

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-950-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-L10-950-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	1051
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2979.832
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2979.832
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.096 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.48 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	461.8	N.A.	44.0
FM - Front-Medium (30-60)	60.3	N.A.	5.7
FH - Front-High (60-80)	3.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	461.8	N.A.	44.0
BM - Back-Medium (30-60)	60.3	N.A.	5.7
BH - Back-High (60-80)	3.0	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	1050.7	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	2979.832	2979.832	2979.832	2979.832	2979.832
1	2976.296	2976.161	2975.584	2975.438	2976.523
2	2961.676	2960.807	2960.235	2955.467	2954.474
3	2934.378	2929.941	2930.688	2927.895	2929.315
4	2890.813	2888.372	2885.896	2882.878	2885.373
5	2830.279	2833.994	2826.636	2822.000	2828.123
6	2755.293	2757.880	2752.471	2750.401	2754.741
7	2671.237	2667.668	2663.986	2664.665	2668.049
8	2568.928	2563.730	2562.335	2561.609	2566.637
9	2449.775	2446.754	2442.997	2442.990	2452.337
10	2316.418	2313.003	2310.537	2310.348	2322.314
11	2166.947	2164.086	2165.677	2168.381	2179.130
12	2005.770	2004.108	2008.015	2012.712	2026.773
13	1837.010	1838.583	1844.902	1851.356	1864.329
14	1666.422	1669.418	1680.355	1688.446	1698.352
15	1499.228	1504.572	1518.769	1527.995	1537.441
16	1339.641	1347.913	1364.024	1376.577	1381.470
17	1195.813	1204.285	1223.249	1233.194	1236.144
18	1067.178	1070.672	1091.696	1101.851	1104.982
19	945.338	955.657	977.336	985.669	988.679
20	843.264	853.931	873.063	885.214	887.986
21	756.999	766.143	785.026	794.465	793.519
22	684.620	693.843	710.217	717.949	716.440
23	625.464	632.256	647.115	653.957	651.374
24	574.832	580.532	594.857	599.771	597.077
25	530.680	536.704	549.677	553.548	550.050
26	491.068	497.060	508.613	511.876	508.830
27	454.309	458.754	469.702	472.488	469.858
28	417.174	420.497	430.111	432.495	430.723
29	379.579	382.426	389.193	392.175	391.470
30	340.426	341.529	347.471	350.720	349.841
31	299.085	299.747	304.070	306.980	307.026
32	258.498	258.114	260.864	263.878	263.945
33	217.210	216.523	218.900	221.547	221.248
34	177.633	177.356	178.921	181.216	181.284
35	143.045	141.085	142.618	143.650	143.102
36	109.898	109.443	110.251	110.827	109.763
37	82.814	82.992	82.145	82.099	83.273
38	61.427	62.341	60.352	60.825	61.057
39	45.038	44.590	44.892	44.067	43.892
40	34.478	32.902	32.958	32.909	32.902
41	25.095	25.120	25.565	25.739	26.034
42	20.028	20.253	20.943	21.334	21.822
43	17.235	17.445	18.200	18.723	19.114
44	15.794	15.951	16.684	17.232	17.481
45	15.154	15.261	15.979	16.417	16.620
46	14.944	15.079	15.705	16.043	16.228
47	15.012	15.143	15.666	15.937	16.122
48	15.193	15.282	15.727	15.922	16.122
49	15.300	15.396	15.769	15.905	16.079
50	15.310	15.385	15.720	15.823	15.954
51	15.143	15.200	15.513	15.591	15.684
52	14.688	14.759	15.033	15.072	15.129

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53	14.005	14.065	14.325	14.321	14.357
54	13.133	13.204	13.425	13.389	13.432
55	12.158	12.201	12.400	12.347	12.371
56	11.101	11.123	11.261	11.226	11.233
57	9.977	10.002	10.087	10.066	10.052
58	8.902	8.920	8.963	8.945	8.931
59	7.906	7.899	7.910	7.888	7.881
60	6.999	6.985	6.967	6.963	6.960
61	6.216	6.191	6.170	6.155	6.163
62	5.547	5.511	5.494	5.479	5.487
63	4.992	4.964	4.928	4.917	4.931
64	4.522	4.501	4.473	4.455	4.480
65	4.149	4.127	4.102	4.078	4.106
66	3.814	3.804	3.775	3.757	3.789
67	3.537	3.526	3.494	3.483	3.515
68	3.277	3.270	3.245	3.227	3.266
69	3.042	3.039	3.007	2.992	3.028
70	2.825	2.818	2.786	2.765	2.793
71	2.608	2.608	2.565	2.540	2.558
72	2.402	2.398	2.352	2.320	2.341
73	2.192	2.188	2.135	2.096	2.113
74	1.971	1.968	1.911	1.864	1.882
75	1.740	1.722	1.672	1.619	1.633
76	1.473	1.452	1.391	1.349	1.363
77	1.171	1.156	1.078	1.046	1.046
78	0.818	0.811	0.733	0.690	0.697
79	0.530	0.537	0.516	0.519	0.519
80	0.480	0.480	0.473	0.473	0.473
81	0.448	0.448	0.448	0.452	0.448
82	0.427	0.423	0.423	0.427	0.427
83	0.399	0.395	0.395	0.395	0.399
84	0.366	0.363	0.363	0.366	0.366
85	0.331	0.331	0.331	0.331	0.331
86	0.292	0.288	0.288	0.288	0.292
87	0.242	0.242	0.242	0.242	0.242
88	0.189	0.189	0.189	0.185	0.185
89	0.132	0.128	0.128	0.128	0.128
90	0.096	0.089	0.089	0.085	0.082
91	0.089	0.085	0.082	0.078	0.078
92	0.089	0.085	0.082	0.082	0.078
93	0.089	0.085	0.085	0.082	0.082
94	0.089	0.085	0.085	0.082	0.082
95	0.089	0.085	0.085	0.082	0.085
96	0.093	0.085	0.085	0.082	0.082
97	0.093	0.089	0.085	0.085	0.085
98	0.093	0.089	0.089	0.089	0.089
99	0.100	0.089	0.089	0.089	0.089
100	0.100	0.093	0.089	0.089	0.089
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

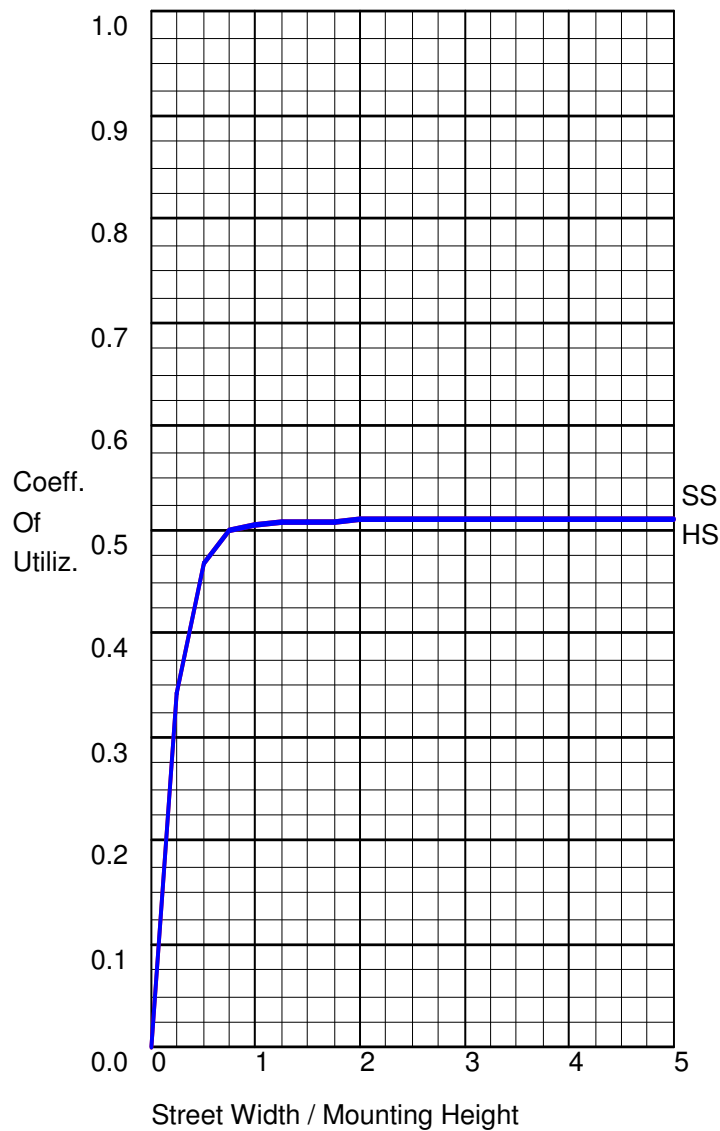
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-950-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

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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

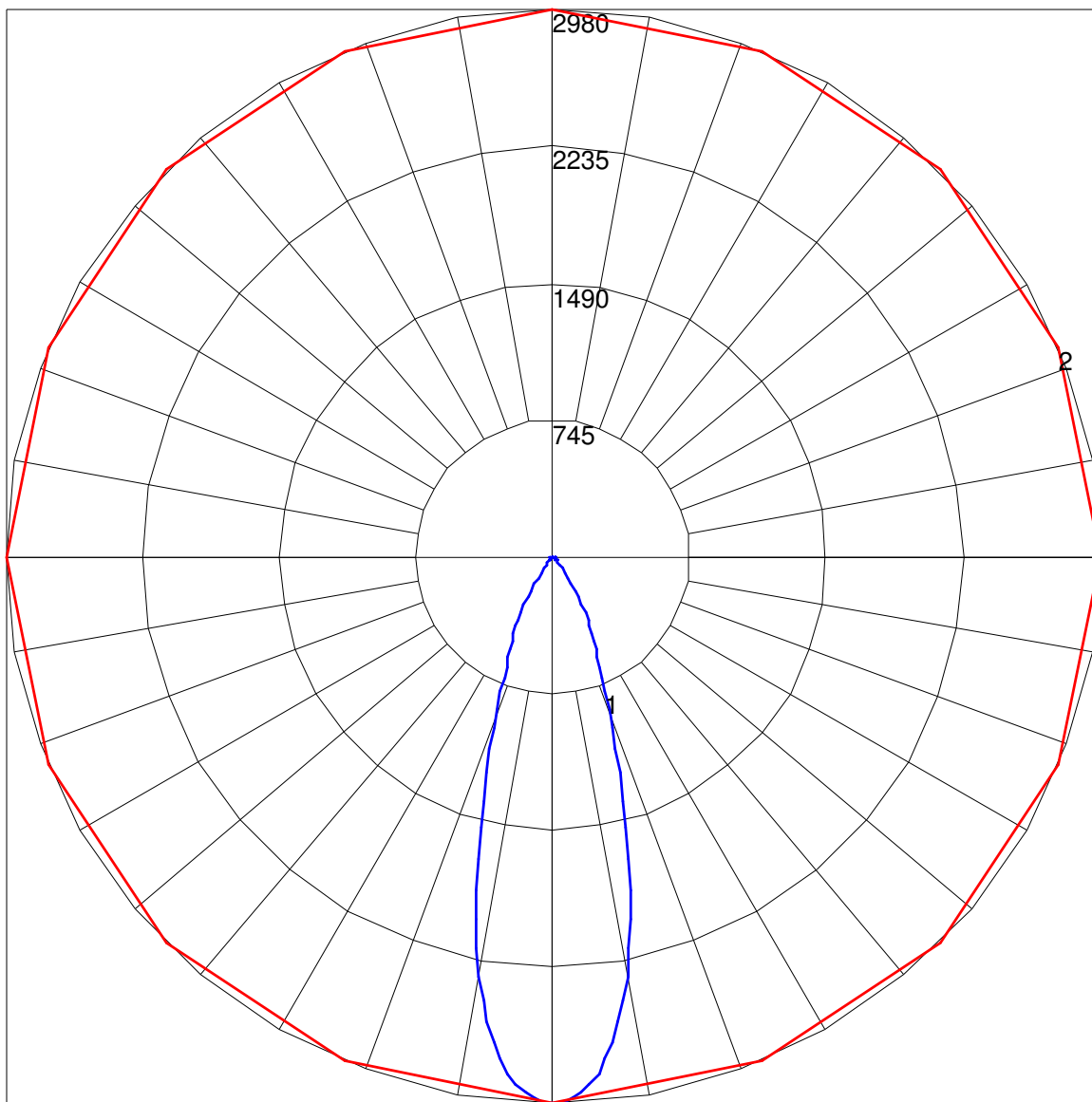
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	525.3	50.0
Downward House Side	525.3	50.0
Downward Total	1050.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1050.6	100.0

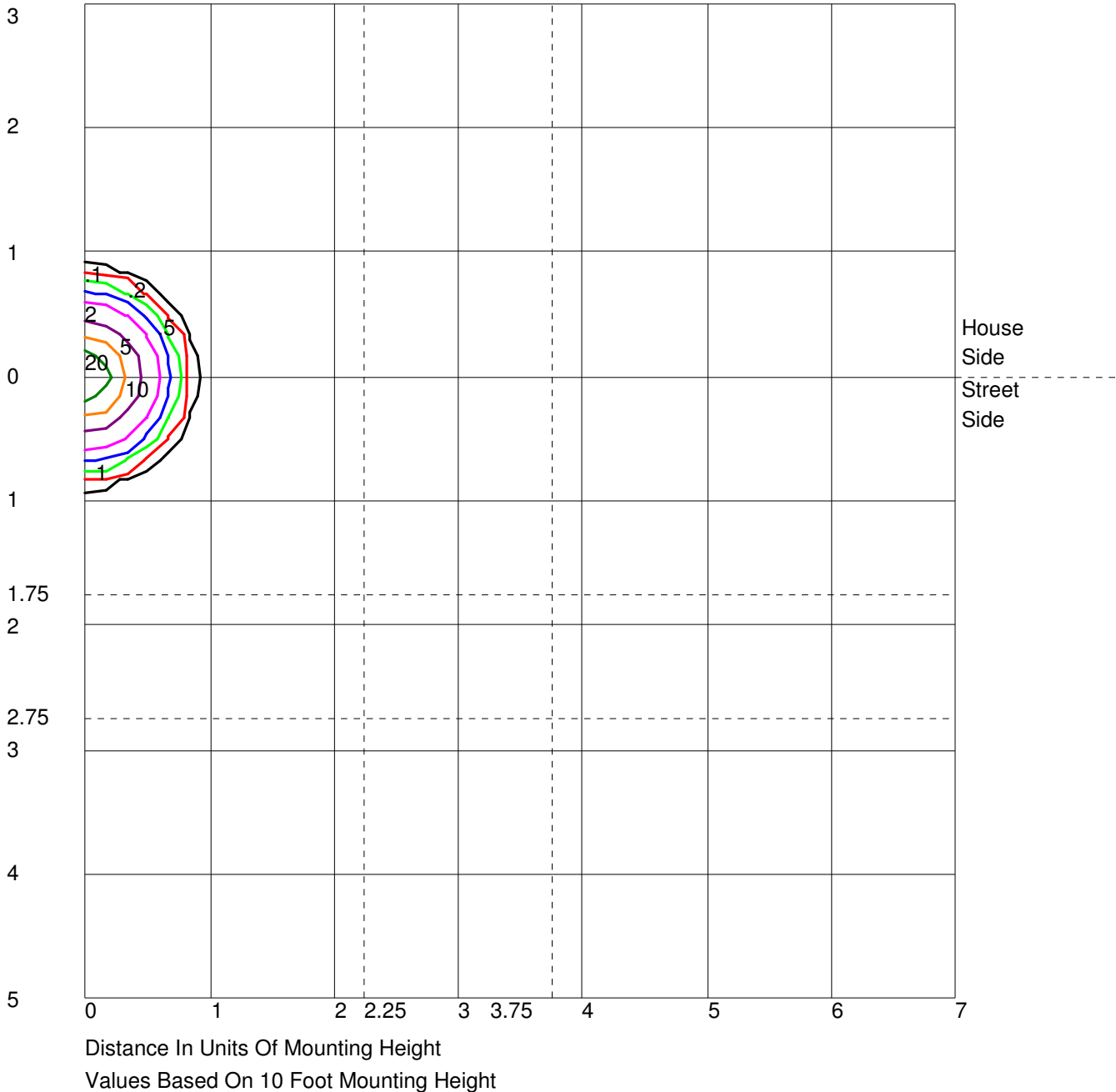
POLAR GRAPH



Maximum Candela = 2979.832 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

