

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-927-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-L15-927-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	1470
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1852.891
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1852.891
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.231 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.049 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-927-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	568.9	N.A.	38.7
FM - Front-Medium (30-60)	158.8	N.A.	10.8
FH - Front-High (60-80)	6.8	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	568.9	N.A.	38.7
BM - Back-Medium (30-60)	158.8	N.A.	10.8
BH - Back-High (60-80)	6.8	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	1470.0	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	1849.814	1849.814	1849.814	1849.814	1849.814
1	1846.859	1846.771	1847.062	1849.281	1851.391
2	1848.463	1847.913	1846.078	1849.682	1852.891
3	1846.727	1844.408	1846.111	1844.969	1848.935
4	1843.969	1842.106	1841.310	1843.447	1847.194
5	1841.480	1840.733	1839.068	1840.574	1842.815
6	1836.266	1837.239	1832.838	1836.217	1834.338
7	1828.916	1831.959	1828.509	1828.476	1826.399
8	1822.032	1821.405	1819.966	1820.235	1820.702
9	1813.209	1811.099	1809.385	1810.297	1809.605
10	1796.513	1797.046	1795.958	1794.881	1794.227
11	1775.955	1777.542	1775.350	1776.235	1774.032
12	1751.952	1750.364	1749.710	1752.369	1751.326
13	1720.681	1720.175	1721.631	1724.625	1724.444
14	1688.838	1686.201	1687.080	1688.305	1691.734
15	1649.151	1647.788	1645.651	1650.546	1648.700
16	1606.776	1602.799	1601.085	1604.601	1607.040
17	1559.699	1555.128	1555.425	1555.216	1560.716
18	1508.260	1505.903	1506.304	1503.178	1509.161
19	1454.008	1452.019	1451.800	1452.289	1455.706
20	1398.905	1398.679	1397.257	1397.998	1402.597
21	1345.664	1343.318	1342.702	1344.559	1346.076
22	1287.505	1289.895	1288.362	1289.906	1291.747
23	1234.045	1233.182	1233.100	1234.385	1238.764
24	1178.133	1177.079	1178.276	1180.952	1182.496
25	1121.673	1121.327	1122.360	1125.738	1126.293
26	1063.767	1064.048	1066.531	1069.278	1068.998
27	1000.088	1001.709	1007.312	1009.790	1007.307
28	934.266	934.618	942.391	944.952	941.177
29	863.285	865.329	872.185	873.894	871.367
30	788.112	789.772	797.150	798.847	795.419
31	706.908	710.759	715.505	718.763	717.450
32	625.692	630.004	633.075	636.800	635.718
33	543.586	546.223	550.618	554.194	554.150
34	461.474	466.155	469.204	474.341	476.050
35	384.983	390.054	391.614	396.652	399.569
36	316.161	319.930	321.479	324.974	330.110
37	254.482	257.432	258.948	262.074	267.574
38	204.866	203.938	206.993	210.261	213.184
39	159.877	162.487	163.223	166.442	170.321
40	125.711	128.320	130.183	132.875	136.396
41	99.247	101.373	103.559	108.636	113.157
42	79.672	81.227	84.891	87.616	90.023
43	66.663	67.245	69.646	72.755	74.684
44	55.060	56.142	58.444	61.806	62.899
45	47.170	48.110	50.115	52.609	53.719
46	41.275	42.045	43.781	45.736	46.478
47	36.727	37.446	38.809	40.391	41.039
48	33.293	33.875	34.925	36.243	36.930
49	30.562	31.051	31.936	32.963	33.606
50	28.332	28.744	29.502	30.343	30.865
51	26.448	26.788	27.480	28.178	28.618
52	24.684	24.997	25.585	26.167	26.519

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-927-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	23.085	23.349	23.838	24.310	24.596
54	21.613	21.855	22.267	22.629	22.871
55	20.283	20.465	20.844	21.129	21.311
56	18.992	19.168	19.487	19.728	19.838
57	17.773	17.910	18.168	18.382	18.454
58	16.581	16.696	16.910	17.091	17.152
59	15.421	15.509	15.674	15.844	15.899
60	14.279	14.355	14.498	14.630	14.691
61	13.207	13.268	13.378	13.487	13.520
62	12.207	12.240	12.317	12.411	12.438
63	11.262	11.290	11.339	11.411	11.449
64	10.389	10.411	10.444	10.504	10.543
65	9.603	9.625	9.631	9.675	9.735
66	8.867	8.889	8.884	8.922	8.961
67	8.202	8.219	8.202	8.230	8.263
68	7.587	7.593	7.582	7.582	7.620
69	7.010	7.005	6.988	6.977	7.005
70	6.461	6.450	6.417	6.395	6.417
71	5.928	5.906	5.862	5.829	5.840
72	5.400	5.379	5.329	5.280	5.302
73	4.890	4.851	4.785	4.736	4.763
74	4.362	4.318	4.252	4.197	4.230
75	3.796	3.763	3.692	3.653	3.675
76	3.175	3.148	3.071	3.055	3.066
77	2.472	2.461	2.384	2.373	2.384
78	1.670	1.670	1.610	1.577	1.588
79	1.159	1.170	1.143	1.137	1.121
80	1.049	1.044	1.038	1.033	1.027
81	0.978	0.978	0.978	0.972	0.972
82	0.923	0.917	0.923	0.917	0.917
83	0.857	0.857	0.863	0.857	0.857
84	0.791	0.786	0.797	0.786	0.786
85	0.714	0.709	0.714	0.709	0.709
86	0.626	0.626	0.626	0.621	0.621
87	0.527	0.522	0.527	0.522	0.516
88	0.418	0.412	0.418	0.412	0.407
89	0.302	0.297	0.297	0.286	0.286
90	0.231	0.220	0.220	0.203	0.192
91	0.214	0.203	0.209	0.198	0.192
92	0.214	0.203	0.209	0.192	0.192
93	0.214	0.209	0.209	0.198	0.192
94	0.214	0.209	0.209	0.198	0.198
95	0.220	0.209	0.209	0.198	0.198
96	0.220	0.209	0.209	0.198	0.198
97	0.220	0.214	0.214	0.203	0.203
98	0.220	0.214	0.220	0.203	0.209
99	0.225	0.220	0.220	0.209	0.209
100	0.225	0.220	0.225	0.209	0.214
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

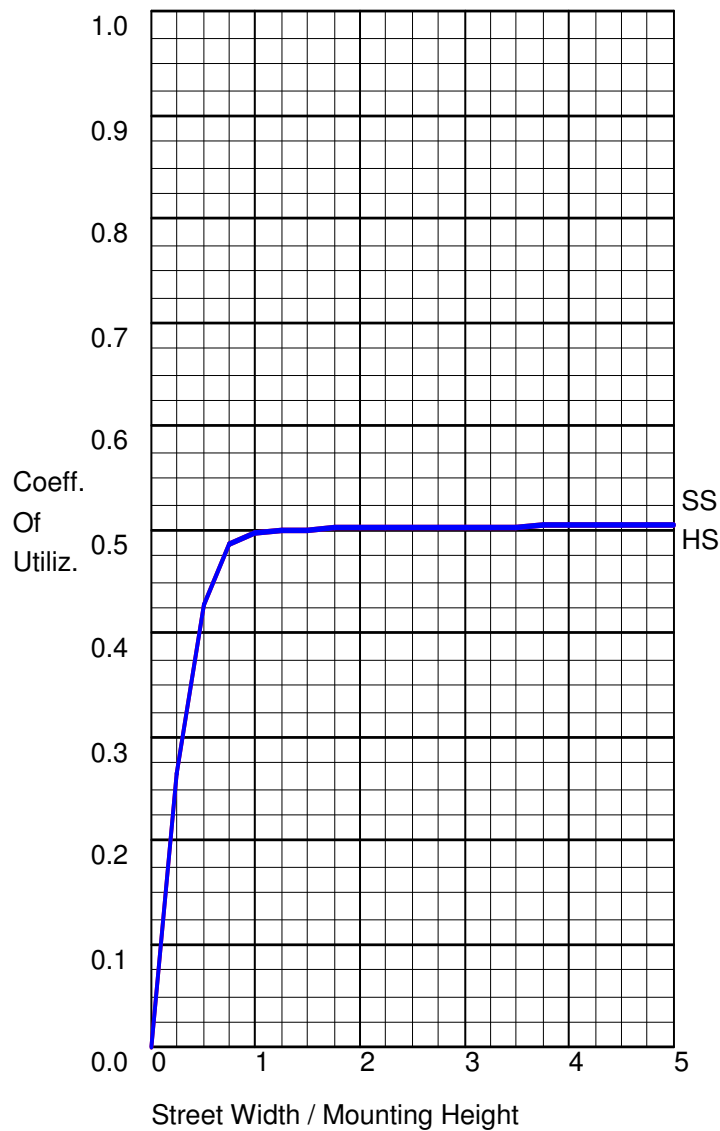
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-927-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-927-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

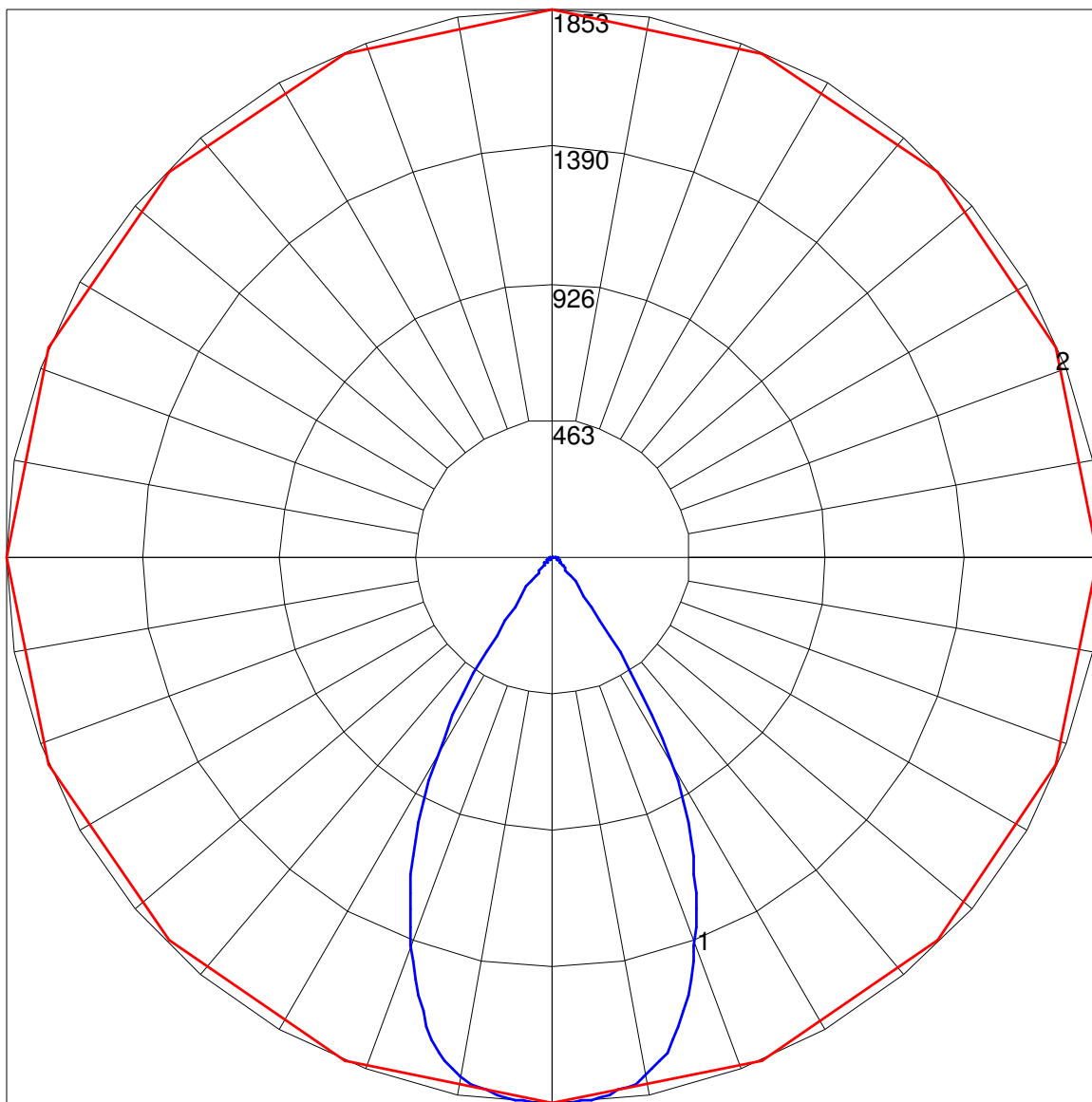
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

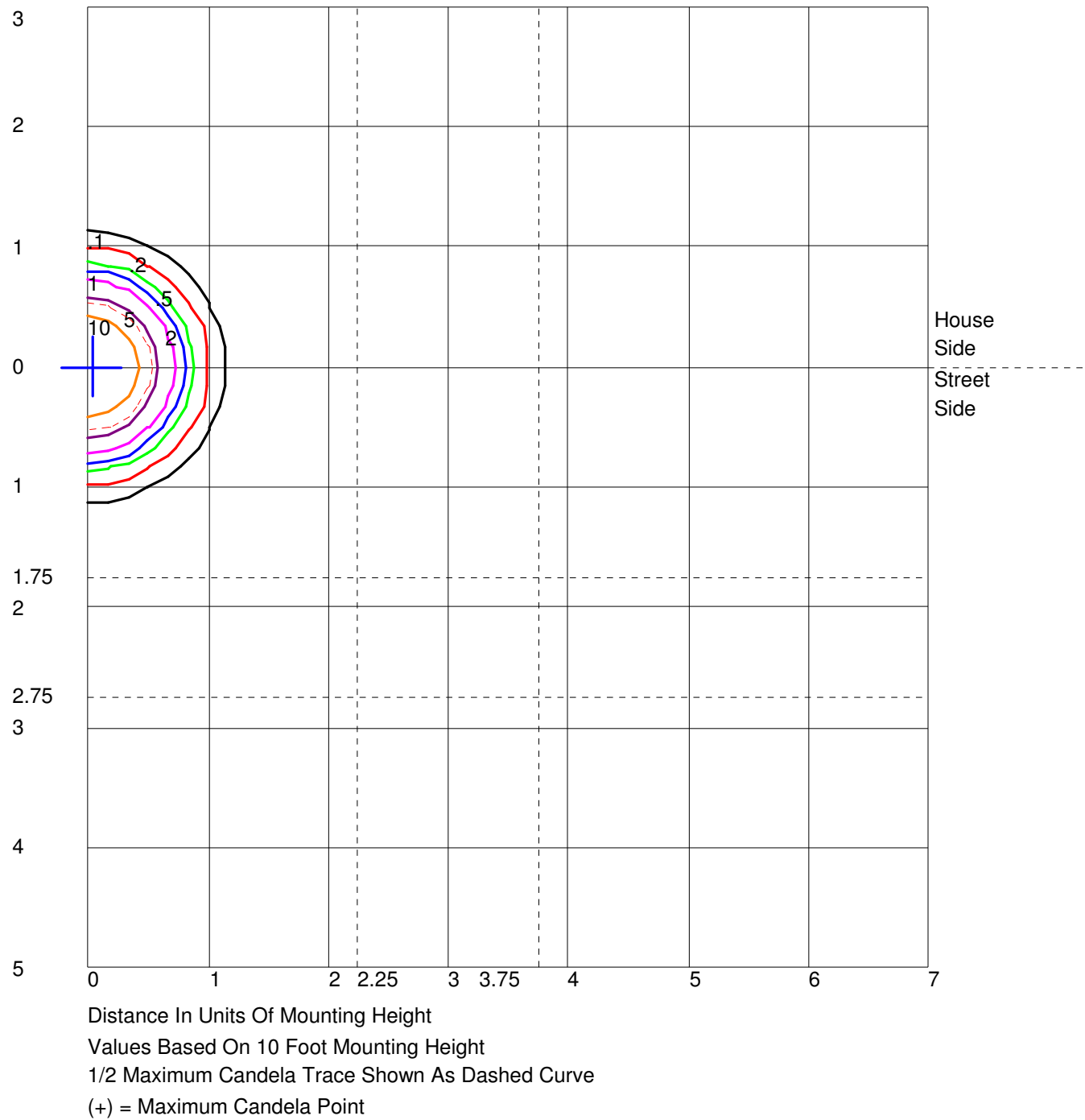
	Lumens	Percent Of Luminaire
Downward Street Side	734.9	50.0
Downward House Side	734.9	50.0
Downward Total	1469.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1470.0	100.0

POLAR GRAPH

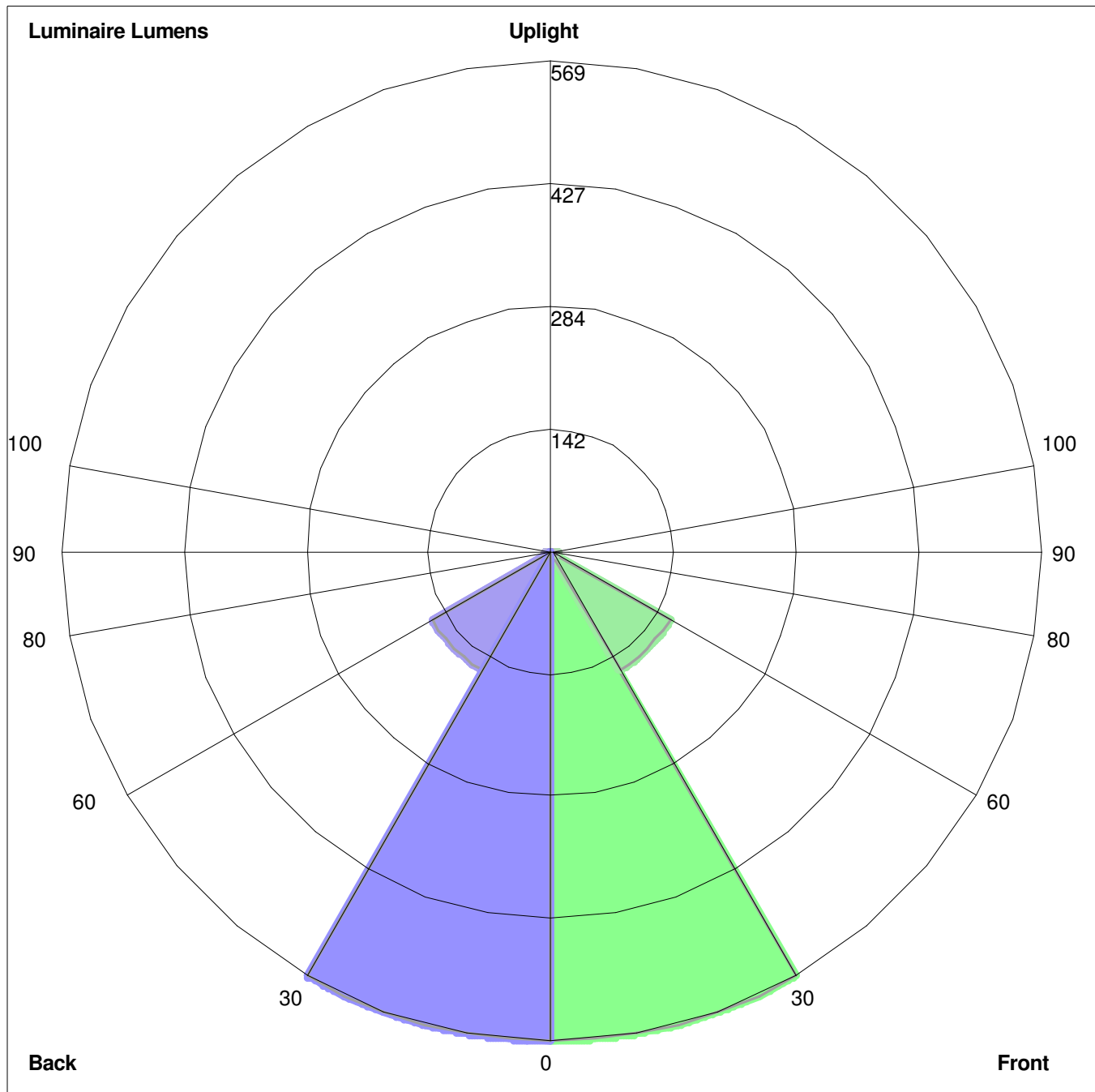


Maximum Candela = 1852.891 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=568.9, Medium=158.8, High=6.8, Very High=0.4
Back: Low=568.9, Medium=158.8, High=6.8, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0