

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-M-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W4CR\_BARBARA-MEDIUM DIST  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO  
[LUMCAT] W4CR-xx-L15-935-xxx-DIM-UNV-M-xxx  
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER  
[MORE] MEDIUM DISTRIBUTION WITH MICROPRISM LENS  
[MORE] 0-10V LED DRIVER

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1492
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2838.746
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2838.746
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.211 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.992 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	620.5	N.A.	41.6
FM - Front-Medium (30-60)	118.3	N.A.	7.9
FH - Front-High (60-80)	6.7	N.A.	0.4
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	620.5	N.A.	41.6
BM - Back-Medium (30-60)	118.3	N.A.	7.9
BH - Back-High (60-80)	6.7	N.A.	0.4
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1491.8	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	2838.746	2838.746	2838.746	2838.746	2838.746
1	2834.366	2835.038	2833.152	2832.507	2832.761
2	2822.445	2826.419	2823.421	2822.391	2818.867
3	2801.715	2803.905	2800.783	2801.585	2800.431
4	2772.903	2778.850	2773.456	2773.754	2772.643
5	2743.711	2741.212	2737.005	2736.040	2734.321
6	2698.245	2699.551	2694.027	2690.986	2690.569
7	2648.301	2646.615	2643.997	2638.440	2633.903
8	2584.870	2587.683	2580.999	2575.361	2573.919
9	2512.646	2515.123	2511.177	2506.981	2505.046
10	2431.461	2432.588	2430.751	2429.206	2425.281
11	2343.689	2343.397	2342.274	2339.645	2336.523
12	2246.859	2249.153	2242.886	2244.246	2244.810
13	2145.839	2146.002	2139.805	2146.321	2148.067
14	2037.826	2040.428	2038.140	2043.756	2045.800
15	1927.042	1930.126	1929.368	1937.055	1939.028
16	1818.638	1820.145	1820.156	1828.770	1834.739
17	1712.305	1714.029	1714.766	1721.835	1729.143
18	1603.468	1608.498	1609.572	1616.706	1626.323
19	1504.209	1505.835	1510.508	1517.480	1524.619
20	1405.558	1411.125	1414.643	1421.468	1430.597
21	1314.246	1318.198	1323.495	1329.799	1338.175
22	1227.971	1232.649	1236.238	1244.288	1251.823
23	1146.325	1149.047	1153.167	1161.824	1169.880
24	1069.661	1070.914	1076.080	1084.211	1089.134
25	995.394	997.036	1002.848	1010.453	1014.053
26	922.834	926.867	932.071	938.874	941.758
27	851.591	854.280	863.024	869.675	869.334
28	780.115	783.091	793.109	797.289	797.115
29	707.945	715.003	720.169	724.506	724.604
30	634.295	639.760	646.005	650.130	649.040
31	560.098	563.849	568.810	572.328	571.591
32	486.286	489.717	493.479	496.304	495.729
33	412.544	415.720	418.935	421.196	422.432
34	341.675	345.811	347.698	350.262	351.823
35	277.051	280.840	281.946	283.594	286.218
36	225.926	223.573	224.917	225.568	229.054
37	176.763	174.128	175.272	174.258	179.370
38	132.381	134.473	133.194	134.246	138.398
39	101.698	103.698	102.229	105.715	111.488
40	78.035	79.206	80.366	81.255	84.671
41	63.025	62.027	63.269	65.442	68.467
42	49.613	50.426	52.654	54.736	56.839
43	41.704	42.560	44.203	46.241	48.366
44	36.489	37.172	38.619	40.500	42.154
45	32.808	33.372	34.705	36.191	37.486
46	30.222	30.715	31.865	33.019	33.995
47	28.341	28.786	29.729	30.634	31.442
48	26.910	27.311	28.092	28.829	29.512
49	25.804	26.135	26.780	27.365	27.994
50	24.844	25.099	25.668	26.156	26.709
51	23.934	24.145	24.660	25.072	25.571
52	22.980	23.164	23.587	23.923	24.329

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	21.966	22.134	22.481	22.736	23.072
54	20.914	21.055	21.348	21.554	21.820
55	19.825	19.955	20.204	20.356	20.573
56	18.681	18.800	19.001	19.152	19.310
57	17.515	17.602	17.759	17.911	18.036
58	16.333	16.409	16.534	16.680	16.805
59	15.157	15.217	15.314	15.455	15.569
60	13.997	14.057	14.138	14.257	14.371
61	12.907	12.967	13.005	13.124	13.222
62	11.894	11.937	11.970	12.062	12.159
63	10.956	10.994	11.010	11.086	11.173
64	10.105	10.132	10.143	10.197	10.289
65	9.346	9.367	9.357	9.405	9.503
66	8.625	8.657	8.630	8.684	8.771
67	7.996	8.018	7.991	8.034	8.110
68	7.416	7.421	7.394	7.427	7.503
69	6.874	6.863	6.841	6.852	6.928
70	6.359	6.332	6.305	6.310	6.370
71	5.855	5.822	5.784	5.773	5.833
72	5.356	5.329	5.275	5.253	5.318
73	4.857	4.825	4.765	4.733	4.808
74	4.342	4.310	4.239	4.207	4.277
75	3.784	3.768	3.686	3.659	3.719
76	3.150	3.139	3.057	3.052	3.095
77	2.445	2.434	2.342	2.336	2.374
78	1.632	1.632	1.550	1.507	1.534
79	1.095	1.111	1.079	1.073	1.068
80	0.992	0.987	0.981	0.970	0.970
81	0.927	0.927	0.922	0.916	0.916
82	0.873	0.867	0.873	0.867	0.867
83	0.813	0.808	0.813	0.808	0.813
84	0.748	0.743	0.748	0.743	0.748
85	0.672	0.672	0.672	0.672	0.672
86	0.585	0.585	0.591	0.585	0.591
87	0.499	0.493	0.499	0.488	0.488
88	0.390	0.390	0.390	0.385	0.390
89	0.282	0.276	0.282	0.271	0.271
90	0.211	0.206	0.206	0.190	0.179
91	0.195	0.195	0.195	0.179	0.179
92	0.195	0.195	0.195	0.179	0.179
93	0.201	0.195	0.195	0.184	0.179
94	0.201	0.195	0.201	0.184	0.184
95	0.201	0.195	0.201	0.184	0.190
96	0.201	0.195	0.201	0.190	0.190
97	0.206	0.195	0.201	0.190	0.190
98	0.206	0.201	0.201	0.190	0.195
99	0.211	0.206	0.206	0.195	0.201
100	0.211	0.211	0.206	0.201	0.201
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

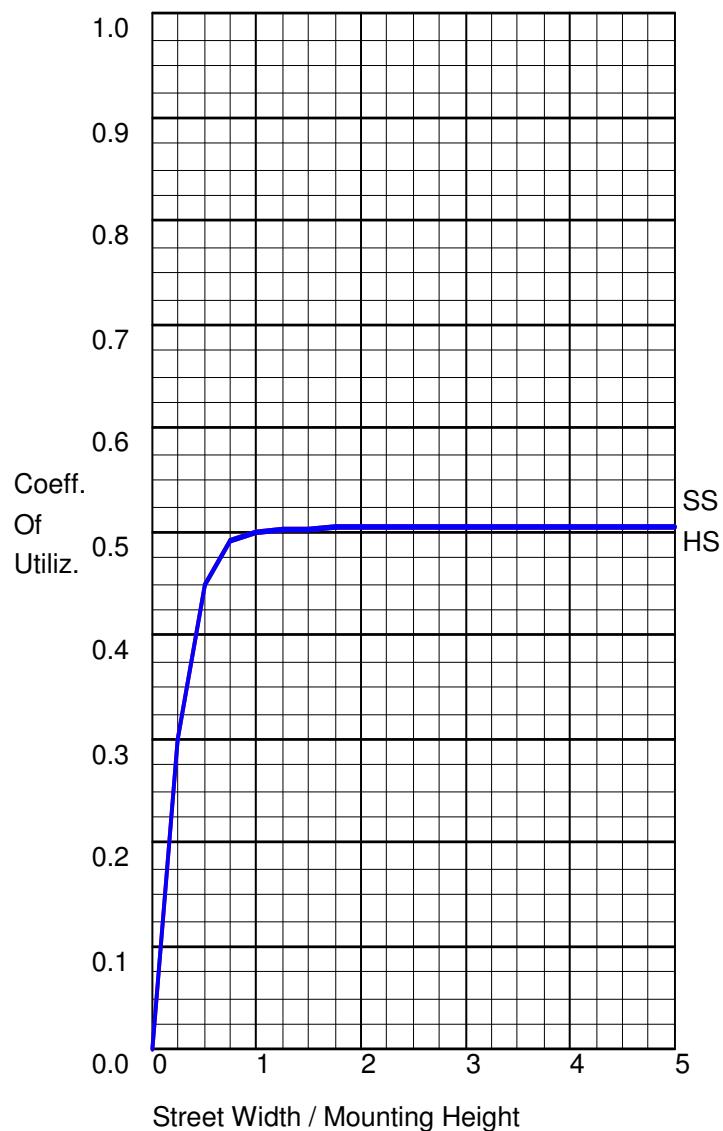
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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 : W4CR-XX-L15-935-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

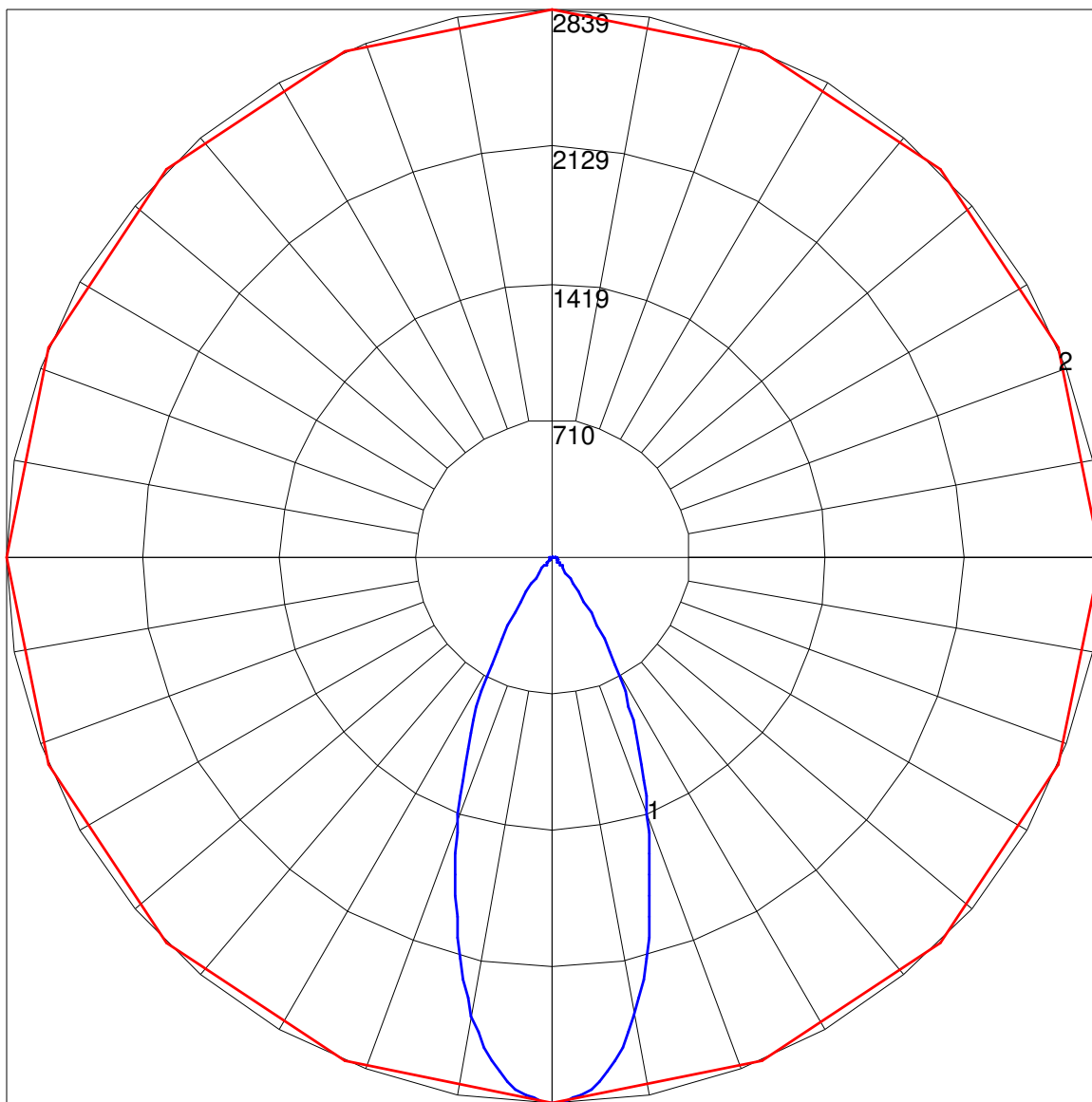
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	745.8	50.0
Downward House Side	745.8	50.0
Downward Total	1491.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1491.8	100.0

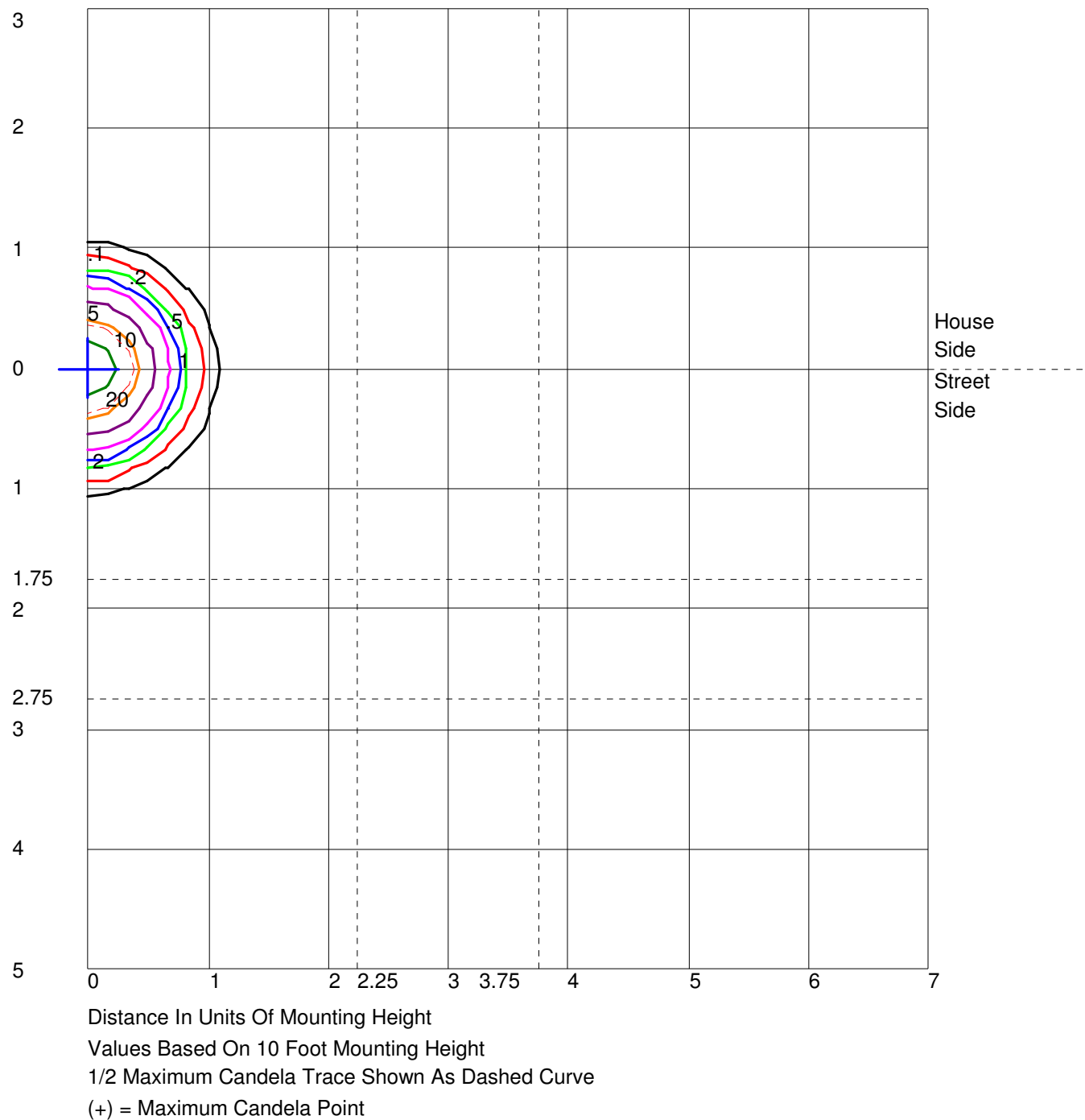
POLAR GRAPH



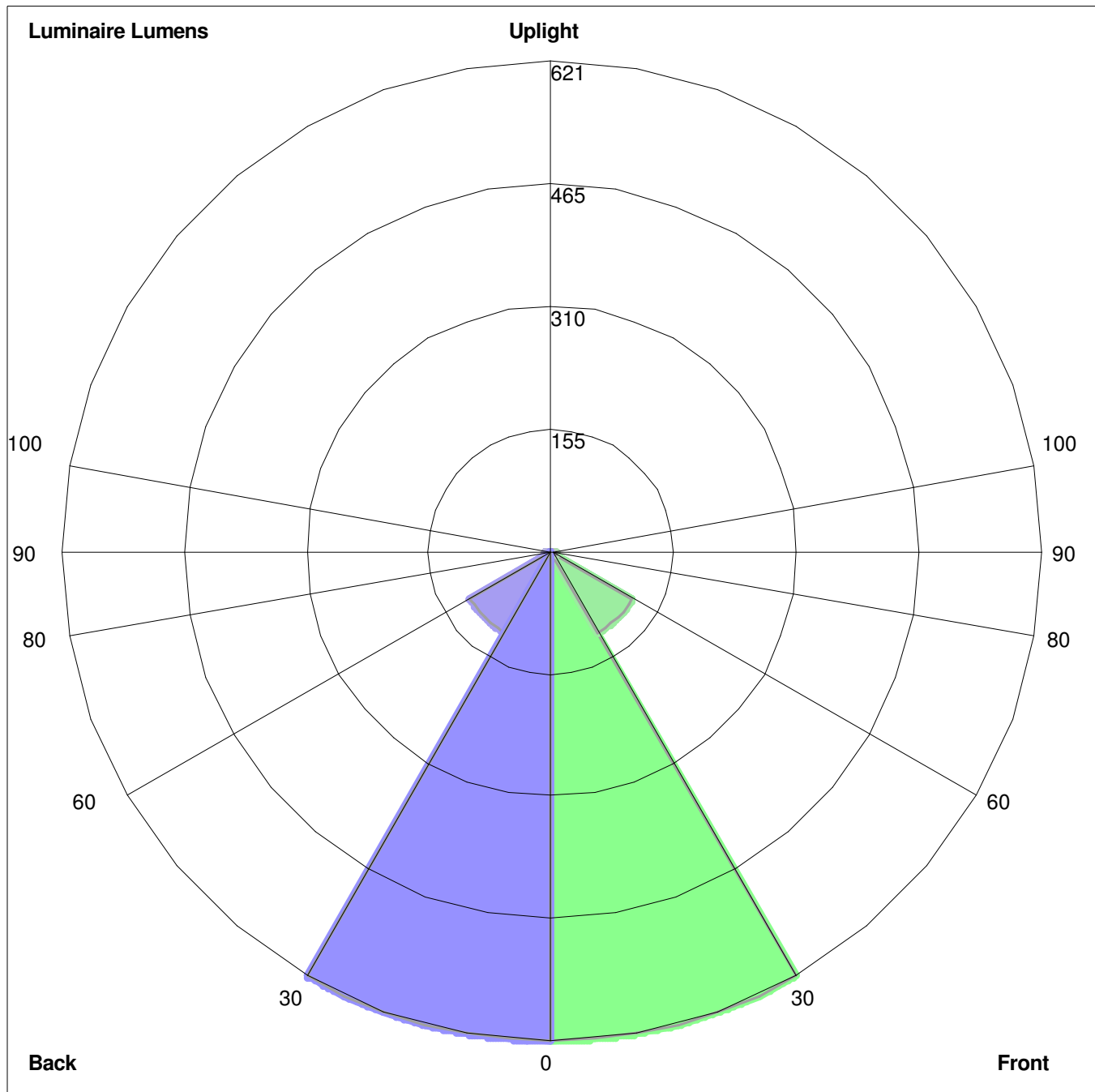
Maximum Candela = 2838.746 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=620.5, Medium=118.3, High=6.7, Very High=0.3  
Back: Low=620.5, Medium=118.3, High=6.7, Very High=0.3  
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0