

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-840-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-L25-840-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	2572
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4893.034
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4893.034
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.364 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.71 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1069.6	N.A.	41.6
FM - Front-Medium (30-60)	203.9	N.A.	7.9
FH - Front-High (60-80)	11.5	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1069.6	N.A.	41.6
BM - Back-Medium (30-60)	203.9	N.A.	7.9
BH - Back-High (60-80)	11.5	N.A.	0.4
BVH - Back-Very High (80-90)	0.6	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	2571.6	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	4893.034	4893.034	4893.034	4893.034	4893.034
1	4885.484	4886.643	4883.391	4882.279	4882.719
2	4864.937	4871.786	4866.619	4864.844	4858.770
3	4829.206	4832.981	4827.598	4828.981	4826.991
4	4779.542	4789.793	4780.496	4781.009	4779.094
5	4729.225	4724.918	4717.667	4716.003	4713.041
6	4650.857	4653.109	4643.588	4638.346	4637.626
7	4564.771	4561.865	4557.352	4547.775	4539.954
8	4455.438	4460.287	4448.766	4439.048	4436.563
9	4330.948	4335.218	4328.416	4321.183	4317.848
10	4191.013	4192.956	4189.789	4187.126	4180.360
11	4039.724	4039.220	4037.286	4032.754	4027.372
12	3872.822	3876.775	3865.973	3868.319	3869.290
13	3698.698	3698.978	3688.298	3699.529	3702.538
14	3512.519	3517.004	3513.061	3522.741	3526.264
15	3321.566	3326.882	3325.574	3338.824	3342.225
16	3134.714	3137.312	3137.331	3152.178	3162.466
17	2951.432	2954.404	2955.675	2967.859	2980.455
18	2763.834	2772.505	2774.355	2786.652	2803.228
19	2592.746	2595.549	2603.603	2615.620	2627.926
20	2422.704	2432.300	2438.365	2450.129	2465.864
21	2265.314	2272.126	2281.255	2292.122	2306.559
22	2116.605	2124.669	2130.855	2144.730	2157.718
23	1975.875	1980.566	1987.668	2002.590	2016.475
24	1843.733	1845.892	1854.796	1868.812	1877.297
25	1715.721	1718.552	1728.569	1741.678	1747.883
26	1590.652	1597.604	1606.574	1618.301	1623.272
27	1467.853	1472.488	1487.560	1499.025	1498.436
28	1344.653	1349.783	1367.051	1374.255	1373.956
29	1220.257	1232.423	1241.327	1248.803	1248.971
30	1093.310	1102.728	1113.493	1120.603	1118.725
31	965.419	971.885	980.435	986.499	985.228
32	838.191	844.106	850.591	855.459	854.469
33	711.085	716.561	722.102	725.998	728.129
34	588.932	596.061	599.313	603.732	606.424
35	477.542	484.074	485.980	488.820	493.343
36	389.419	385.364	387.681	388.803	394.811
37	304.679	300.138	302.109	300.362	309.173
38	228.180	231.786	229.581	231.394	238.552
39	175.293	178.741	176.209	182.217	192.168
40	134.506	136.525	138.524	140.057	145.943
41	108.633	106.914	109.053	112.800	118.014
42	85.516	86.918	90.758	94.346	97.972
43	71.883	73.359	76.191	79.704	83.367
44	62.894	64.072	66.566	69.809	72.659
45	56.550	57.521	59.820	62.380	64.614
46	52.093	52.943	54.924	56.914	58.596
47	48.850	49.616	51.242	52.803	54.195
48	46.383	47.075	48.420	49.691	50.869
49	44.477	45.047	46.159	47.168	48.252
50	42.823	43.263	44.244	45.085	46.038
51	41.254	41.618	42.506	43.216	44.075
52	39.609	39.927	40.656	41.235	41.936

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	37.862	38.151	38.749	39.189	39.768
54	36.049	36.292	36.797	37.152	37.609
55	34.171	34.395	34.825	35.087	35.460
56	32.199	32.405	32.751	33.012	33.283
57	30.190	30.340	30.611	30.872	31.087
58	28.153	28.284	28.499	28.751	28.966
59	26.126	26.229	26.397	26.640	26.836
60	24.126	24.229	24.369	24.575	24.771
61	22.248	22.351	22.416	22.622	22.790
62	20.501	20.575	20.631	20.790	20.959
63	18.884	18.950	18.978	19.108	19.258
64	17.417	17.464	17.483	17.576	17.735
65	16.109	16.146	16.128	16.212	16.380
66	14.866	14.922	14.876	14.969	15.119
67	13.782	13.820	13.773	13.848	13.979
68	12.783	12.792	12.745	12.801	12.932
69	11.848	11.829	11.792	11.811	11.942
70	10.960	10.914	10.867	10.876	10.979
71	10.091	10.035	9.970	9.951	10.054
72	9.232	9.185	9.092	9.054	9.166
73	8.372	8.316	8.213	8.157	8.288
74	7.485	7.428	7.307	7.251	7.372
75	6.522	6.494	6.354	6.307	6.410
76	5.429	5.410	5.270	5.261	5.335
77	4.214	4.195	4.037	4.027	4.093
78	2.813	2.813	2.672	2.598	2.644
79	1.887	1.916	1.859	1.850	1.841
80	1.710	1.701	1.691	1.673	1.673
81	1.598	1.598	1.588	1.579	1.579
82	1.504	1.495	1.504	1.495	1.495
83	1.402	1.392	1.402	1.392	1.402
84	1.289	1.280	1.289	1.280	1.289
85	1.159	1.159	1.159	1.159	1.159
86	1.009	1.009	1.018	1.009	1.018
87	0.860	0.850	0.860	0.841	0.841
88	0.673	0.673	0.673	0.663	0.673
89	0.486	0.477	0.486	0.467	0.467
90	0.364	0.355	0.355	0.327	0.308
91	0.336	0.336	0.336	0.308	0.308
92	0.336	0.336	0.336	0.308	0.308
93	0.346	0.336	0.336	0.318	0.308
94	0.346	0.336	0.346	0.318	0.318
95	0.346	0.336	0.346	0.318	0.327
96	0.346	0.336	0.346	0.327	0.327
97	0.355	0.336	0.346	0.327	0.327
98	0.355	0.346	0.346	0.327	0.336
99	0.364	0.355	0.355	0.336	0.346
100	0.364	0.364	0.355	0.346	0.346
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

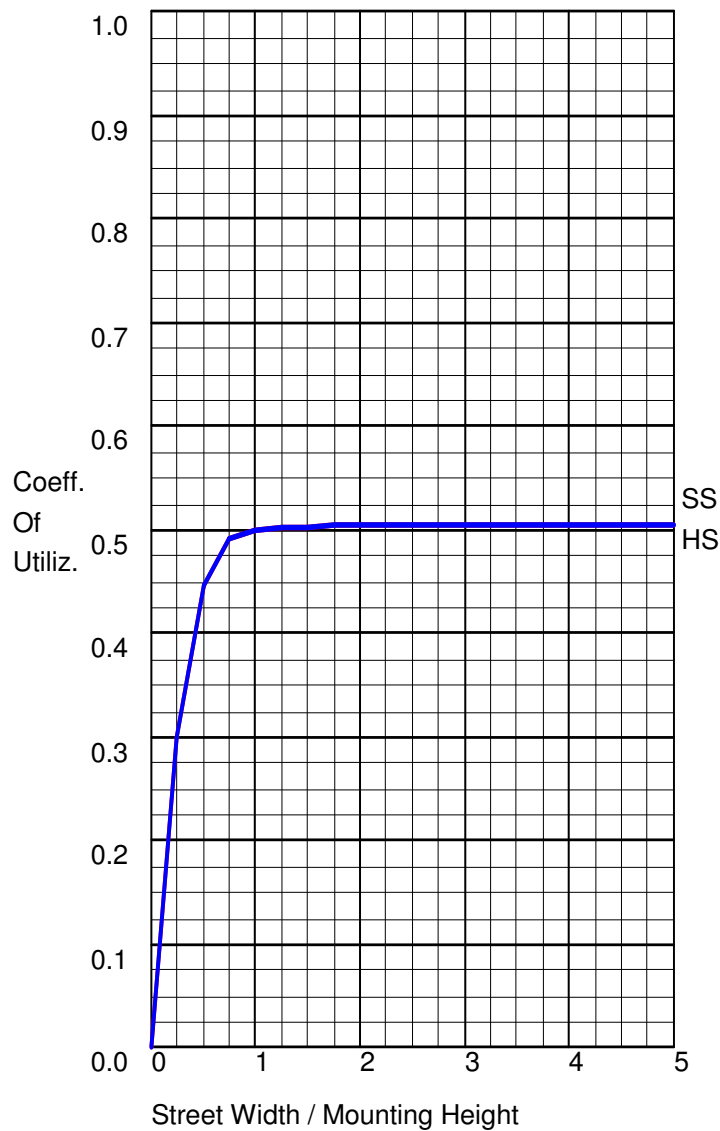
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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 : W4CR-XX-L25-840-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

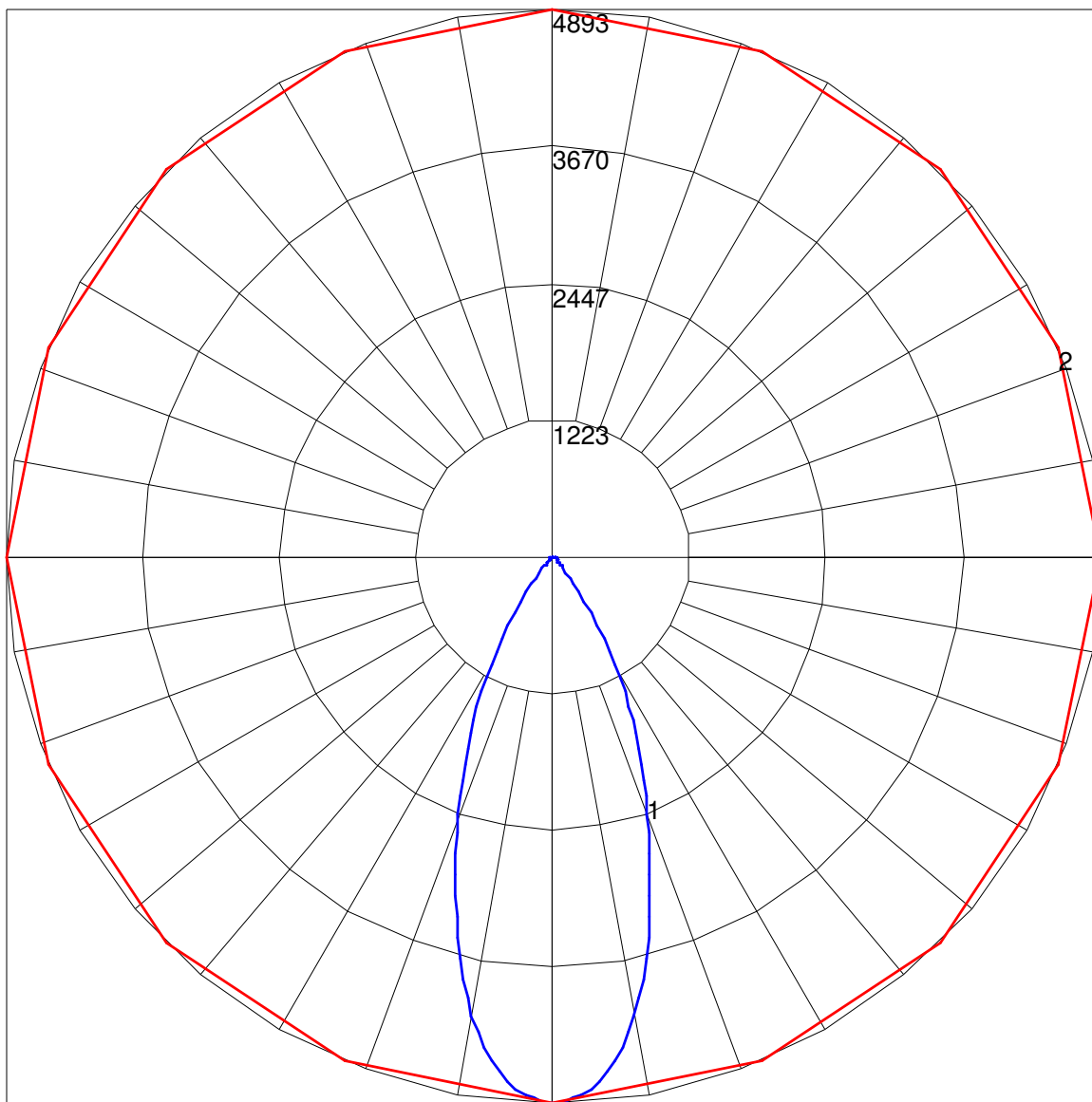
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

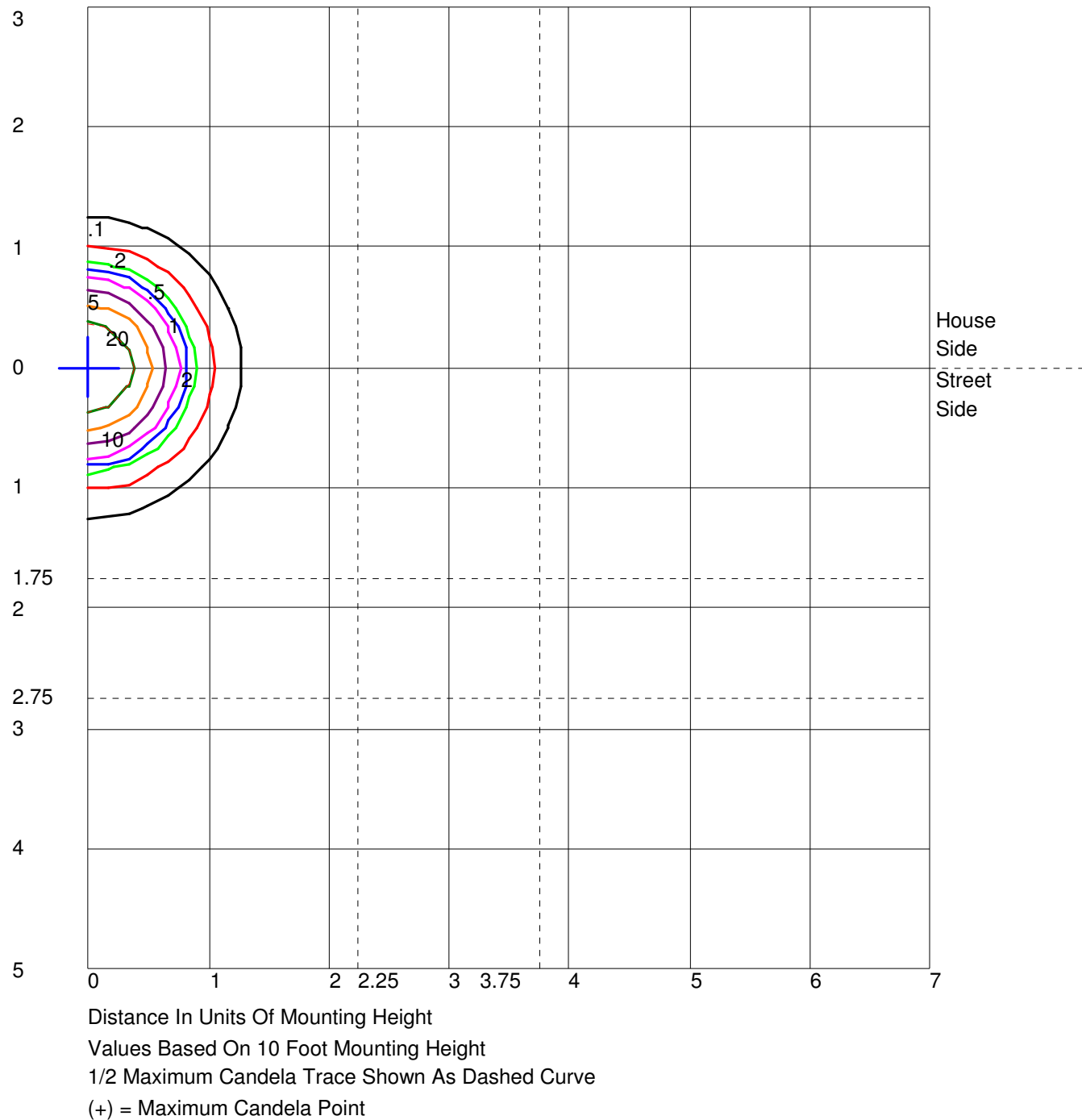
	Lumens	Percent Of Luminaire
Downward Street Side	1285.6	50.0
Downward House Side	1285.6	50.0
Downward Total	2571.2	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2571.6	100.0

POLAR GRAPH

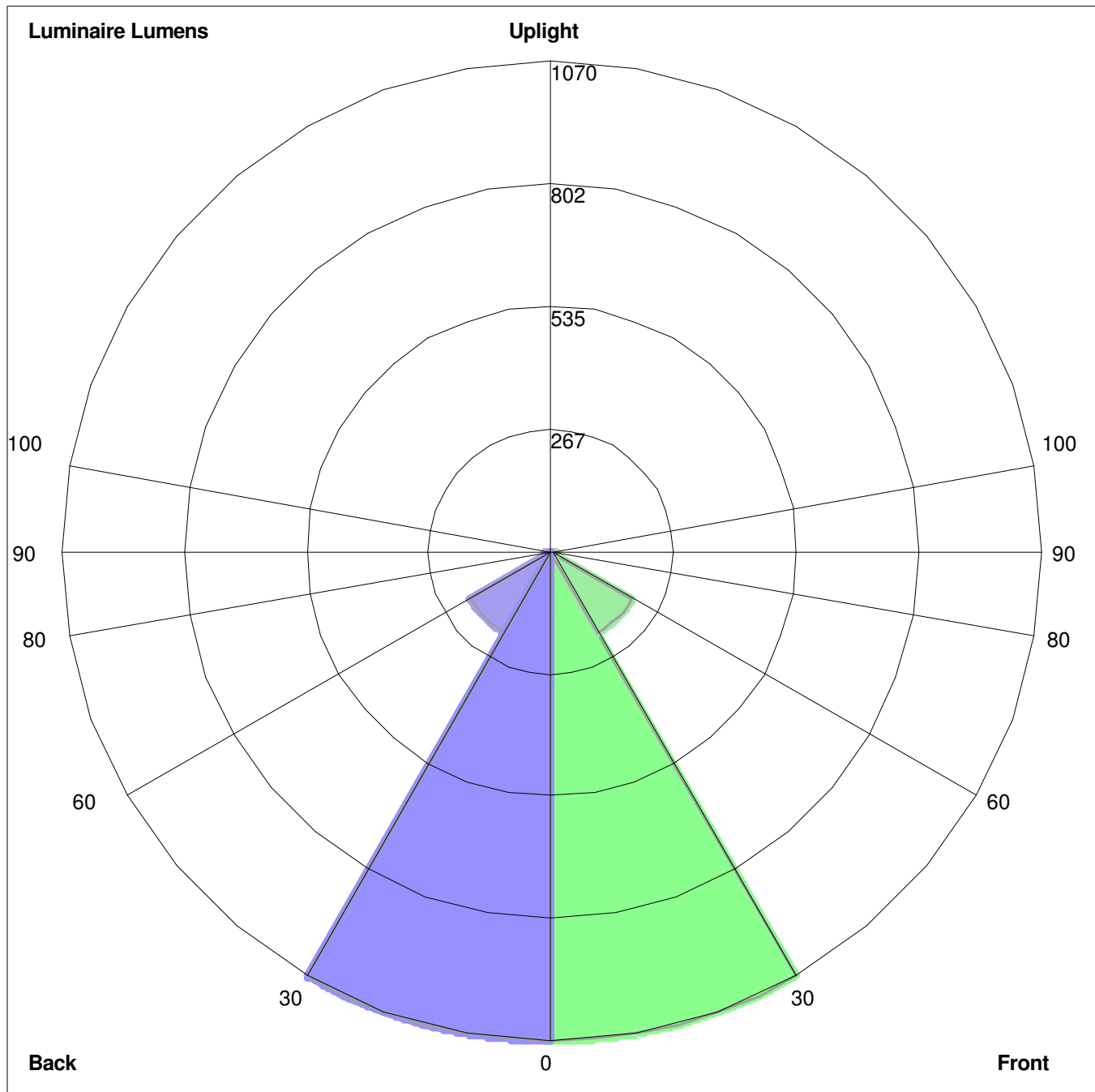


Maximum Candela = 4893.034 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1069.6, Medium=203.9, High=11.5, Very High=0.6  
Back: Low=1069.6, Medium=203.9, High=11.5, Very High=0.6  
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0