

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-M-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-W\_(V22)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L50-840-xxx-DIM-UNV-M-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH MEDIUM 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	4713
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	45
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9474.915
Maximum Candela Angle	90H 6V
Maximum Candela (<90 Degrees Vertical)	9474.915
Maximum Candela Angle (<90 Degrees Vertical)	90H 6V
Maximum Candela At 90 Degrees Vertical	.364 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	7.873 (0.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1949.5	N.A.	41.4
FM - Front-Medium (30-60)	380.7	N.A.	8.1
FH - Front-High (60-80)	25.2	N.A.	0.5
FVH - Front-Very High (80-90)	1.2	N.A.	0.0
BL - Back-Low (0-30)	1949.5	N.A.	41.4
BM - Back-Medium (30-60)	380.7	N.A.	8.1
BH - Back-High (60-80)	25.2	N.A.	0.5
BVH - Back-Very High (80-90)	1.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.4	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	4713.6	N.A.	100.0
BUG Rating	B3-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	8917.301	8917.301	8917.301	8917.301	8917.301
1	8913.040	8921.990	8938.781	8956.713	8962.147
2	8869.303	8895.425	8963.556	9027.997	9050.063
3	8800.395	8858.927	9007.800	9137.838	9181.970
4	8703.354	8806.795	9052.677	9252.557	9326.518
5	8591.217	8741.737	9077.072	9334.676	9435.804
6	8459.120	8652.347	9062.451	9353.590	9474.915
7	8306.841	8528.693	8987.064	9297.878	9421.548
8	8131.546	8369.920	8847.189	9155.373	9266.624
9	7931.888	8168.218	8636.664	8927.883	9029.803
10	7698.552	7930.795	8366.340	8627.223	8725.500
11	7435.863	7653.025	8037.642	8257.751	8346.459
12	7148.969	7334.481	7663.686	7843.385	7916.760
13	6835.510	6984.224	7261.265	7404.340	7456.329
14	6489.149	6610.348	6840.405	6944.796	6979.963
15	6116.588	6219.633	6402.262	6471.740	6497.972
16	5729.769	5815.849	5956.104	5998.890	6019.546
17	5341.890	5406.806	5514.571	5535.846	5557.548
18	4952.490	5008.313	5091.382	5094.994	5109.457
19	4577.932	4618.184	4684.779	4676.146	4682.688
20	4220.214	4250.581	4298.689	4285.446	4284.908
21	3884.150	3903.539	3939.814	3926.936	3922.516
22	3581.510	3587.165	3615.584	3601.929	3601.612
23	3313.102	3310.172	3330.179	3314.227	3319.042
24	3074.539	3068.472	3082.966	3058.872	3069.739
25	2864.489	2855.269	2861.115	2836.466	2846.763
26	2674.905	2665.226	2661.393	2638.519	2637.109
27	2499.151	2484.767	2474.930	2453.181	2449.965
28	2326.343	2311.626	2290.938	2268.096	2271.961
29	2148.529	2134.763	2111.382	2084.975	2086.797
30	1969.876	1945.116	1921.371	1892.493	1896.532
31	1769.235	1748.024	1720.144	1694.656	1688.716
32	1555.241	1536.992	1514.150	1493.160	1485.636
33	1331.631	1318.943	1306.777	1294.183	1294.152
34	1109.653	1102.572	1102.208	1105.534	1113.978
35	897.924	897.433	908.046	926.659	941.470
36	711.540	712.950	734.462	760.235	775.553
37	548.633	559.864	581.091	613.406	621.089
38	427.735	431.648	457.611	479.630	486.315
39	322.552	331.961	358.384	378.803	386.866
40	254.594	262.784	280.542	294.719	299.551
41	209.496	217.416	227.934	238.342	244.409
42	179.018	184.134	190.772	198.819	199.658
43	157.759	159.834	165.062	168.499	169.260
44	142.029	143.217	146.370	147.827	147.779
45	129.452	130.307	132.335	132.699	132.667
46	118.807	119.630	121.024	121.088	121.214
47	109.239	110.062	111.171	111.266	111.456
48	100.732	101.413	102.395	102.617	102.791
49	93.065	93.556	94.570	94.808	94.966
50	86.048	86.444	87.426	87.790	87.885
51	79.711	80.028	81.026	81.438	81.565
52	74.040	74.341	75.244	75.704	75.767

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-M-XXX\_.IES**

**CANDELA TABULATION - (Cont.)**

53	68.971	69.256	70.128	70.634	70.666
54	64.472	64.742	65.518	65.930	65.946
55	60.370	60.528	61.288	61.621	61.684
56	56.441	56.584	57.281	57.566	57.629
57	52.845	52.988	53.558	53.780	53.875
58	49.693	49.820	50.311	50.453	50.532
59	46.810	46.905	47.317	47.412	47.459
60	44.212	44.244	44.608	44.655	44.687
61	41.836	41.820	42.121	42.137	42.121
62	39.602	39.570	39.824	39.808	39.761
63	37.511	37.479	37.685	37.638	37.575
64	35.547	35.468	35.658	35.579	35.499
65	33.646	33.567	33.709	33.598	33.503
66	31.745	31.698	31.777	31.682	31.571
67	29.939	29.892	29.923	29.813	29.733
68	28.181	28.118	28.149	27.991	27.896
69	26.438	26.359	26.359	26.169	26.090
70	24.680	24.585	24.569	24.411	24.284
71	22.969	22.858	22.811	22.652	22.542
72	21.258	21.116	21.068	20.910	20.799
73	19.516	19.389	19.342	19.183	19.057
74	17.789	17.694	17.631	17.472	17.393
75	16.110	16.031	15.952	15.825	15.762
76	14.447	14.384	14.288	14.193	14.162
77	12.799	12.768	12.704	12.609	12.578
78	11.168	11.120	11.104	11.041	11.041
79	9.520	9.505	9.505	9.489	9.473
80	7.841	7.841	7.857	7.873	7.857
81	5.988	6.004	5.972	5.972	5.940
82	3.453	3.422	3.533	3.533	3.580
83	1.505	1.521	1.774	1.917	2.028
84	1.394	1.394	1.394	1.394	1.378
85	1.283	1.283	1.283	1.267	1.251
86	1.156	1.141	1.141	1.125	1.125
87	0.966	0.966	0.966	0.950	0.950
88	0.760	0.760	0.760	0.760	0.745
89	0.523	0.523	0.523	0.507	0.507
90	0.301	0.333	0.348	0.364	0.348
91	0.301	0.301	0.301	0.301	0.285
92	0.317	0.317	0.317	0.301	0.301
93	0.317	0.317	0.317	0.301	0.301
94	0.317	0.317	0.317	0.317	0.301
95	0.333	0.317	0.333	0.317	0.301
96	0.333	0.333	0.333	0.317	0.333
97	0.348	0.333	0.333	0.317	0.333
98	0.364	0.333	0.348	0.317	0.333
99	0.364	0.333	0.348	0.333	0.333
100	0.364	0.348	0.348	0.333	0.333
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

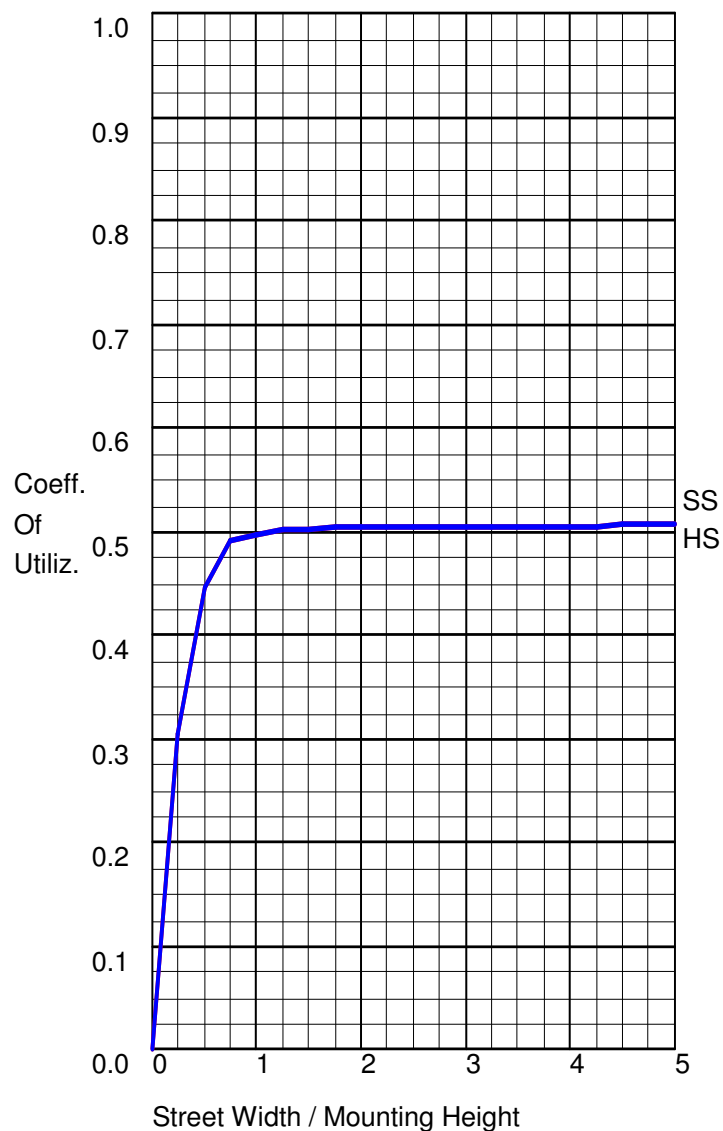
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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 : W6CR-XX-L50-840-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

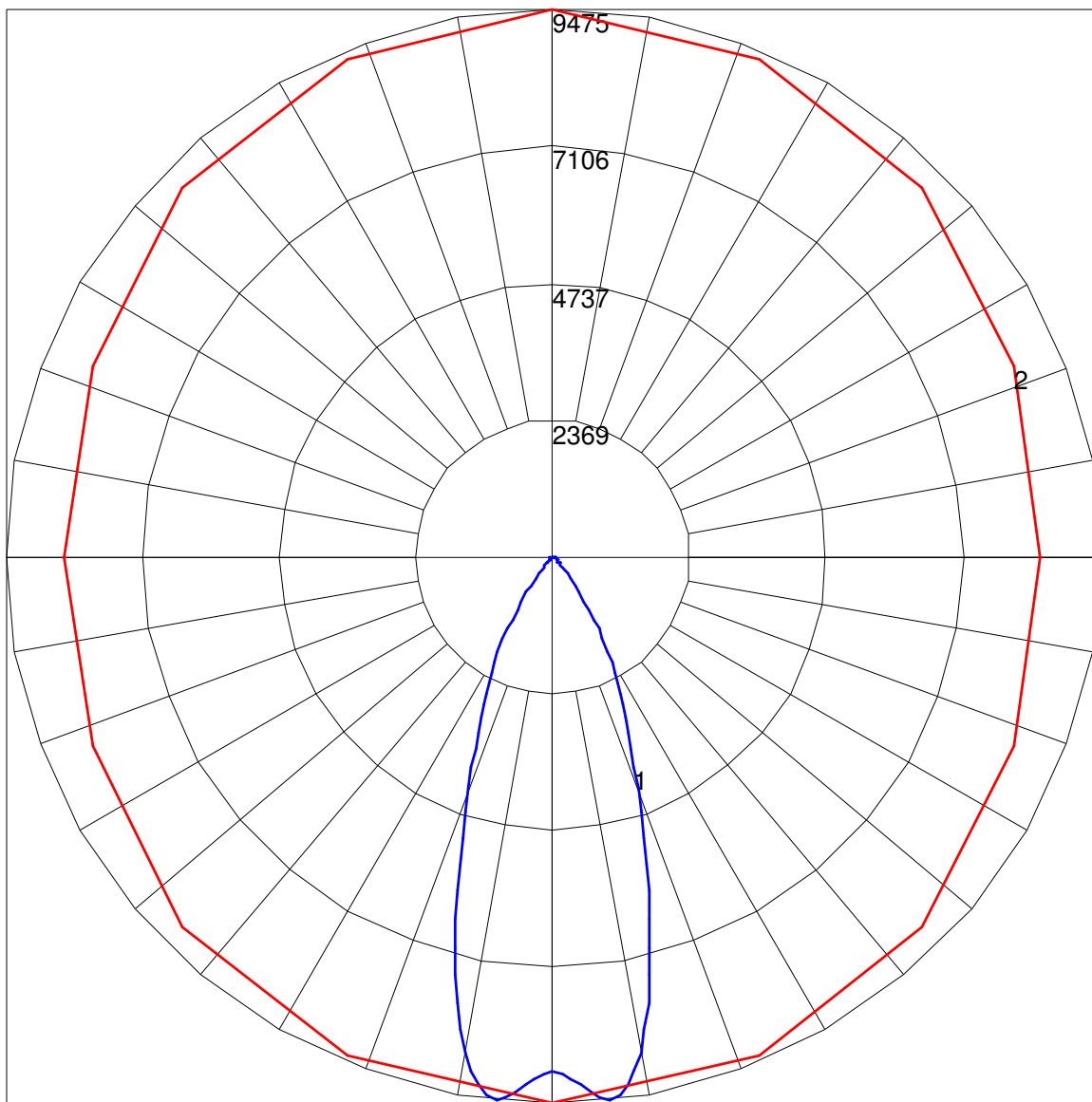
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

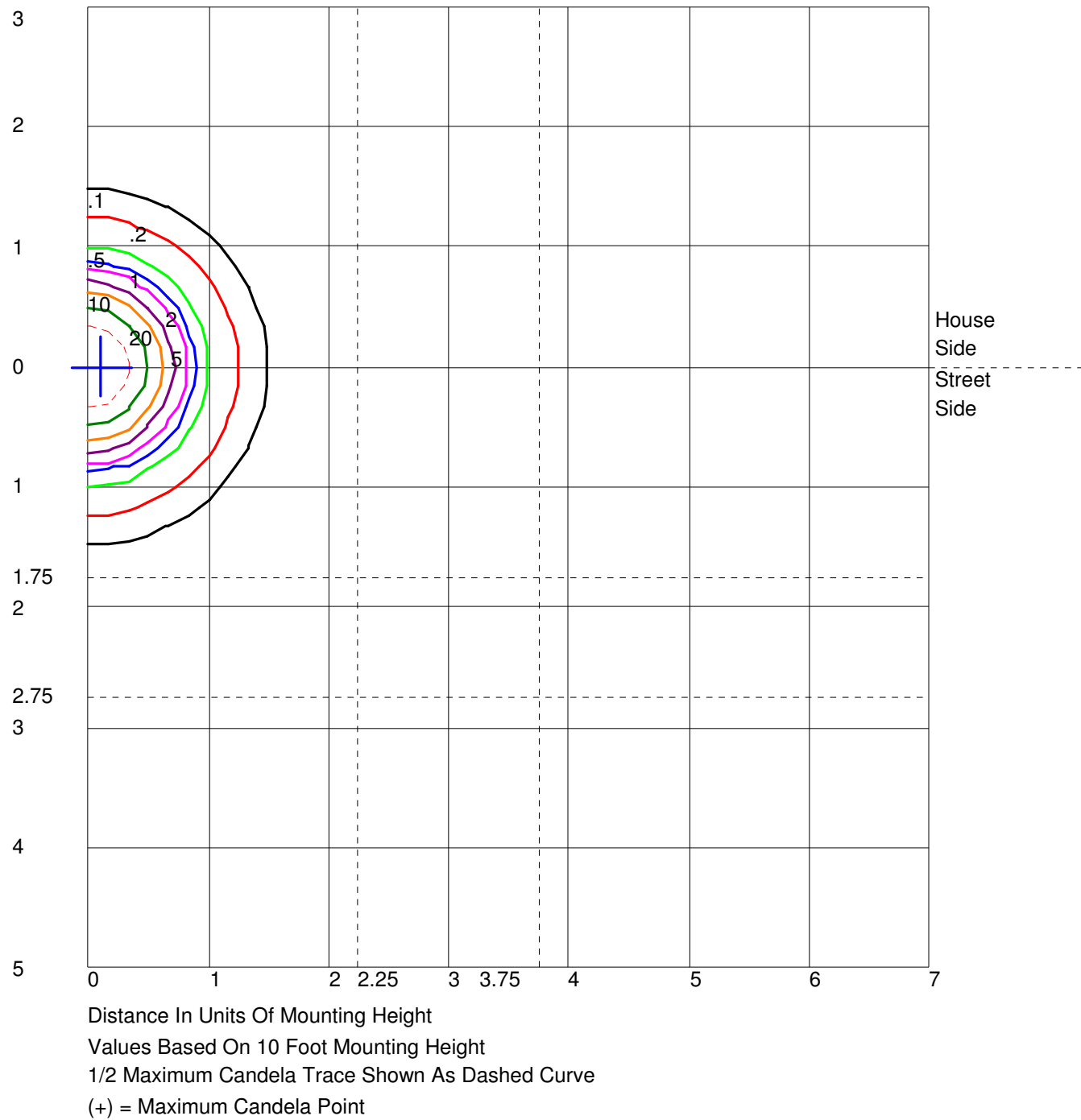
	Lumens	Percent Of Luminaire
Downward Street Side	2356.5	50.0
Downward House Side	2356.5	50.0
Downward Total	4713.0	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	4713.4	100.0

POLAR GRAPH

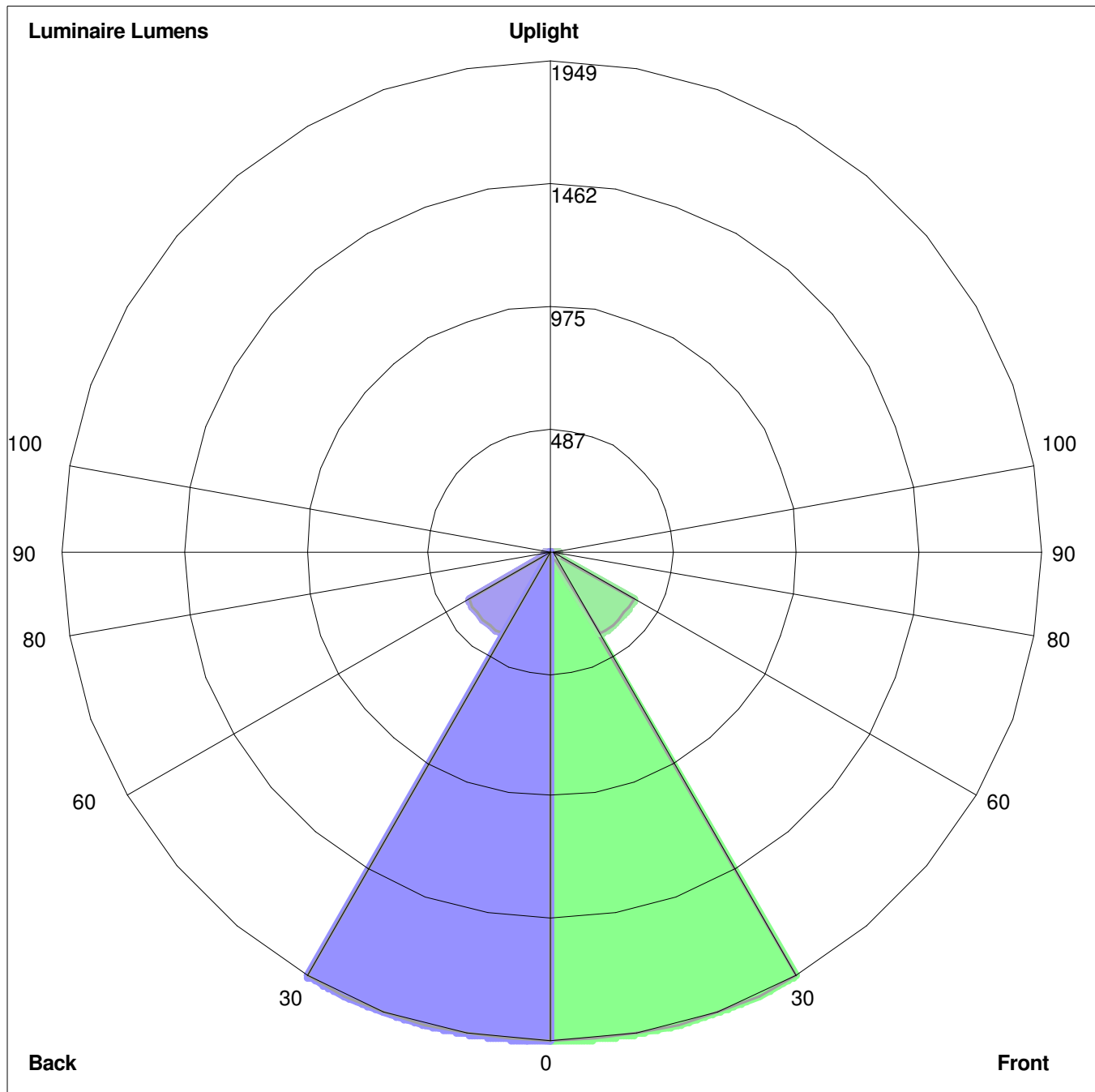


Maximum Candela = 9474.915 Located At Horizontal Angle = 90, Vertical Angle = 6  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1949.5, Medium=380.7, High=25.2, Very High=1.2  
Back: Low=1949.5, Medium=380.7, High=25.2, Very High=1.2  
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0