

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L40-850-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-L40-850-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	4005
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	36.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3353.48
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3353.48
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	1.115 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	19.593 (0.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L40-850-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1070.1	N.A.	26.7
FM - Front-Medium (30-60)	798.7	N.A.	19.9
FH - Front-High (60-80)	129.4	N.A.	3.2
FVH - Front-Very High (80-90)	3.7	N.A.	0.1
BL - Back-Low (0-30)	1070.1	N.A.	26.7
BM - Back-Medium (30-60)	798.7	N.A.	19.9
BH - Back-High (60-80)	129.4	N.A.	3.2
BVH - Back-Very High (80-90)	3.7	N.A.	0.1
UL - Uplight-Low (90-100)	1.1	N.A.	0.0
UH - Uplight-High (100-180)	0.1	N.A.	0.0
Total	4005.0	N.A.	100.0
BUG Rating	B3-U1-G0		

# IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L40-850-XXX-DIM-UNV-W-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	3353.480	3353.480	3353.480	3353.480	3353.480
1	3351.600	3352.688	3352.030	3350.392	3351.063
2	3349.505	3349.250	3347.907	3345.678	3345.222
3	3344.174	3344.214	3342.160	3339.487	3336.345
4	3334.921	3336.049	3333.646	3329.053	3326.918
5	3318.927	3319.679	3317.101	3312.293	3311.206
6	3298.085	3297.078	3291.666	3286.483	3286.214
7	3266.635	3264.620	3256.361	3252.480	3250.412
8	3222.278	3221.741	3214.006	3210.770	3207.708
9	3169.972	3170.066	3164.627	3160.706	3158.557
10	3112.012	3112.737	3107.379	3105.083	3104.398
11	3047.969	3050.077	3046.143	3045.673	3045.646
12	2981.938	2984.476	2982.059	2983.805	2982.999
13	2917.130	2918.929	2920.326	2921.346	2919.453
14	2851.555	2854.080	2857.760	2859.344	2855.047
15	2786.518	2790.305	2794.321	2796.402	2791.528
16	2722.784	2728.371	2731.365	2734.978	2731.808
17	2662.676	2667.980	2669.216	2675.500	2672.680
18	2602.930	2609.349	2610.799	2617.917	2614.868
19	2549.428	2554.545	2556.828	2562.454	2560.400
20	2500.103	2502.494	2505.327	2510.511	2506.173
21	2454.095	2454.283	2457.399	2462.300	2456.002
22	2412.586	2407.094	2412.828	2415.178	2412.747
23	2373.870	2366.215	2371.990	2372.715	2373.440
24	2335.678	2329.769	2332.885	2332.925	2333.543
25	2299.057	2294.665	2293.027	2293.040	2294.222
26	2260.999	2256.285	2250.900	2251.370	2250.202
27	2216.428	2208.867	2202.045	2200.380	2202.367
28	2156.427	2147.523	2138.082	2136.914	2140.245
29	2077.571	2069.661	2054.460	2054.648	2058.502
30	1972.247	1965.129	1947.242	1949.431	1952.399
31	1840.414	1833.807	1816.899	1820.190	1822.580
32	1686.396	1682.515	1667.676	1674.162	1676.445
33	1517.498	1516.343	1506.580	1514.839	1517.686
34	1345.338	1347.446	1342.612	1352.750	1353.355
35	1185.250	1185.679	1185.975	1197.846	1196.866
36	1042.620	1042.458	1048.421	1060.306	1060.735
37	924.430	924.967	933.253	945.084	943.634
38	831.447	834.711	843.748	852.773	852.007
39	766.021	770.345	777.315	784.593	784.352
40	721.329	724.847	729.722	734.140	734.624
41	690.711	692.255	695.693	698.271	698.298
42	667.304	667.854	670.151	671.588	670.473
43	647.617	647.603	649.121	649.618	648.020
44	629.004	629.004	629.716	629.702	628.145
45	610.297	610.418	610.888	610.768	609.169
46	591.201	591.457	591.604	591.510	590.221
47	571.125	571.501	571.702	571.662	570.480
48	550.847	551.142	551.290	551.250	550.270
49	530.113	530.435	530.623	530.395	529.280
50	509.123	509.123	509.284	509.203	508.129
51	487.878	487.878	487.959	487.865	486.951
52	466.405	466.620	466.606	466.499	465.505

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L40-850-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	445.375	445.483	445.375	445.295	444.032
54	424.439	424.305	424.197	423.848	422.532
55	403.275	402.886	402.765	402.147	400.871
56	380.808	380.499	380.365	379.640	378.445
57	358.113	357.791	357.670	356.770	355.535
58	335.915	335.472	335.163	334.290	333.121
59	313.878	313.528	313.032	312.293	311.219
60	292.431	292.015	291.693	290.833	289.934
61	271.442	271.119	270.824	270.139	269.280
62	251.325	250.989	250.613	250.063	249.244
63	231.745	231.517	231.114	230.644	229.865
64	212.797	212.596	212.327	211.817	211.293
65	195.057	194.668	194.520	194.131	193.768
66	177.452	177.519	177.062	176.982	176.498
67	160.719	160.880	160.625	160.464	160.061
68	145.021	145.021	144.927	144.779	144.591
69	129.926	129.980	129.832	129.792	129.711
70	115.678	115.812	115.678	115.678	115.665
71	102.330	102.424	102.289	102.356	102.370
72	89.787	89.934	89.800	89.881	89.988
73	78.077	78.171	78.117	78.224	78.265
74	67.266	67.320	67.333	67.481	67.427
75	57.248	57.329	57.369	57.490	57.409
76	47.995	48.022	48.116	48.251	48.197
77	39.575	39.616	39.763	39.857	39.817
78	31.975	31.948	32.176	32.203	32.189
79	25.153	25.180	25.394	25.488	25.421
80	19.271	19.257	19.472	19.593	19.539
81	14.127	14.195	14.383	14.503	14.436
82	9.561	9.656	9.790	9.803	9.870
83	6.607	6.634	6.889	7.037	7.211
84	6.124	6.137	6.124	6.124	6.097
85	5.680	5.694	5.680	5.667	5.640
86	5.090	5.090	5.076	5.076	5.036
87	4.284	4.297	4.270	4.270	4.244
88	3.277	3.250	3.250	3.250	3.223
89	2.001	2.001	2.001	1.988	1.961
90	0.873	0.873	0.980	1.074	1.115
91	0.765	0.765	0.765	0.765	0.752
92	0.779	0.792	0.792	0.792	0.792
93	0.833	0.846	0.846	0.846	0.846
94	0.873	0.886	0.900	0.900	0.886
95	0.940	0.940	0.953	0.940	0.940
96	0.994	1.007	1.007	1.007	0.994
97	1.061	1.074	1.074	1.061	1.061
98	1.128	1.128	1.128	1.128	1.115
99	1.195	1.195	1.195	1.209	1.195
100	1.249	1.262	1.249	1.276	1.249
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-L40-850-XXX-DIM-UNV-W-XXX\_.IES

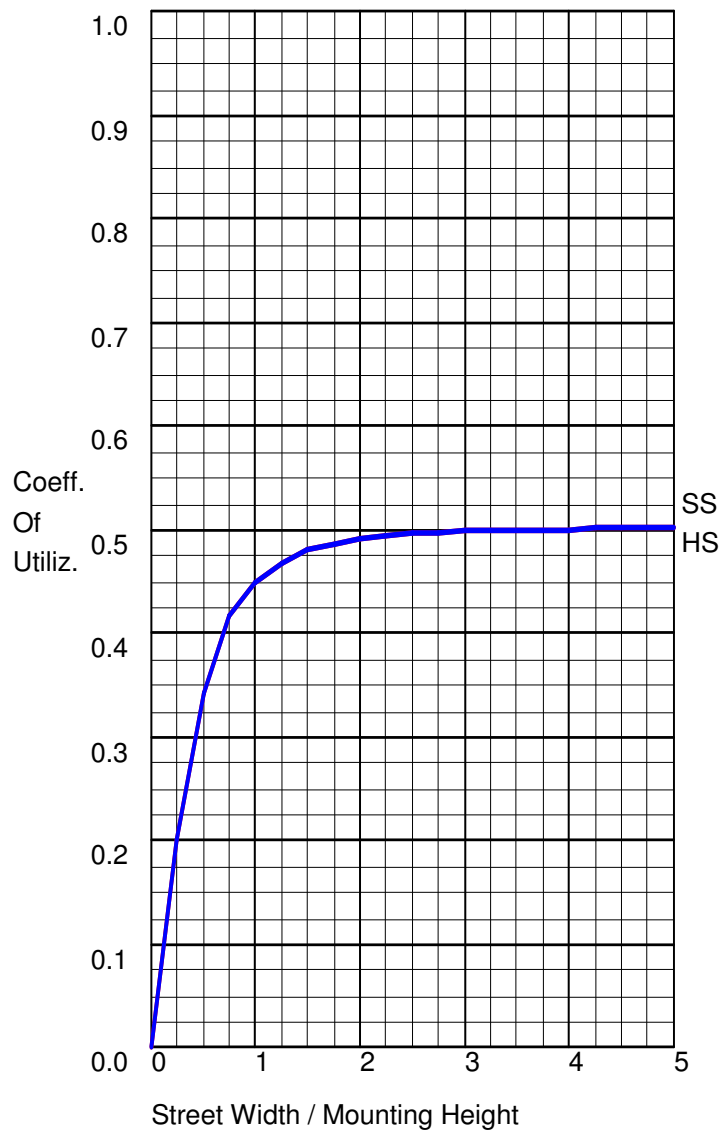
CANDELA TABULATION - (Cont.)

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-L40-850-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

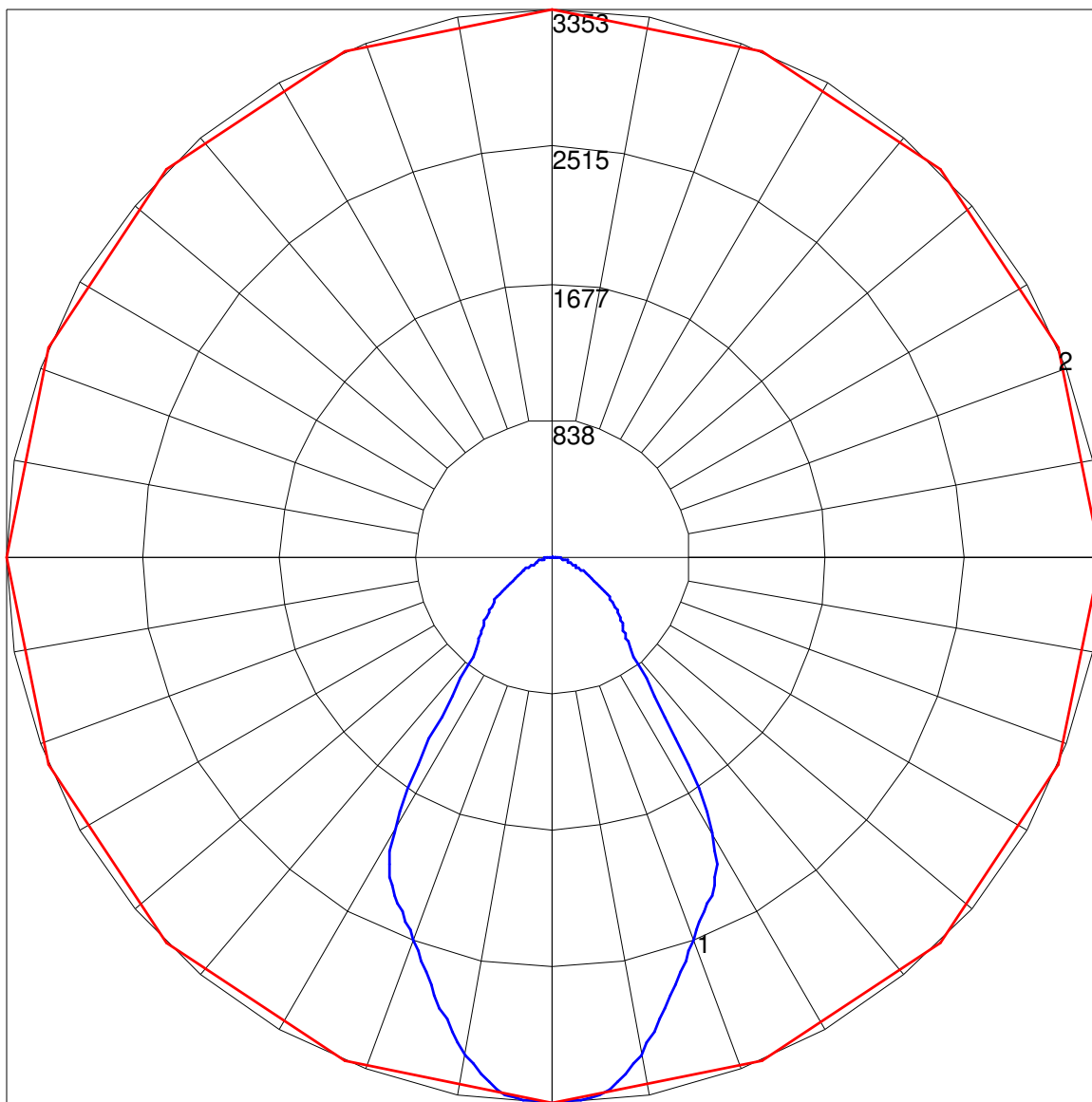
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

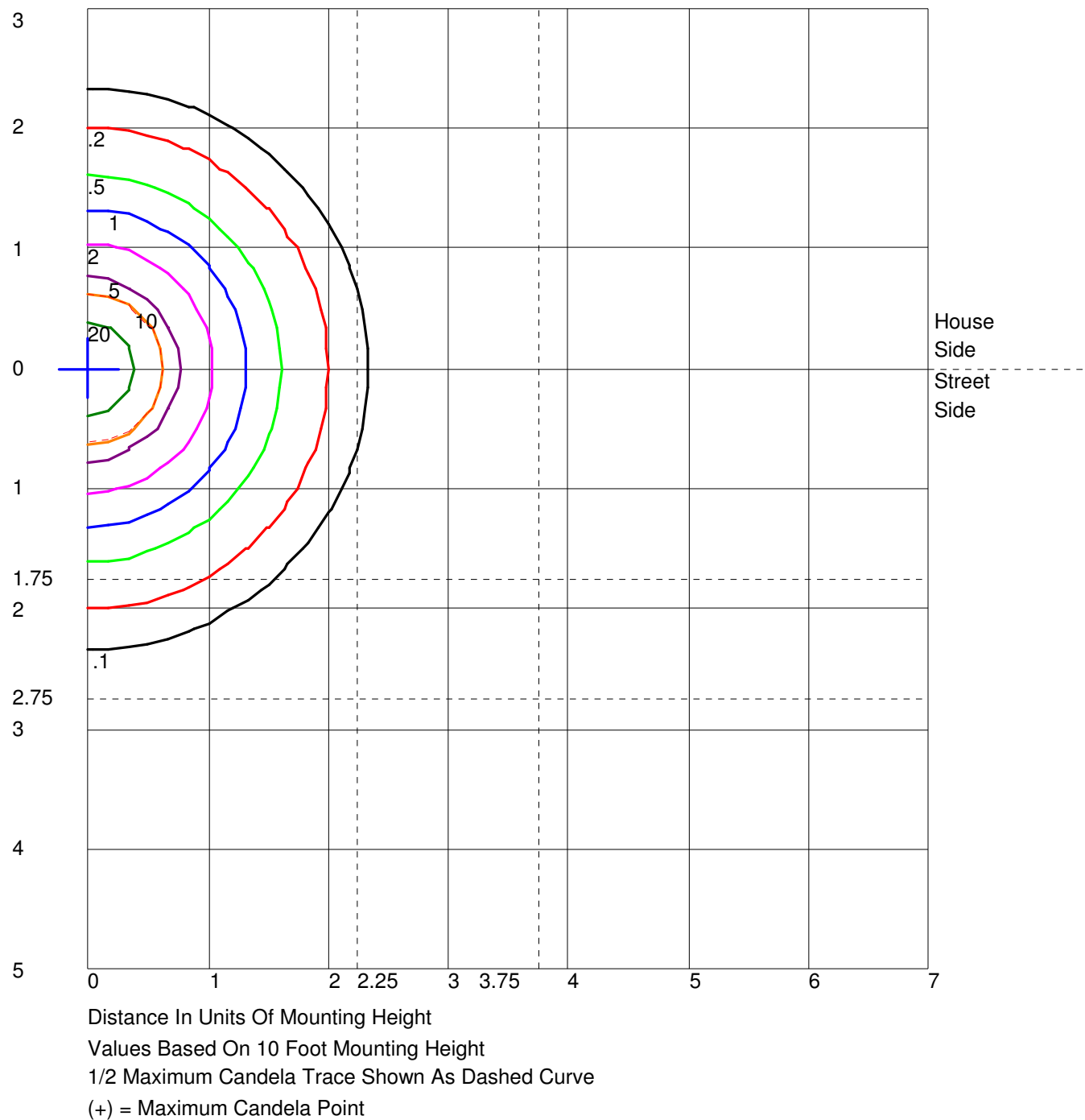
	Lumens	Percent Of Luminaire
Downward Street Side	2001.9	50.0
Downward House Side	2001.9	50.0
Downward Total	4003.8	100.0
Upward Street Side	0.6	0.0
Upward House Side	0.6	0.0
Upward Total	1.2	0.0
Total Flux	4005.0	100.0

POLAR GRAPH

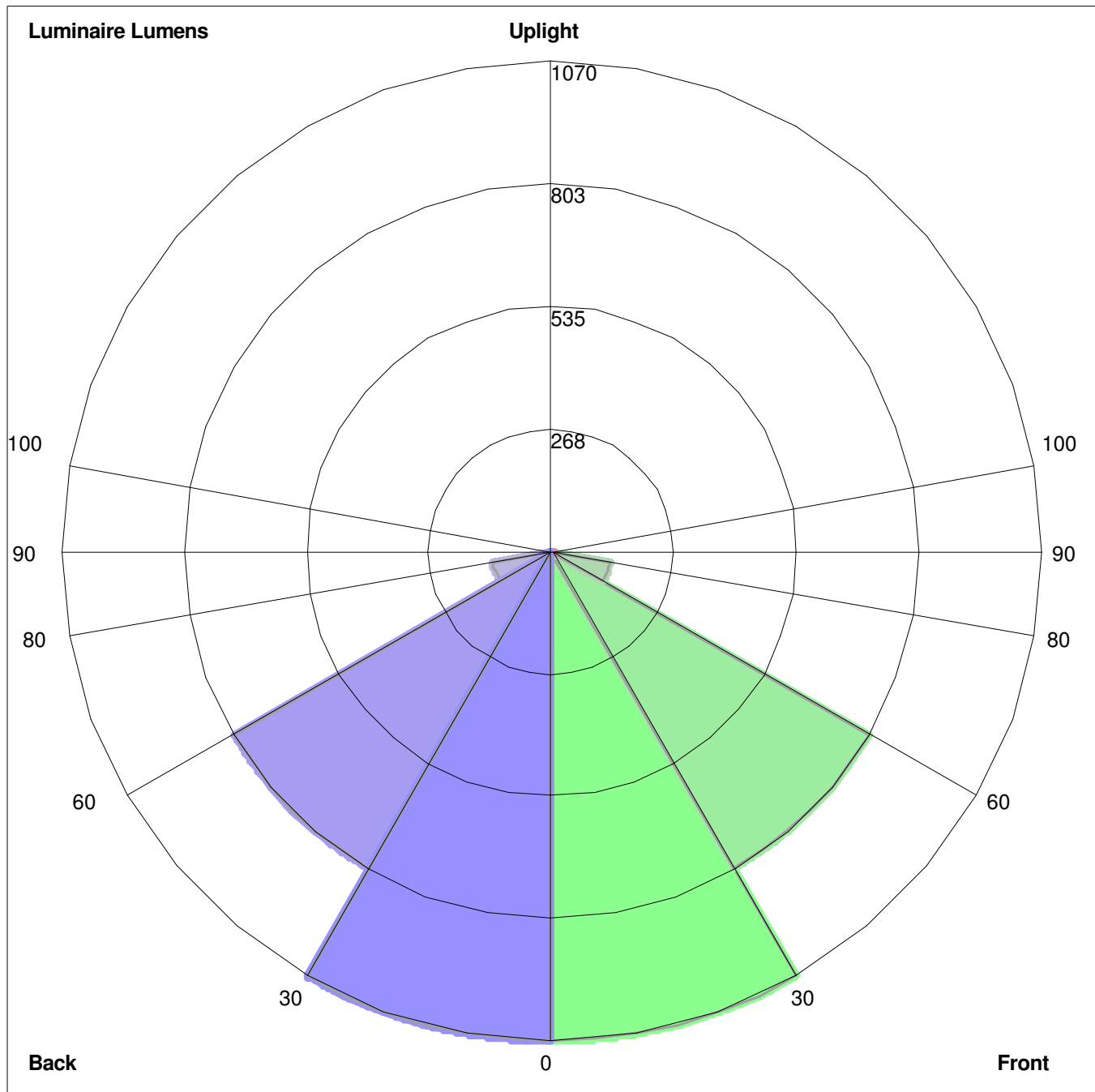


Maximum Candela = 3353.48 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1070.1, Medium=798.7, High=129.4, Very High=3.7  
Back: Low=1070.1, Medium=798.7, High=129.4, Very High=3.7  
Uplight: Low=1.1, High=0.1

BUG Rating : B3-U1-G0