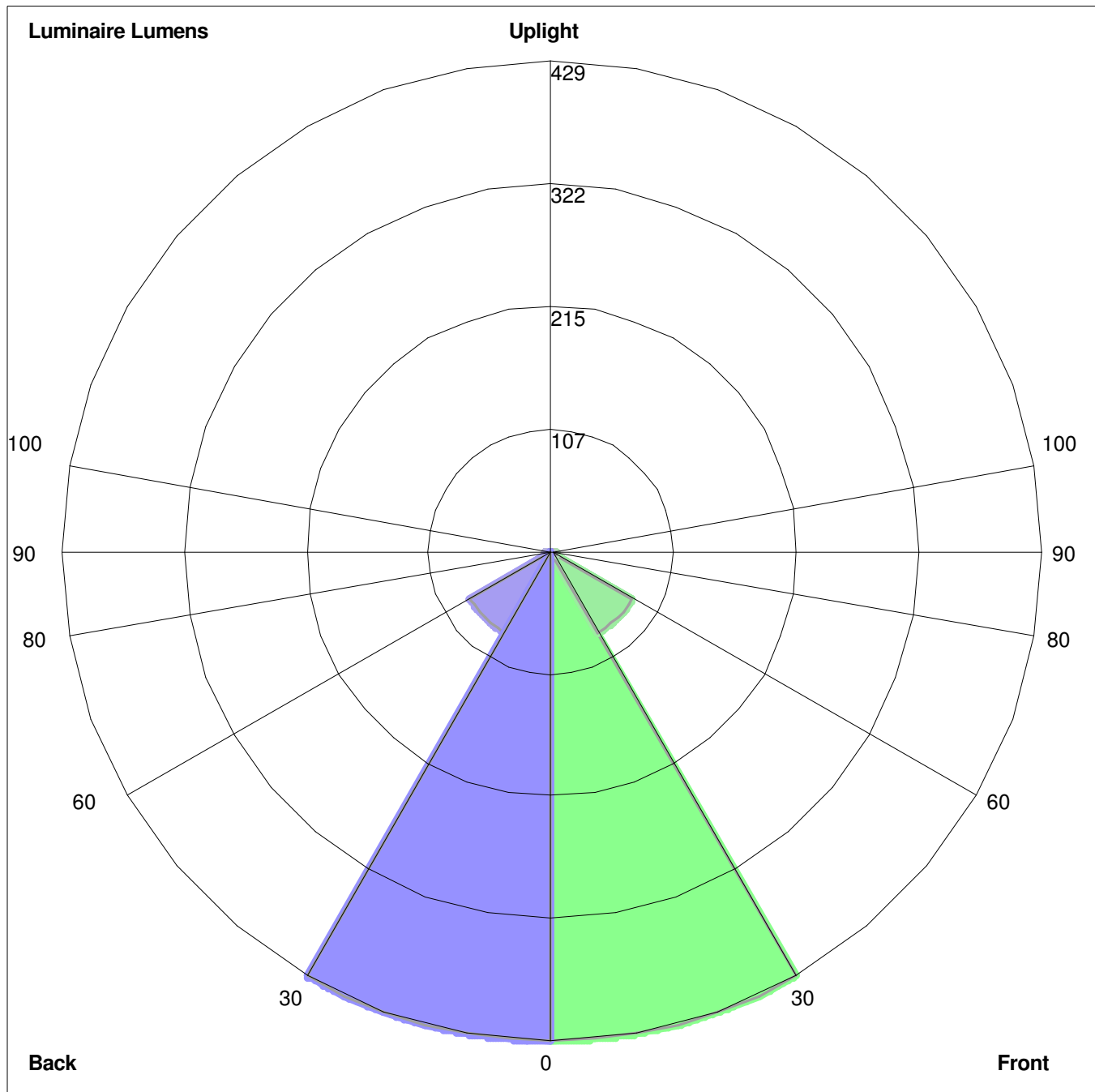
Maximum Candela = 1964.798 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=429.5, Medium=81.9, High=4.6, Very High=0.2  
Back: Low=429.5, Medium=81.9, High=4.6, Very High=0.2  
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0