

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-827-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-L15-827-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	1533
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1931.737
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1931.737
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.241 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.094 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	593.2	N.A.	38.7
FM - Front-Medium (30-60)	165.6	N.A.	10.8
FH - Front-High (60-80)	7.1	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	593.2	N.A.	38.7
BM - Back-Medium (30-60)	165.6	N.A.	10.8
BH - Back-High (60-80)	7.1	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	1532.8	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-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	1928.530	1928.530	1928.530	1928.530	1928.530
1	1925.448	1925.357	1925.660	1927.974	1930.174
2	1927.121	1926.548	1924.635	1928.392	1931.737
3	1925.311	1922.894	1924.669	1923.478	1927.613
4	1922.436	1920.494	1919.663	1921.891	1925.798
5	1919.841	1919.062	1917.326	1918.896	1921.233
6	1914.405	1915.419	1910.831	1914.354	1912.395
7	1906.742	1909.915	1906.318	1906.284	1904.119
8	1899.565	1898.912	1897.411	1897.692	1898.179
9	1890.366	1888.167	1886.380	1887.331	1886.609
10	1872.960	1873.516	1872.382	1871.259	1870.577
11	1851.527	1853.182	1850.897	1851.819	1849.523
12	1826.503	1824.848	1824.166	1826.938	1825.850
13	1793.901	1793.374	1794.892	1798.014	1797.825
14	1760.704	1757.955	1758.871	1760.148	1763.722
15	1719.327	1717.907	1715.679	1720.782	1718.858
16	1675.150	1671.003	1669.216	1672.882	1675.425
17	1626.070	1621.304	1621.613	1621.396	1627.129
18	1572.442	1569.984	1570.402	1567.143	1573.381
19	1515.881	1513.808	1513.578	1514.088	1517.651
20	1458.433	1458.198	1456.714	1457.488	1462.282
21	1402.926	1400.480	1399.839	1401.775	1403.355
22	1342.293	1344.784	1343.186	1344.796	1346.715
23	1286.557	1285.658	1285.572	1286.912	1291.477
24	1228.267	1227.167	1228.416	1231.205	1232.815
25	1169.404	1169.043	1170.120	1173.642	1174.221
26	1109.034	1109.326	1111.915	1114.779	1114.487
27	1042.645	1044.335	1050.177	1052.760	1050.171
28	974.022	974.389	982.493	985.162	981.227
29	900.021	902.151	909.299	911.081	908.446
30	821.649	823.379	831.071	832.841	829.267
31	736.989	741.004	745.952	749.349	747.980
32	652.317	656.813	660.015	663.898	662.770
33	566.717	569.466	574.048	577.777	577.731
34	481.111	485.991	489.170	494.526	496.307
35	401.365	406.652	408.279	413.531	416.572
36	329.615	333.544	335.159	338.802	344.158
37	265.311	268.386	269.967	273.226	278.960
38	213.584	212.616	215.801	219.209	222.256
39	166.680	169.401	170.169	173.525	177.569
40	131.060	133.781	135.722	138.529	142.200
41	103.470	105.687	107.966	113.259	117.972
42	83.062	84.683	88.504	91.345	93.853
43	69.499	70.106	72.609	75.851	77.862
44	57.403	58.531	60.931	64.436	65.576
45	49.178	50.157	52.248	54.848	56.005
46	43.032	43.834	45.644	47.683	48.456
47	38.289	39.040	40.460	42.110	42.786
48	34.710	35.317	36.411	37.785	38.501
49	31.863	32.373	33.295	34.366	35.036
50	29.538	29.967	30.758	31.634	32.178
51	27.573	27.928	28.650	29.377	29.835
52	25.734	26.061	26.674	27.281	27.647

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	24.068	24.343	24.852	25.345	25.643
54	22.533	22.785	23.214	23.592	23.844
55	21.146	21.336	21.731	22.029	22.218
56	19.801	19.984	20.316	20.568	20.683
57	18.529	18.672	18.941	19.165	19.239
58	17.286	17.406	17.630	17.819	17.882
59	16.078	16.169	16.341	16.519	16.576
60	14.886	14.966	15.115	15.253	15.316
61	13.769	13.832	13.947	14.061	14.096
62	12.727	12.761	12.841	12.939	12.967
63	11.742	11.770	11.822	11.896	11.936
64	10.831	10.854	10.888	10.951	10.991
65	10.012	10.035	10.041	10.086	10.149
66	9.244	9.267	9.262	9.302	9.342
67	8.551	8.569	8.551	8.580	8.614
68	7.910	7.916	7.904	7.904	7.944
69	7.308	7.303	7.286	7.274	7.303
70	6.736	6.724	6.690	6.667	6.690
71	6.180	6.157	6.111	6.077	6.088
72	5.630	5.607	5.556	5.504	5.527
73	5.098	5.058	4.989	4.937	4.966
74	4.548	4.502	4.433	4.376	4.410
75	3.958	3.923	3.849	3.809	3.832
76	3.311	3.282	3.202	3.185	3.196
77	2.577	2.566	2.486	2.474	2.486
78	1.741	1.741	1.678	1.644	1.655
79	1.209	1.220	1.191	1.186	1.168
80	1.094	1.088	1.083	1.077	1.071
81	1.020	1.020	1.020	1.014	1.014
82	0.962	0.957	0.962	0.957	0.957
83	0.894	0.894	0.899	0.894	0.894
84	0.825	0.819	0.831	0.819	0.819
85	0.745	0.739	0.745	0.739	0.739
86	0.653	0.653	0.653	0.647	0.647
87	0.550	0.544	0.550	0.544	0.538
88	0.435	0.430	0.435	0.430	0.424
89	0.315	0.309	0.309	0.298	0.298
90	0.241	0.229	0.229	0.212	0.200
91	0.223	0.212	0.218	0.206	0.200
92	0.223	0.212	0.218	0.200	0.200
93	0.223	0.218	0.218	0.206	0.200
94	0.223	0.218	0.218	0.206	0.206
95	0.229	0.218	0.218	0.206	0.206
96	0.229	0.218	0.218	0.206	0.206
97	0.229	0.223	0.223	0.212	0.212
98	0.229	0.223	0.229	0.212	0.218
99	0.235	0.229	0.229	0.218	0.218
100	0.235	0.229	0.235	0.218	0.223
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

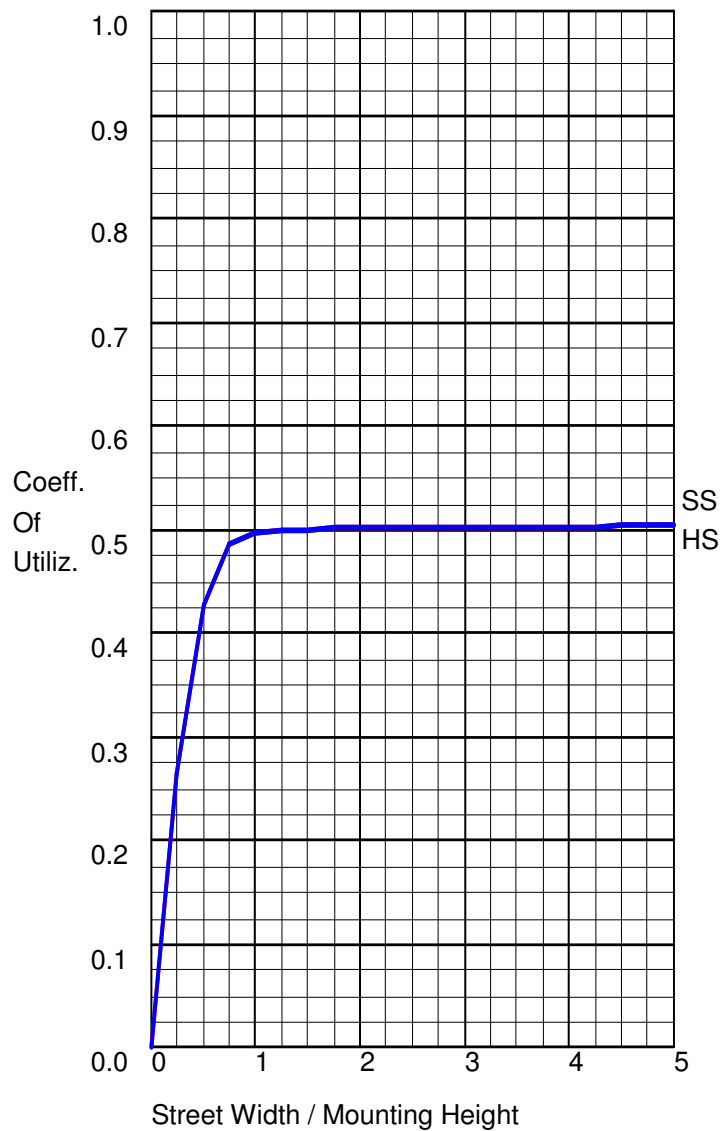
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-827-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

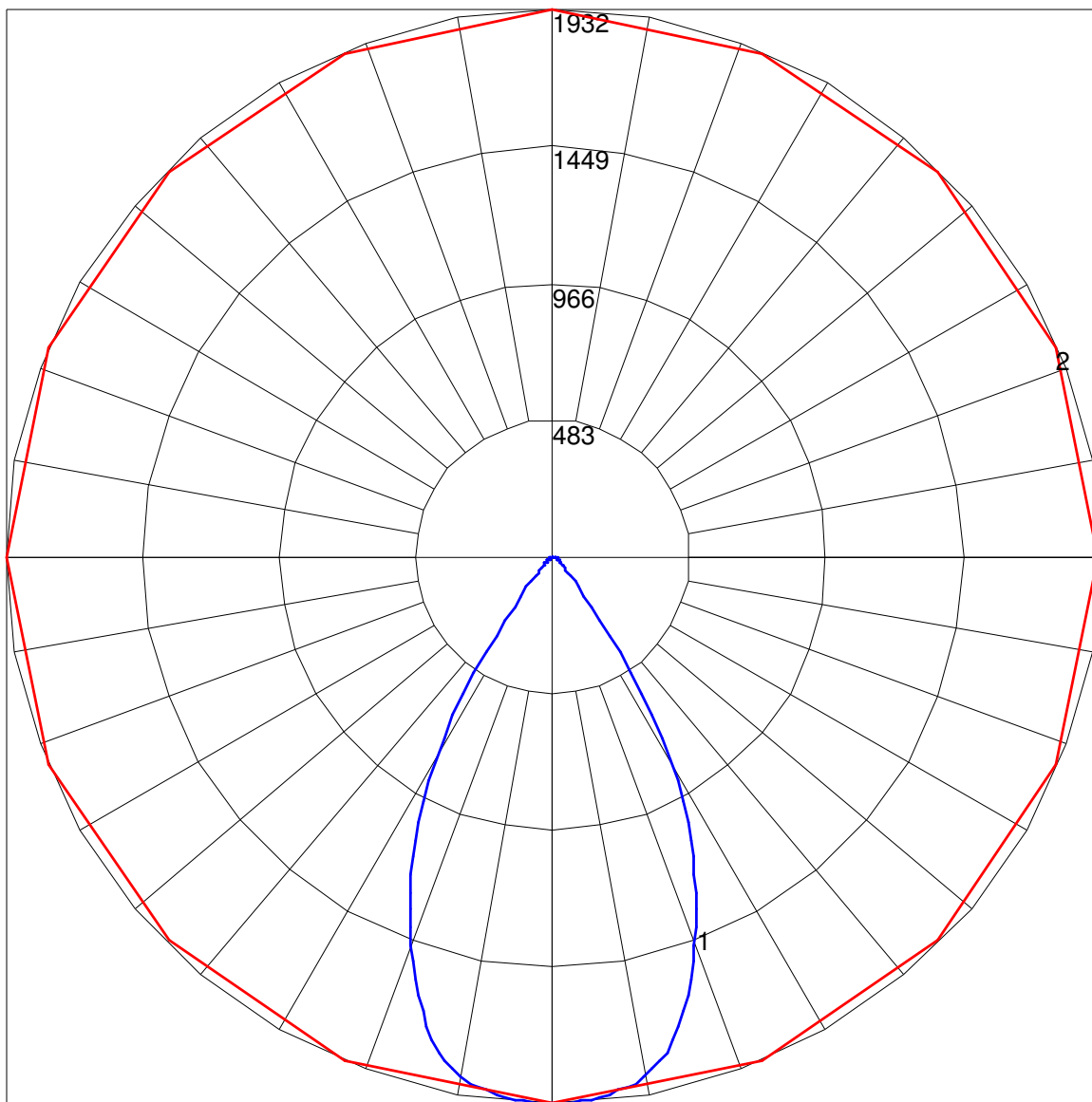
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

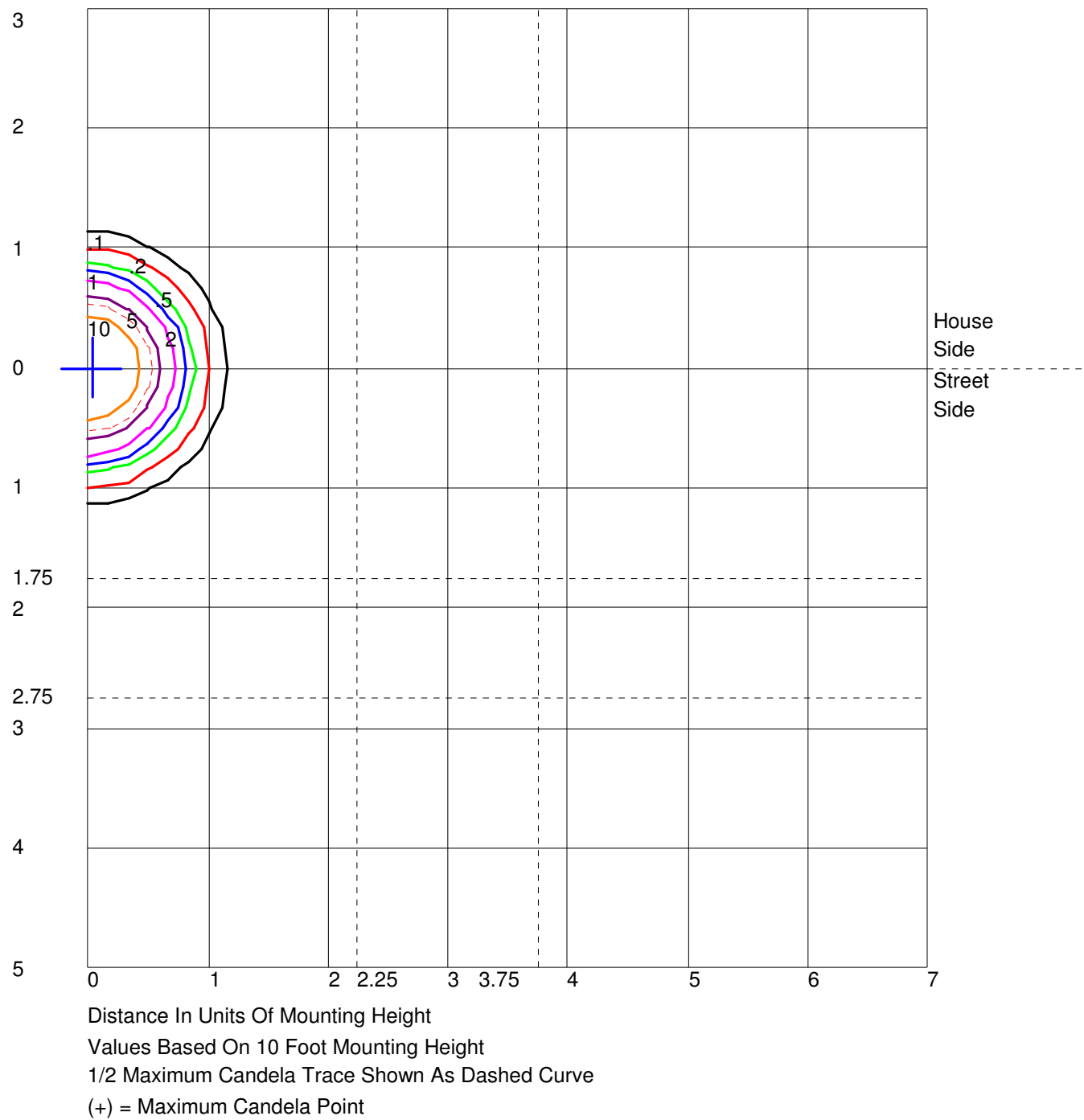
	Lumens	Percent Of Luminaire
Downward Street Side	766.2	50.0
Downward House Side	766.2	50.0
Downward Total	1532.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1532.6	100.0

POLAR GRAPH

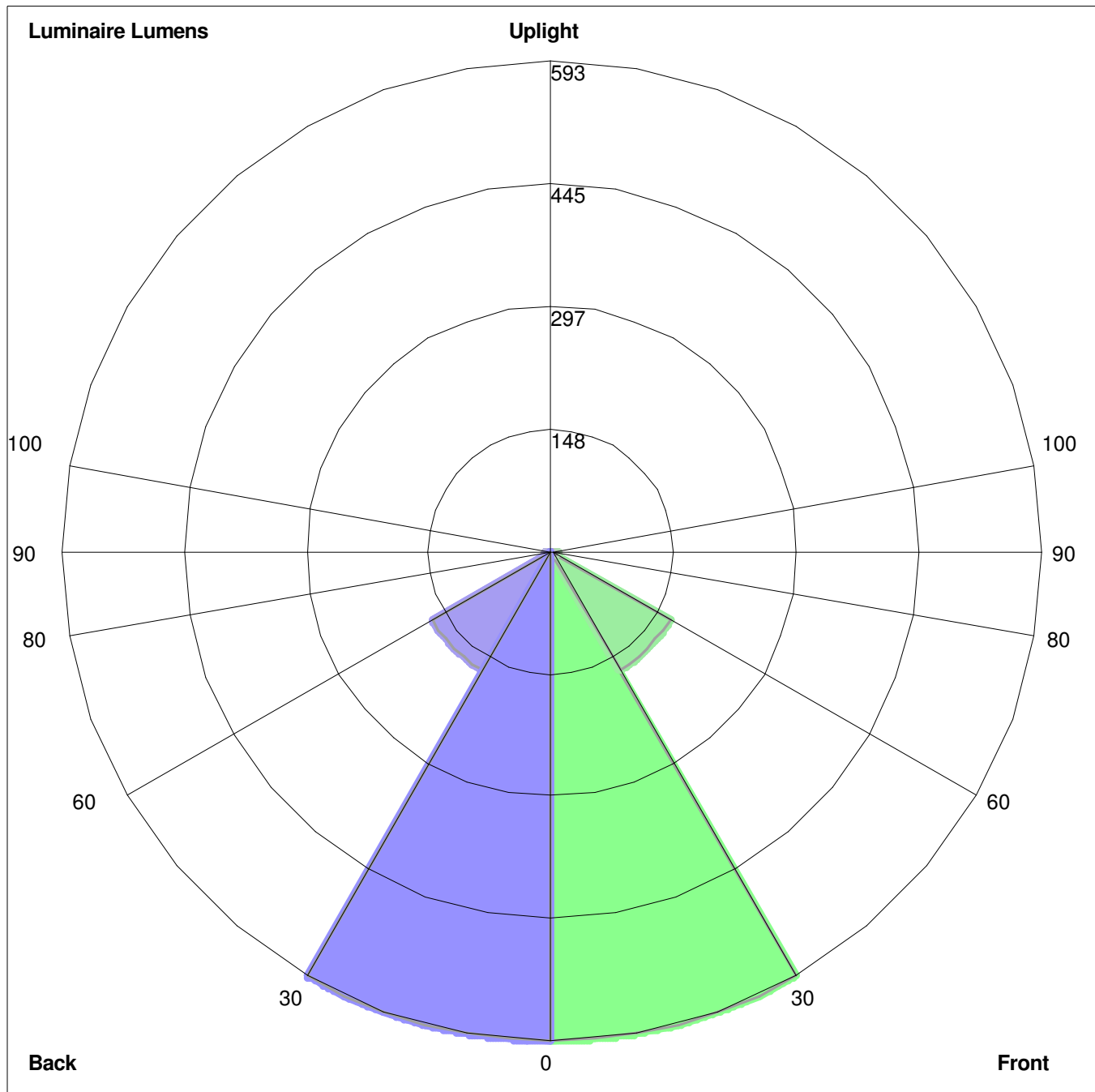


Maximum Candela = 1931.737 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=593.2, Medium=165.6, High=7.1, Very High=0.4
Back: Low=593.2, Medium=165.6, High=7.1, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0