

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-N-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W4CR\_BARBARA-NARROW  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER  
[MORE] NARROW DIST. W/MICROPRISM LENS  
[LUMCAT] W4CR-xx-L10-850-xxx-DIM-UNV-N-xxx  
[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	1095
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3105.298
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3105.298
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.1 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.501 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	481.2	N.A.	44.0
FM - Front-Medium (30-60)	62.9	N.A.	5.7
FH - Front-High (60-80)	3.1	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	481.2	N.A.	44.0
BM - Back-Medium (30-60)	62.9	N.A.	5.7
BH - Back-High (60-80)	3.1	N.A.	0.3
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	1094.9	N.A.	100.0
BUG Rating	B1-U1-G0		

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-N-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	3105.298	3105.298	3105.298	3105.298	3105.298
1	3101.613	3101.472	3100.871	3100.719	3101.850
2	3086.377	3085.472	3084.875	3079.907	3078.872
3	3057.930	3053.306	3054.085	3051.174	3052.654
4	3012.531	3009.987	3007.406	3004.262	3006.861
5	2949.448	2953.319	2945.652	2940.820	2947.201
6	2871.305	2874.000	2868.364	2866.206	2870.730
7	2783.709	2779.990	2776.153	2776.861	2780.387
8	2677.093	2671.676	2670.222	2669.466	2674.705
9	2552.923	2549.775	2545.859	2545.852	2555.593
10	2413.951	2410.392	2407.822	2407.626	2420.095
11	2258.187	2255.205	2256.863	2259.681	2270.882
12	2090.223	2088.491	2092.563	2097.457	2112.111
13	1914.358	1915.996	1922.582	1929.308	1942.827
14	1736.587	1739.709	1751.107	1759.538	1769.861
15	1562.353	1567.922	1582.717	1592.331	1602.176
16	1396.047	1404.667	1421.457	1434.538	1439.636
17	1246.162	1254.991	1274.754	1285.118	1288.191
18	1112.111	1115.752	1137.662	1148.245	1151.507
19	985.142	995.895	1018.487	1027.171	1030.308
20	878.770	889.886	909.823	922.486	925.374
21	788.872	798.401	818.079	827.916	826.930
22	713.446	723.057	740.121	748.178	746.606
23	651.799	658.877	674.361	681.492	678.800
24	599.036	604.976	619.904	625.024	622.217
25	553.024	559.302	572.821	576.855	573.210
26	511.744	517.989	530.028	533.428	530.254
27	473.438	478.069	489.479	492.382	489.642
28	434.739	438.202	448.221	450.705	448.859
29	395.561	398.528	405.580	408.687	407.953
30	354.760	355.909	362.101	365.487	364.571
31	311.678	312.367	316.873	319.906	319.954
32	269.382	268.981	271.848	274.988	275.059
33	226.356	225.640	228.117	230.875	230.564
34	185.113	184.823	186.455	188.847	188.917
35	149.068	147.025	148.623	149.699	149.128
36	114.526	114.051	114.893	115.493	114.385
37	86.301	86.487	85.604	85.556	86.779
38	64.013	64.966	62.893	63.386	63.627
39	46.934	46.467	46.782	45.922	45.741
40	35.929	34.287	34.346	34.294	34.287
41	26.152	26.178	26.641	26.823	27.131
42	20.872	21.105	21.825	22.233	22.740
43	17.961	18.180	18.966	19.511	19.919
44	16.459	16.622	17.386	17.957	18.217
45	15.792	15.903	16.652	17.108	17.320
46	15.573	15.714	16.367	16.719	16.912
47	15.644	15.781	16.326	16.608	16.800
48	15.833	15.925	16.389	16.593	16.800
49	15.944	16.044	16.433	16.574	16.756
50	15.955	16.033	16.381	16.489	16.626
51	15.781	15.840	16.166	16.248	16.344
52	15.306	15.380	15.666	15.707	15.766

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	14.594	14.657	14.928	14.924	14.961
54	13.686	13.760	13.990	13.953	13.997
55	12.670	12.714	12.922	12.866	12.892
56	11.569	11.591	11.735	11.698	11.706
57	10.397	10.423	10.512	10.490	10.475
58	9.277	9.296	9.340	9.322	9.307
59	8.239	8.232	8.243	8.220	8.213
60	7.293	7.279	7.260	7.256	7.253
61	6.478	6.452	6.429	6.415	6.422
62	5.781	5.744	5.725	5.710	5.718
63	5.202	5.173	5.135	5.124	5.139
64	4.713	4.690	4.661	4.642	4.668
65	4.323	4.301	4.275	4.249	4.279
66	3.975	3.964	3.934	3.916	3.949
67	3.686	3.675	3.641	3.630	3.663
68	3.415	3.408	3.382	3.363	3.404
69	3.170	3.167	3.133	3.118	3.155
70	2.944	2.937	2.903	2.881	2.911
71	2.718	2.718	2.673	2.647	2.666
72	2.503	2.499	2.451	2.418	2.440
73	2.284	2.280	2.225	2.184	2.202
74	2.054	2.050	1.991	1.943	1.961
75	1.813	1.795	1.743	1.687	1.702
76	1.535	1.513	1.450	1.405	1.420
77	1.220	1.205	1.123	1.090	1.090
78	0.853	0.845	0.764	0.719	0.727
79	0.552	0.560	0.538	0.541	0.541
80	0.501	0.501	0.493	0.493	0.493
81	0.467	0.467	0.467	0.471	0.467
82	0.445	0.441	0.441	0.445	0.445
83	0.415	0.412	0.412	0.412	0.415
84	0.382	0.378	0.378	0.382	0.382
85	0.345	0.345	0.345	0.345	0.345
86	0.304	0.300	0.300	0.300	0.304
87	0.252	0.252	0.252	0.252	0.252
88	0.197	0.197	0.197	0.193	0.193
89	0.137	0.133	0.133	0.133	0.133
90	0.100	0.093	0.093	0.089	0.085
91	0.093	0.089	0.085	0.082	0.082
92	0.093	0.089	0.085	0.085	0.082
93	0.093	0.089	0.089	0.085	0.085
94	0.093	0.089	0.089	0.085	0.085
95	0.093	0.089	0.089	0.085	0.089
96	0.096	0.089	0.089	0.085	0.085
97	0.096	0.093	0.089	0.089	0.089
98	0.096	0.093	0.093	0.093	0.093
99	0.104	0.093	0.093	0.093	0.093
100	0.104	0.096	0.093	0.093	0.093
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

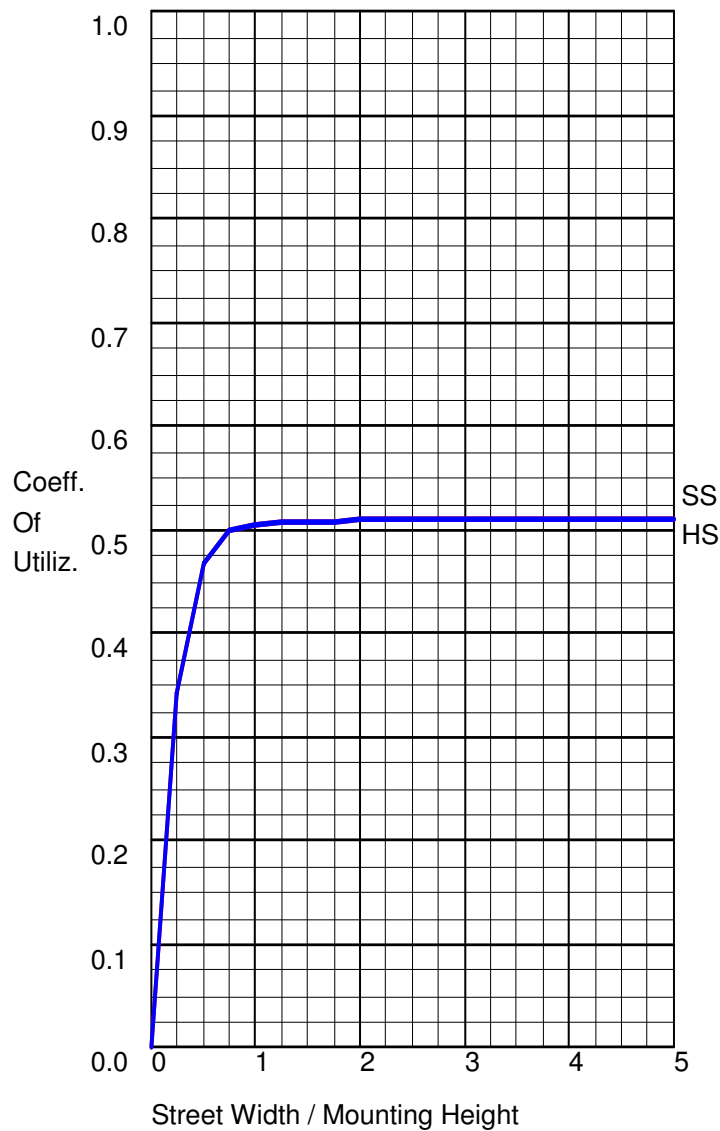
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-850-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

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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

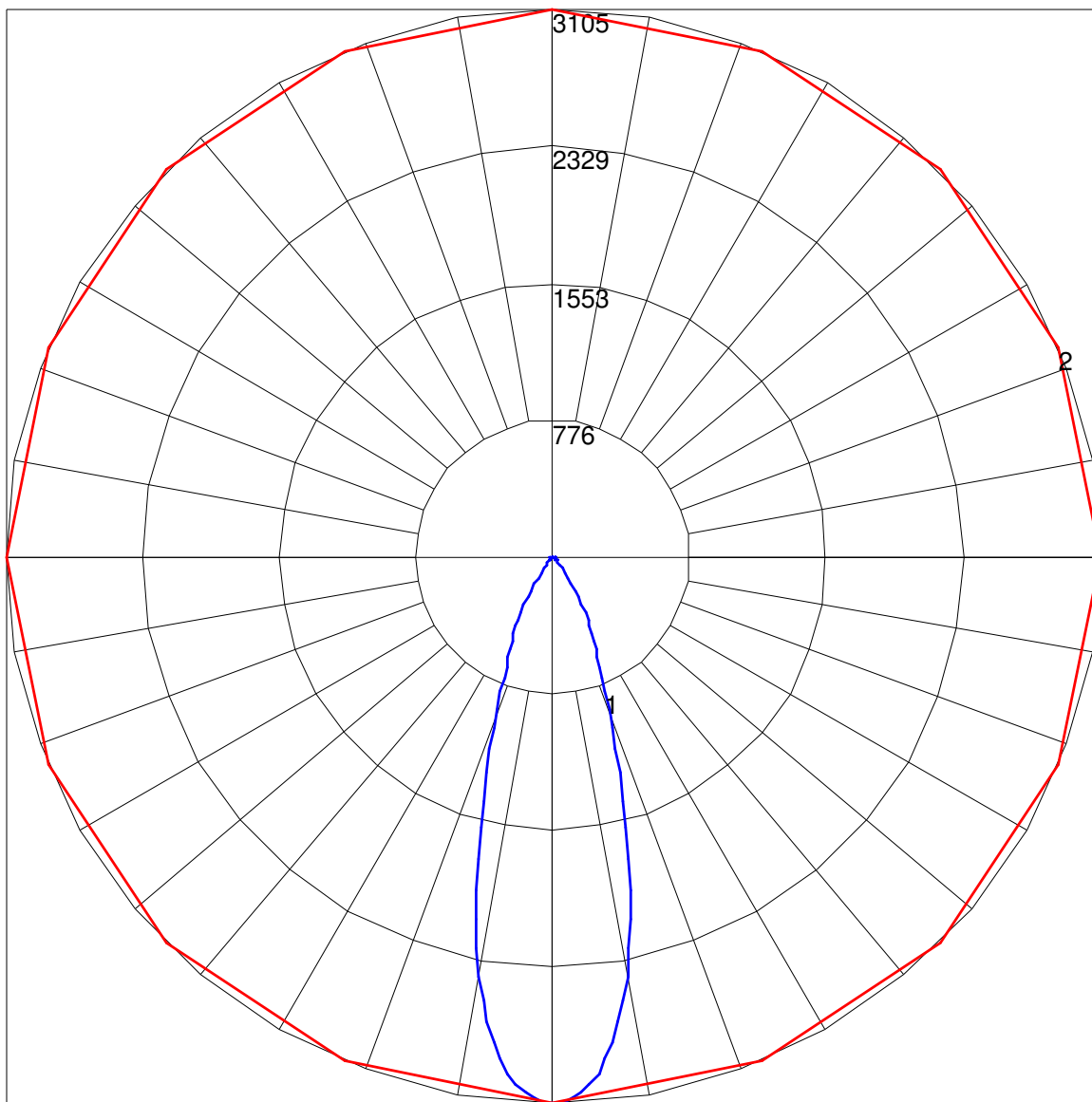
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

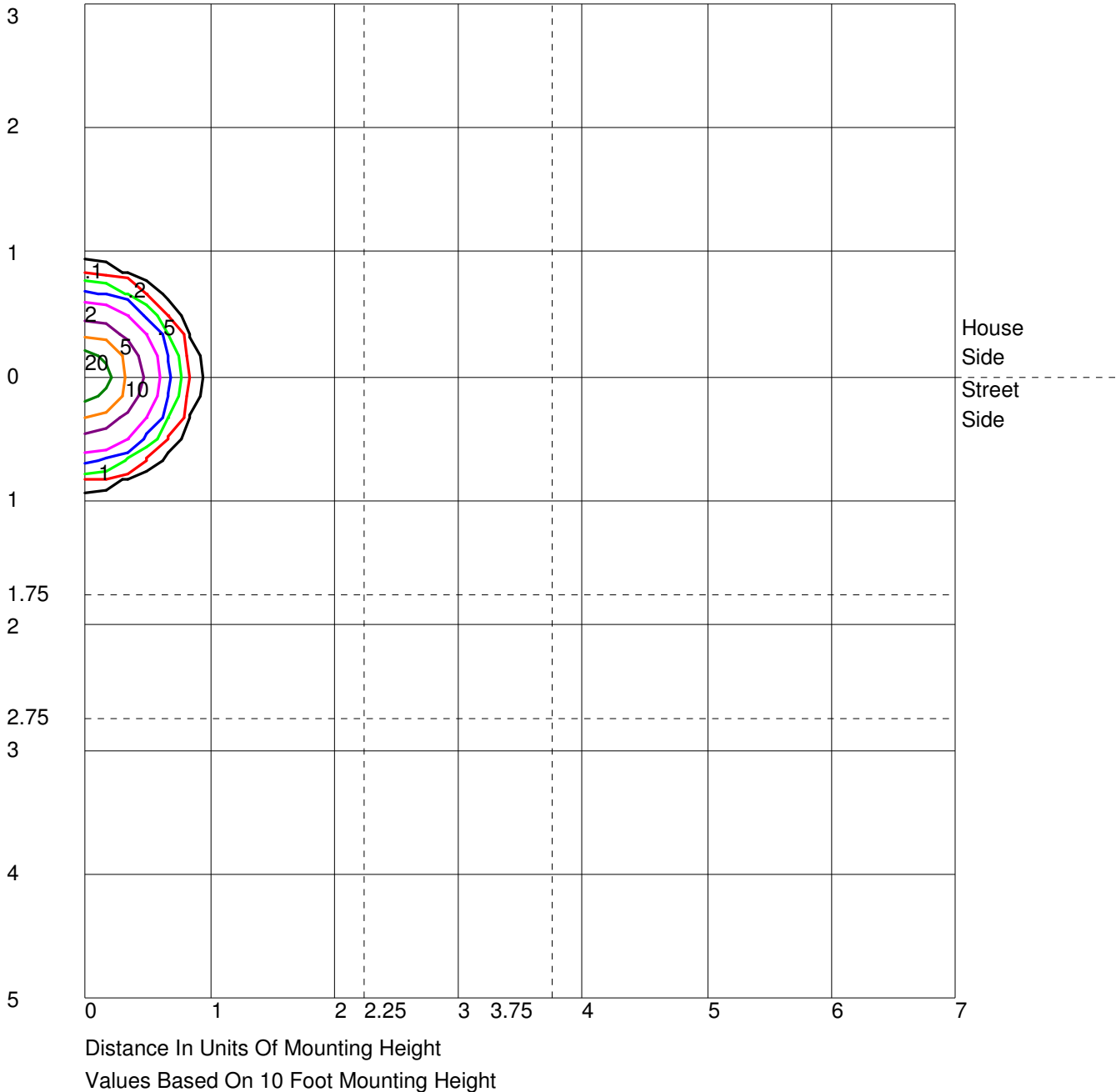
	Lumens	Percent Of Luminaire
Downward Street Side	547.4	50.0
Downward House Side	547.4	50.0
Downward Total	1094.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1095.0	100.0

POLAR GRAPH



Maximum Candela = 3105.298 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



# PHOTO IES R

