

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-840-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-L20-840-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	2191
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	20.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1834.523
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1834.523
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.61 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	10.718 (0.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-840-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	585.4	N.A.	26.7
FM - Front-Medium (30-60)	437.0	N.A.	19.9
FH - Front-High (60-80)	70.8	N.A.	3.2
FVH - Front-Very High (80-90)	2.0	N.A.	0.1
BL - Back-Low (0-30)	585.4	N.A.	26.7
BM - Back-Medium (30-60)	437.0	N.A.	19.9
BH - Back-High (60-80)	70.8	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	2191.0	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	1834.523	1834.523	1834.523	1834.523	1834.523
1	1833.495	1834.090	1833.730	1832.833	1833.201
2	1832.349	1832.209	1831.474	1830.255	1830.005
3	1829.432	1829.454	1828.330	1826.868	1825.149
4	1824.370	1824.988	1823.673	1821.160	1819.992
5	1815.621	1816.032	1814.622	1811.992	1811.397
6	1804.219	1803.668	1800.708	1797.872	1797.725
7	1787.014	1785.912	1781.394	1779.271	1778.140
8	1762.749	1762.455	1758.224	1756.453	1754.778
9	1734.135	1734.186	1731.211	1729.066	1727.890
10	1702.428	1702.825	1699.893	1698.637	1698.262
11	1667.393	1668.546	1666.394	1666.137	1666.122
12	1631.271	1632.659	1631.337	1632.292	1631.851
13	1595.817	1596.802	1597.566	1598.124	1597.088
14	1559.945	1561.326	1563.339	1564.206	1561.855
15	1524.366	1526.438	1528.635	1529.773	1527.107
16	1489.500	1492.557	1494.195	1496.171	1494.437
17	1456.618	1459.520	1460.196	1463.634	1462.091
18	1423.934	1427.446	1428.239	1432.133	1430.465
19	1394.666	1397.465	1398.714	1401.792	1400.668
20	1367.683	1368.990	1370.540	1373.376	1371.003
21	1342.514	1342.617	1344.321	1347.003	1343.557
22	1319.806	1316.802	1319.939	1321.224	1319.895
23	1298.627	1294.439	1297.598	1297.995	1298.392
24	1277.734	1274.501	1276.206	1276.228	1276.566
25	1257.700	1255.298	1254.402	1254.409	1255.055
26	1236.880	1234.302	1231.356	1231.613	1230.974
27	1212.498	1208.362	1204.630	1203.719	1204.806
28	1179.674	1174.804	1169.639	1169.000	1170.822
29	1136.536	1132.209	1123.893	1123.996	1126.104
30	1078.919	1075.025	1065.240	1066.437	1068.061
31	1006.799	1003.185	993.936	995.736	997.043
32	922.544	920.420	912.303	915.851	917.100
33	830.148	829.516	824.176	828.694	830.251
34	735.968	737.121	734.476	740.023	740.353
35	648.391	648.627	648.788	655.282	654.746
36	570.366	570.277	573.539	580.041	580.276
37	505.710	506.004	510.537	517.009	516.215
38	454.844	456.629	461.573	466.510	466.091
39	419.052	421.418	425.230	429.212	429.080
40	394.603	396.528	399.195	401.612	401.876
41	377.854	378.698	380.579	381.990	382.004
42	365.049	365.350	366.606	367.392	366.783
43	354.279	354.272	355.102	355.374	354.500
44	344.097	344.097	344.486	344.479	343.627
45	333.864	333.930	334.187	334.121	333.246
46	323.417	323.557	323.637	323.586	322.881
47	312.434	312.640	312.750	312.728	312.082
48	301.341	301.503	301.584	301.562	301.025
49	289.998	290.175	290.277	290.153	289.543
50	278.516	278.516	278.604	278.560	277.972
51	266.894	266.894	266.938	266.887	266.387
52	255.147	255.265	255.257	255.199	254.655

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-840-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	243.643	243.701	243.643	243.599	242.908
54	232.190	232.116	232.057	231.866	231.146
55	220.612	220.399	220.333	219.995	219.297
56	208.321	208.152	208.079	207.682	207.028
57	195.906	195.730	195.663	195.171	194.495
58	183.762	183.520	183.351	182.873	182.234
59	171.707	171.516	171.244	170.840	170.252
60	159.975	159.747	159.571	159.101	158.608
61	148.492	148.316	148.154	147.780	147.310
62	137.487	137.304	137.098	136.797	136.349
63	126.776	126.652	126.431	126.174	125.748
64	116.411	116.301	116.154	115.874	115.588
65	106.706	106.493	106.412	106.199	106.001
66	97.075	97.112	96.862	96.818	96.553
67	87.921	88.010	87.870	87.782	87.561
68	79.334	79.334	79.282	79.201	79.098
69	71.076	71.106	71.025	71.003	70.959
70	63.282	63.355	63.282	63.282	63.274
71	55.979	56.031	55.957	55.994	56.001
72	49.118	49.199	49.125	49.169	49.228
73	42.712	42.763	42.734	42.793	42.815
74	36.798	36.827	36.835	36.916	36.886
75	31.318	31.362	31.384	31.450	31.406
76	26.256	26.271	26.322	26.396	26.366
77	21.650	21.672	21.753	21.804	21.782
78	17.492	17.477	17.602	17.617	17.609
79	13.760	13.774	13.892	13.943	13.907
80	10.542	10.535	10.652	10.718	10.689
81	7.728	7.765	7.868	7.934	7.897
82	5.231	5.282	5.356	5.363	5.400
83	3.614	3.629	3.769	3.850	3.945
84	3.350	3.357	3.350	3.350	3.335
85	3.108	3.115	3.108	3.100	3.085
86	2.784	2.784	2.777	2.777	2.755
87	2.343	2.351	2.336	2.336	2.321
88	1.793	1.778	1.778	1.778	1.763
89	1.095	1.095	1.095	1.087	1.073
90	0.478	0.478	0.536	0.588	0.610
91	0.419	0.419	0.419	0.419	0.411
92	0.426	0.433	0.433	0.433	0.433
93	0.455	0.463	0.463	0.463	0.463
94	0.478	0.485	0.492	0.492	0.485
95	0.514	0.514	0.522	0.514	0.514
96	0.544	0.551	0.551	0.551	0.544
97	0.580	0.588	0.588	0.580	0.580
98	0.617	0.617	0.617	0.617	0.610
99	0.654	0.654	0.654	0.661	0.654
100	0.683	0.691	0.683	0.698	0.683
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

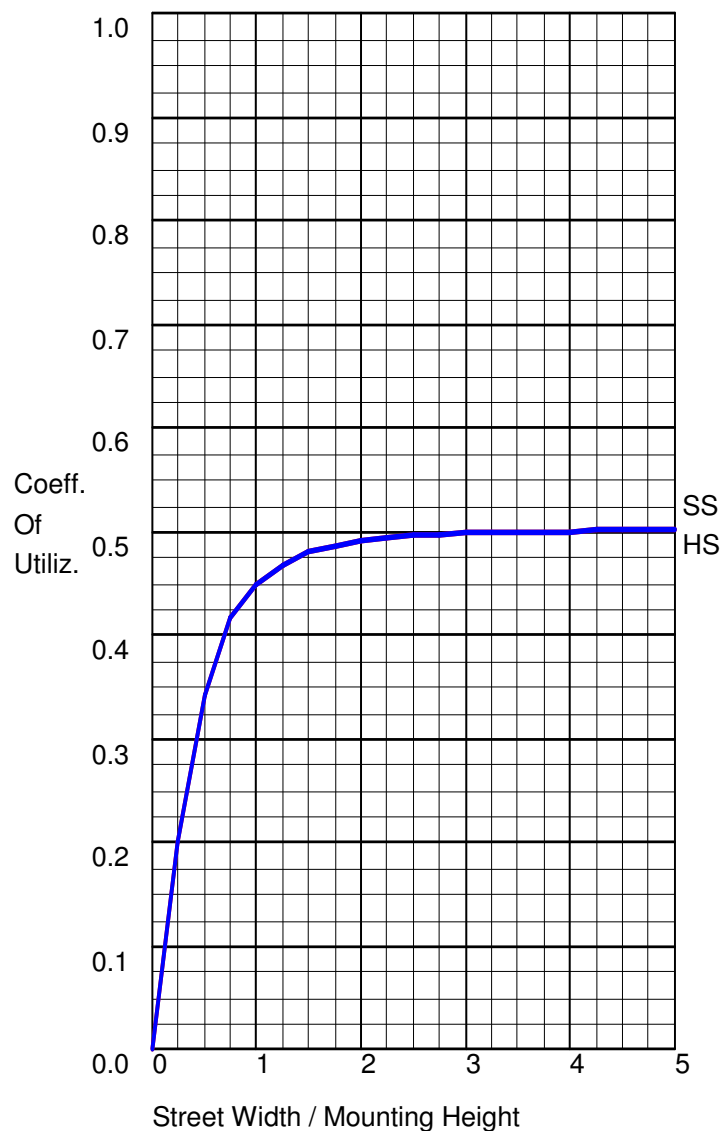
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-840-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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 : W6CR-XX-L20-840-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

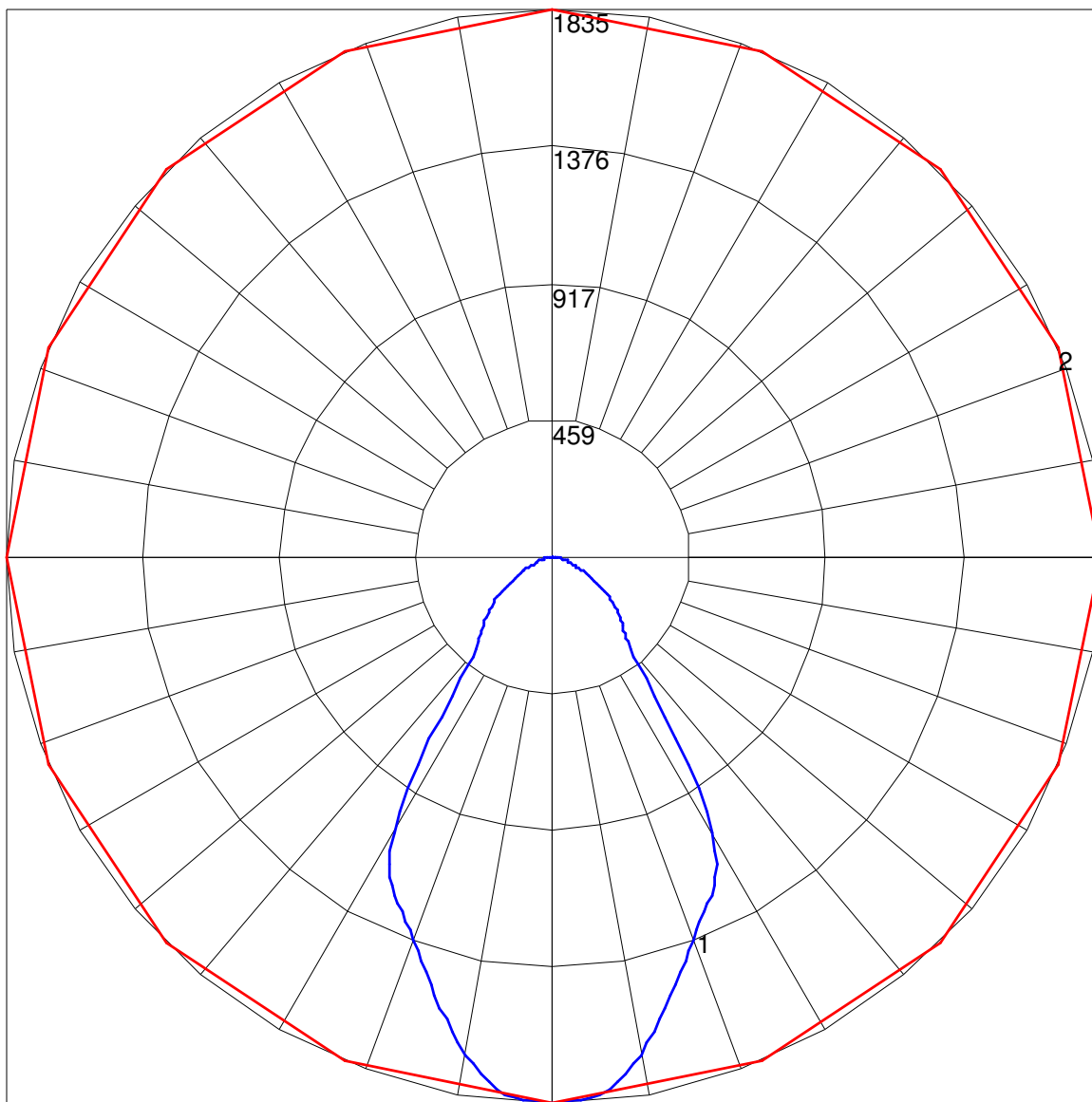
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

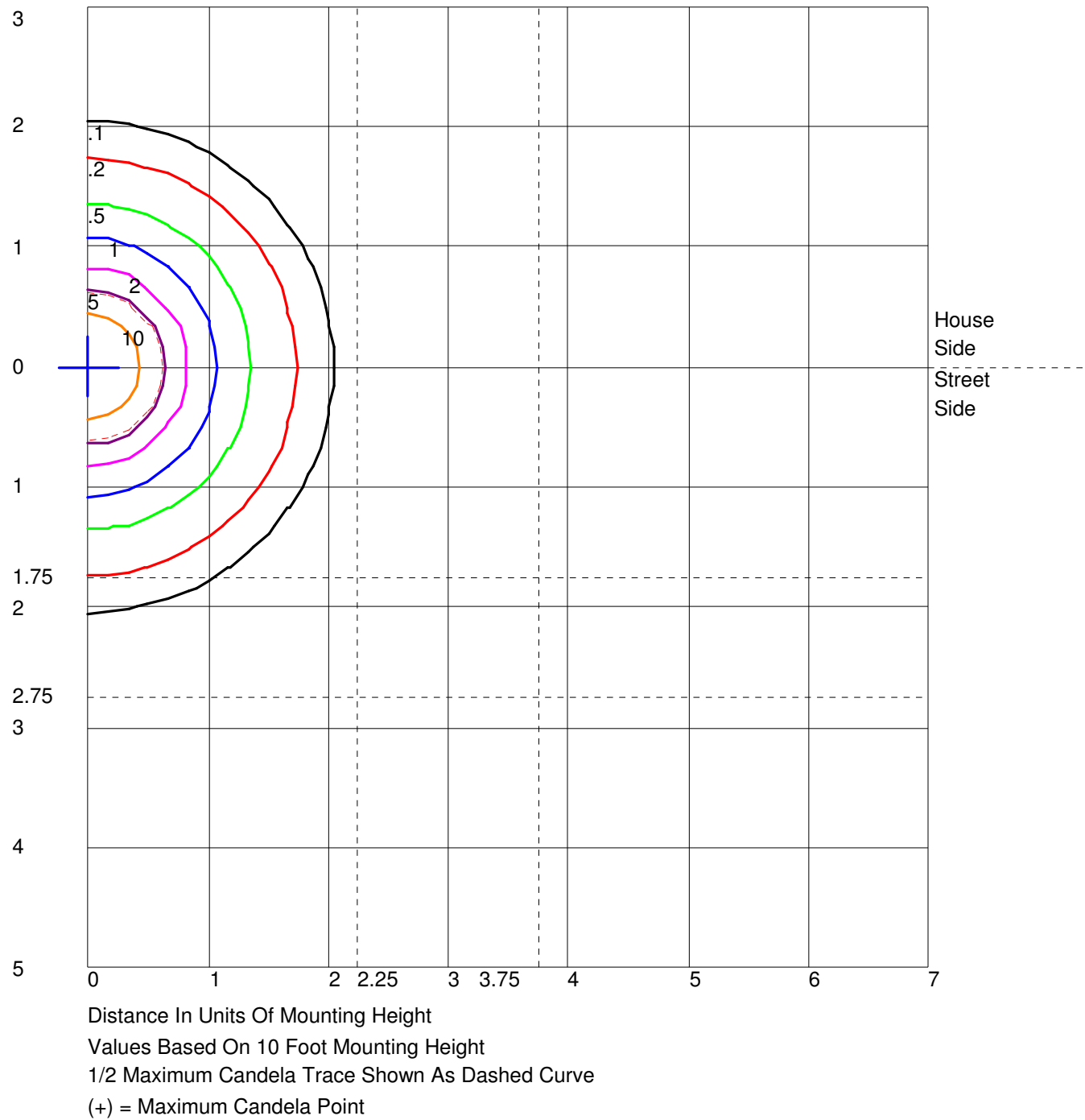
	Lumens	Percent Of Luminaire
Downward Street Side	1095.1	50.0
Downward House Side	1095.1	50.0
Downward Total	2190.2	100.0
Upward Street Side	0.3	0.0
Upward House Side	0.3	0.0
Upward Total	0.6	0.0
Total Flux	2190.8	100.0

POLAR GRAPH

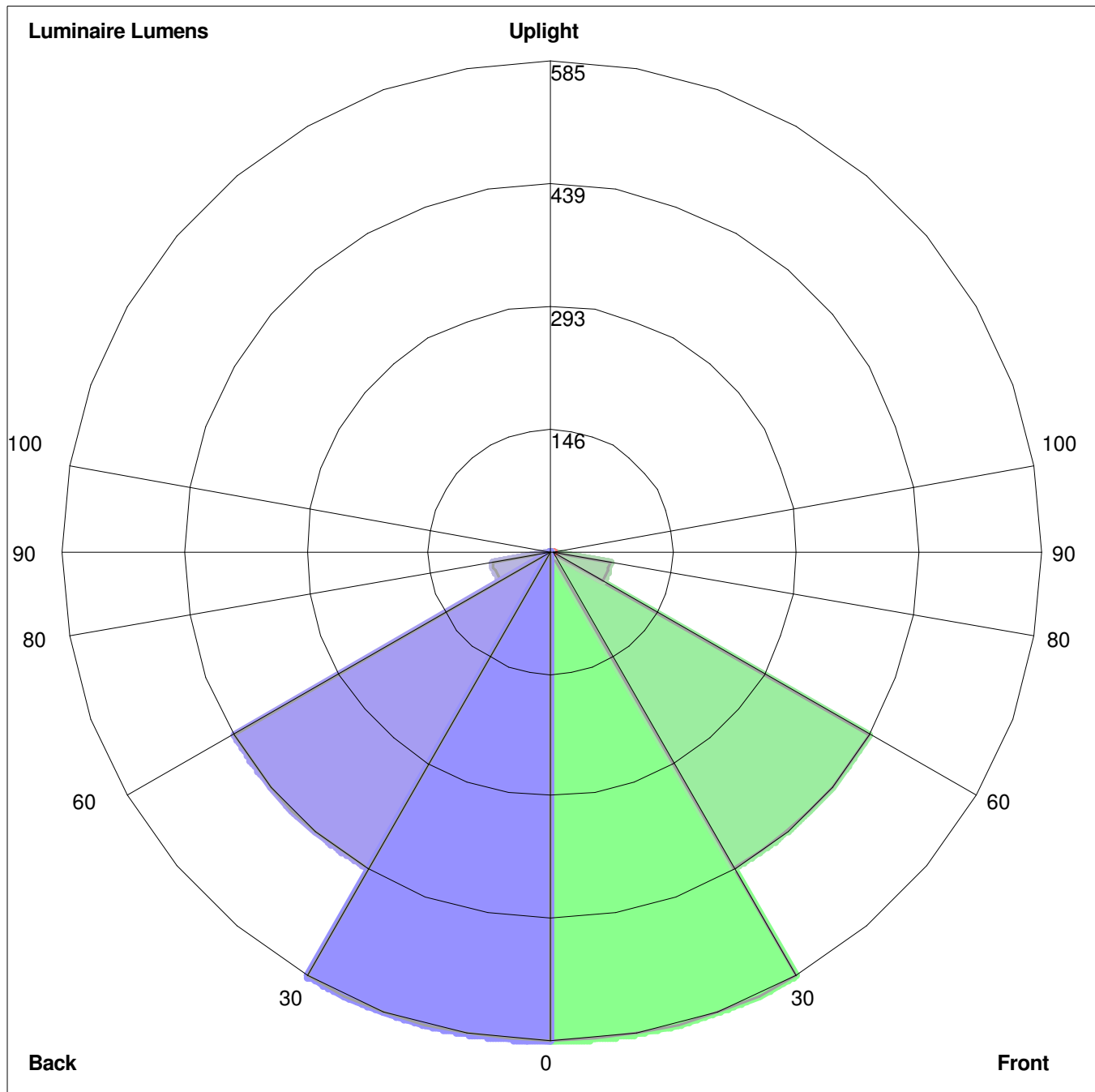


Maximum Candela = 1834.523 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=585.4, Medium=437.0, High=70.8, Very High=2.0  
Back: Low=585.4, Medium=437.0, High=70.8, Very High=2.0  
Uplight: Low=0.6, High=0.0

BUG Rating : B2-U1-G0