

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-S-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W4CR\_BARBARA-SPOT DISTRIBUTION  
[TESTLAB] LEDIL INC.  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] W4CR-xx-L25-850-xxx-DIM-UNV-S-xxx  
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER  
[MORE] WITH SPOT DISTRIBUTION & MICROPRISM LENS  
[MORE] 0-10 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	2805
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12571.845
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	12571.845
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.129 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.572 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1273.2	N.A.	45.4
FM - Front-Medium (30-60)	125.1	N.A.	4.5
FH - Front-High (60-80)	3.7	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1273.2	N.A.	45.4
BM - Back-Medium (30-60)	125.1	N.A.	4.5
BH - Back-High (60-80)	3.7	N.A.	0.1
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	2804.5	N.A.	100.0
BUG Rating	B3-U1-G0		

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## CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	0.0	22.5	45.0	67.5	90.0
0	12571.8451	12571.8451	12571.8451	12571.8451	12571.8451
1	12548.8511	12543.4851	12544.5641	12539.8531	12544.675
2	12391.1651	12388.9981	12380.6631	12376.7361	12390.196
3	12117.5661	12107.9681	12100.5831	12093.0051	12123.190
4	11708.3081	11705.1641	11692.5601	11688.8081	11725.954
5	11160.8811	11151.0061	11147.4571	11142.7361	11189.591
6	10473.6901	10470.0491	10473.3491	10480.4581	10519.301
7	9666.034	9669.786	9692.947	9713.913	9729.522
8	8767.304	8783.632	8828.404	8866.344	8855.649
9	7838.573	7862.996	7932.966	7983.158	7942.490
10	6934.238	6963.861	7050.979	7112.392	7043.428
11	6073.457	6108.141	6209.311	6271.590	6186.021
12	5278.763	5325.369	5423.994	5497.614	5400.207
13	4587.581	4626.848	4730.682	4808.884	4711.523
14	3989.205	4021.917	4119.407	4194.936	4104.868
15	3473.734	3505.708	3602.498	3671.619	3581.883
16	3042.698	3076.673	3147.066	3208.701	3130.646
17	2699.177	2701.924	2771.709	2821.681	2761.567
18	2379.498	2400.925	2454.824	2495.243	2449.458
19	2126.552	2138.455	2196.706	2232.562	2198.974
20	1915.197	1931.101	1971.023	2001.126	1967.685
21	1743.782	1753.361	1787.327	1812.156	1780.292
22	1598.256	1607.402	1633.937	1650.523	1623.519
23	1476.601	1481.386	1501.817	1515.656	1491.343
24	1370.628	1373.182	1389.381	1397.052	1376.086
25	1274.391	1277.554	1287.825	1290.130	1272.492
26	1187.615	1187.384	1191.487	1189.929	1174.550
27	1098.044	1093.526	1095.130	1092.226	1078.184
28	1002.398	997.124	995.510	993.814	983.608
29	901.717	896.784	894.977	897.918	890.091
30	794.647	792.895	791.466	797.542	793.108
31	686.508	686.932	687.319	697.138	694.492
32	582.066	584.057	584.989	597.869	599.030
33	480.095	483.930	487.304	500.332	506.159
34	385.573	392.147	396.526	410.420	419.511
35	304.853	310.450	312.294	325.423	338.321
36	229.159	237.171	242.915	251.591	265.835
37	170.050	180.303	182.691	190.362	205.998
38	125.131	132.258	134.222	143.276	155.179
39	94.955	96.080	99.445	105.383	112.463
40	68.632	71.620	76.257	80.563	84.444
41	51.788	54.268	57.421	60.998	64.963
42	40.309	42.384	45.546	48.312	51.456
43	32.629	34.095	37.036	39.470	41.757
44	27.300	28.360	30.905	33.072	34.058
45	23.428	24.230	26.442	28.111	28.554
46	20.616	21.206	23.133	24.340	24.617
47	18.449	18.938	20.579	21.418	21.565
48	16.734	17.204	18.550	19.150	19.233
49	15.388	15.775	16.983	17.361	17.370
50	14.291	14.632	15.674	15.923	15.877
51	13.323	13.645	14.577	14.752	14.660
52	12.438	12.714	13.535	13.590	13.396

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	11.626	11.875	12.585	12.530	12.272
54	10.916	11.156	11.746	11.589	11.294
55	10.299	10.501	10.999	10.778	10.418
56	9.745	9.893	10.335	10.077	9.644
57	9.220	9.340	9.690	9.441	8.989
58	8.722	8.823	9.118	8.869	8.445
59	8.261	8.335	8.556	8.335	7.938
60	7.800	7.865	8.040	7.818	7.431
61	7.339	7.394	7.551	7.339	6.970
62	6.878	6.924	7.062	6.850	6.491
63	6.417	6.472	6.583	6.371	6.030
64	5.965	6.011	6.122	5.901	5.569
65	5.523	5.578	5.661	5.449	5.135
66	5.089	5.135	5.218	5.016	4.693
67	4.674	4.730	4.804	4.619	4.296
68	4.296	4.333	4.416	4.213	3.909
69	3.928	3.974	4.048	3.854	3.540
70	3.577	3.623	3.706	3.494	3.181
71	3.245	3.282	3.365	3.153	2.840
72	2.923	2.960	3.024	2.821	2.517
73	2.600	2.637	2.692	2.480	2.213
74	2.268	2.305	2.342	2.157	1.881
75	1.927	1.955	1.964	1.816	1.540
76	1.595	1.613	1.567	1.475	1.226
77	1.300	1.309	1.226	1.143	0.940
78	1.005	0.977	0.848	0.784	0.691
79	0.627	0.645	0.618	0.609	0.581
80	0.572	0.572	0.572	0.562	0.544
81	0.535	0.535	0.544	0.535	0.507
82	0.507	0.507	0.516	0.507	0.479
83	0.470	0.470	0.479	0.479	0.452
84	0.433	0.433	0.433	0.424	0.415
85	0.378	0.387	0.396	0.387	0.369
86	0.332	0.332	0.332	0.332	0.323
87	0.277	0.277	0.277	0.277	0.267
88	0.212	0.212	0.221	0.212	0.203
89	0.157	0.148	0.157	0.148	0.148
90	0.129	0.111	0.120	0.111	0.111
91	0.120	0.111	0.111	0.111	0.101
92	0.111	0.111	0.111	0.111	0.101
93	0.120	0.111	0.111	0.111	0.101
94	0.120	0.111	0.111	0.111	0.101
95	0.120	0.111	0.111	0.111	0.101
96	0.120	0.120	0.111	0.111	0.101
97	0.120	0.120	0.111	0.111	0.111
98	0.120	0.120	0.111	0.111	0.101
99	0.120	0.120	0.111	0.120	0.101
100	0.120	0.120	0.111	0.120	0.111
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

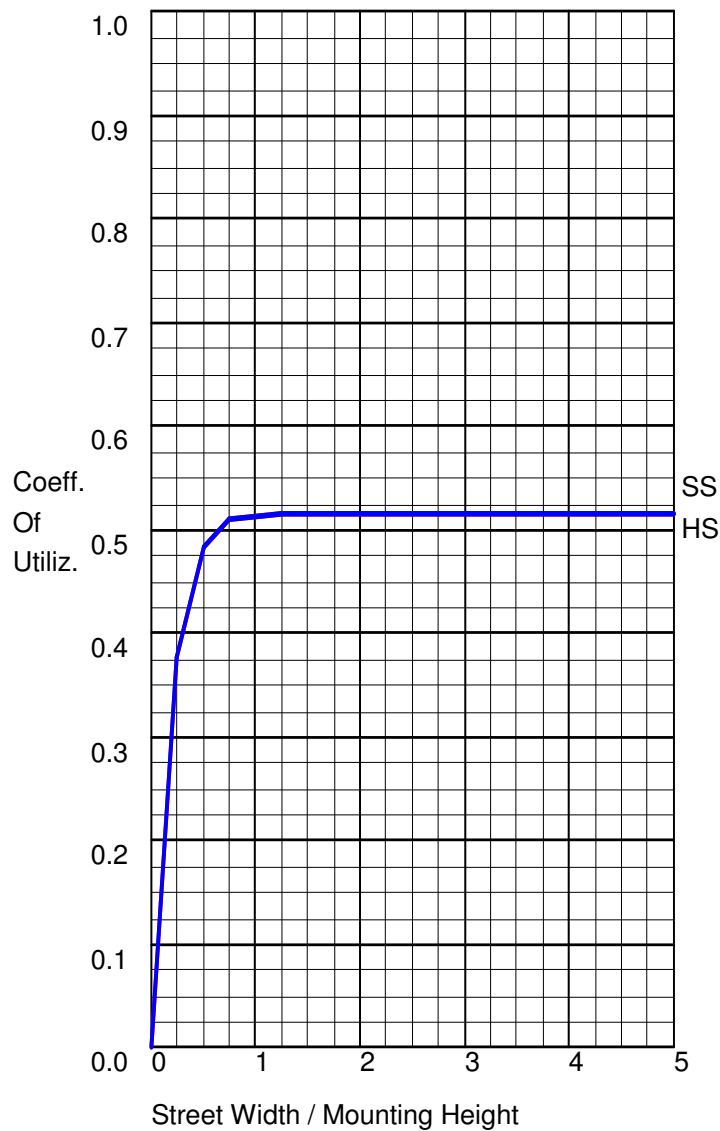
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L25-850-XXX-DIM-UNV-S-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

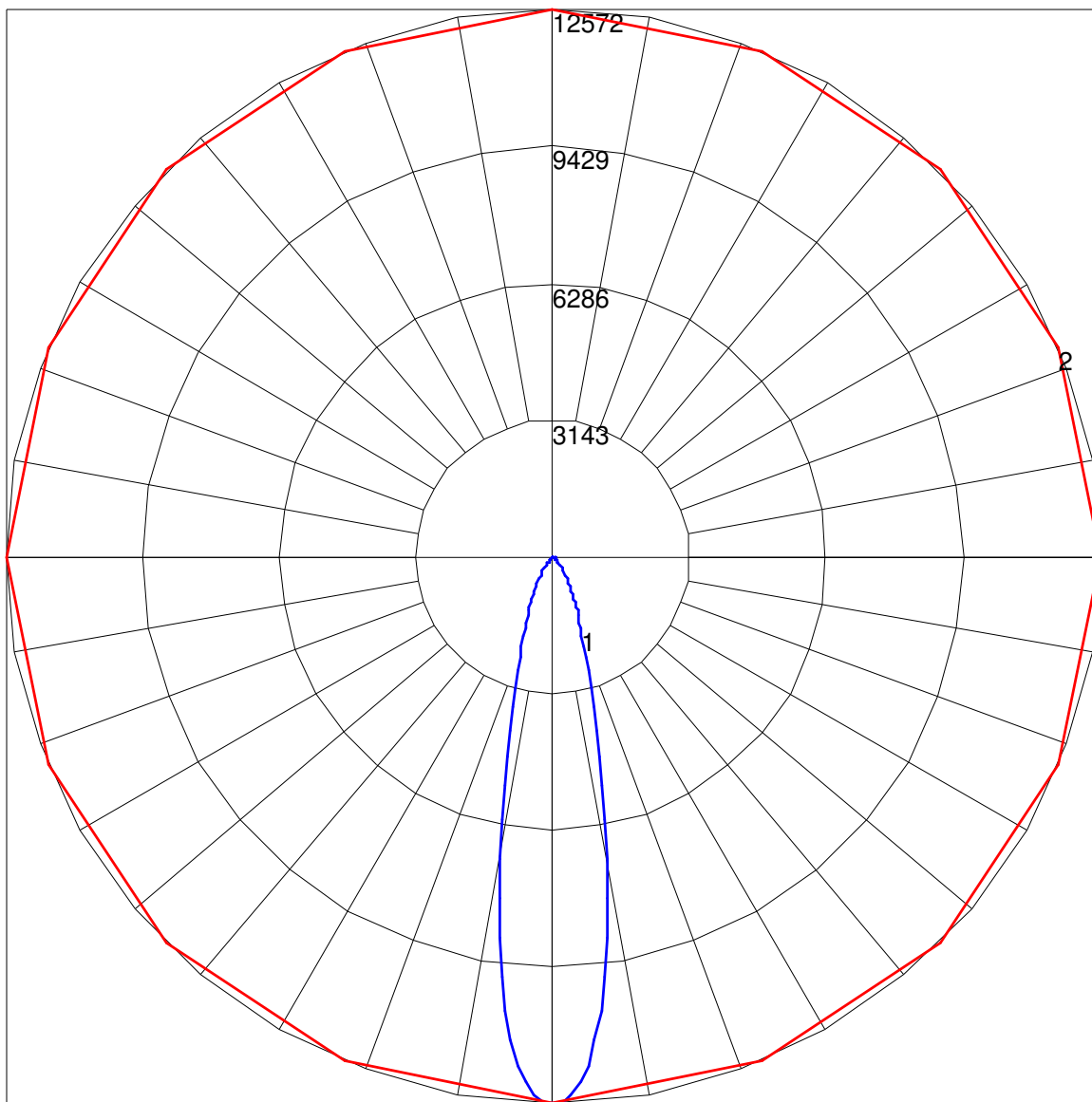
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

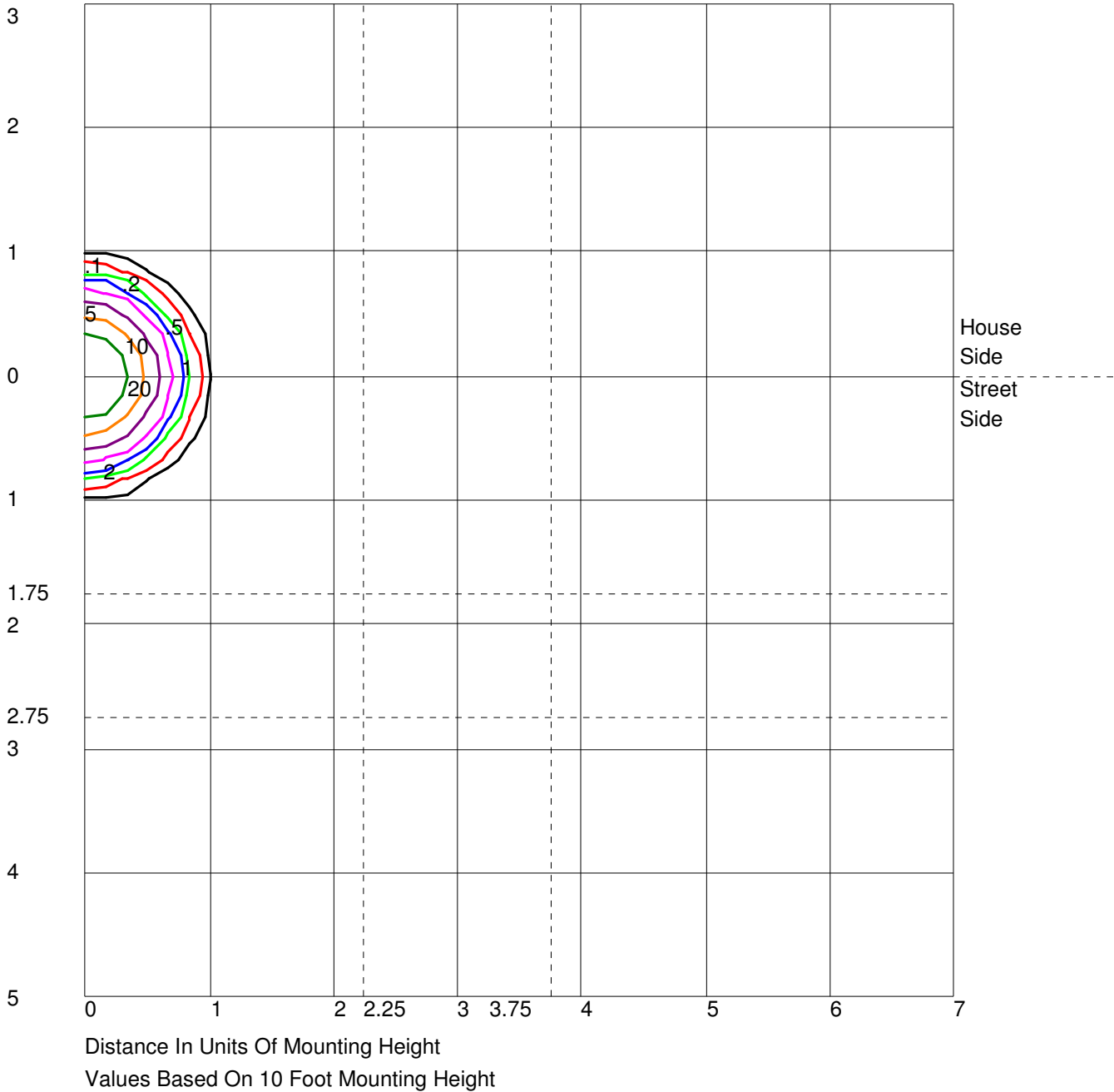
	Lumens	Percent Of Luminaire
Downward Street Side	1402.2	50.0
Downward House Side	1402.2	50.0
Downward Total	2804.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2804.6	100.0

POLAR GRAPH



Maximum Candela = 12571.845 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

