

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-927-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-L25-927-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	2393
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4553.914
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4553.914
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.339 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.591 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	995.5	N.A.	41.6
FM - Front-Medium (30-60)	189.8	N.A.	7.9
FH - Front-High (60-80)	10.7	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	995.5	N.A.	41.6
BM - Back-Medium (30-60)	189.8	N.A.	7.9
BH - Back-High (60-80)	10.7	N.A.	0.4
BVH - Back-Very High (80-90)	0.6	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	2393.5	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	4553.914	4553.914	4553.914	4553.914	4553.914
1	4546.887	4547.965	4544.939	4543.904	4544.313
2	4527.764	4534.138	4529.329	4527.677	4522.024
3	4494.509	4498.022	4493.013	4494.300	4492.448
4	4448.287	4457.827	4449.174	4449.653	4447.870
5	4401.458	4397.448	4390.700	4389.152	4386.395
6	4328.521	4330.617	4321.755	4316.877	4316.207
7	4248.401	4245.697	4241.497	4232.583	4225.304
8	4146.645	4151.159	4140.436	4131.392	4129.079
9	4030.784	4034.758	4028.427	4021.696	4018.591
10	3900.547	3902.356	3899.408	3896.929	3890.633
11	3759.744	3759.274	3757.474	3753.256	3748.247
12	3604.409	3608.088	3598.035	3600.218	3601.122
13	3442.353	3442.613	3432.674	3443.127	3445.927
14	3269.077	3273.252	3269.582	3278.591	3281.870
15	3091.359	3096.307	3095.089	3107.421	3110.586
16	2917.457	2919.875	2919.892	2933.711	2943.285
17	2746.878	2749.643	2750.826	2762.166	2773.889
18	2572.281	2580.351	2582.073	2593.518	2608.945
19	2413.051	2415.659	2423.156	2434.339	2445.792
20	2254.794	2263.725	2269.369	2280.318	2294.963
21	2108.312	2114.652	2123.148	2133.262	2146.698
22	1969.910	1977.415	1983.172	1996.086	2008.174
23	1838.934	1843.299	1849.909	1863.797	1876.720
24	1715.950	1717.959	1726.246	1739.291	1747.187
25	1596.810	1599.445	1608.767	1620.968	1626.742
26	1480.409	1486.879	1495.227	1506.141	1510.768
27	1366.121	1370.434	1384.462	1395.132	1394.584
28	1251.459	1256.234	1272.305	1279.010	1278.731
29	1135.685	1147.007	1155.295	1162.252	1162.409
30	1017.536	1026.302	1036.320	1042.938	1041.190
31	898.509	904.527	912.484	918.128	916.945
32	780.099	785.604	791.639	796.170	795.248
33	661.802	666.898	672.055	675.682	677.664
34	548.115	554.750	557.776	561.890	564.394
35	444.445	450.524	452.298	454.942	459.151
36	362.430	358.656	360.812	361.856	367.448
37	283.562	279.336	281.171	279.545	287.745
38	212.365	215.722	213.670	215.357	222.018
39	163.144	166.353	163.996	169.588	178.849
40	125.184	127.063	128.924	130.350	135.829
41	101.104	99.504	101.495	104.983	109.835
42	79.589	80.894	84.468	87.807	91.181
43	66.901	68.275	70.910	74.180	77.589
44	58.535	59.631	61.953	64.971	67.623
45	52.630	53.535	55.674	58.057	60.135
46	48.482	49.274	51.117	52.970	54.535
47	45.465	46.178	47.691	49.143	50.439
48	43.169	43.812	45.065	46.247	47.343
49	41.395	41.925	42.960	43.899	44.908
50	39.855	40.264	41.177	41.960	42.847
51	38.394	38.734	39.560	40.221	41.021
52	36.864	37.160	37.838	38.377	39.029

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	35.238	35.507	36.064	36.473	37.012
54	33.551	33.777	34.246	34.577	35.003
55	31.803	32.011	32.411	32.655	33.003
56	29.968	30.159	30.481	30.724	30.976
57	28.098	28.237	28.489	28.733	28.933
58	26.202	26.324	26.524	26.759	26.959
59	24.315	24.411	24.567	24.793	24.976
60	22.454	22.550	22.680	22.871	23.054
61	20.706	20.802	20.863	21.054	21.210
62	19.080	19.149	19.202	19.349	19.506
63	17.575	17.636	17.662	17.784	17.923
64	16.210	16.254	16.271	16.358	16.506
65	14.993	15.027	15.010	15.088	15.245
66	13.836	13.888	13.845	13.932	14.071
67	12.827	12.862	12.818	12.888	13.010
68	11.897	11.905	11.862	11.914	12.036
69	11.027	11.010	10.975	10.992	11.114
70	10.201	10.157	10.114	10.123	10.218
71	9.392	9.340	9.279	9.262	9.357
72	8.592	8.549	8.462	8.427	8.531
73	7.792	7.740	7.644	7.592	7.714
74	6.966	6.914	6.801	6.748	6.861
75	6.070	6.044	5.914	5.870	5.966
76	5.053	5.035	4.905	4.896	4.966
77	3.922	3.905	3.757	3.748	3.809
78	2.618	2.618	2.487	2.418	2.461
79	1.757	1.783	1.731	1.722	1.713
80	1.591	1.583	1.574	1.557	1.557
81	1.487	1.487	1.478	1.470	1.470
82	1.400	1.391	1.400	1.391	1.391
83	1.304	1.296	1.304	1.296	1.304
84	1.200	1.191	1.200	1.191	1.200
85	1.078	1.078	1.078	1.078	1.078
86	0.939	0.939	0.948	0.939	0.948
87	0.800	0.791	0.800	0.783	0.783
88	0.626	0.626	0.626	0.617	0.626
89	0.452	0.444	0.452	0.435	0.435
90	0.339	0.330	0.330	0.304	0.287
91	0.313	0.313	0.313	0.287	0.287
92	0.313	0.313	0.313	0.287	0.287
93	0.322	0.313	0.313	0.296	0.287
94	0.322	0.313	0.322	0.296	0.296
95	0.322	0.313	0.322	0.296	0.304
96	0.322	0.313	0.322	0.304	0.304
97	0.330	0.313	0.322	0.304	0.304
98	0.330	0.322	0.322	0.304	0.313
99	0.339	0.330	0.330	0.313	0.322
100	0.339	0.339	0.330	0.322	0.322
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

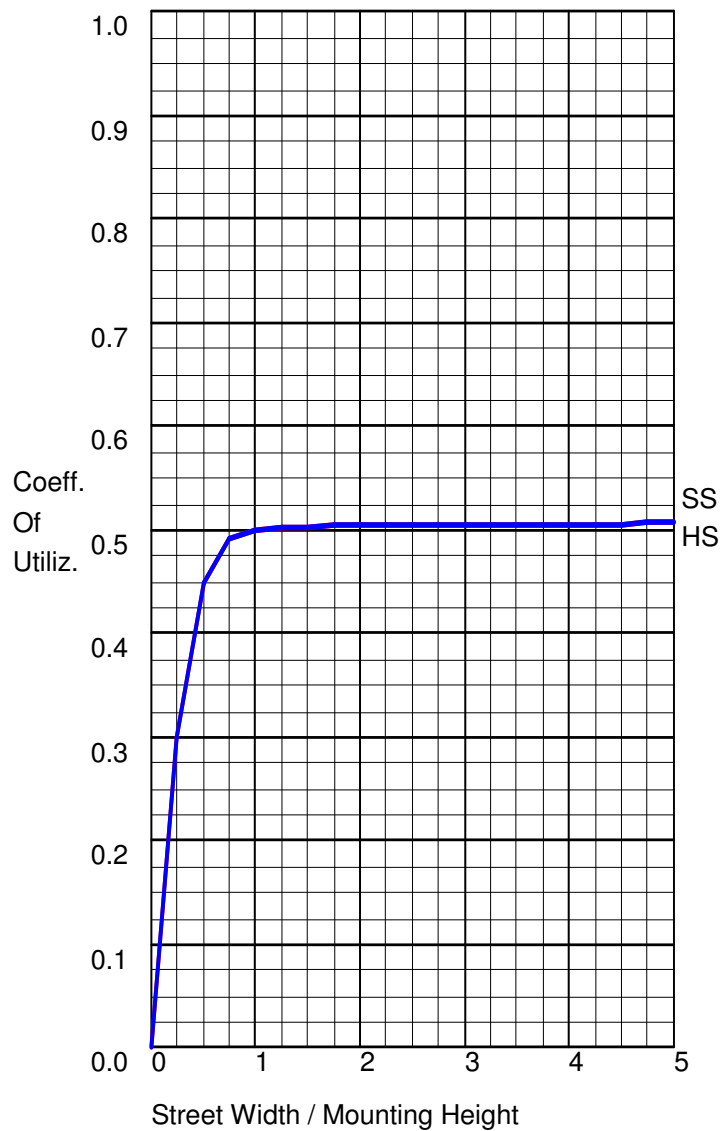
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-927-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

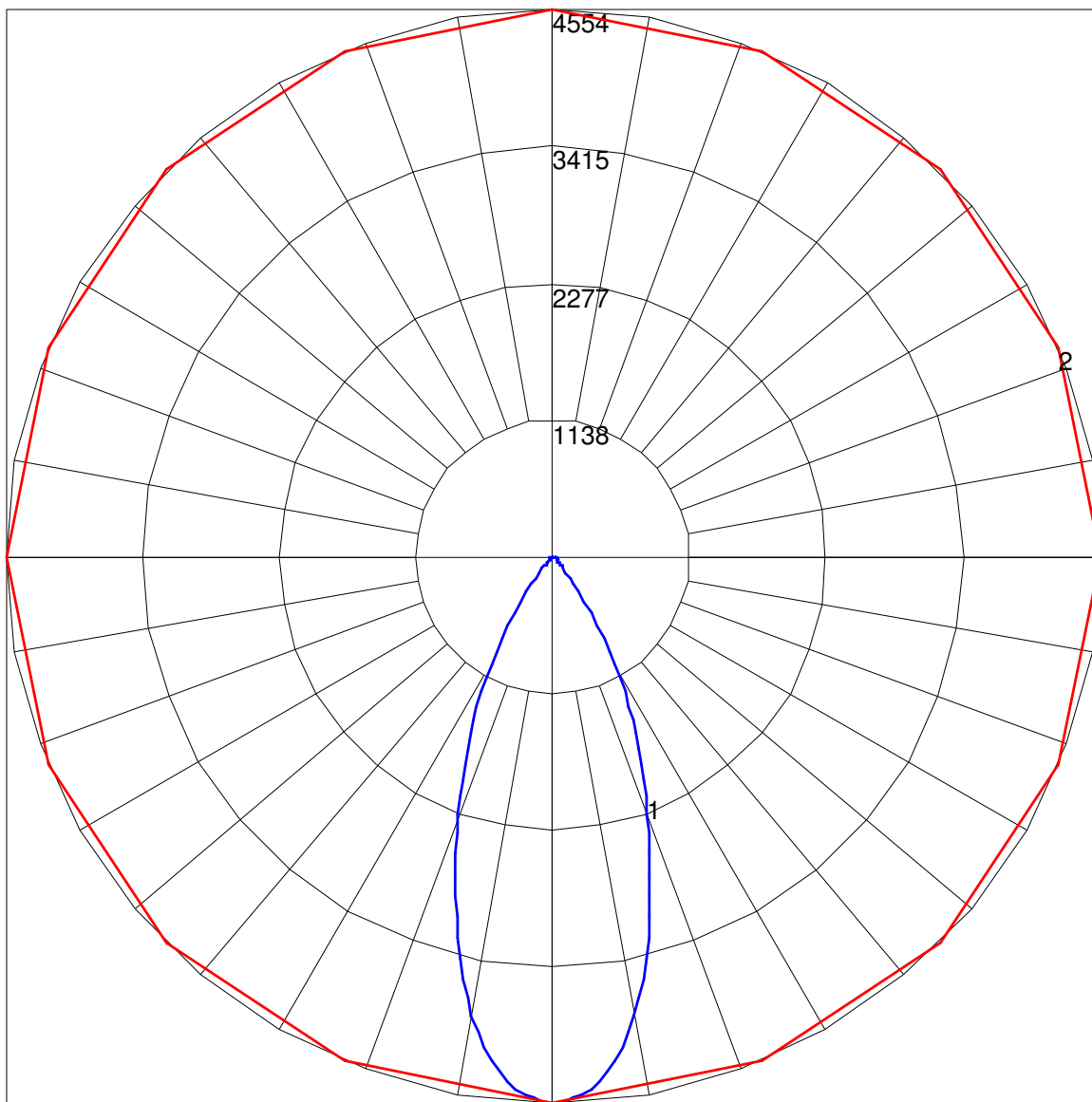
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

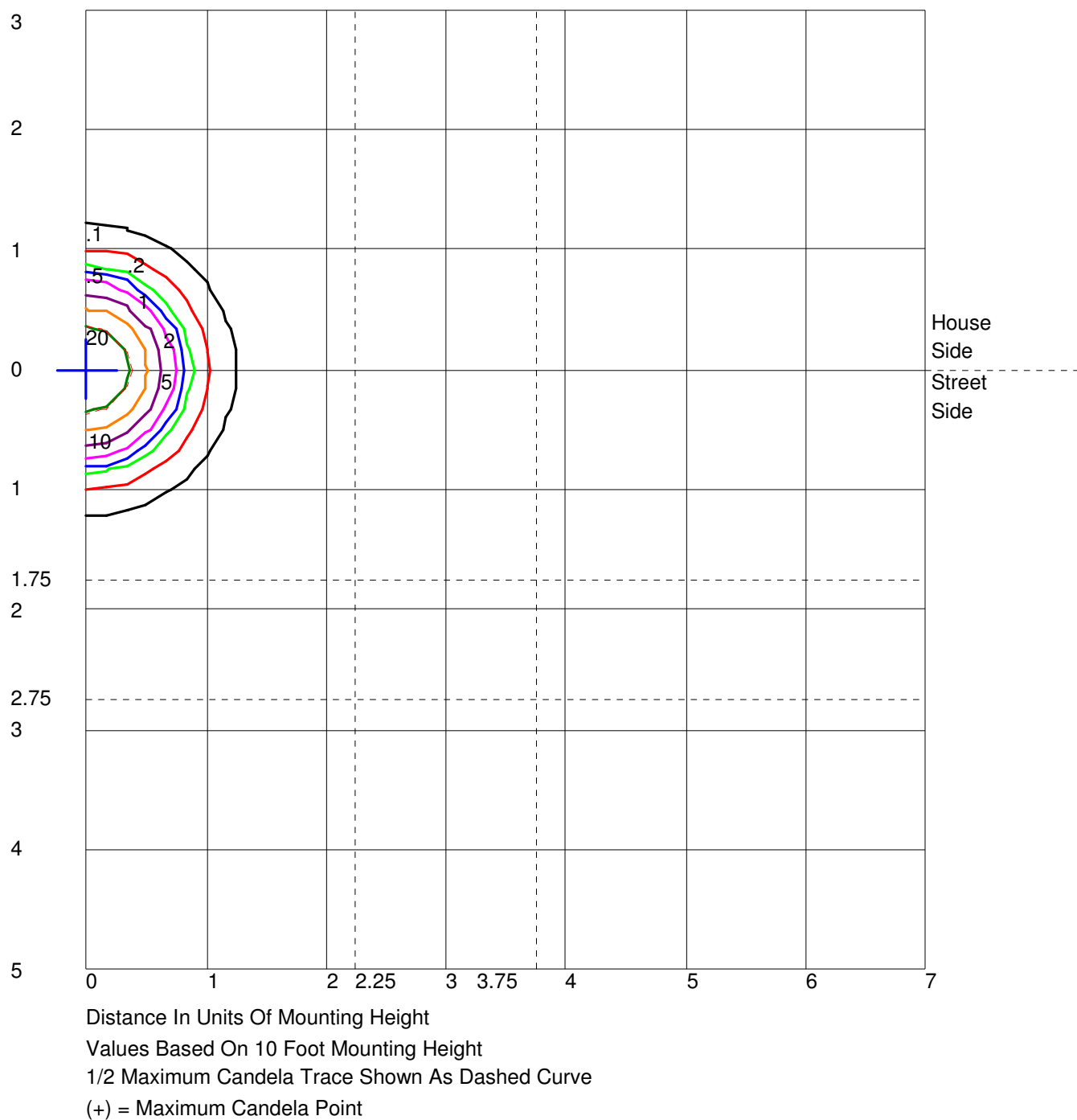
	Lumens	Percent Of Luminaire
Downward Street Side	1196.5	50.0
Downward House Side	1196.5	50.0
Downward Total	2393.0	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2393.4	100.0

POLAR GRAPH

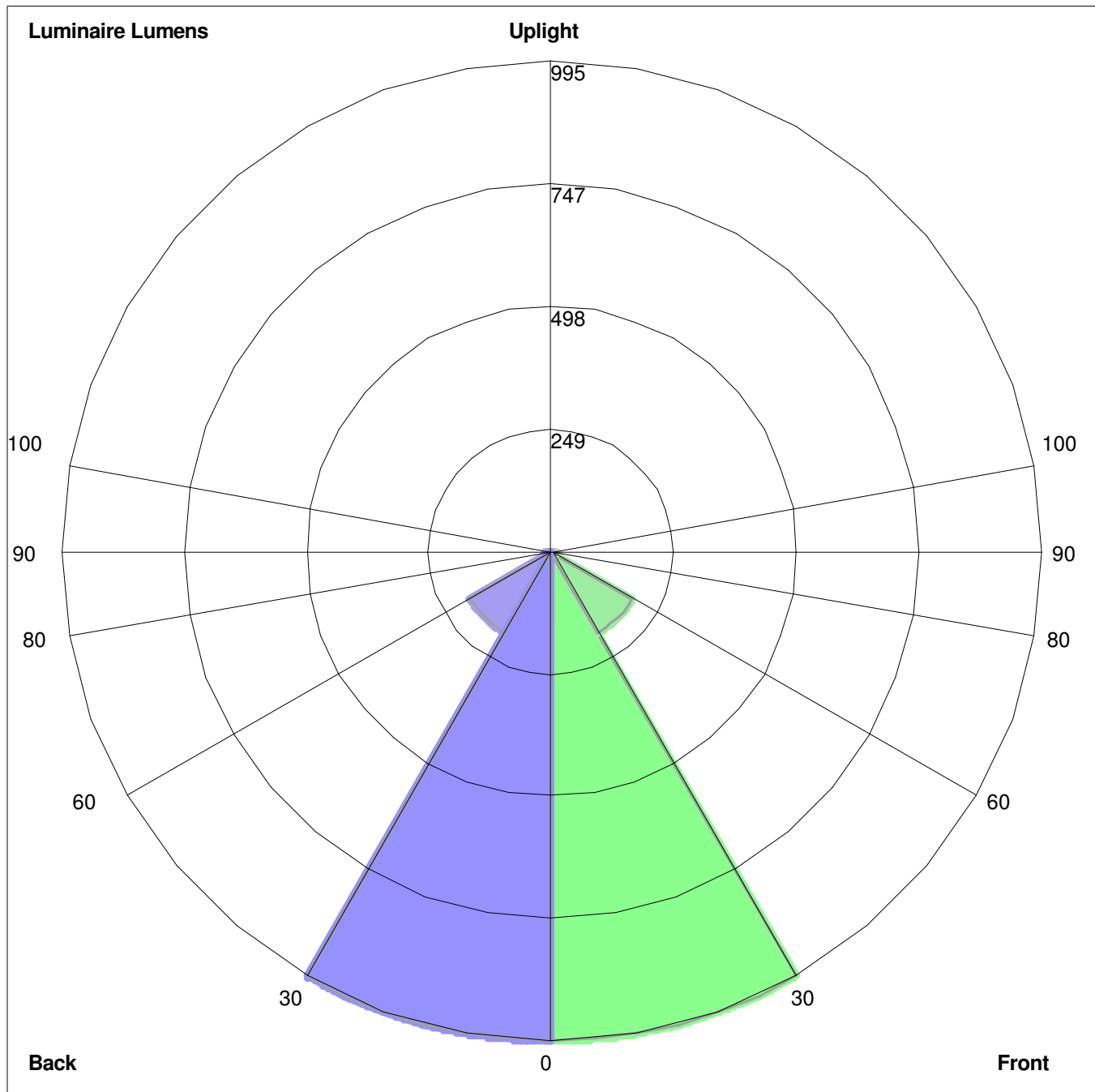


Maximum Candela = 4553.914 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=995.5, Medium=189.8, High=10.7, Very High=0.6
Back: Low=995.5, Medium=189.8, High=10.7, Very High=0.6
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0