

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-935-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-L15-935-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	1517
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1912.025
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1912.025
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.238 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.083 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	587.1	N.A.	38.7
FM - Front-Medium (30-60)	163.9	N.A.	10.8
FH - Front-High (60-80)	7.0	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	587.1	N.A.	38.7
BM - Back-Medium (30-60)	163.9	N.A.	10.8
BH - Back-High (60-80)	7.0	N.A.	0.5
BVH - Back-Very High (80-90)	0.4	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	1517.0	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-W-XXX_.IES_.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	1908.851	1908.851	1908.851	1908.851	1908.851
1	1905.801	1905.710	1906.010	1908.301	1910.478
2	1907.456	1906.889	1904.996	1908.715	1912.025
3	1905.665	1903.272	1905.030	1903.850	1907.944
4	1902.819	1900.897	1900.075	1902.280	1906.147
5	1900.251	1899.480	1897.762	1899.315	1901.628
6	1894.870	1895.874	1891.333	1894.819	1892.881
7	1887.285	1890.426	1886.866	1886.832	1884.689
8	1880.182	1879.535	1878.050	1878.328	1878.810
9	1871.077	1868.900	1867.131	1868.072	1867.358
10	1853.848	1854.398	1853.275	1852.164	1851.490
11	1832.634	1834.272	1832.010	1832.923	1830.650
12	1807.865	1806.227	1805.552	1808.296	1807.219
13	1775.596	1775.074	1776.577	1779.666	1779.479
14	1742.737	1740.016	1740.923	1742.187	1745.725
15	1701.783	1700.377	1698.172	1703.223	1701.318
16	1658.056	1653.952	1652.183	1655.811	1658.328
17	1609.477	1604.760	1605.066	1604.851	1610.526
18	1556.396	1553.964	1554.378	1551.152	1557.326
19	1500.413	1498.360	1498.134	1498.638	1502.164
20	1443.550	1443.318	1441.850	1442.615	1447.360
21	1388.610	1386.189	1385.554	1387.471	1389.035
22	1328.596	1331.062	1329.480	1331.073	1332.973
23	1273.429	1272.539	1272.454	1273.780	1278.299
24	1215.733	1214.645	1215.881	1218.642	1220.235
25	1157.471	1157.114	1158.180	1161.666	1162.239
26	1097.717	1098.007	1100.569	1103.404	1103.115
27	1032.006	1033.678	1039.461	1042.017	1039.455
28	964.083	964.446	972.468	975.109	971.215
29	890.837	892.946	900.021	901.784	899.176
30	813.265	814.977	822.591	824.343	820.805
31	729.468	733.442	738.341	741.703	740.348
32	645.660	650.111	653.280	657.124	656.007
33	560.934	563.655	568.191	571.881	571.836
34	476.202	481.032	484.179	489.479	491.243
35	397.270	402.502	404.112	409.311	412.322
36	326.252	330.141	331.739	335.345	340.646
37	262.603	265.648	267.212	270.438	276.113
38	211.405	210.447	213.599	216.972	219.988
39	164.980	167.673	168.432	171.754	175.757
40	129.723	132.416	134.338	137.115	140.749
41	102.414	104.608	106.865	112.103	116.769
42	82.215	83.819	87.601	90.413	92.896
43	68.790	69.391	71.869	75.077	77.067
44	56.817	57.934	60.309	63.779	64.907
45	48.676	49.645	51.715	54.288	55.434
46	42.593	43.386	45.178	47.196	47.962
47	37.899	38.641	40.047	41.680	42.349
48	34.355	34.956	36.039	37.400	38.108
49	31.538	32.042	32.955	34.015	34.679
50	29.236	29.661	30.444	31.311	31.850
51	27.292	27.643	28.357	29.077	29.531
52	25.472	25.795	26.402	27.002	27.365

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-W-XXX_.IES_.IES

CANDELA TABULATION - (Cont.)

53	23.822	24.094	24.599	25.086	25.381
54	22.303	22.552	22.977	23.351	23.601
55	20.931	21.118	21.509	21.804	21.991
56	19.598	19.780	20.109	20.358	20.472
57	18.340	18.482	18.748	18.969	19.043
58	17.110	17.229	17.450	17.637	17.699
59	15.913	16.004	16.174	16.350	16.407
60	14.734	14.814	14.961	15.097	15.159
61	13.629	13.691	13.805	13.918	13.952
62	12.597	12.631	12.710	12.807	12.835
63	11.622	11.650	11.701	11.775	11.815
64	10.720	10.743	10.777	10.840	10.879
65	9.910	9.932	9.938	9.983	10.046
66	9.150	9.173	9.167	9.207	9.246
67	8.464	8.481	8.464	8.492	8.526
68	7.829	7.835	7.824	7.824	7.863
69	7.234	7.228	7.211	7.200	7.228
70	6.667	6.656	6.622	6.599	6.622
71	6.117	6.094	6.049	6.015	6.026
72	5.573	5.550	5.499	5.448	5.471
73	5.046	5.006	4.938	4.887	4.915
74	4.501	4.456	4.388	4.331	4.365
75	3.917	3.883	3.810	3.770	3.793
76	3.277	3.248	3.169	3.152	3.163
77	2.551	2.540	2.460	2.449	2.460
78	1.723	1.723	1.661	1.627	1.638
79	1.196	1.208	1.179	1.174	1.157
80	1.083	1.077	1.071	1.066	1.060
81	1.009	1.009	1.009	1.003	1.003
82	0.952	0.947	0.952	0.947	0.947
83	0.884	0.884	0.890	0.884	0.884
84	0.816	0.811	0.822	0.811	0.811
85	0.737	0.731	0.737	0.731	0.731
86	0.646	0.646	0.646	0.641	0.641
87	0.544	0.539	0.544	0.539	0.533
88	0.431	0.425	0.431	0.425	0.420
89	0.312	0.306	0.306	0.295	0.295
90	0.238	0.227	0.227	0.210	0.198
91	0.221	0.210	0.215	0.204	0.198
92	0.221	0.210	0.215	0.198	0.198
93	0.221	0.215	0.215	0.204	0.198
94	0.221	0.215	0.215	0.204	0.204
95	0.227	0.215	0.215	0.204	0.204
96	0.227	0.215	0.215	0.204	0.204
97	0.227	0.221	0.221	0.210	0.210
98	0.227	0.221	0.227	0.210	0.215
99	0.232	0.227	0.227	0.215	0.215
100	0.232	0.227	0.232	0.215	0.221
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

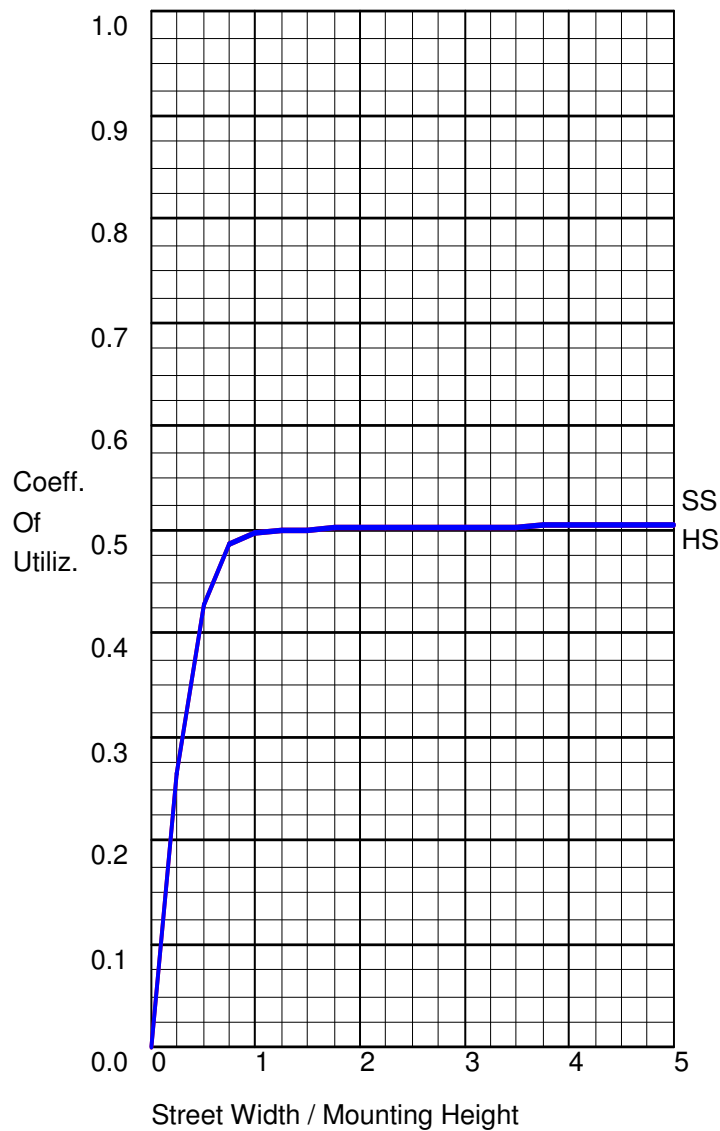
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-935-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-935-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

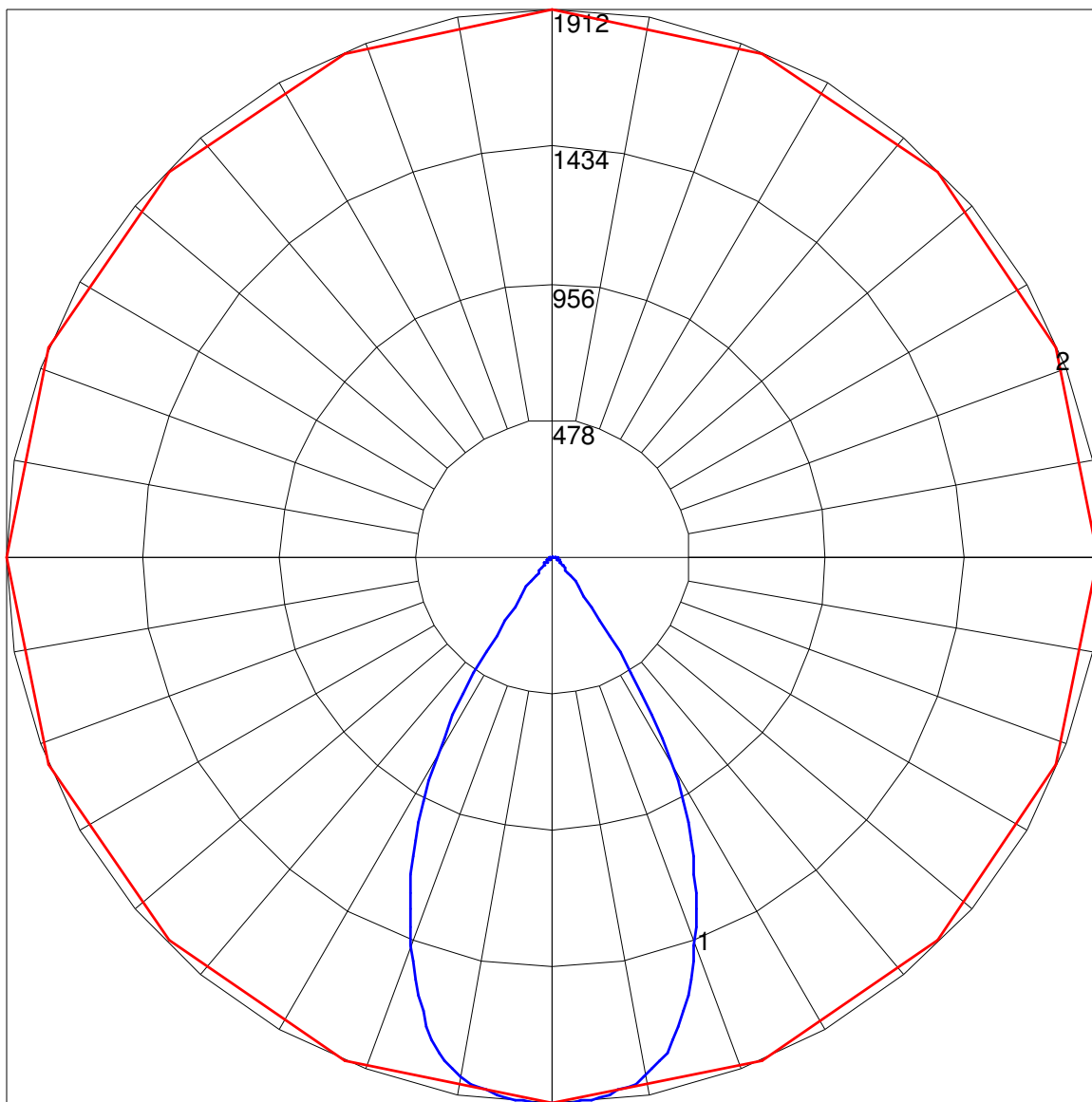
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

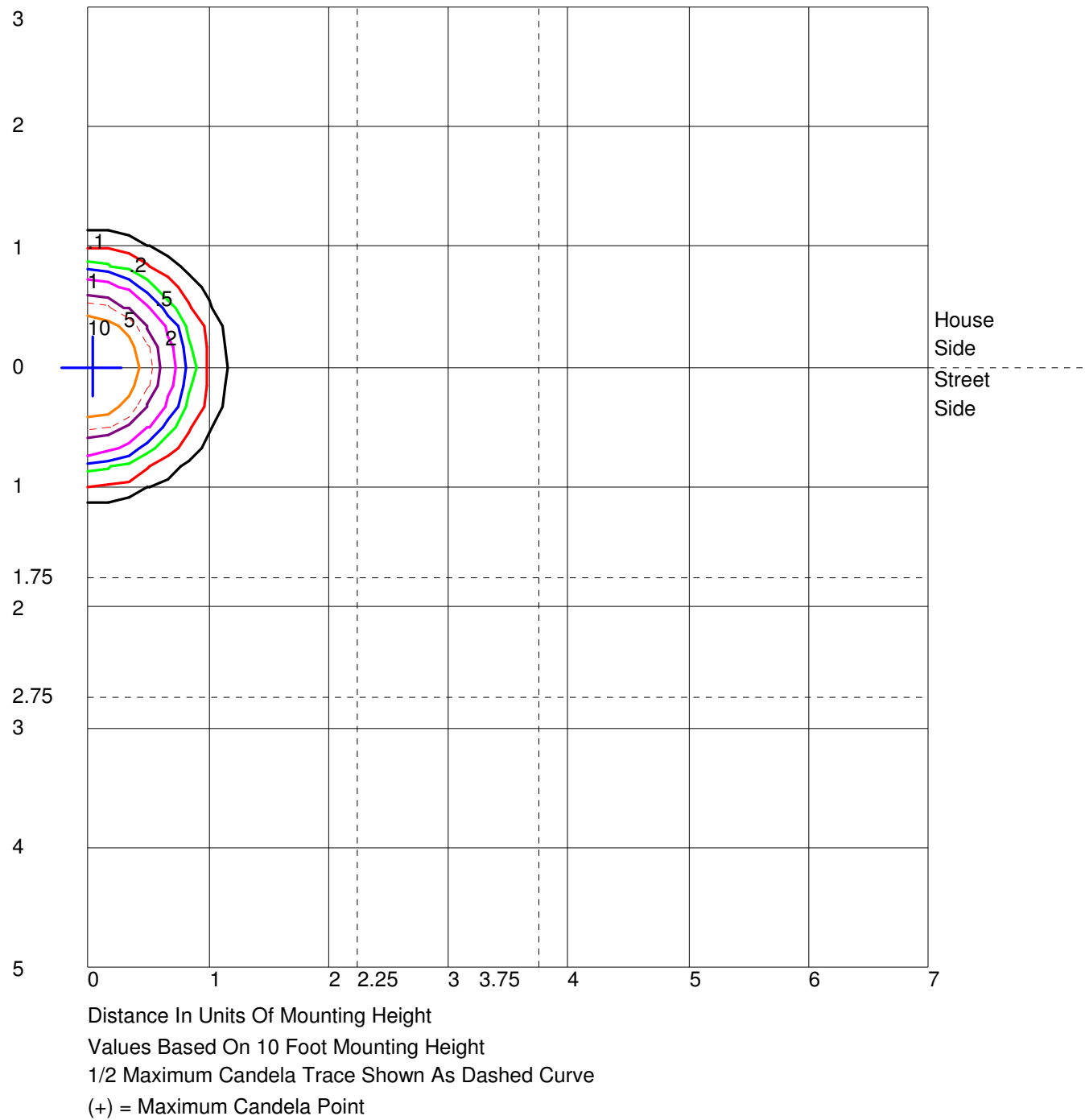
	Lumens	Percent Of Luminaire
Downward Street Side	758.4	50.0
Downward House Side	758.4	50.0
Downward Total	1516.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1517.0	100.0

POLAR GRAPH

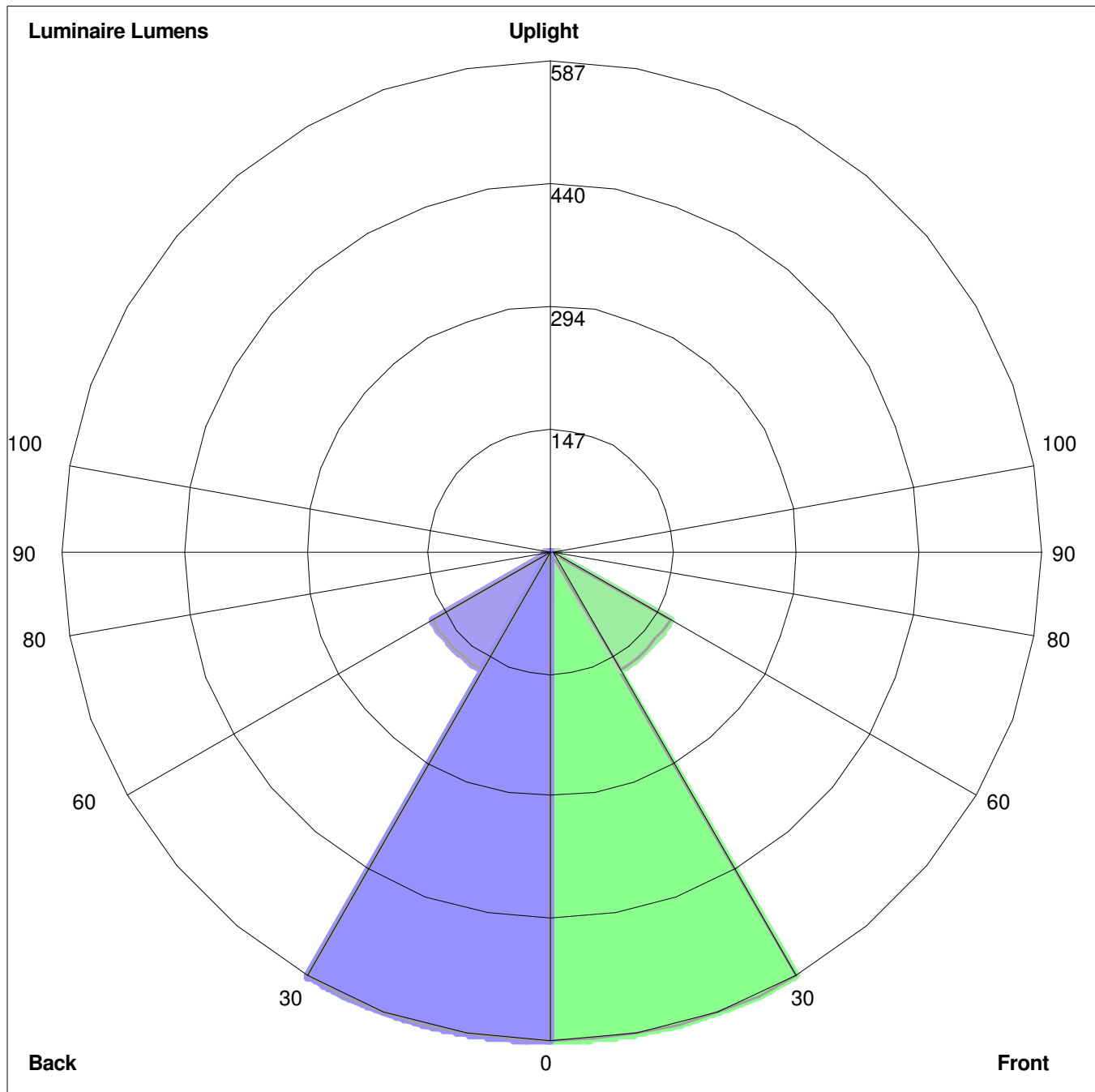


Maximum Candela = 1912.025 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=587.1, Medium=163.9, High=7.0, Very High=0.4
Back: Low=587.1, Medium=163.9, High=7.0, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0