

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-930-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-L15-930-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	1477
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2809.481
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2809.481
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.209 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.982 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	614.1	N.A.	41.6
FM - Front-Medium (30-60)	117.1	N.A.	7.9
FH - Front-High (60-80)	6.6	N.A.	0.4
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	614.1	N.A.	41.6
BM - Back-Medium (30-60)	117.1	N.A.	7.9
BH - Back-High (60-80)	6.6	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	1476.4	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-M-XXX_.IES****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	2809.481	2809.481	2809.481	2809.481	2809.481
1	2805.146	2805.811	2803.944	2803.305	2803.557
2	2793.348	2797.280	2794.313	2793.294	2789.807
3	2772.831	2774.999	2771.909	2772.703	2771.560
4	2744.316	2750.201	2744.863	2745.158	2744.058
5	2715.425	2712.951	2708.788	2707.833	2706.132
6	2670.427	2671.720	2666.253	2663.244	2662.830
7	2620.999	2619.330	2616.739	2611.240	2606.749
8	2558.221	2561.006	2554.391	2548.811	2547.384
9	2486.742	2489.194	2485.288	2481.135	2479.220
10	2406.394	2407.510	2405.691	2404.162	2400.278
11	2319.527	2319.238	2318.127	2315.525	2312.435
12	2223.696	2225.965	2219.763	2221.110	2221.668
13	2123.717	2123.878	2117.745	2124.194	2125.922
14	2016.817	2019.392	2017.128	2022.686	2024.709
15	1907.175	1910.228	1909.477	1917.085	1919.038
16	1799.889	1801.381	1801.391	1809.917	1815.824
17	1694.652	1696.358	1697.088	1704.084	1711.316
18	1586.937	1591.916	1592.978	1600.039	1609.556
19	1488.702	1490.311	1494.936	1501.835	1508.901
20	1391.067	1396.577	1400.059	1406.814	1415.849
21	1300.697	1304.608	1309.850	1316.090	1324.379
22	1215.311	1219.942	1223.493	1231.460	1238.918
23	1134.507	1137.201	1141.278	1149.846	1157.819
24	1058.634	1059.873	1064.986	1073.034	1077.905
25	985.132	986.757	992.509	1000.036	1003.599
26	913.320	917.311	922.462	929.195	932.049
27	842.811	845.473	854.126	860.709	860.371
28	772.072	775.018	784.933	789.069	788.897
29	700.647	707.632	712.745	717.037	717.134
30	627.756	633.164	639.345	643.428	642.349
31	554.324	558.036	562.946	566.427	565.698
32	481.272	484.668	488.392	491.187	490.618
33	408.291	411.435	414.616	416.853	418.077
34	338.153	342.246	344.113	346.651	348.196
35	274.195	277.945	279.040	280.671	283.267
36	223.597	221.268	222.599	223.242	226.692
37	174.940	172.333	173.465	172.462	177.521
38	131.016	133.087	131.821	132.862	136.971
39	100.650	102.629	101.175	104.625	110.339
40	77.231	78.390	79.538	80.418	83.798
41	62.375	61.388	62.616	64.768	67.761
42	49.102	49.906	52.111	54.172	56.253
43	41.274	42.122	43.747	45.764	47.868
44	36.113	36.789	38.221	40.083	41.719
45	32.470	33.028	34.347	35.818	37.100
46	29.911	30.399	31.536	32.679	33.645
47	28.049	28.489	29.422	30.318	31.118
48	26.632	27.029	27.802	28.532	29.208
49	25.538	25.865	26.504	27.083	27.705
50	24.588	24.840	25.404	25.887	26.434
51	23.687	23.896	24.406	24.814	25.307
52	22.743	22.925	23.344	23.676	24.079

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.739	21.906	22.249	22.501	22.834
54	20.699	20.838	21.128	21.332	21.595
55	19.620	19.749	19.996	20.146	20.361
56	18.488	18.606	18.805	18.955	19.111
57	17.335	17.421	17.576	17.726	17.850
58	16.165	16.240	16.364	16.508	16.632
59	15.001	15.060	15.156	15.296	15.409
60	13.853	13.912	13.992	14.110	14.223
61	12.774	12.833	12.871	12.989	13.086
62	11.771	11.814	11.846	11.937	12.034
63	10.843	10.880	10.897	10.972	11.058
64	10.001	10.027	10.038	10.092	10.183
65	9.249	9.271	9.260	9.308	9.405
66	8.536	8.568	8.541	8.595	8.681
67	7.914	7.935	7.908	7.951	8.026
68	7.339	7.345	7.318	7.350	7.425
69	6.803	6.792	6.771	6.782	6.857
70	6.293	6.266	6.240	6.245	6.304
71	5.794	5.762	5.725	5.714	5.773
72	5.301	5.274	5.220	5.199	5.263
73	4.807	4.775	4.716	4.684	4.759
74	4.297	4.265	4.196	4.163	4.233
75	3.745	3.729	3.648	3.621	3.680
76	3.117	3.106	3.026	3.021	3.063
77	2.420	2.409	2.318	2.312	2.350
78	1.615	1.615	1.534	1.492	1.518
79	1.084	1.100	1.068	1.062	1.057
80	0.982	0.976	0.971	0.960	0.960
81	0.917	0.917	0.912	0.907	0.907
82	0.864	0.858	0.864	0.858	0.858
83	0.805	0.799	0.805	0.799	0.805
84	0.740	0.735	0.740	0.735	0.740
85	0.665	0.665	0.665	0.665	0.665
86	0.579	0.579	0.585	0.579	0.585
87	0.494	0.488	0.494	0.483	0.483
88	0.386	0.386	0.386	0.381	0.386
89	0.279	0.274	0.279	0.268	0.268
90	0.209	0.204	0.204	0.188	0.177
91	0.193	0.193	0.193	0.177	0.177
92	0.193	0.193	0.193	0.177	0.177
93	0.199	0.193	0.193	0.182	0.177
94	0.199	0.193	0.199	0.182	0.182
95	0.199	0.193	0.199	0.182	0.188
96	0.199	0.193	0.199	0.188	0.188
97	0.204	0.193	0.199	0.188	0.188
98	0.204	0.199	0.199	0.188	0.193
99	0.209	0.204	0.204	0.193	0.199
100	0.209	0.209	0.204	0.199	0.199
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

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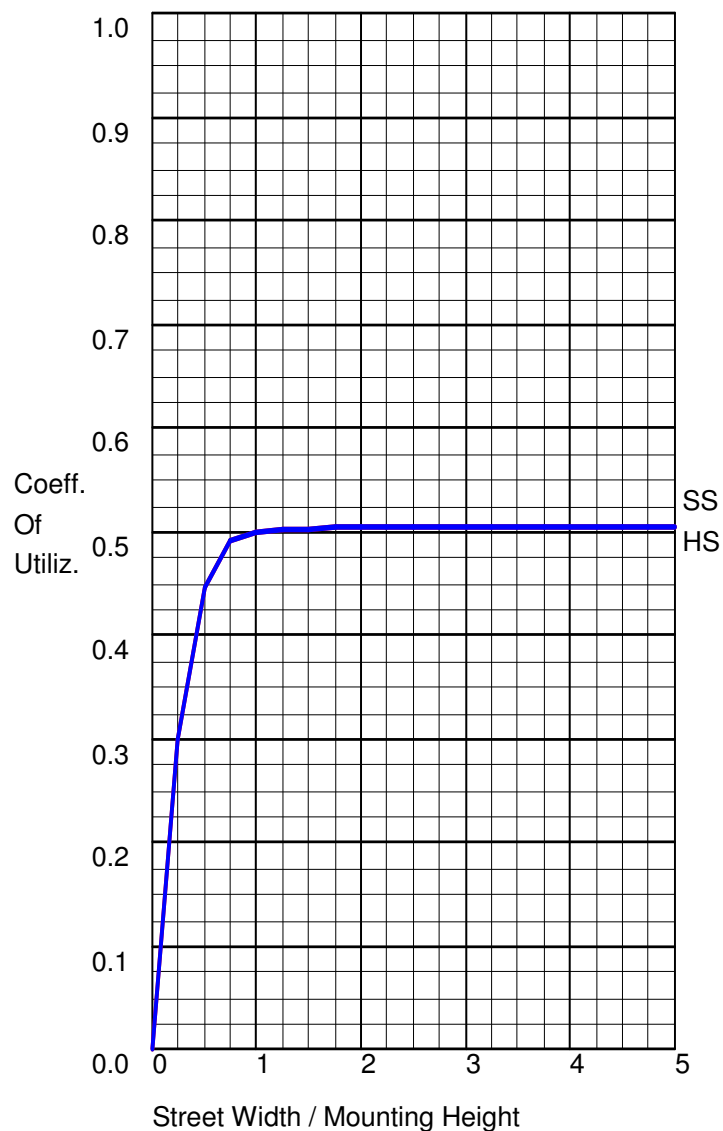
CANDELA TABULATION - (Cont.)

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-L15-930-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

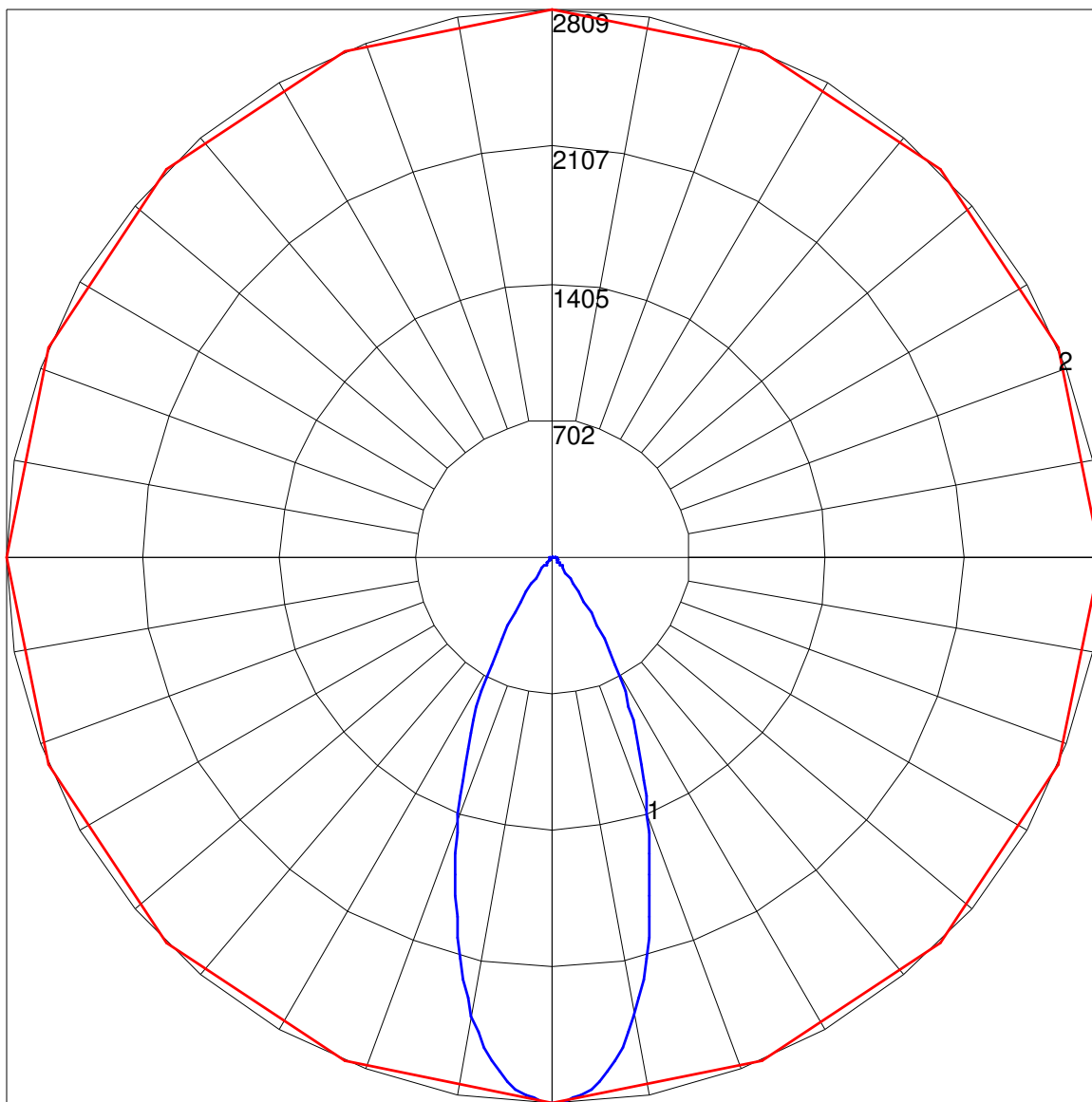
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

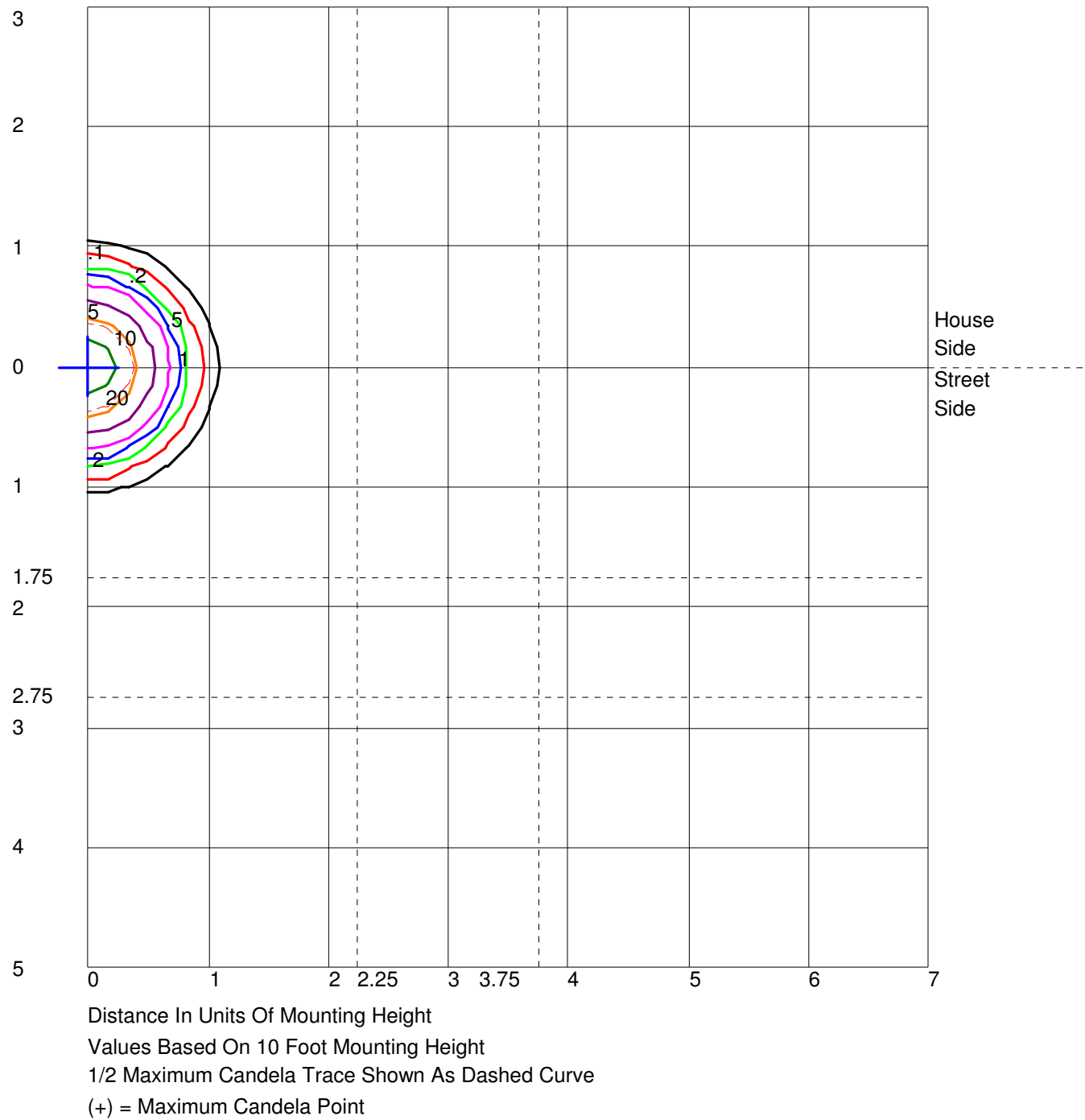
	Lumens	Percent Of Luminaire
Downward Street Side	738.1	50.0
Downward House Side	738.1	50.0
Downward Total	1476.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1476.4	100.0

POLAR GRAPH

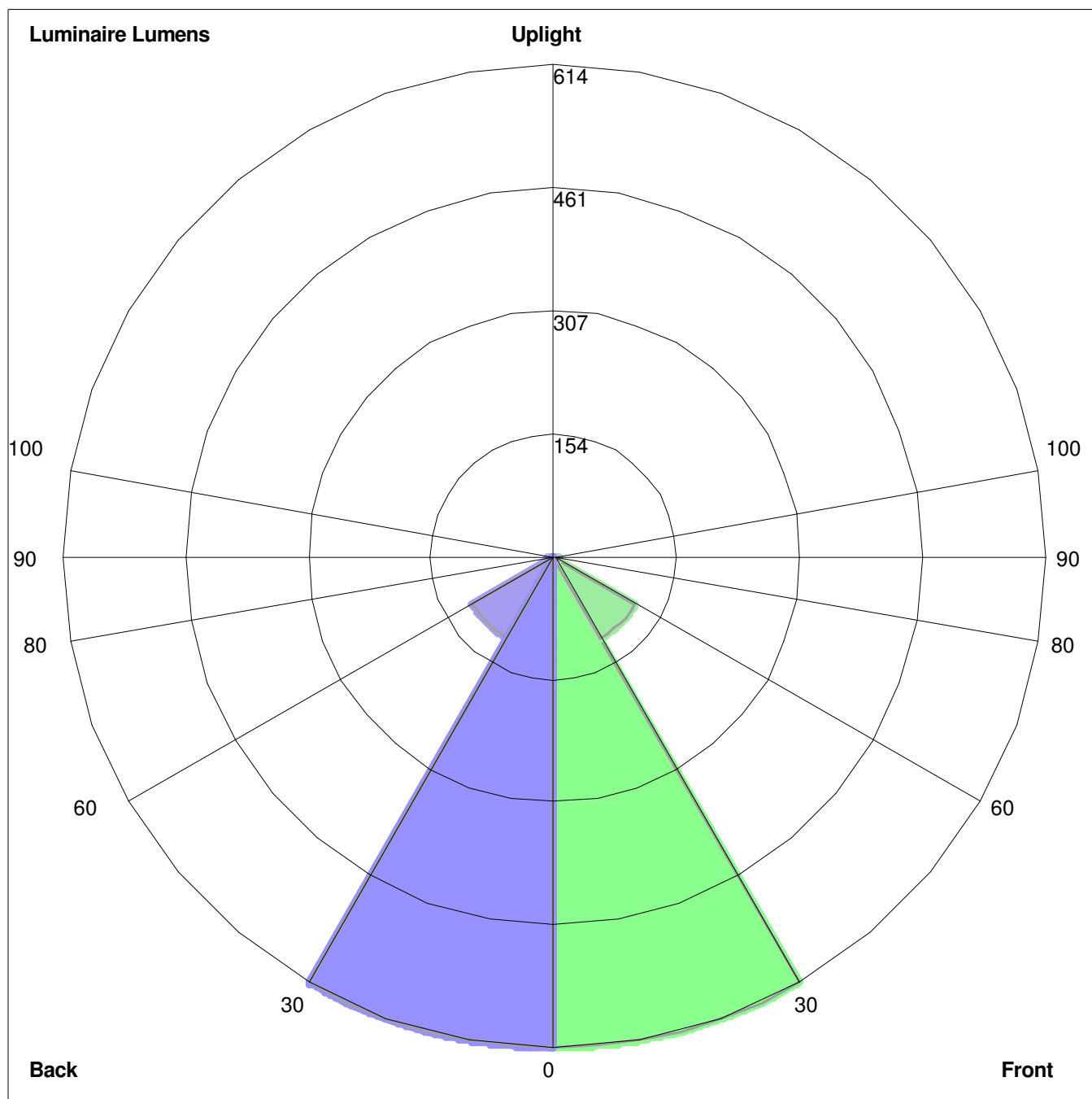


Maximum Candela = 2809.481 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=614.1, Medium=117.1, High=6.6, Very High=0.3
Back: Low=614.1, Medium=117.1, High=6.6, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0