

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-940-RDB-XXX-DIM-UNV-W-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-XW\_(V22)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L70-940-RDB-xxx-DIM-UNV-W-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH WIDE DIST.  
[LAMPCAT] BL VERO 22  
[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	6810
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	63.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5504.633
Maximum Candela Angle	90H 5V
Maximum Candela (<90 Degrees Vertical)	5504.633
Maximum Candela Angle (<90 Degrees Vertical)	90H 5V
Maximum Candela At 90 Degrees Vertical	1.885 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	35.051 (0.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L70-940-RDB-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1786.9	N.A.	26.2
FM - Front-Medium (30-60)	1382.9	N.A.	20.3
FH - Front-High (60-80)	227.7	N.A.	3.3
FVH - Front-Very High (80-90)	6.4	N.A.	0.1
BL - Back-Low (0-30)	1786.9	N.A.	26.2
BM - Back-Medium (30-60)	1382.9	N.A.	20.3
BH - Back-High (60-80)	227.7	N.A.	3.3
BVH - Back-Very High (80-90)	6.4	N.A.	0.1
UL - Uplight-Low (90-100)	1.8	N.A.	0.0
UH - Uplight-High (100-180)	0.1	N.A.	0.0
Total	6809.7	N.A.	100.0
BUG Rating	B3-U1-G0		

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## CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	0.0	22.5	45.0	67.5	90.0
0	5456.792	5456.792	5456.792	5456.792	5456.792
1	5461.994	5463.130	5470.331	5469.854	5467.310
2	5446.570	5452.840	5468.855	5475.806	5472.876
3	5423.036	5435.007	5469.786	5488.118	5487.414
4	5392.141	5413.563	5469.173	5503.134	5503.020
5	5350.639	5385.372	5460.427	5504.247	5504.633
6	5305.319	5347.549	5437.574	5487.210	5485.983
7	5251.050	5300.413	5396.049	5447.365	5443.526
8	5191.510	5242.372	5338.962	5390.370	5380.624
9	5123.339	5175.177	5268.587	5317.473	5306.046
10	5049.556	5101.962	5186.263	5232.059	5222.268
11	4973.161	5020.138	5090.854	5132.925	5125.587
12	4893.267	4931.567	4991.902	5025.476	5015.254
13	4813.260	4838.725	4890.541	4918.800	4898.333
14	4725.984	4746.338	4787.999	4808.194	4782.093
15	4636.322	4653.382	4685.594	4699.110	4674.190
16	4543.798	4557.928	4584.347	4591.775	4570.922
17	4449.116	4465.654	4487.053	4483.850	4471.038
18	4362.635	4375.197	4394.756	4384.466	4376.333
19	4277.517	4285.218	4301.006	4288.284	4280.561
20	4198.032	4203.393	4212.275	4204.393	4186.629
21	4121.773	4122.432	4127.657	4123.182	4102.396
22	4051.943	4043.947	4047.491	4044.379	4030.999
23	3984.839	3971.709	3975.753	3970.210	3961.350
24	3920.915	3908.376	3911.533	3898.699	3891.702
25	3860.899	3846.065	3844.929	3828.755	3817.101
26	3795.066	3783.186	3773.577	3753.927	3738.298
27	3720.829	3705.405	3688.504	3666.696	3648.455
28	3626.079	3608.292	3581.442	3552.387	3543.142
29	3503.161	3482.035	3445.825	3410.387	3402.686
30	3343.147	3316.591	3277.360	3236.380	3224.681
31	3142.084	3113.916	3072.549	3031.955	3017.099
32	2905.879	2881.732	2846.476	2810.743	2802.474
33	2641.120	2624.628	2603.388	2580.104	2587.804
34	2365.934	2358.619	2356.188	2352.508	2370.159
35	2099.380	2099.470	2113.055	2129.751	2153.422
36	1857.064	1862.857	1889.866	1918.103	1943.931
37	1644.802	1655.502	1689.508	1723.446	1748.639
38	1471.544	1485.651	1520.703	1553.755	1574.927
39	1341.879	1357.122	1387.948	1414.867	1432.063
40	1248.742	1261.395	1285.474	1304.443	1318.777
41	1183.387	1192.860	1209.511	1221.074	1231.455
42	1137.455	1142.066	1152.902	1159.421	1164.691
43	1100.881	1102.539	1109.332	1112.035	1112.126
44	1068.238	1068.647	1072.463	1072.395	1069.873
45	1038.002	1037.457	1039.274	1037.525	1034.617
46	1007.267	1006.540	1007.608	1004.950	1001.520
47	975.578	974.851	974.919	972.420	968.967
48	943.161	942.253	941.844	939.209	935.779
49	909.609	908.292	908.542	905.384	902.113
50	874.717	873.695	873.786	870.855	867.629
51	839.416	838.780	838.666	835.781	832.987
52	803.728	803.342	803.297	800.616	797.754

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L70-940-RDB-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	768.631	767.995	767.973	765.519	762.543
54	733.603	732.830	732.490	729.718	726.674
55	698.029	696.711	696.552	693.258	690.419
56	659.775	658.911	658.661	655.345	652.551
57	621.861	620.521	620.066	616.750	614.001
58	584.129	582.675	582.062	578.813	576.633
59	546.533	545.170	544.489	541.263	539.196
60	510.028	508.574	508.006	504.826	502.827
61	474.295	472.819	472.592	469.434	467.776
62	439.903	438.403	438.063	435.291	433.701
63	406.237	405.010	404.647	402.216	400.717
64	373.503	372.594	372.344	370.163	368.914
65	342.540	341.700	341.632	339.678	338.906
66	312.237	311.850	311.873	309.988	309.284
67	283.750	283.410	283.160	281.638	281.161
68	256.422	256.014	255.968	254.673	254.378
69	230.049	229.776	229.799	228.709	228.754
70	205.311	205.174	204.993	204.198	204.266
71	181.845	181.822	181.527	181.050	181.140
72	159.901	159.923	159.787	159.265	159.696
73	139.320	139.297	139.251	138.843	139.229
74	120.261	120.170	120.261	120.011	120.329
75	102.587	102.564	102.655	102.519	102.723
76	86.163	86.118	86.277	86.163	86.390
77	71.148	71.125	71.443	71.261	71.511
78	57.450	57.404	57.790	57.722	57.972
79	45.228	45.183	45.546	45.705	45.796
80	34.393	34.438	34.824	34.983	35.051
81	24.943	25.033	25.329	25.601	25.670
82	16.447	16.583	16.924	17.174	17.355
83	11.267	11.381	11.949	12.267	12.403
84	10.450	10.450	10.472	10.495	10.404
85	9.677	9.677	9.677	9.677	9.586
86	8.678	8.678	8.655	8.632	8.564
87	7.292	7.315	7.292	7.292	7.201
88	5.566	5.543	5.520	5.520	5.452
89	3.385	3.385	3.362	3.385	3.317
90	1.363	1.477	1.749	1.885	1.885
91	1.227	1.249	1.249	1.272	1.227
92	1.318	1.318	1.318	1.318	1.295
93	1.386	1.386	1.408	1.386	1.363
94	1.477	1.477	1.477	1.477	1.477
95	1.567	1.567	1.590	1.590	1.567
96	1.658	1.681	1.681	1.681	1.658
97	1.772	1.772	1.795	1.795	1.772
98	1.908	1.885	1.885	1.908	1.908
99	2.067	2.022	2.022	2.044	1.999
100	2.113	2.135	2.135	2.158	2.113
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

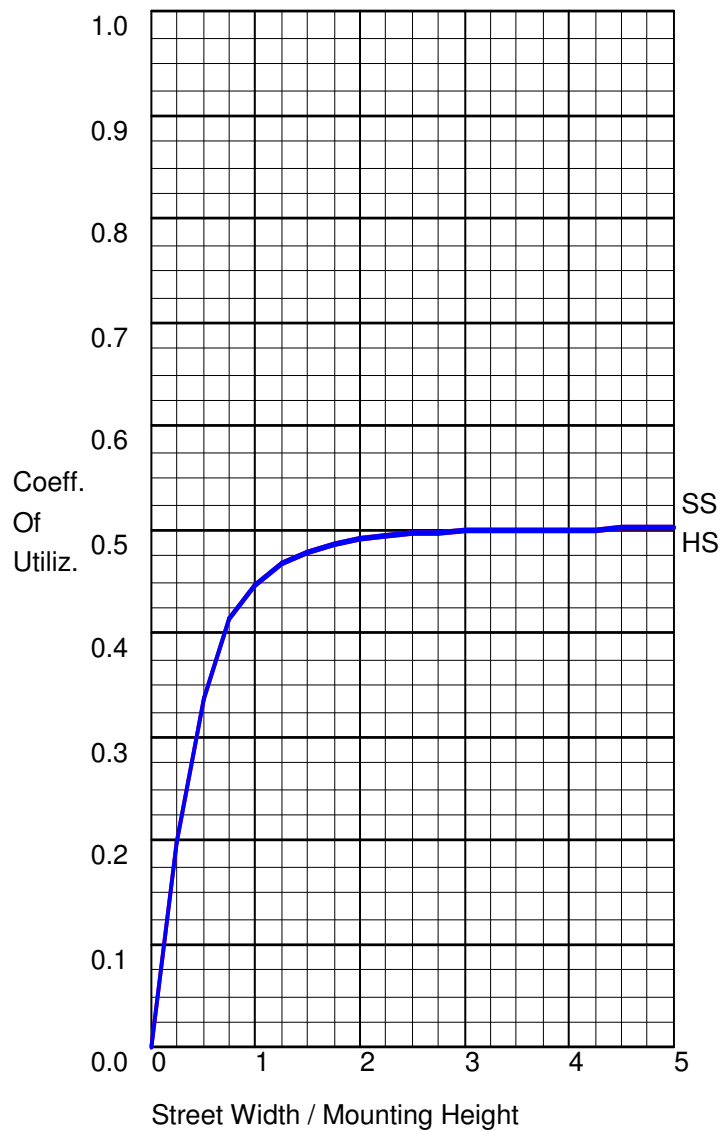
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L70-940-RDB-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L70-940-RDB-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

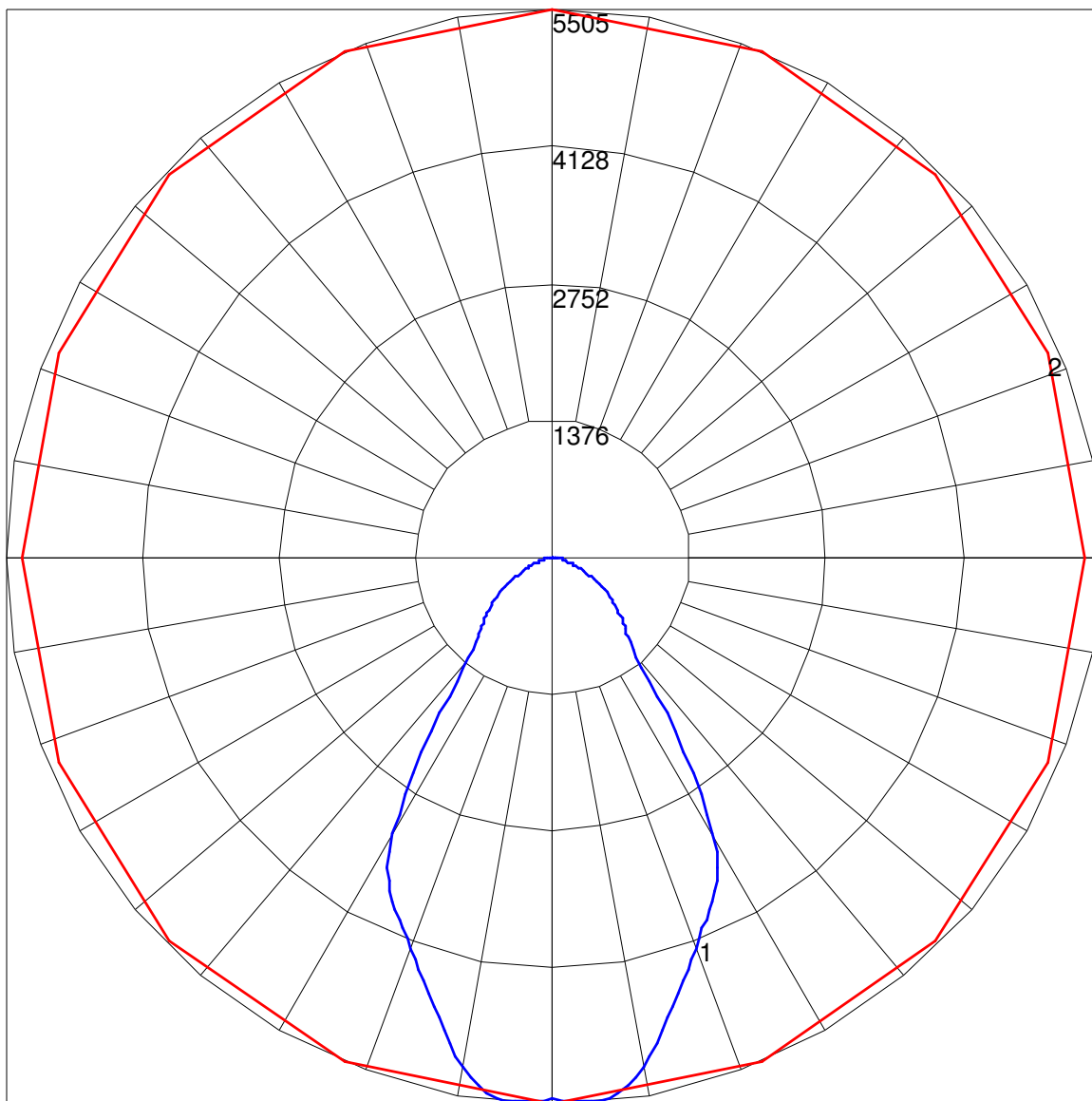
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3403.8	50.0
Downward House Side	3403.8	50.0
Downward Total	6807.6	100.0
Upward Street Side	0.9	0.0
Upward House Side	0.9	0.0
Upward Total	1.8	0.0
Total Flux	6809.4	100.0

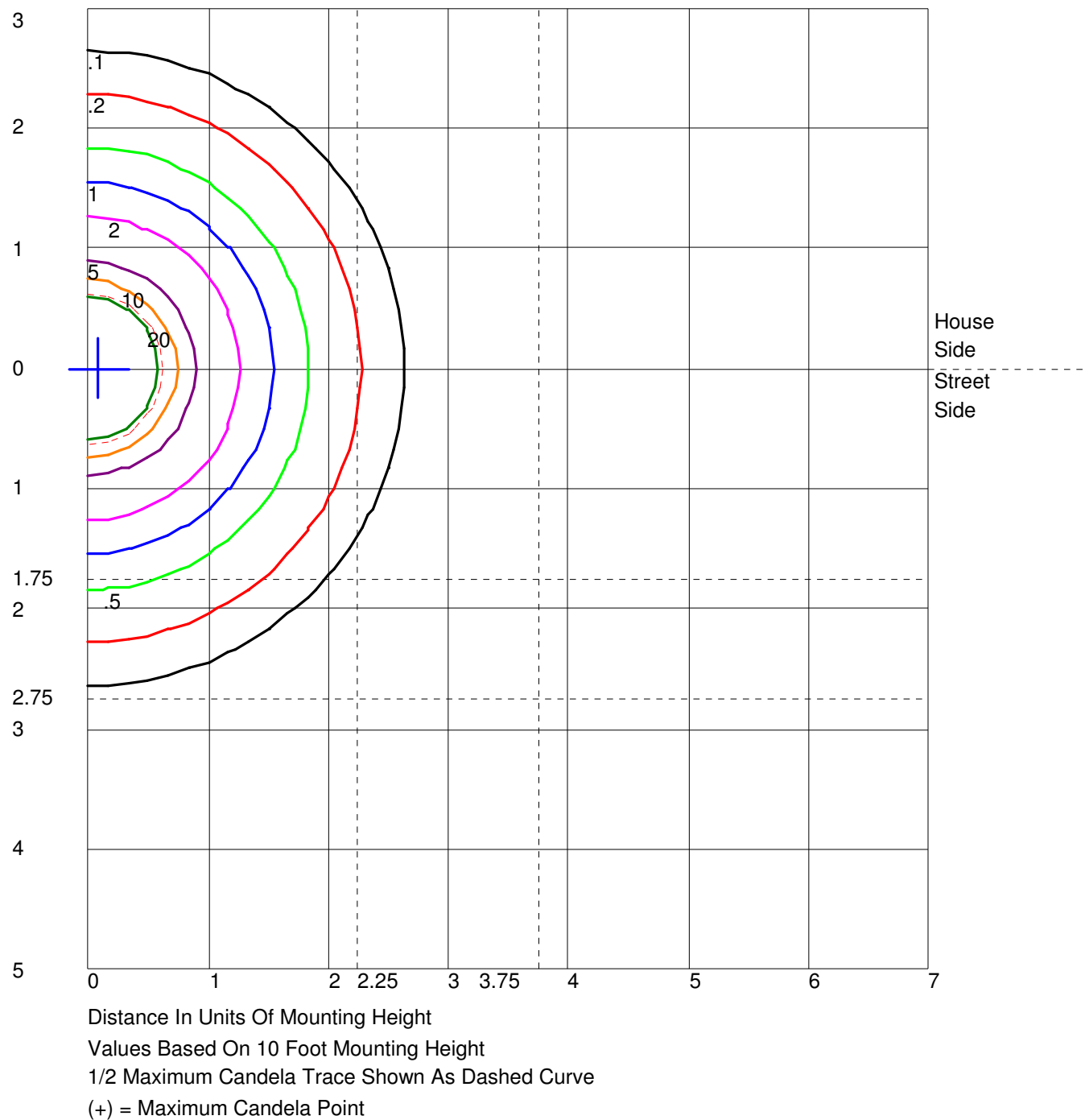
POLAR GRAPH



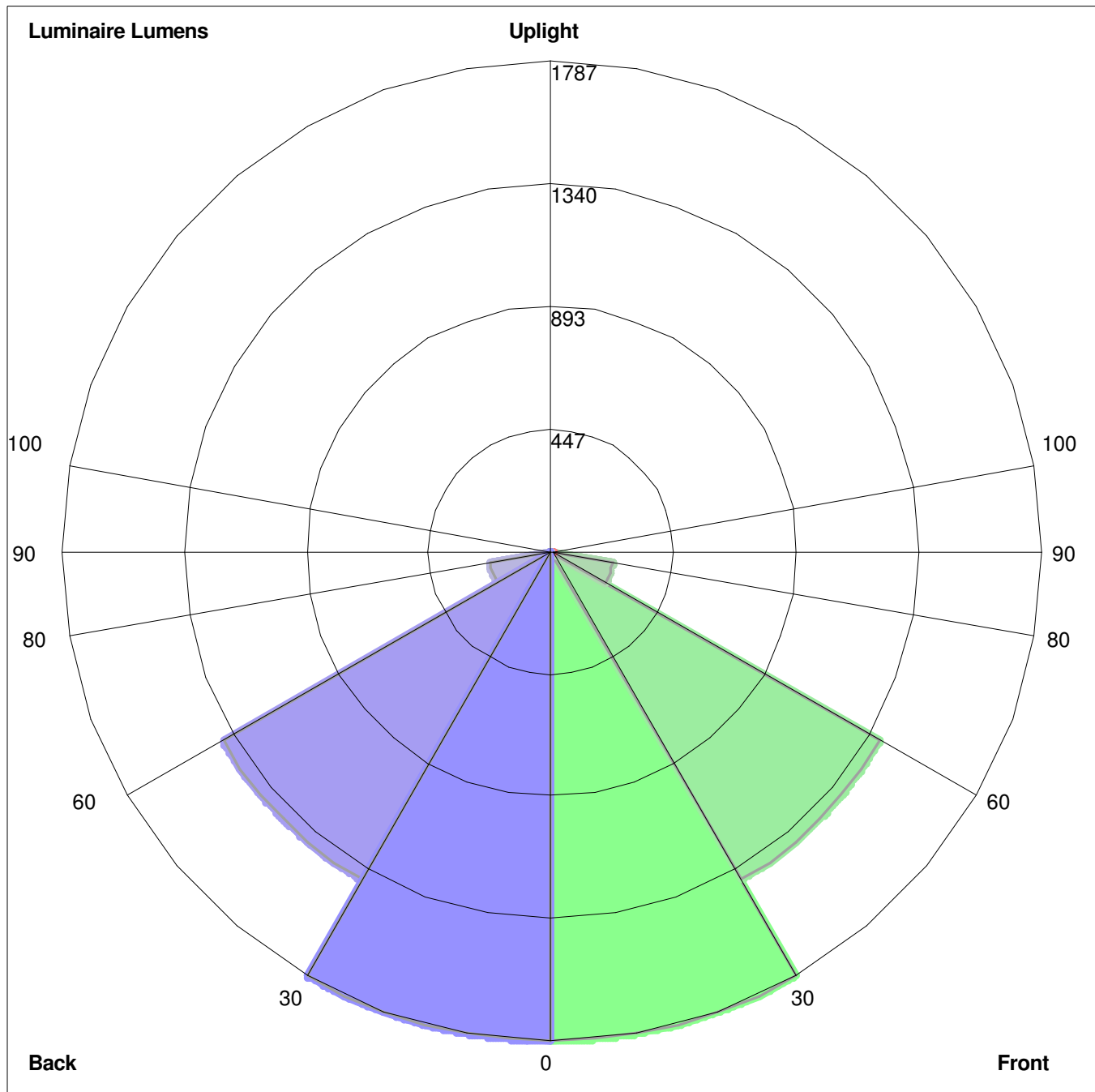
Maximum Candela = 5504.633 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1786.9, Medium=1382.9, High=227.7, Very High=6.4  
Back: Low=1786.9, Medium=1382.9, High=227.7, Very High=6.4  
Uplight: Low=1.8, High=0.1

BUG Rating : B3-U1-G0