

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-W-XXX_.IES_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-WIDE DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CR-xx-L20-930-xxx-DIM-UNV-W-xxx_
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] WIDE DIST. W/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	2003
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2525.101
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2525.101
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.314 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.43 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	775.3	N.A.	38.7
FM - Front-Medium (30-60)	216.4	N.A.	10.8
FH - Front-High (60-80)	9.3	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	775.3	N.A.	38.7
BM - Back-Medium (30-60)	216.4	N.A.	10.8
BH - Back-High (60-80)	9.3	N.A.	0.5
BVH - Back-Very High (80-90)	0.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2003.3	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	2520.909	2520.909	2520.909	2520.909	2520.909
1	2516.881	2516.761	2517.158	2520.182	2523.057
2	2519.067	2518.318	2515.817	2520.729	2525.101
3	2516.701	2513.541	2515.862	2514.305	2519.711
4	2512.942	2510.404	2509.319	2512.231	2517.337
5	2509.551	2508.533	2506.264	2508.315	2511.370
6	2502.446	2503.771	2497.774	2502.378	2499.818
7	2492.428	2496.576	2491.874	2491.829	2488.999
8	2483.047	2482.193	2480.232	2480.599	2481.235
9	2471.023	2468.148	2465.812	2467.055	2466.111
10	2448.270	2448.996	2447.514	2446.046	2445.155
11	2420.253	2422.417	2419.430	2420.635	2417.633
12	2387.543	2385.379	2384.488	2388.112	2386.689
13	2344.927	2344.238	2346.222	2350.302	2350.055
14	2301.532	2297.938	2299.136	2300.806	2305.478
15	2247.446	2245.589	2242.677	2249.348	2246.832
16	2189.699	2184.278	2181.942	2186.734	2190.058
17	2125.543	2119.314	2119.718	2119.433	2126.928
18	2055.442	2052.230	2052.777	2048.517	2056.670
19	1981.508	1978.798	1978.498	1979.165	1983.822
20	1906.414	1906.107	1904.167	1905.178	1911.445
21	1833.857	1830.660	1829.822	1832.352	1834.419
22	1754.600	1757.857	1755.768	1757.872	1760.380
23	1681.744	1680.568	1680.456	1682.208	1688.175
24	1605.549	1604.111	1605.743	1609.389	1611.493
25	1528.605	1528.133	1529.541	1534.145	1534.901
26	1449.692	1450.074	1453.458	1457.201	1456.819
27	1362.910	1365.119	1372.755	1376.132	1372.748
28	1273.208	1273.688	1284.282	1287.771	1282.627
29	1176.476	1179.262	1188.605	1190.934	1187.490
30	1074.032	1076.293	1086.348	1088.661	1083.990
31	963.367	968.615	975.084	979.524	977.734
32	852.686	858.564	862.749	867.825	866.350
33	740.793	744.387	750.377	755.251	755.191
34	628.893	635.272	639.427	646.427	648.756
35	524.651	531.562	533.688	540.554	544.529
36	430.862	435.998	438.109	442.871	449.871
37	346.805	350.826	352.892	357.152	364.647
38	279.190	277.925	282.088	286.542	290.525
39	217.879	221.435	222.439	226.826	232.112
40	171.317	174.874	177.412	181.080	185.880
41	135.253	138.150	141.130	148.048	154.210
42	108.576	110.695	115.689	119.403	122.682
43	90.847	91.641	94.913	99.150	101.778
44	75.035	76.510	79.647	84.229	85.719
45	64.283	65.564	68.296	71.695	73.208
46	56.250	57.298	59.664	62.329	63.340
47	50.051	51.031	52.888	55.044	55.928
48	45.371	46.165	47.595	49.392	50.328
49	41.650	42.316	43.522	44.922	45.798
50	38.610	39.172	40.205	41.351	42.062
51	36.042	36.507	37.450	38.401	39.000
52	33.639	34.066	34.867	35.661	36.140

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	31.460	31.820	32.486	33.130	33.519
54	29.454	29.783	30.345	30.839	31.168
55	27.642	27.889	28.406	28.795	29.042
56	25.883	26.122	26.556	26.886	27.036
57	24.220	24.408	24.759	25.051	25.149
58	22.596	22.753	23.045	23.292	23.374
59	21.016	21.136	21.360	21.592	21.667
60	19.459	19.564	19.758	19.938	20.020
61	17.999	18.081	18.231	18.381	18.425
62	16.636	16.681	16.786	16.913	16.951
63	15.348	15.386	15.453	15.550	15.603
64	14.158	14.188	14.233	14.315	14.368
65	13.087	13.117	13.125	13.185	13.267
66	12.084	12.114	12.106	12.159	12.211
67	11.178	11.201	11.178	11.216	11.260
68	10.340	10.347	10.332	10.332	10.384
69	9.553	9.546	9.523	9.508	9.546
70	8.805	8.790	8.745	8.715	8.745
71	8.078	8.049	7.989	7.944	7.959
72	7.360	7.330	7.262	7.195	7.225
73	6.663	6.611	6.521	6.454	6.491
74	5.945	5.885	5.795	5.720	5.765
75	5.174	5.129	5.031	4.979	5.009
76	4.327	4.290	4.185	4.163	4.178
77	3.369	3.354	3.249	3.234	3.249
78	2.276	2.276	2.194	2.149	2.164
79	1.580	1.595	1.557	1.550	1.527
80	1.430	1.423	1.415	1.408	1.400
81	1.333	1.333	1.333	1.325	1.325
82	1.258	1.250	1.258	1.250	1.250
83	1.168	1.168	1.175	1.168	1.168
84	1.078	1.071	1.086	1.071	1.071
85	0.973	0.966	0.973	0.966	0.966
86	0.854	0.854	0.854	0.846	0.846
87	0.719	0.711	0.719	0.711	0.704
88	0.569	0.562	0.569	0.562	0.554
89	0.412	0.404	0.404	0.389	0.389
90	0.314	0.299	0.299	0.277	0.262
91	0.292	0.277	0.285	0.270	0.262
92	0.292	0.277	0.285	0.262	0.262
93	0.292	0.285	0.285	0.270	0.262
94	0.292	0.285	0.285	0.270	0.270
95	0.299	0.285	0.285	0.270	0.270
96	0.299	0.285	0.285	0.270	0.270
97	0.299	0.292	0.292	0.277	0.277
98	0.299	0.292	0.299	0.277	0.285
99	0.307	0.299	0.299	0.285	0.285
100	0.307	0.299	0.307	0.285	0.292
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-L20-930-XXX-DIM-UNV-W-XXX_.IES_.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

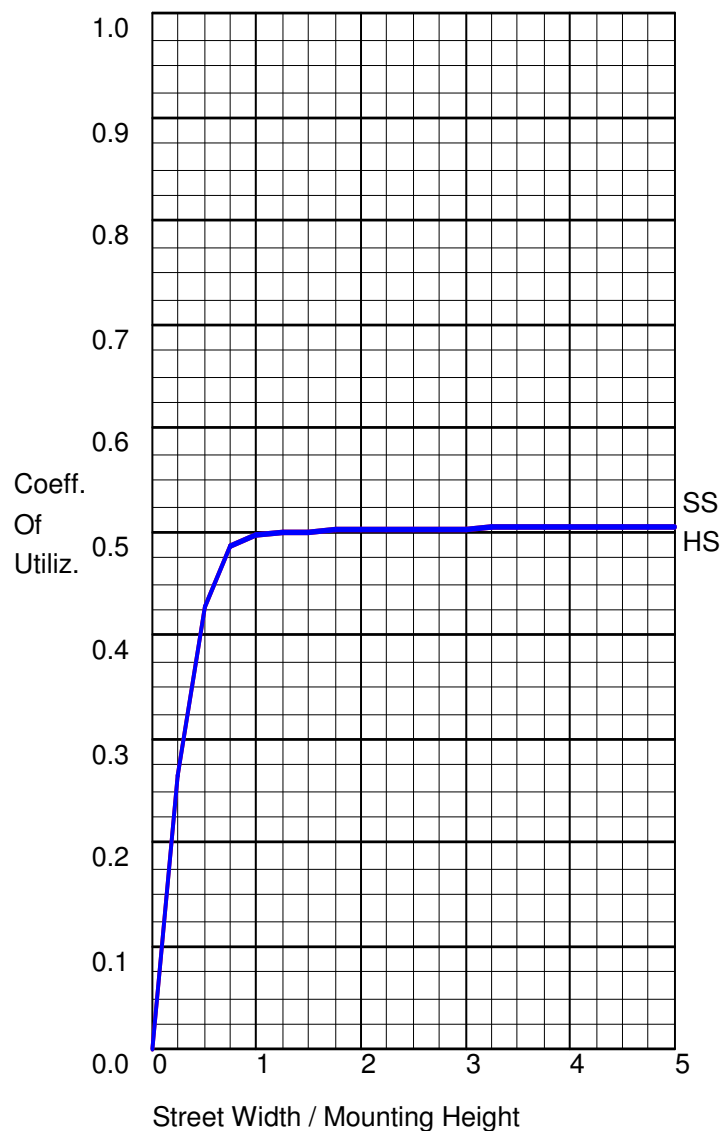
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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

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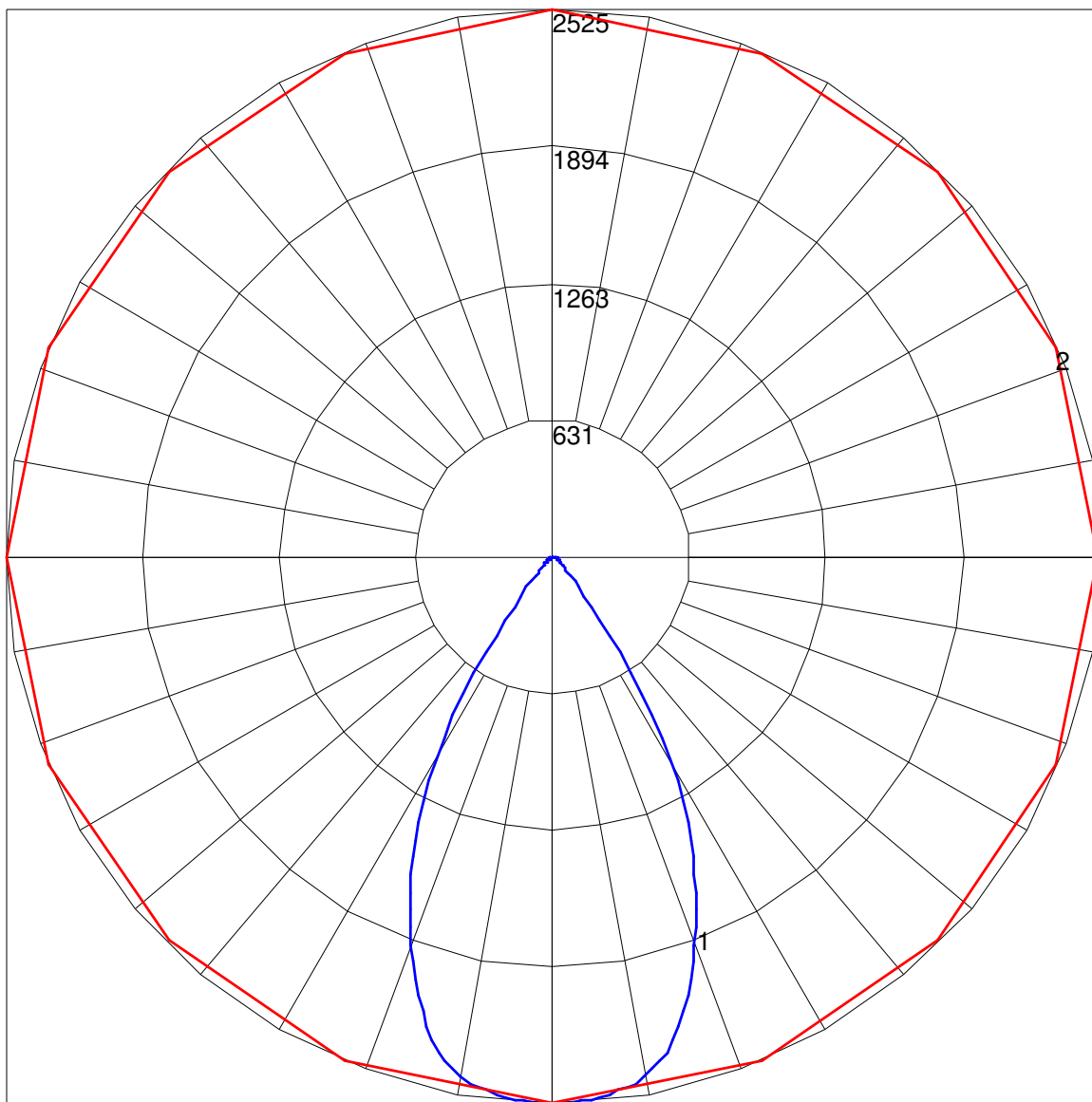
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

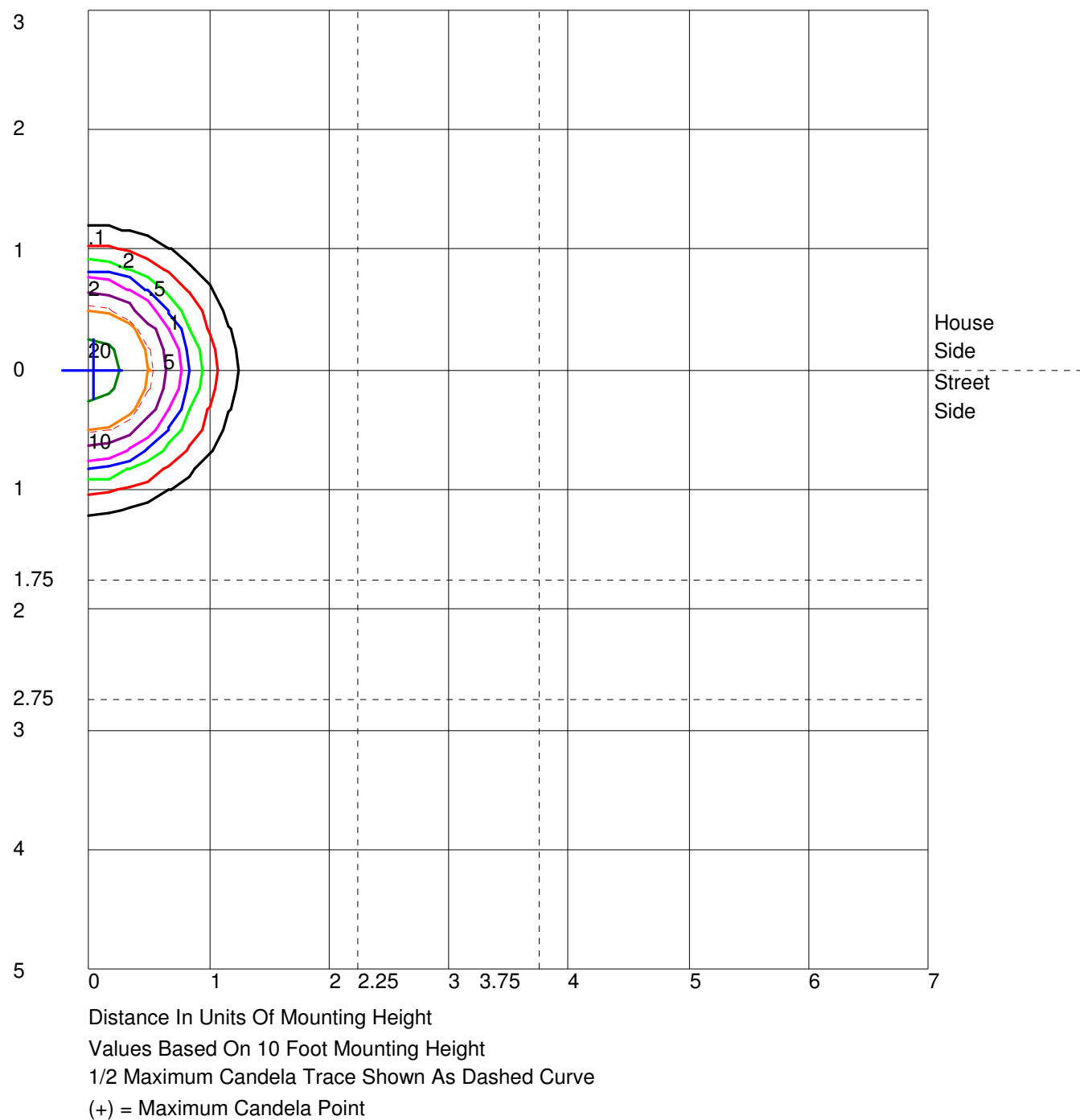
	Lumens	Percent Of Luminaire
Downward Street Side	1001.5	50.0
Downward House Side	1001.5	50.0
Downward Total	2003.0	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2003.4	100.0

POLAR GRAPH

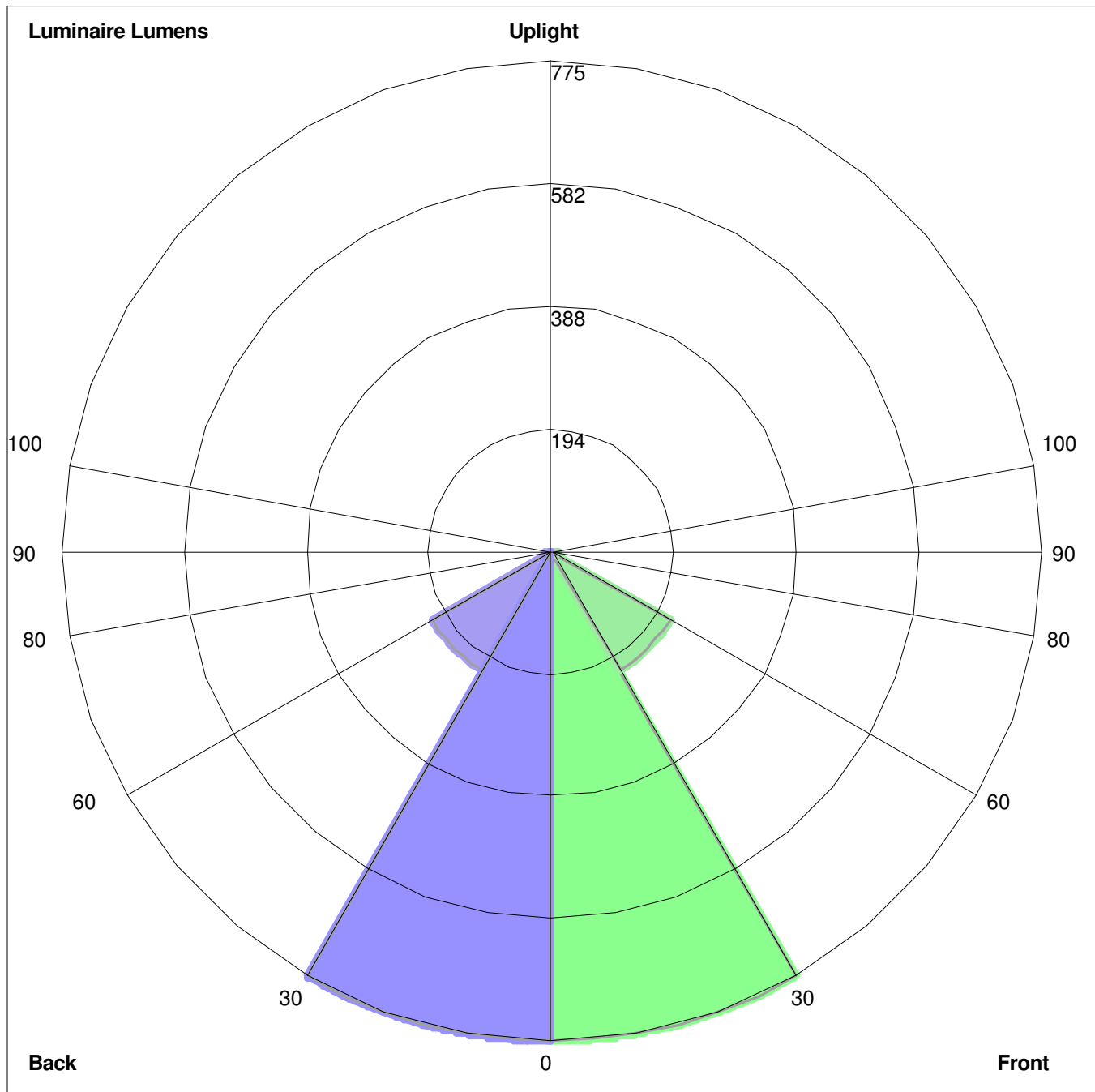


Maximum Candela = 2525.101 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=775.3, Medium=216.4, High=9.3, Very High=0.5
 Back: Low=775.3, Medium=216.4, High=9.3, Very High=0.5
 Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0