

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-935-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-L25-935-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	2470
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4699.251
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4699.251
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.35 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.642 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-935-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1027.2	N.A.	41.6
FM - Front-Medium (30-60)	195.8	N.A.	7.9
FH - Front-High (60-80)	11.0	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1027.2	N.A.	41.6
BM - Back-Medium (30-60)	195.8	N.A.	7.9
BH - Back-High (60-80)	11.0	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	2469.6	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	4699.251	4699.251	4699.251	4699.251	4699.251
1	4692.000	4693.113	4689.990	4688.922	4689.344
2	4672.266	4678.844	4673.882	4672.177	4666.344
3	4637.950	4641.576	4636.407	4637.735	4635.823
4	4590.254	4600.098	4591.169	4591.663	4589.823
5	4541.929	4537.792	4530.829	4529.231	4526.386
6	4466.665	4468.828	4459.683	4454.649	4453.958
7	4383.988	4381.198	4376.863	4367.665	4360.154
8	4278.985	4283.642	4272.577	4263.244	4260.857
9	4159.425	4163.526	4156.993	4150.048	4146.844
10	4025.032	4026.899	4023.856	4021.299	4014.802
11	3879.735	3879.251	3877.393	3873.041	3867.872
12	3719.443	3723.239	3712.866	3715.118	3716.051
13	3552.215	3552.484	3542.227	3553.013	3555.903
14	3373.410	3377.717	3373.930	3383.227	3386.610
15	3190.019	3195.125	3193.868	3206.593	3209.860
16	3010.567	3013.062	3013.080	3027.340	3037.220
17	2834.544	2837.398	2838.618	2850.320	2862.417
18	2654.375	2662.703	2664.480	2676.289	2692.209
19	2490.063	2492.755	2500.490	2512.031	2523.849
20	2326.755	2335.972	2341.796	2353.094	2368.206
21	2175.599	2182.141	2190.908	2201.345	2215.210
22	2032.779	2040.524	2046.464	2059.791	2072.264
23	1897.623	1902.128	1908.948	1923.279	1936.615
24	1770.714	1772.787	1781.339	1794.800	1802.948
25	1647.771	1650.491	1660.111	1672.701	1678.660
26	1527.656	1534.332	1542.947	1554.209	1558.984
27	1409.721	1414.172	1428.647	1439.657	1439.092
28	1291.400	1296.326	1312.910	1319.829	1319.542
29	1171.930	1183.614	1192.166	1199.345	1199.507
30	1050.010	1059.056	1069.394	1076.223	1074.419
31	927.184	933.394	941.605	947.430	946.209
32	804.996	810.676	816.904	821.579	820.628
33	682.924	688.182	693.504	697.246	699.292
34	565.608	572.455	575.578	579.822	582.407
35	458.630	464.902	466.733	469.461	473.805
36	373.997	370.102	372.328	373.404	379.175
37	292.612	288.251	290.144	288.466	296.929
38	219.143	222.607	220.489	222.230	229.104
39	168.351	171.662	169.230	175.000	184.557
40	129.179	131.118	133.038	134.510	140.164
41	104.331	102.679	104.735	108.333	113.340
42	82.129	83.475	87.164	90.610	94.091
43	69.036	70.454	73.173	76.547	80.065
44	60.403	61.534	63.930	67.044	69.781
45	54.310	55.243	57.451	59.910	62.055
46	50.030	50.846	52.749	54.660	56.275
47	46.916	47.651	49.213	50.712	52.049
48	44.546	45.211	46.503	47.723	48.854
49	42.716	43.263	44.331	45.300	46.341
50	41.127	41.549	42.491	43.299	44.214
51	39.620	39.970	40.822	41.504	42.330
52	38.040	38.346	39.045	39.602	40.275

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-935-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	36.362	36.640	37.215	37.637	38.193
54	34.621	34.855	35.339	35.680	36.120
55	32.818	33.033	33.446	33.697	34.056
56	30.924	31.122	31.454	31.705	31.965
57	28.995	29.138	29.399	29.650	29.856
58	27.038	27.164	27.370	27.613	27.819
59	25.091	25.190	25.351	25.585	25.773
60	23.171	23.269	23.404	23.601	23.790
61	21.367	21.466	21.528	21.726	21.887
62	19.689	19.761	19.814	19.967	20.128
63	18.136	18.199	18.226	18.352	18.495
64	16.727	16.772	16.790	16.880	17.032
65	15.471	15.507	15.489	15.570	15.731
66	14.277	14.331	14.286	14.376	14.520
67	13.237	13.272	13.228	13.299	13.425
68	12.276	12.285	12.240	12.294	12.420
69	11.379	11.361	11.325	11.343	11.469
70	10.526	10.482	10.437	10.446	10.544
71	9.692	9.638	9.575	9.557	9.656
72	8.866	8.821	8.732	8.696	8.803
73	8.041	7.987	7.888	7.834	7.960
74	7.188	7.134	7.018	6.964	7.080
75	6.264	6.237	6.102	6.057	6.156
76	5.214	5.196	5.061	5.052	5.124
77	4.047	4.029	3.877	3.868	3.931
78	2.701	2.701	2.567	2.495	2.540
79	1.813	1.840	1.786	1.777	1.768
80	1.642	1.633	1.624	1.606	1.606
81	1.535	1.535	1.526	1.517	1.517
82	1.445	1.436	1.445	1.436	1.436
83	1.346	1.337	1.346	1.337	1.346
84	1.238	1.229	1.238	1.229	1.238
85	1.113	1.113	1.113	1.113	1.113
86	0.969	0.969	0.978	0.969	0.978
87	0.826	0.817	0.826	0.808	0.808
88	0.646	0.646	0.646	0.637	0.646
89	0.467	0.458	0.467	0.449	0.449
90	0.350	0.341	0.341	0.314	0.296
91	0.323	0.323	0.323	0.296	0.296
92	0.323	0.323	0.323	0.296	0.296
93	0.332	0.323	0.323	0.305	0.296
94	0.332	0.323	0.332	0.305	0.305
95	0.332	0.323	0.332	0.305	0.314
96	0.332	0.323	0.332	0.314	0.314
97	0.341	0.323	0.332	0.314	0.314
98	0.341	0.332	0.332	0.314	0.323
99	0.350	0.341	0.341	0.323	0.332
100	0.350	0.350	0.341	0.332	0.332
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

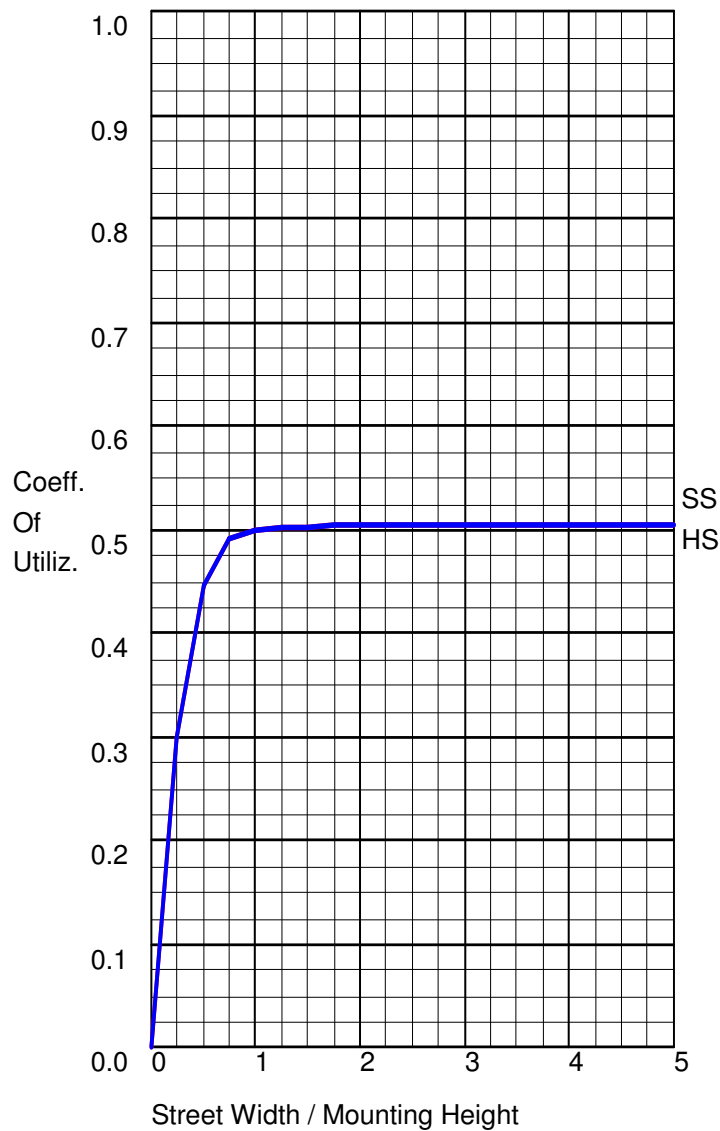
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-935-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-935-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

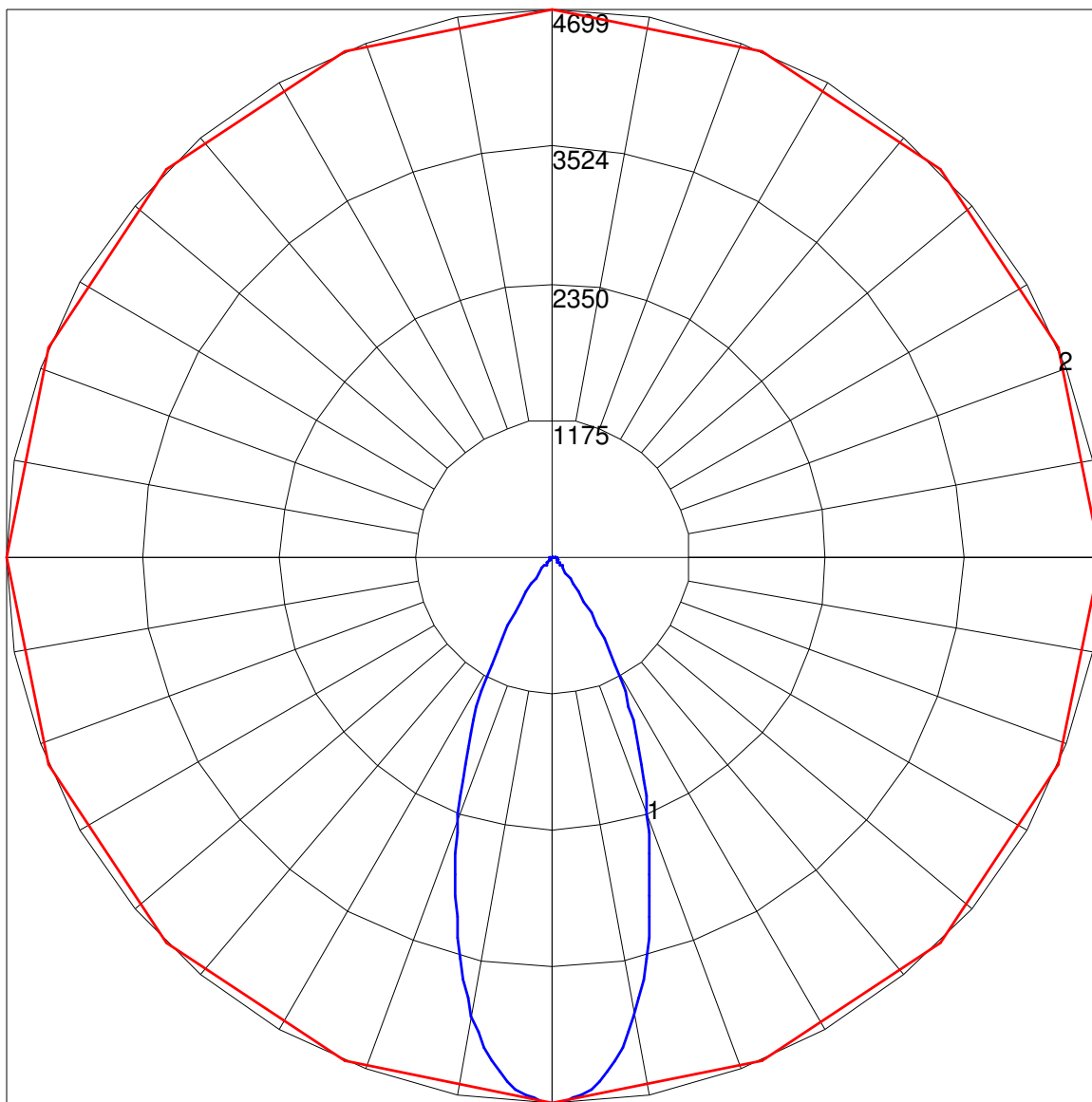
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

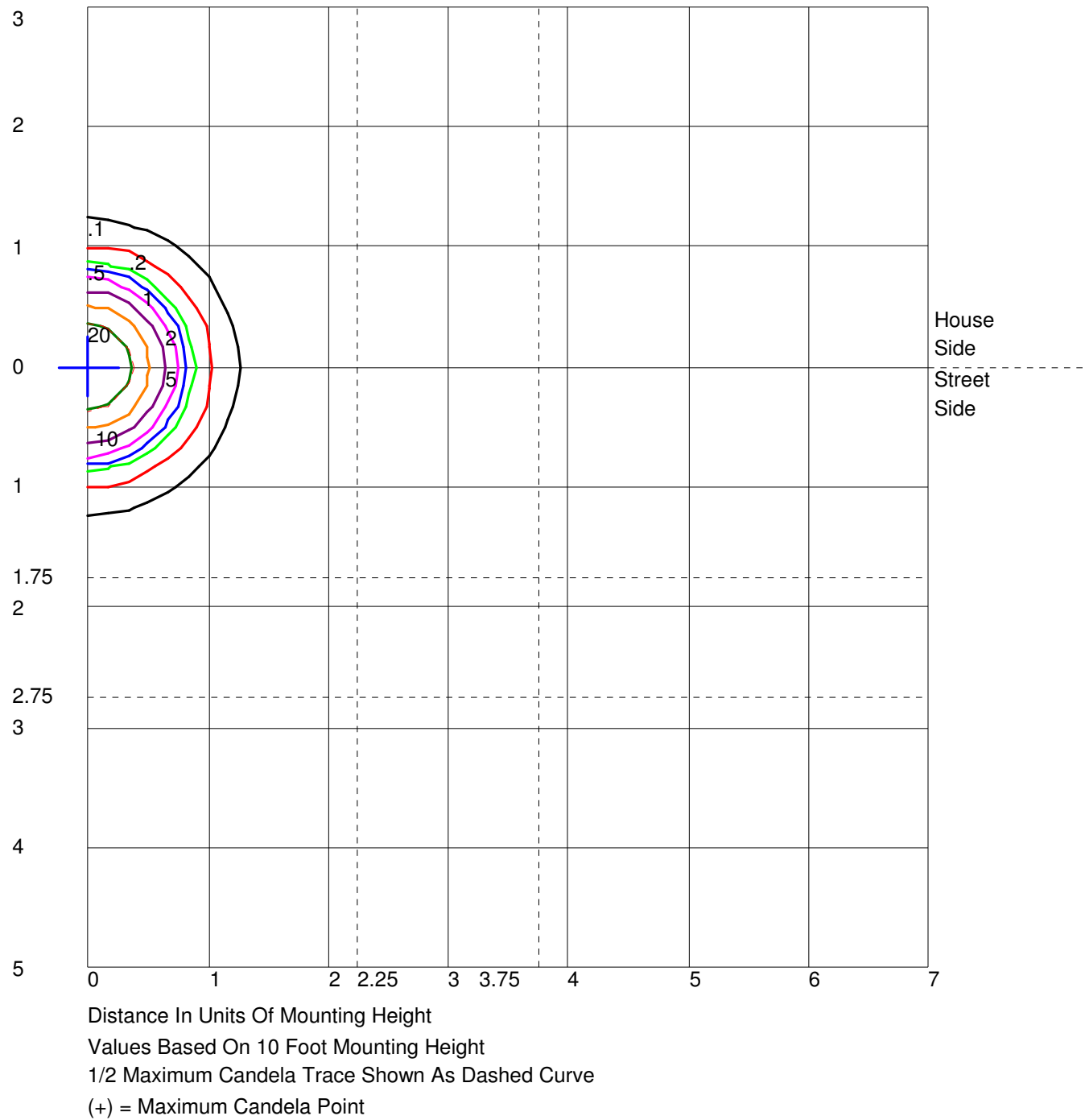
	Lumens	Percent Of Luminaire
Downward Street Side	1234.7	50.0
Downward House Side	1234.7	50.0
Downward Total	2469.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2469.8	100.0

POLAR GRAPH

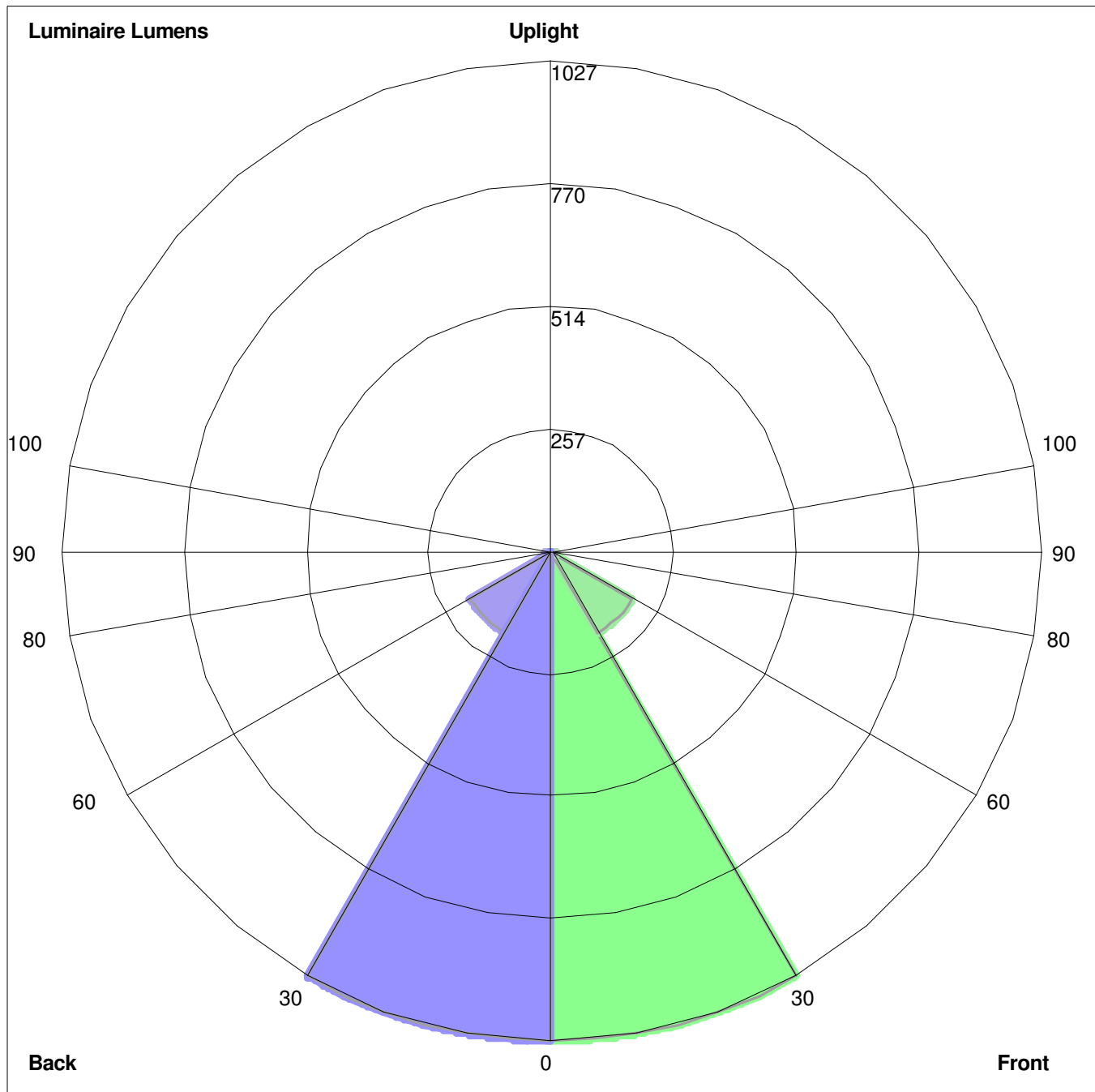


Maximum Candela = 4699.251 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1027.2, Medium=195.8, High=11.0, Very High=0.6
Back: Low=1027.2, Medium=195.8, High=11.0, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0