

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-950-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-L15-950-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	1548
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4391.615
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4391.615
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.142 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.708 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	680.6	N.A.	44.0
FM - Front-Medium (30-60)	88.9	N.A.	5.7
FH - Front-High (60-80)	4.4	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	680.6	N.A.	44.0
BM - Back-Medium (30-60)	88.9	N.A.	5.7
BH - Back-High (60-80)	4.4	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	1548.3	N.A.	100.0
BUG Rating	B2-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	4391.615	4391.615	4391.615	4391.615	4391.615
1	4386.403	4386.204	4385.354	4385.139	4386.739
2	4364.856	4363.577	4362.732	4355.706	4354.243
3	4324.626	4318.086	4319.188	4315.071	4317.164
4	4260.420	4256.823	4253.173	4248.726	4252.402
5	4171.207	4176.682	4165.837	4159.005	4168.029
6	4060.694	4064.506	4056.535	4053.483	4059.881
7	3936.814	3931.554	3926.127	3927.128	3932.115
8	3786.033	3778.372	3776.316	3775.246	3782.656
9	3610.428	3605.976	3600.438	3600.428	3614.203
10	3413.889	3408.855	3405.221	3404.943	3422.578
11	3193.602	3189.386	3191.730	3195.715	3211.557
12	2956.062	2953.613	2959.371	2966.293	2987.016
13	2707.348	2709.665	2718.978	2728.491	2747.610
14	2455.938	2460.353	2476.473	2488.397	2502.996
15	2209.531	2217.407	2238.330	2251.927	2265.849
16	1974.335	1986.527	2010.271	2028.771	2035.981
17	1762.364	1774.850	1802.799	1817.456	1821.803
18	1572.784	1577.934	1608.919	1623.885	1628.500
19	1393.220	1408.427	1440.378	1452.659	1457.095
20	1242.785	1258.506	1286.702	1304.610	1308.695
21	1115.649	1129.126	1156.954	1170.866	1169.471
22	1008.979	1022.571	1046.703	1058.098	1055.875
23	921.795	931.806	953.704	963.788	959.981
24	847.176	855.576	876.688	883.930	879.960
25	782.105	790.983	810.102	815.807	810.653
26	723.726	732.556	749.583	754.392	749.903
27	669.552	676.101	692.237	696.343	692.467
28	614.822	619.720	633.889	637.402	634.791
29	559.416	563.611	573.585	577.979	576.941
30	501.713	503.339	512.096	516.883	515.588
31	440.785	441.760	448.132	452.421	452.489
32	380.969	380.402	384.456	388.897	388.997
33	320.119	319.107	322.610	326.512	326.071
34	261.792	261.383	263.691	267.073	267.173
35	210.817	207.928	210.188	211.709	210.901
36	161.966	161.295	162.485	163.335	161.767
37	122.050	122.312	121.064	120.996	122.726
38	90.529	91.877	88.946	89.643	89.984
39	66.376	65.716	66.161	64.945	64.688
40	50.813	48.490	48.574	48.500	48.490
41	36.985	37.021	37.677	37.934	38.369
42	29.517	29.848	30.865	31.442	32.160
43	25.401	25.710	26.822	27.593	28.170
44	23.277	23.508	24.588	25.396	25.763
45	22.333	22.491	23.550	24.195	24.494
46	22.024	22.223	23.146	23.644	23.917
47	22.124	22.318	23.089	23.487	23.760
48	22.391	22.522	23.178	23.466	23.760
49	22.548	22.690	23.241	23.440	23.697
50	22.564	22.674	23.167	23.319	23.513
51	22.318	22.402	22.863	22.978	23.115
52	21.646	21.751	22.155	22.213	22.297

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	20.640	20.729	21.112	21.106	21.159
54	19.355	19.460	19.785	19.732	19.795
55	17.918	17.981	18.275	18.196	18.233
56	16.361	16.392	16.597	16.544	16.555
57	14.704	14.740	14.866	14.835	14.814
58	13.120	13.146	13.209	13.183	13.162
59	11.652	11.641	11.657	11.626	11.615
60	10.315	10.294	10.267	10.262	10.257
61	9.161	9.124	9.093	9.072	9.082
62	8.175	8.123	8.096	8.075	8.086
63	7.357	7.315	7.263	7.247	7.268
64	6.665	6.633	6.591	6.565	6.602
65	6.114	6.083	6.046	6.009	6.051
66	5.621	5.606	5.564	5.537	5.585
67	5.212	5.197	5.149	5.134	5.181
68	4.830	4.819	4.782	4.756	4.814
69	4.483	4.478	4.431	4.410	4.462
70	4.164	4.153	4.106	4.074	4.116
71	3.844	3.844	3.781	3.744	3.770
72	3.540	3.534	3.466	3.419	3.450
73	3.230	3.225	3.146	3.089	3.115
74	2.905	2.900	2.816	2.748	2.774
75	2.564	2.538	2.465	2.386	2.407
76	2.171	2.139	2.050	1.987	2.008
77	1.725	1.704	1.589	1.542	1.542
78	1.206	1.196	1.080	1.017	1.028
79	0.781	0.792	0.760	0.766	0.766
80	0.708	0.708	0.697	0.697	0.697
81	0.661	0.661	0.661	0.666	0.661
82	0.629	0.624	0.624	0.629	0.629
83	0.587	0.582	0.582	0.582	0.587
84	0.540	0.535	0.535	0.540	0.540
85	0.488	0.488	0.488	0.488	0.488
86	0.430	0.425	0.425	0.425	0.430
87	0.357	0.357	0.357	0.357	0.357
88	0.278	0.278	0.278	0.273	0.273
89	0.194	0.189	0.189	0.189	0.189
90	0.142	0.131	0.131	0.126	0.121
91	0.131	0.126	0.121	0.115	0.115
92	0.131	0.126	0.121	0.121	0.115
93	0.131	0.126	0.126	0.121	0.121
94	0.131	0.126	0.126	0.121	0.121
95	0.131	0.126	0.126	0.121	0.126
96	0.136	0.126	0.126	0.121	0.121
97	0.136	0.131	0.126	0.126	0.126
98	0.136	0.131	0.131	0.131	0.131
99	0.147	0.131	0.131	0.131	0.131
100	0.147	0.136	0.131	0.131	0.131
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

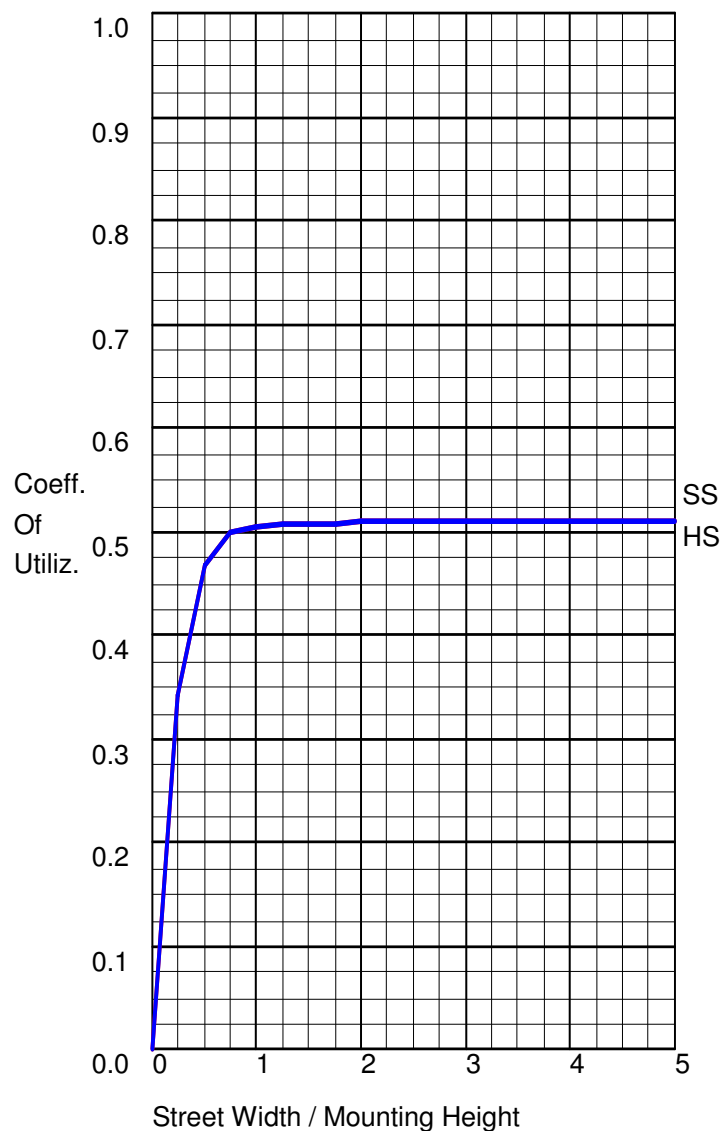
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-N-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

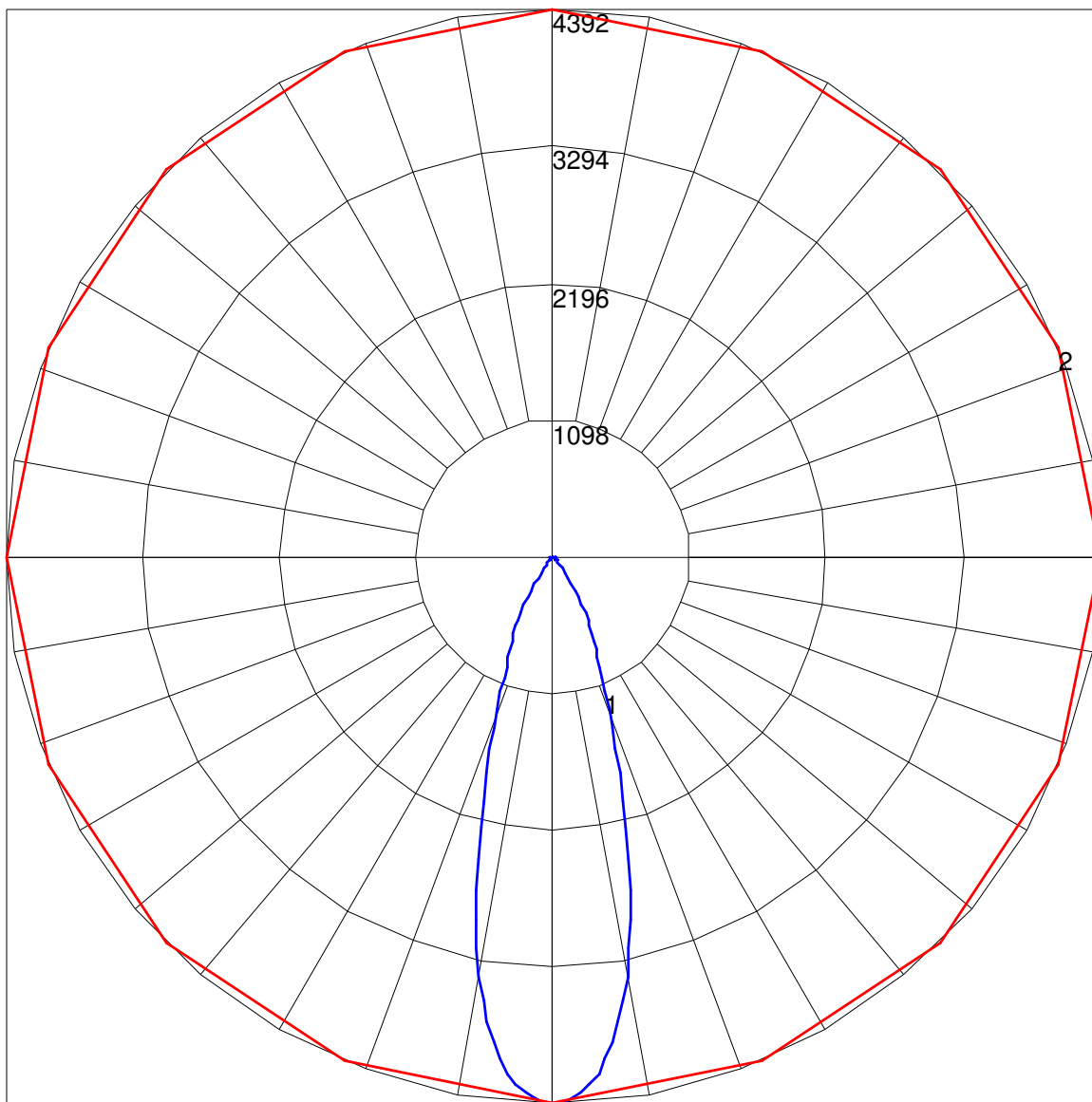
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	774.2	50.0
Downward House Side	774.2	50.0
Downward Total	1548.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1548.6	100.0

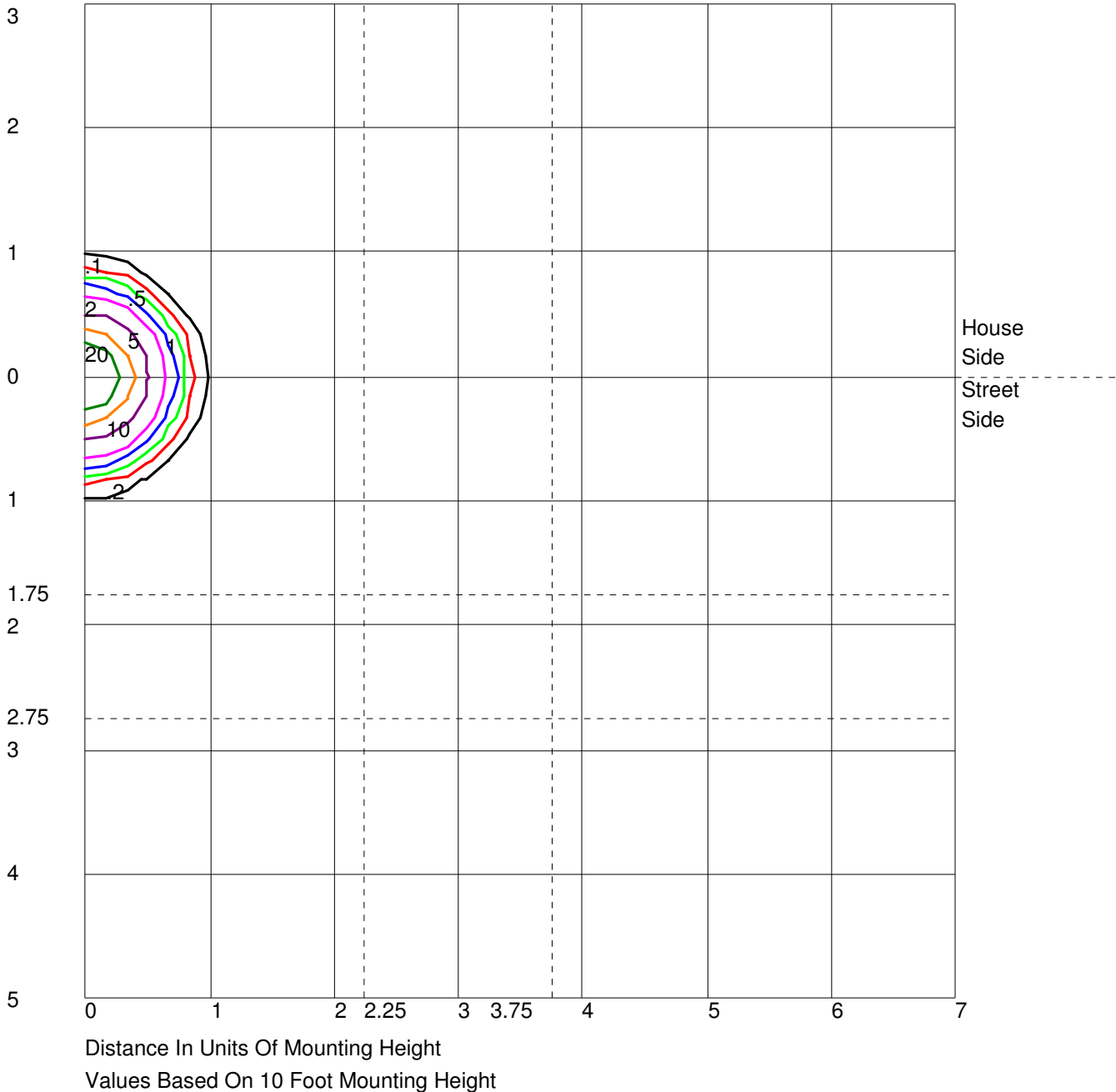
POLAR GRAPH



Maximum Candela = 4391.615 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

