

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-W-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-XW\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L20-830-xxx-DIM-UNV-W-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH WIDE DIST  
[LAMPCAT] BL VERO 18  
[LAMP] LED  
[OTHER] Absolute Photometry

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2169
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	20.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1816.359
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1816.359
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.604 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	10.612 (0.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	579.6	N.A.	26.7
FM - Front-Medium (30-60)	432.6	N.A.	19.9
FH - Front-High (60-80)	70.1	N.A.	3.2
FVH - Front-Very High (80-90)	2.0	N.A.	0.1
BL - Back-Low (0-30)	579.6	N.A.	26.7
BM - Back-Medium (30-60)	432.6	N.A.	19.9
BH - Back-High (60-80)	70.1	N.A.	3.2
BVH - Back-Very High (80-90)	2.0	N.A.	0.1
UL - Uplight-Low (90-100)	0.6	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2169.2	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	1816.359	1816.359	1816.359	1816.359	1816.359
1	1815.341	1815.930	1815.574	1814.686	1815.050
2	1814.206	1814.068	1813.341	1812.133	1811.886
3	1811.319	1811.340	1810.228	1808.780	1807.078
4	1806.307	1806.918	1805.616	1803.129	1801.972
5	1797.644	1798.052	1796.655	1794.051	1793.462
6	1786.356	1785.810	1782.879	1780.071	1779.926
7	1769.321	1768.230	1763.756	1761.654	1760.534
8	1745.296	1745.005	1740.815	1739.062	1737.404
9	1716.965	1717.016	1714.070	1711.946	1710.782
10	1685.572	1685.965	1683.063	1681.819	1681.448
11	1650.884	1652.026	1649.895	1649.640	1649.626
12	1615.119	1616.494	1615.185	1616.130	1615.694
13	1580.017	1580.992	1581.748	1582.301	1581.275
14	1544.500	1545.867	1547.860	1548.718	1546.391
15	1509.273	1511.325	1513.499	1514.627	1511.986
16	1474.753	1477.779	1479.401	1481.357	1479.641
17	1442.196	1445.069	1445.738	1449.142	1447.615
18	1409.835	1413.312	1414.098	1417.953	1416.302
19	1380.857	1383.629	1384.865	1387.913	1386.800
20	1354.141	1355.436	1356.971	1359.778	1357.429
21	1329.222	1329.324	1331.011	1333.666	1330.255
22	1306.739	1303.764	1306.870	1308.143	1306.826
23	1285.769	1281.623	1284.751	1285.143	1285.536
24	1265.083	1261.882	1263.570	1263.592	1263.926
25	1245.247	1242.869	1241.982	1241.989	1242.629
26	1224.634	1222.081	1219.164	1219.419	1218.786
27	1200.493	1196.398	1192.703	1191.801	1192.877
28	1167.994	1163.172	1158.058	1157.426	1159.229
29	1125.283	1120.999	1112.765	1112.867	1114.955
30	1068.236	1064.381	1054.693	1055.878	1057.486
31	996.831	993.252	984.095	985.877	987.171
32	913.409	911.307	903.270	906.783	908.020
33	821.929	821.303	816.015	820.489	822.031
34	728.681	729.823	727.204	732.696	733.023
35	641.972	642.204	642.364	648.794	648.263
36	564.718	564.631	567.860	574.298	574.530
37	500.703	500.994	505.482	511.890	511.104
38	450.340	452.108	457.003	461.891	461.476
39	414.903	417.245	421.020	424.963	424.832
40	390.696	392.602	395.242	397.635	397.897
41	374.112	374.949	376.811	378.208	378.222
42	361.435	361.733	362.977	363.755	363.151
43	350.771	350.764	351.586	351.855	350.990
44	340.690	340.690	341.076	341.068	340.225
45	330.558	330.623	330.878	330.813	329.947
46	320.215	320.353	320.433	320.382	319.684
47	309.341	309.544	309.653	309.632	308.992
48	298.358	298.518	298.598	298.576	298.045
49	287.127	287.302	287.403	287.280	286.676
50	275.758	275.758	275.846	275.802	275.220
51	264.251	264.251	264.295	264.244	263.750
52	252.621	252.737	252.730	252.672	252.134

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	241.230	241.289	241.230	241.187	240.503
54	229.891	229.818	229.760	229.571	228.858
55	218.427	218.217	218.151	217.816	217.125
56	206.259	206.091	206.019	205.626	204.979
57	193.966	193.792	193.726	193.239	192.570
58	181.943	181.703	181.536	181.063	180.430
59	170.007	169.818	169.549	169.149	168.567
60	158.391	158.165	157.991	157.525	157.038
61	147.022	146.848	146.688	146.317	145.851
62	136.126	135.944	135.741	135.442	134.999
63	125.521	125.398	125.179	124.925	124.503
64	115.258	115.149	115.004	114.727	114.443
65	105.650	105.439	105.359	105.148	104.951
66	96.114	96.150	95.903	95.859	95.597
67	87.051	87.138	87.000	86.913	86.695
68	78.548	78.548	78.497	78.417	78.315
69	70.372	70.402	70.322	70.300	70.256
70	62.655	62.728	62.655	62.655	62.648
71	55.425	55.476	55.403	55.440	55.447
72	48.632	48.712	48.639	48.682	48.741
73	42.289	42.340	42.311	42.369	42.391
74	36.434	36.463	36.470	36.550	36.521
75	31.008	31.051	31.073	31.138	31.095
76	25.996	26.011	26.061	26.134	26.105
77	21.435	21.457	21.537	21.588	21.566
78	17.319	17.304	17.428	17.442	17.435
79	13.624	13.638	13.754	13.805	13.769
80	10.438	10.430	10.547	10.612	10.583
81	7.652	7.688	7.790	7.856	7.819
82	5.179	5.230	5.302	5.310	5.346
83	3.579	3.593	3.731	3.811	3.906
84	3.317	3.324	3.317	3.317	3.302
85	3.077	3.084	3.077	3.069	3.055
86	2.757	2.757	2.749	2.749	2.728
87	2.320	2.328	2.313	2.313	2.298
88	1.775	1.760	1.760	1.760	1.746
89	1.084	1.084	1.084	1.076	1.062
90	0.473	0.473	0.531	0.582	0.604
91	0.415	0.415	0.415	0.415	0.407
92	0.422	0.429	0.429	0.429	0.429
93	0.451	0.458	0.458	0.458	0.458
94	0.473	0.480	0.487	0.487	0.480
95	0.509	0.509	0.516	0.509	0.509
96	0.538	0.546	0.546	0.546	0.538
97	0.575	0.582	0.582	0.575	0.575
98	0.611	0.611	0.611	0.611	0.604
99	0.647	0.647	0.647	0.655	0.647
100	0.676	0.684	0.676	0.691	0.676
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

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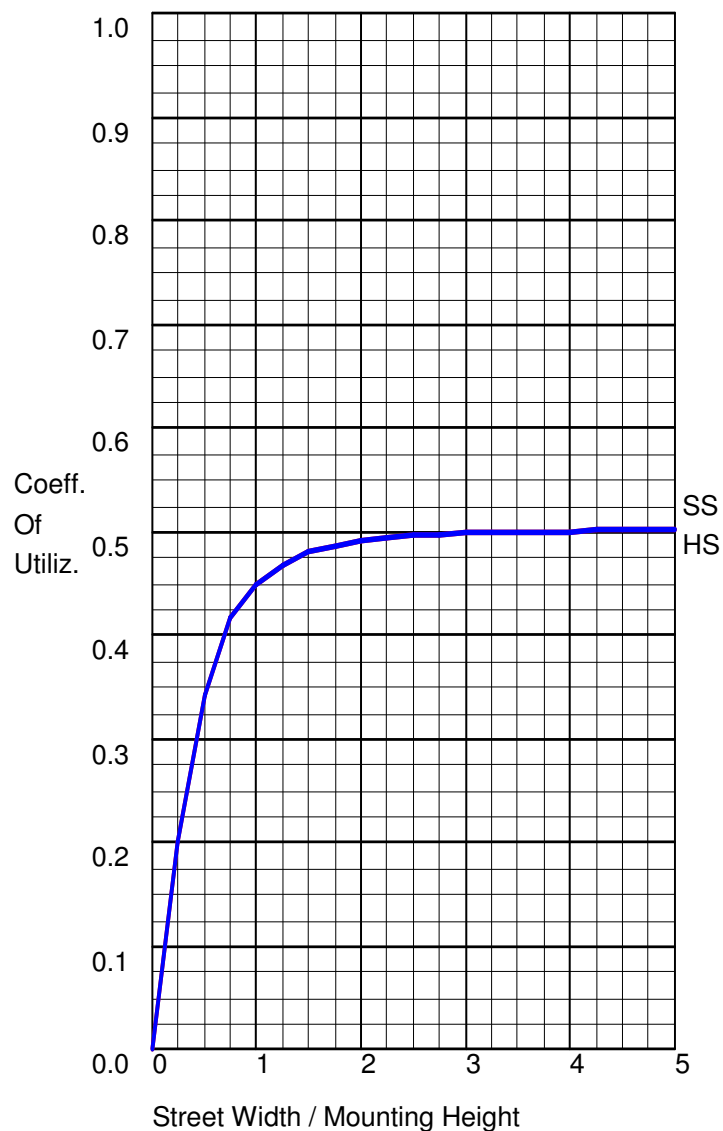
CANDELA TABULATION - (Cont.)

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 : W6CR-XX-L20-830-XXX-DIM-UNV-W-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

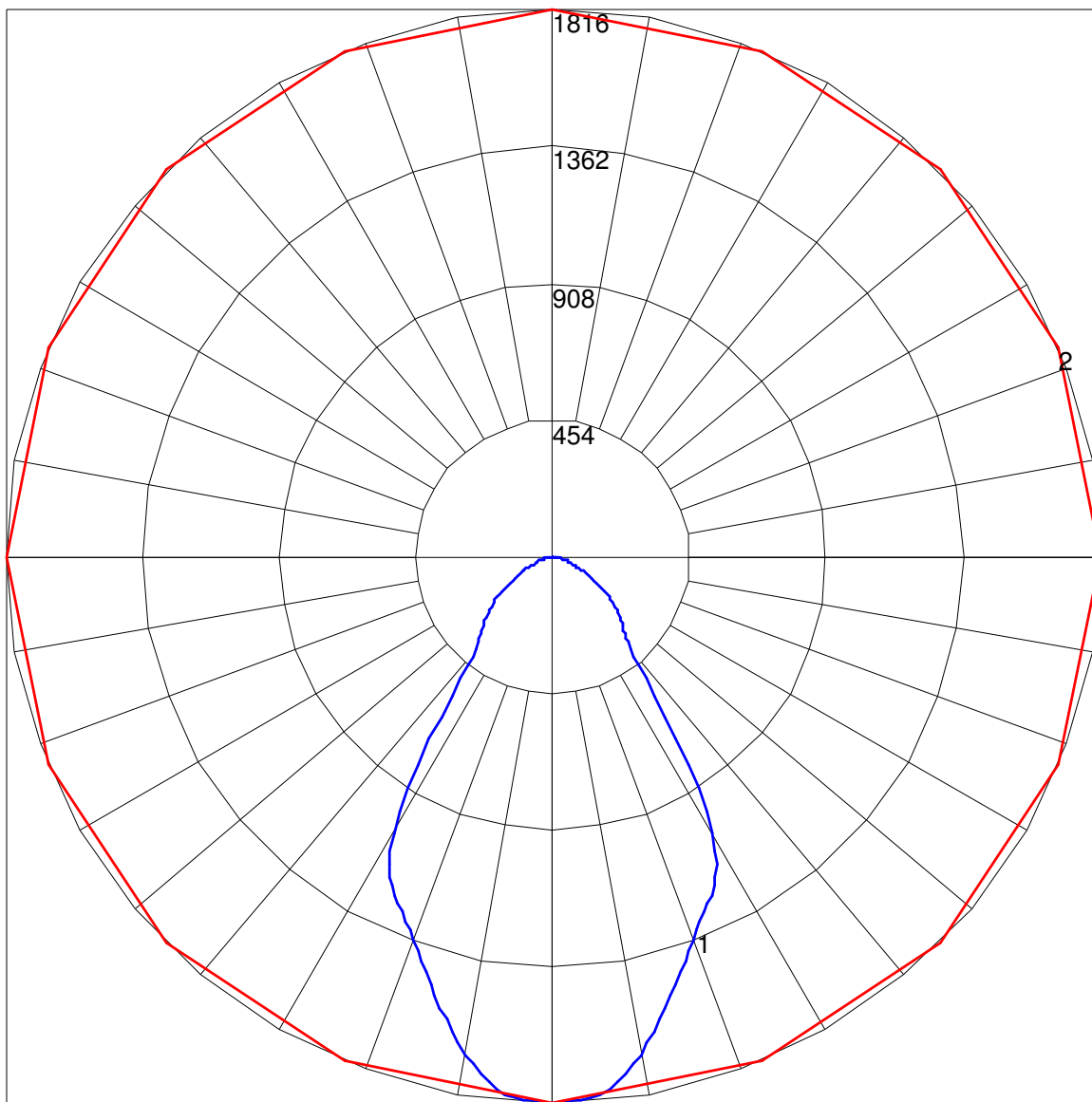
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1084.3	50.0
Downward House Side	1084.3	50.0
Downward Total	2168.6	100.0
Upward Street Side	0.3	0.0
Upward House Side	0.3	0.0
Upward Total	0.6	0.0
Total Flux	2169.2	100.0

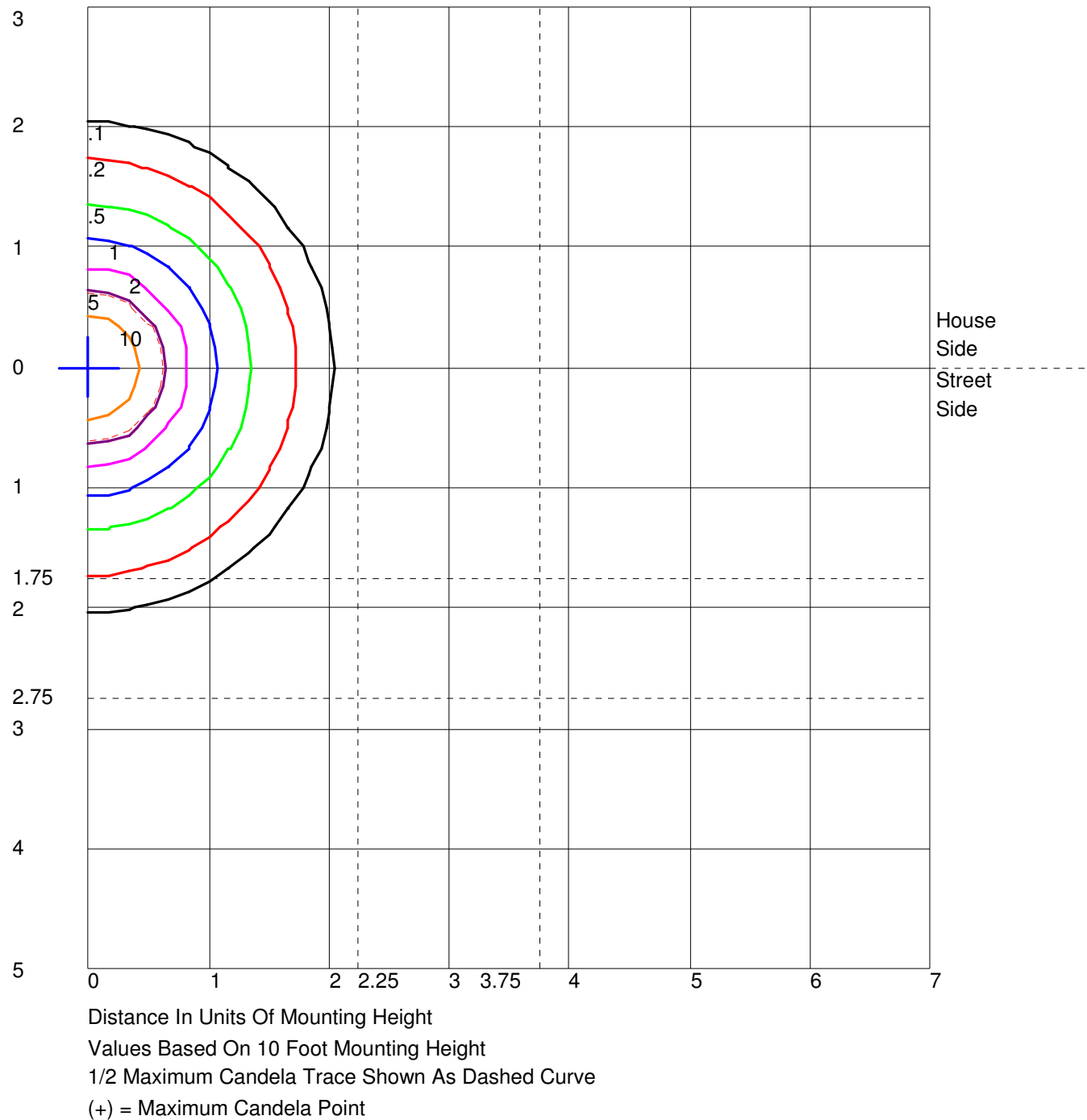
POLAR GRAPH



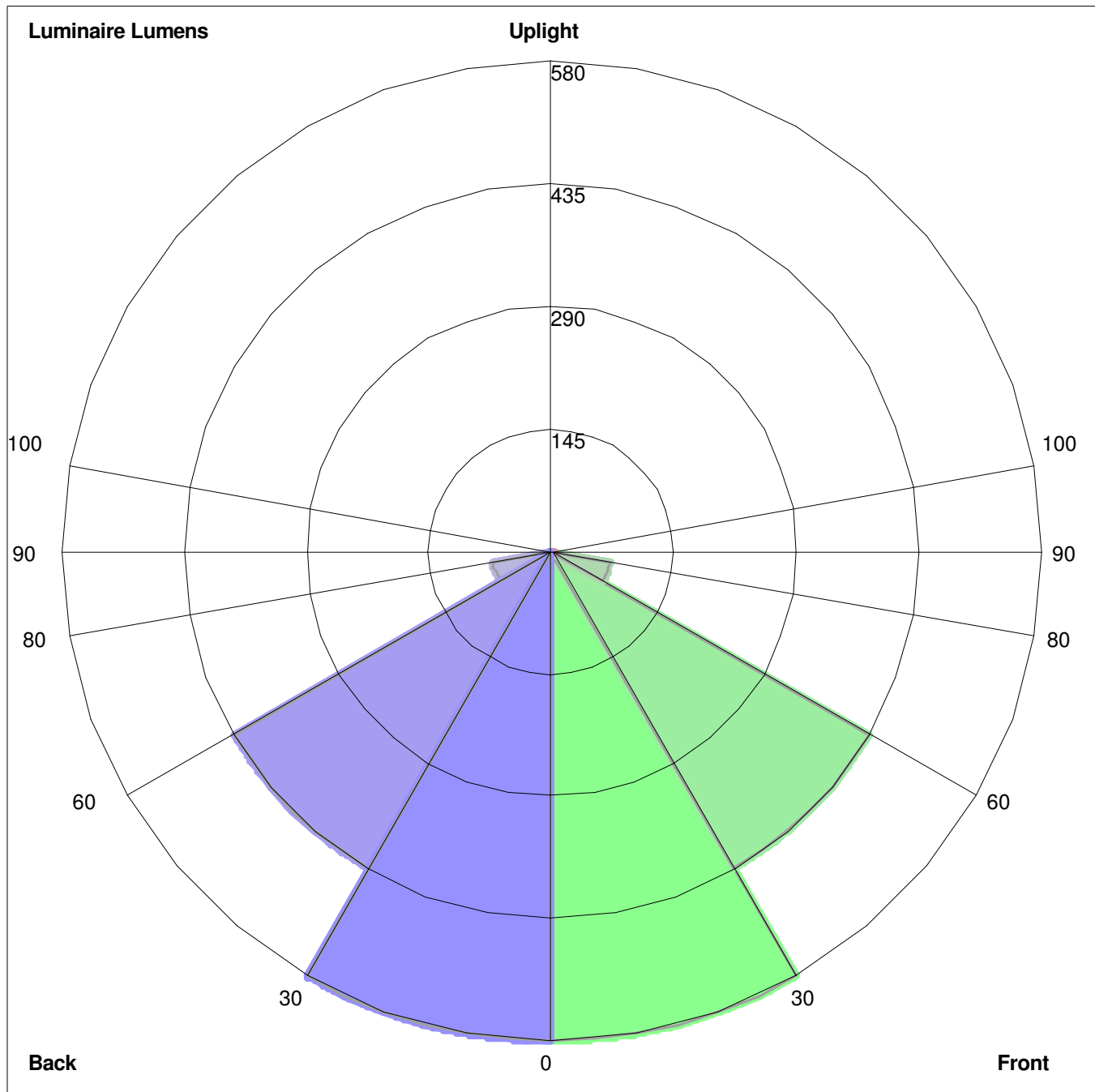
Maximum Candela = 1816.359 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=579.6, Medium=432.6, High=70.1, Very High=2.0  
Back: Low=579.6, Medium=432.6, High=70.1, Very High=2.0  
Uplight: Low=0.6, High=0.0

BUG Rating : B2-U1-G0