

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-835-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-L10-835-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	1043
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1984.645
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1984.645
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.148 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.694 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-835-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	433.8	N.A.	41.6
FM - Front-Medium (30-60)	82.7	N.A.	7.9
FH - Front-High (60-80)	4.7	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	433.8	N.A.	41.6
BM - Back-Medium (30-60)	82.7	N.A.	7.9
BH - Back-High (60-80)	4.7	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	1042.9	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-835-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	1984.645	1984.645	1984.645	1984.645	1984.645
1	1981.582	1982.052	1980.734	1980.283	1980.461
2	1973.248	1976.026	1973.931	1973.210	1970.747
3	1958.755	1960.287	1958.104	1958.665	1957.857
4	1938.612	1942.769	1938.998	1939.207	1938.430
5	1918.203	1916.456	1913.515	1912.840	1911.639
6	1886.416	1887.330	1883.468	1881.342	1881.050
7	1851.499	1850.321	1848.490	1844.605	1841.433
8	1807.153	1809.120	1804.447	1800.505	1799.497
9	1756.659	1758.391	1755.632	1752.699	1751.346
10	1699.900	1700.689	1699.404	1698.324	1695.580
11	1638.537	1638.332	1637.548	1635.710	1633.527
12	1570.841	1572.444	1568.063	1569.014	1569.408
13	1500.214	1500.328	1495.996	1500.552	1501.772
14	1424.699	1426.519	1424.919	1428.846	1430.274
15	1347.247	1349.404	1348.873	1354.248	1355.627
16	1271.459	1272.513	1272.521	1278.543	1282.716
17	1197.119	1198.324	1198.840	1203.782	1208.891
18	1121.028	1124.545	1125.295	1130.283	1137.006
19	1051.634	1052.771	1056.037	1060.911	1065.903
20	982.664	986.556	989.016	993.787	1000.170
21	918.825	921.588	925.291	929.699	935.554
22	858.508	861.779	864.288	869.916	875.184
23	801.427	803.330	806.210	812.263	817.895
24	747.829	748.705	752.317	758.002	761.443
25	695.907	697.055	701.118	706.435	708.952
26	645.178	647.998	651.636	656.393	658.409
27	595.370	597.250	603.363	608.014	607.775
28	545.400	547.480	554.484	557.406	557.285
29	494.944	499.878	503.490	506.522	506.590
30	443.453	447.273	451.639	454.524	453.762
31	391.580	394.202	397.670	400.130	399.615
32	339.976	342.375	345.005	346.979	346.578
33	288.421	290.641	292.889	294.469	295.333
34	238.874	241.766	243.085	244.878	245.969
35	193.694	196.343	197.116	198.269	200.103
36	157.951	156.306	157.246	157.701	160.138
37	123.580	121.738	122.537	121.829	125.403
38	92.551	94.014	93.120	93.855	96.758
39	71.100	72.498	71.471	73.908	77.945
40	54.557	55.375	56.186	56.808	59.196
41	44.062	43.365	44.233	45.753	47.867
42	34.686	35.254	36.812	38.267	39.738
43	29.156	29.755	30.903	32.328	33.814
44	25.510	25.988	27.000	28.315	29.471
45	22.937	23.331	24.263	25.302	26.208
46	21.129	21.474	22.277	23.085	23.767
47	19.814	20.125	20.784	21.417	21.982
48	18.813	19.094	19.640	20.155	20.633
49	18.040	18.271	18.722	19.132	19.571
50	17.369	17.548	17.946	18.287	18.673
51	16.733	16.881	17.241	17.529	17.877
52	16.066	16.195	16.490	16.725	17.009

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-835-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	15.357	15.474	15.717	15.895	16.130
54	14.622	14.720	14.925	15.069	15.255
55	13.860	13.951	14.125	14.231	14.383
56	13.060	13.144	13.284	13.390	13.500
57	12.245	12.306	12.416	12.522	12.609
58	11.419	11.472	11.559	11.662	11.749
59	10.597	10.638	10.707	10.805	10.885
60	9.786	9.827	9.884	9.968	10.047
61	9.024	9.066	9.092	9.176	9.244
62	8.315	8.346	8.368	8.433	8.501
63	7.660	7.686	7.697	7.750	7.811
64	7.065	7.083	7.091	7.129	7.193
65	6.534	6.549	6.541	6.576	6.644
66	6.030	6.053	6.034	6.072	6.132
67	5.590	5.605	5.586	5.617	5.670
68	5.185	5.188	5.170	5.192	5.245
69	4.806	4.798	4.783	4.791	4.844
70	4.446	4.427	4.408	4.412	4.453
71	4.093	4.070	4.044	4.036	4.078
72	3.744	3.726	3.688	3.672	3.718
73	3.396	3.373	3.331	3.309	3.362
74	3.036	3.013	2.964	2.941	2.990
75	2.645	2.634	2.577	2.558	2.600
76	2.202	2.194	2.138	2.134	2.164
77	1.709	1.702	1.637	1.633	1.660
78	1.141	1.141	1.084	1.054	1.073
79	0.766	0.777	0.754	0.750	0.747
80	0.694	0.690	0.686	0.678	0.678
81	0.648	0.648	0.644	0.641	0.641
82	0.610	0.606	0.610	0.606	0.606
83	0.568	0.565	0.568	0.565	0.568
84	0.523	0.519	0.523	0.519	0.523
85	0.470	0.470	0.470	0.470	0.470
86	0.409	0.409	0.413	0.409	0.413
87	0.349	0.345	0.349	0.341	0.341
88	0.273	0.273	0.273	0.269	0.273
89	0.197	0.193	0.197	0.189	0.189
90	0.148	0.144	0.144	0.133	0.125
91	0.136	0.136	0.136	0.125	0.125
92	0.136	0.136	0.136	0.125	0.125
93	0.140	0.136	0.136	0.129	0.125
94	0.140	0.136	0.140	0.129	0.129
95	0.140	0.136	0.140	0.129	0.133
96	0.140	0.136	0.140	0.133	0.133
97	0.144	0.136	0.140	0.133	0.133
98	0.144	0.140	0.140	0.133	0.136
99	0.148	0.144	0.144	0.136	0.140
100	0.148	0.148	0.144	0.140	0.140
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

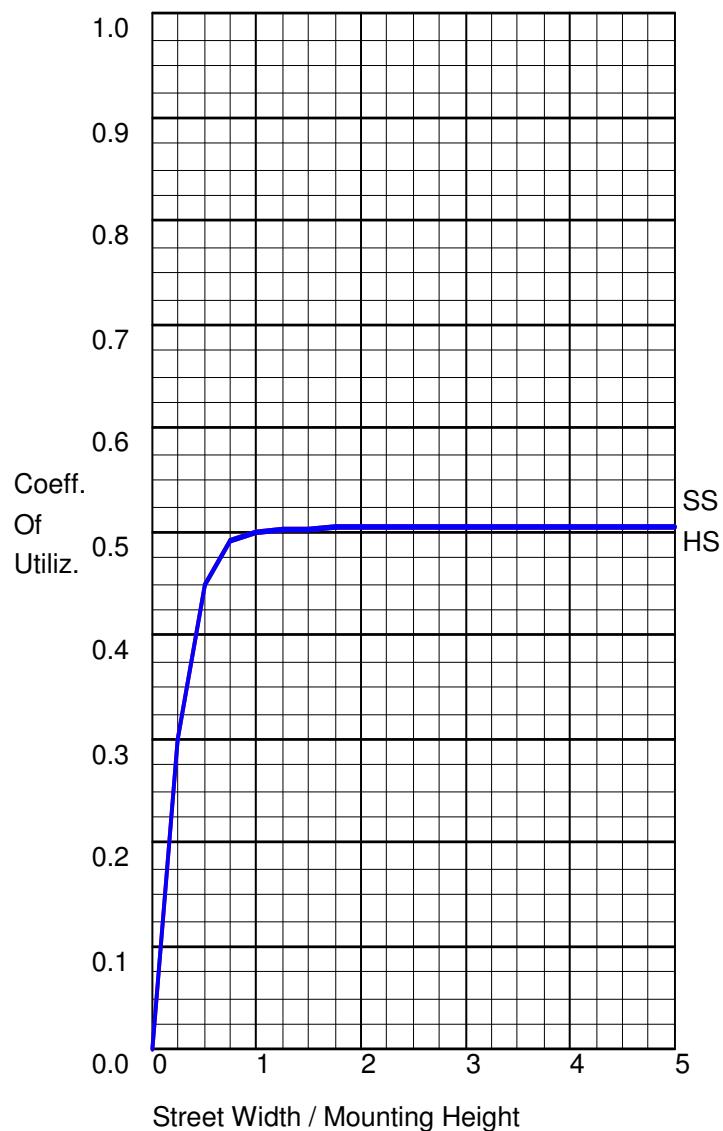
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-835-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-835-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

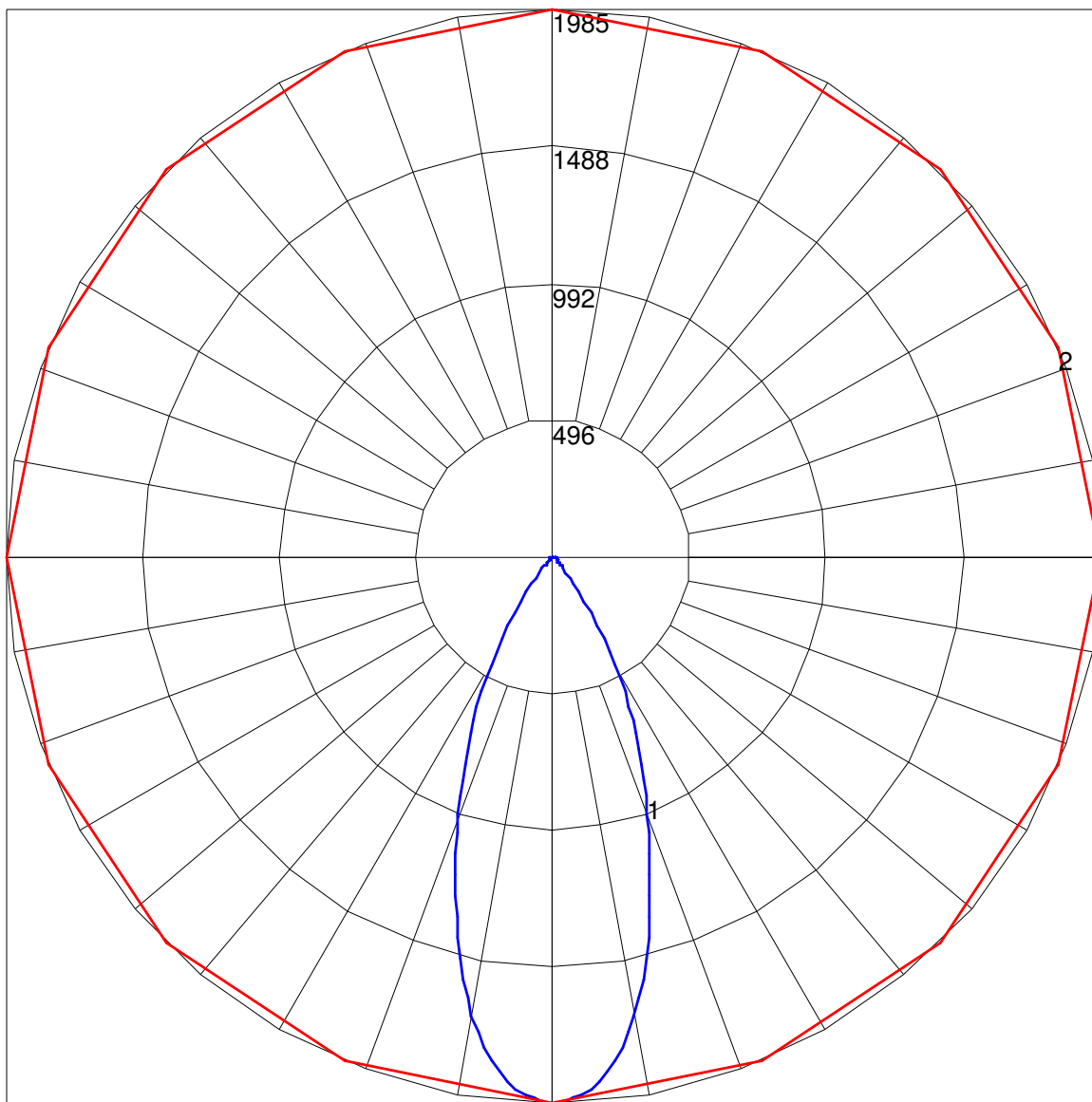
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

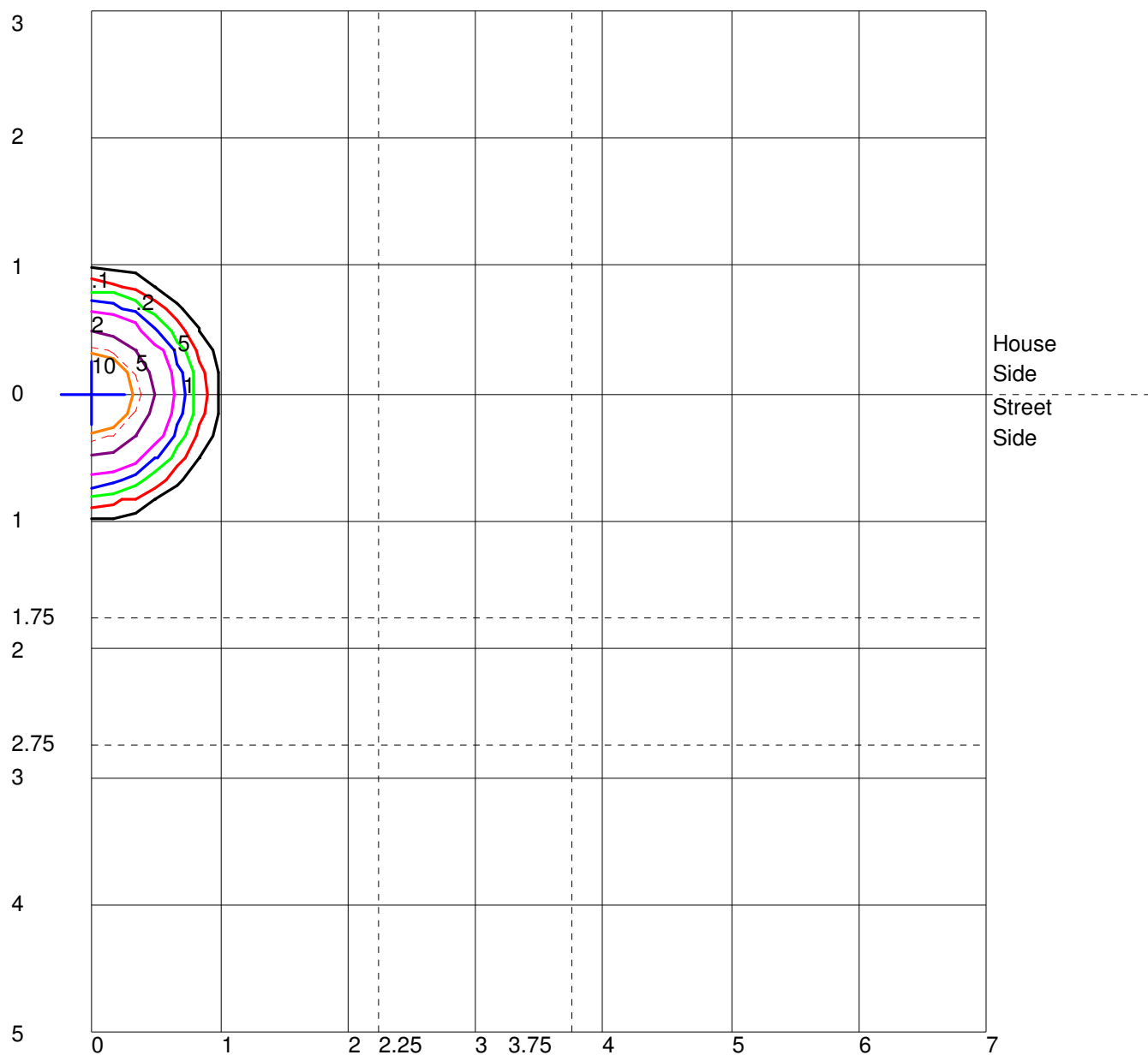
	Lumens	Percent Of Luminaire
Downward Street Side	521.4	50.0
Downward House Side	521.4	50.0
Downward Total	1042.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1043.0	100.0

POLAR GRAPH



Maximum Candela = 1984.645 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



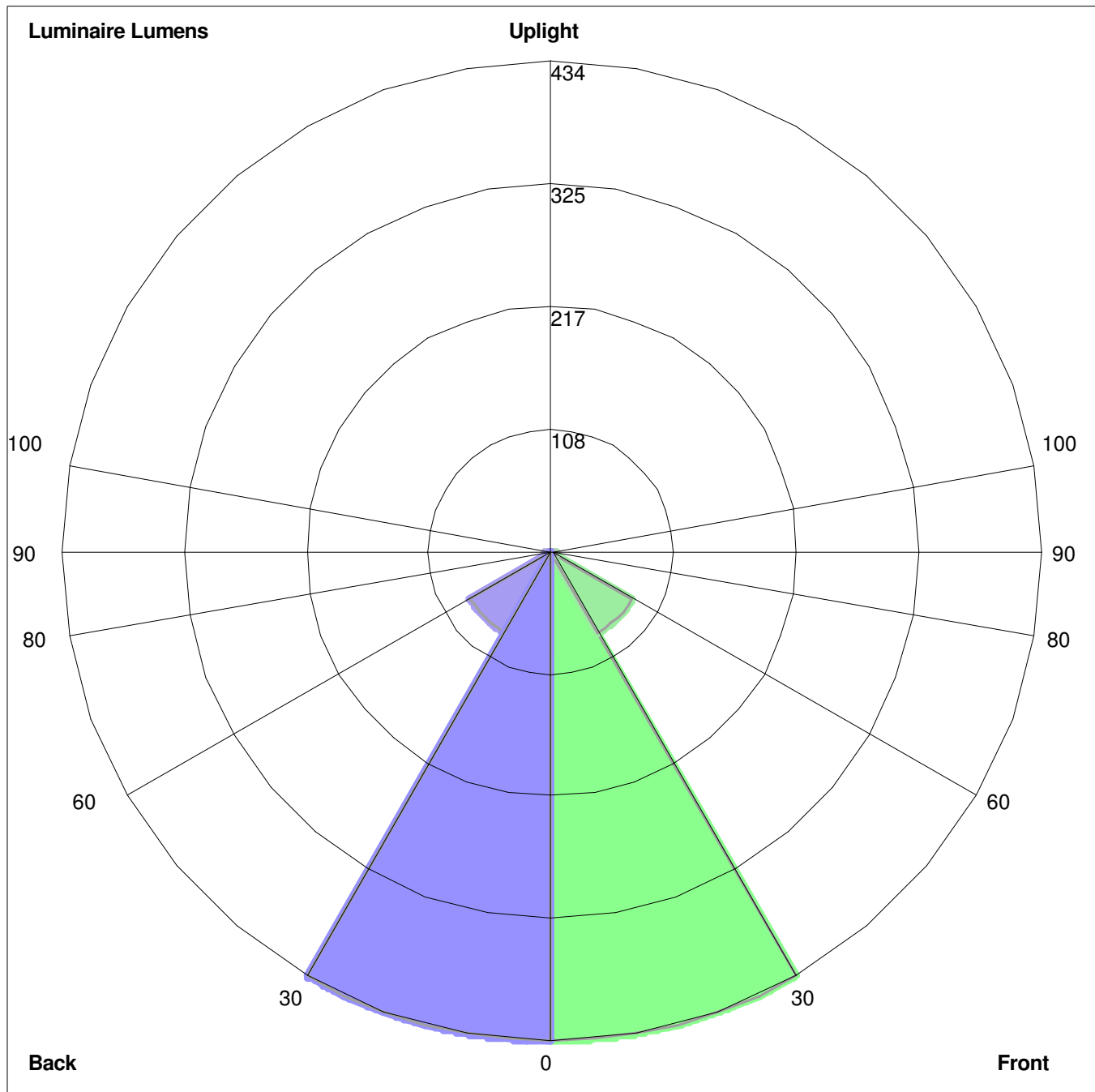
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=433.8, Medium=82.7, High=4.7, Very High=0.2
Back: Low=433.8, Medium=82.7, High=4.7, Very High=0.2
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0