

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-940-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-L10-940-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	1012
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1925.106
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1925.106
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.143 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.673 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	420.8	N.A.	41.6
FM - Front-Medium (30-60)	80.2	N.A.	7.9
FH - Front-High (60-80)	4.5	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	420.8	N.A.	41.6
BM - Back-Medium (30-60)	80.2	N.A.	7.9
BH - Back-High (60-80)	4.5	N.A.	0.4
BVH - Back-Very High (80-90)	0.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1011.5	N.A.	100.0
BUG Rating	B1-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	1925.106	1925.106	1925.106	1925.106	1925.106
1	1922.135	1922.591	1921.312	1920.874	1921.047
2	1914.051	1916.746	1914.713	1914.014	1911.625
3	1899.993	1901.478	1899.361	1899.905	1899.122
4	1880.454	1884.486	1880.829	1881.031	1880.277
5	1860.657	1858.962	1856.109	1855.455	1854.290
6	1829.824	1830.710	1826.964	1824.901	1824.618
7	1795.954	1794.811	1793.036	1789.267	1786.190
8	1752.938	1754.846	1750.314	1746.490	1745.512
9	1703.959	1705.639	1702.963	1700.118	1698.805
10	1648.904	1649.668	1648.422	1647.374	1644.713
11	1589.381	1589.183	1588.422	1586.639	1584.521
12	1523.715	1525.271	1521.021	1521.944	1522.326
13	1455.208	1455.318	1451.116	1455.535	1456.719
14	1381.958	1383.723	1382.172	1385.980	1387.366
15	1306.830	1308.922	1308.407	1313.620	1314.958
16	1233.316	1234.338	1234.345	1240.187	1244.234
17	1161.206	1162.375	1162.875	1167.669	1172.624
18	1087.397	1090.809	1091.537	1096.375	1102.896
19	1020.085	1021.187	1024.356	1029.084	1033.926
20	953.184	956.959	959.345	963.974	970.165
21	891.261	893.941	897.532	901.808	907.488
22	832.753	835.925	838.359	843.818	848.928
23	777.384	779.230	782.024	787.895	793.358
24	725.395	726.244	729.747	735.262	738.600
25	675.030	676.144	680.085	685.242	687.683
26	625.823	628.558	632.087	636.701	638.657
27	577.509	579.333	585.263	589.773	589.542
28	529.038	531.056	537.850	540.684	540.566
29	480.095	484.882	488.385	491.326	491.393
30	430.150	433.855	438.090	440.888	440.149
31	379.832	382.376	385.740	388.126	387.626
32	329.776	332.103	334.655	336.570	336.180
33	279.768	281.922	284.102	285.635	286.473
34	231.708	234.513	235.792	237.531	238.590
35	187.883	190.453	191.203	192.320	194.100
36	153.212	151.617	152.529	152.970	155.334
37	119.872	118.086	118.861	118.174	121.640
38	89.775	91.194	90.326	91.039	93.855
39	68.967	70.323	69.327	71.691	75.606
40	52.920	53.714	54.501	55.104	57.420
41	42.740	42.064	42.906	44.380	46.431
42	33.645	34.197	35.708	37.119	38.546
43	28.282	28.862	29.976	31.359	32.800
44	24.745	25.208	26.190	27.465	28.587
45	22.249	22.631	23.535	24.543	25.421
46	20.495	20.830	21.609	22.392	23.054
47	19.220	19.521	20.161	20.775	21.322
48	18.249	18.521	19.050	19.550	20.014
49	17.499	17.723	18.161	18.558	18.984
50	16.848	17.021	17.407	17.738	18.113
51	16.231	16.374	16.723	17.003	17.341
52	15.584	15.709	15.995	16.223	16.499

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	14.896	15.010	15.246	15.418	15.646
54	14.183	14.279	14.477	14.617	14.797
55	13.444	13.532	13.701	13.804	13.951
56	12.668	12.749	12.885	12.988	13.095
57	11.878	11.937	12.043	12.146	12.231
58	11.077	11.128	11.213	11.312	11.396
59	10.279	10.319	10.385	10.481	10.558
60	9.492	9.533	9.588	9.669	9.746
61	8.753	8.794	8.819	8.900	8.966
62	8.066	8.095	8.117	8.180	8.246
63	7.430	7.455	7.467	7.518	7.577
64	6.853	6.871	6.878	6.915	6.978
65	6.338	6.353	6.345	6.378	6.445
66	5.849	5.871	5.853	5.889	5.948
67	5.423	5.437	5.419	5.448	5.500
68	5.029	5.033	5.014	5.036	5.088
69	4.662	4.654	4.639	4.647	4.698
70	4.312	4.294	4.276	4.279	4.320
71	3.970	3.948	3.923	3.915	3.956
72	3.632	3.614	3.577	3.562	3.606
73	3.294	3.272	3.231	3.209	3.261
74	2.945	2.923	2.875	2.853	2.901
75	2.566	2.555	2.500	2.481	2.522
76	2.136	2.129	2.073	2.070	2.099
77	1.658	1.651	1.588	1.584	1.610
78	1.107	1.107	1.051	1.022	1.040
79	0.743	0.754	0.732	0.728	0.724
80	0.673	0.669	0.665	0.658	0.658
81	0.629	0.629	0.625	0.621	0.621
82	0.592	0.588	0.592	0.588	0.588
83	0.551	0.548	0.551	0.548	0.551
84	0.507	0.504	0.507	0.504	0.507
85	0.456	0.456	0.456	0.456	0.456
86	0.397	0.397	0.401	0.397	0.401
87	0.338	0.335	0.338	0.331	0.331
88	0.265	0.265	0.265	0.261	0.265
89	0.191	0.187	0.191	0.184	0.184
90	0.143	0.140	0.140	0.129	0.121
91	0.132	0.132	0.132	0.121	0.121
92	0.132	0.132	0.132	0.121	0.121
93	0.136	0.132	0.132	0.125	0.121
94	0.136	0.132	0.136	0.125	0.125
95	0.136	0.132	0.136	0.125	0.129
96	0.136	0.132	0.136	0.129	0.129
97	0.140	0.132	0.136	0.129	0.129
98	0.140	0.136	0.136	0.129	0.132
99	0.143	0.140	0.140	0.132	0.136
100	0.143	0.143	0.140	0.136	0.136
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

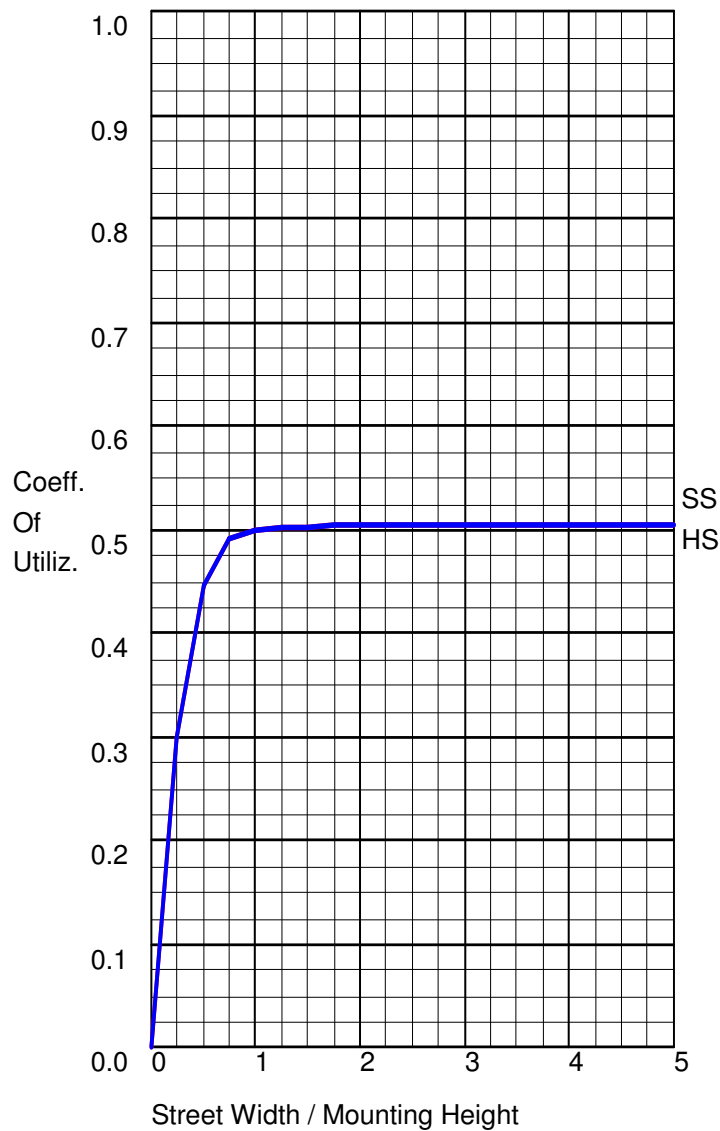
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L10-940-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

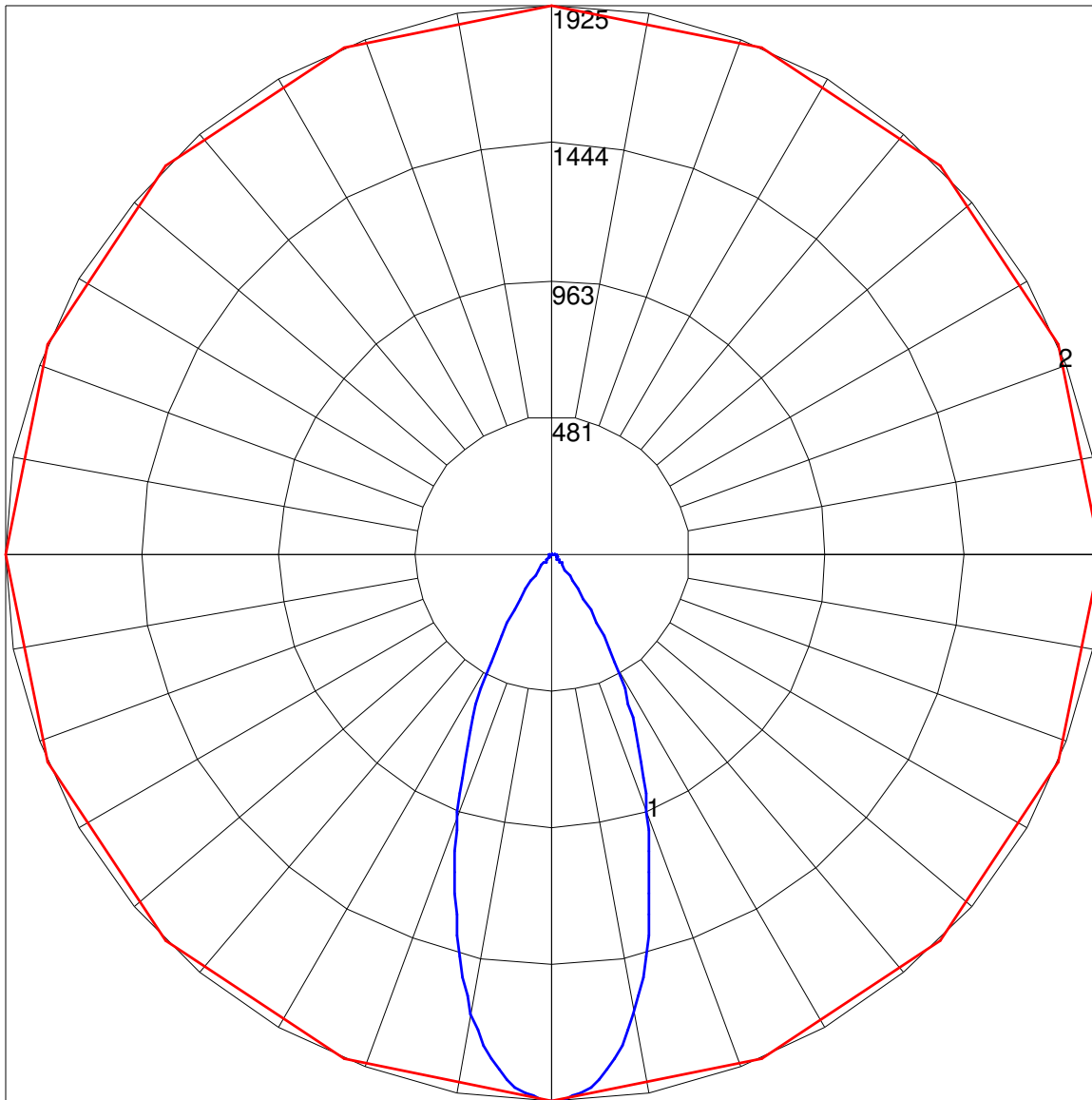
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

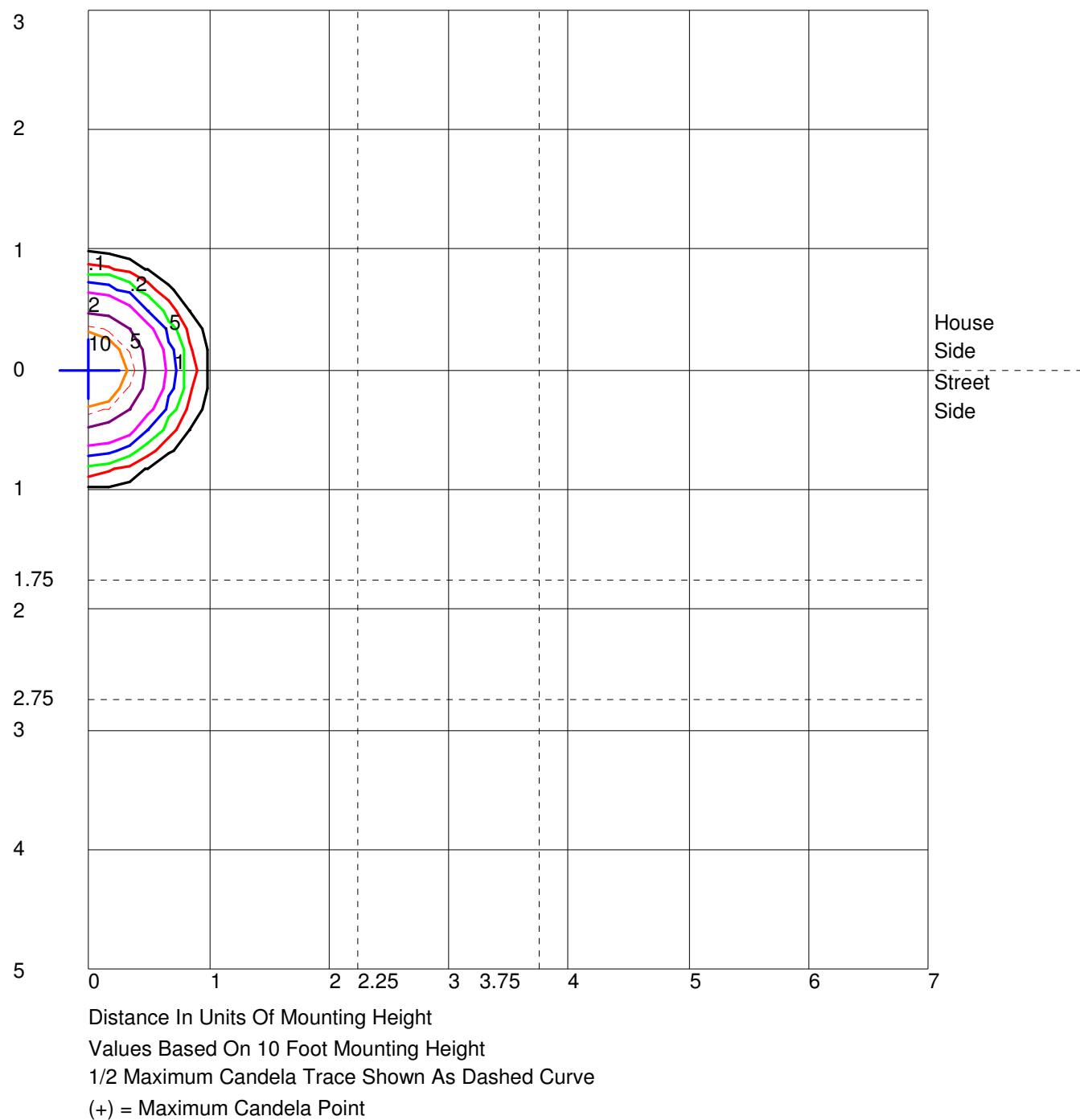
	Lumens	Percent Of Luminaire
Downward Street Side	505.8	50.0
Downward House Side	505.8	50.0
Downward Total	1011.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1011.8	100.0

POLAR GRAPH

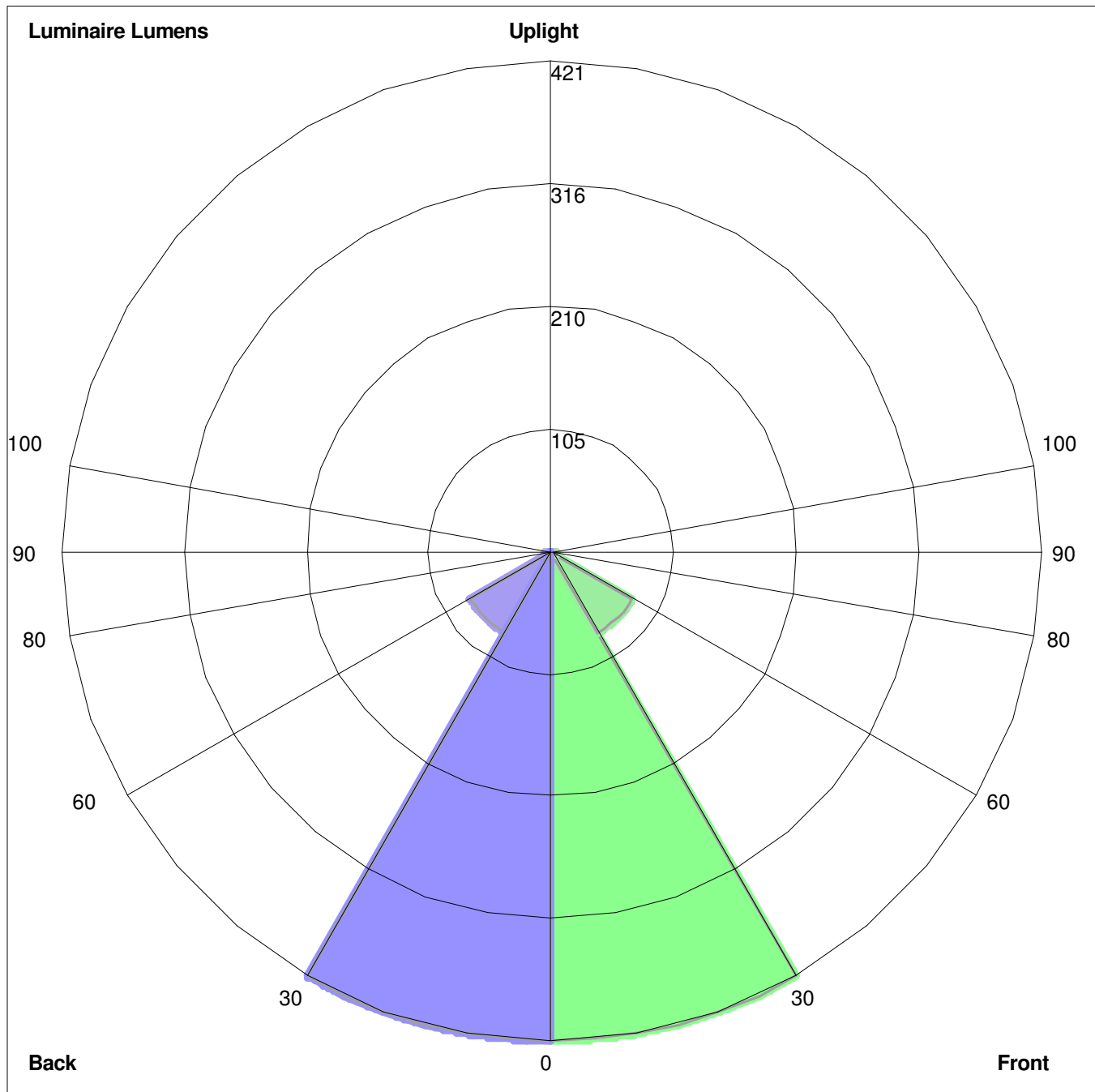


Maximum Candela = 1925.106 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=420.8, Medium=80.2, High=4.5, Very High=0.2  
Back: Low=420.8, Medium=80.2, High=4.5, Very High=0.2  
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0