

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-827-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-L20-827-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	2237
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10028.807
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	10028.807
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.103 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.456 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1015.6	N.A.	45.4
FM - Front-Medium (30-60)	99.8	N.A.	4.5
FH - Front-High (60-80)	3.0	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1015.6	N.A.	45.4
BM - Back-Medium (30-60)	99.8	N.A.	4.5
BH - Back-High (60-80)	3.0	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	2237.3	N.A.	100.0
BUG Rating	B3-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	10028.807	10028.807	10028.807	10028.807	10028.807
1	10010.464	10006.183	10007.044	10003.285	10007.132
2	9884.674	9882.946	9876.297	9873.164	9883.902
3	9666.419	9658.763	9652.872	9646.826	9670.906
4	9339.946	9337.438	9327.384	9324.390	9354.023
5	8903.252	8895.375	8892.544	8888.778	8926.155
6	8355.067	8352.162	8354.795	8360.466	8391.452
7	7710.784	7713.778	7732.253	7748.978	7761.429
8	6993.850	7006.875	7042.590	7072.855	7064.324
9	6252.983	6272.466	6328.282	6368.321	6335.879
10	5531.577	5555.208	5624.704	5673.694	5618.680
11	4844.915	4872.584	4953.288	5002.970	4934.710
12	4210.972	4248.151	4326.826	4385.554	4307.850
13	3659.603	3690.927	3773.757	3836.141	3758.474
14	3182.267	3208.362	3286.132	3346.382	3274.533
15	2771.065	2796.572	2873.783	2928.922	2857.338
16	2427.220	2454.322	2510.476	2559.643	2497.377
17	2153.186	2155.378	2211.046	2250.910	2202.956
18	1898.172	1915.265	1958.261	1990.504	1953.980
19	1696.392	1705.887	1752.355	1780.958	1754.164
20	1527.790	1540.477	1572.323	1596.337	1569.661
21	1391.049	1398.691	1425.786	1445.592	1420.174
22	1274.960	1282.256	1303.423	1316.655	1295.112
23	1177.913	1181.730	1198.029	1209.068	1189.674
24	1093.377	1095.414	1108.336	1114.456	1097.731
25	1016.607	1019.130	1027.323	1029.162	1015.092
26	947.383	947.199	950.472	949.229	936.962
27	875.931	872.327	873.607	871.290	860.089
28	799.632	795.425	794.138	792.785	784.643
29	719.317	715.382	713.941	716.287	710.043
30	633.906	632.508	631.368	636.215	632.677
31	547.641	547.979	548.288	556.121	554.010
32	464.325	465.914	466.657	476.931	477.858
33	382.981	386.040	388.732	399.125	403.773
34	307.579	312.823	316.317	327.400	334.652
35	243.188	247.652	249.123	259.596	269.886
36	182.804	189.196	193.778	200.699	212.062
37	135.653	143.831	145.736	151.855	164.329
38	99.820	105.505	107.072	114.294	123.789
39	75.747	76.645	79.329	84.066	89.714
40	54.749	57.132	60.832	64.267	67.363
41	41.312	43.291	45.806	48.660	51.822
42	32.155	33.810	36.333	38.539	41.047
43	26.029	27.198	29.544	31.486	33.310
44	21.778	22.623	24.653	26.382	27.169
45	18.689	19.328	21.094	22.425	22.778
46	16.445	16.916	18.453	19.417	19.637
47	14.717	15.107	16.416	17.085	17.203
48	13.349	13.724	14.798	15.276	15.342
49	12.275	12.584	13.548	13.849	13.857
50	11.400	11.672	12.503	12.702	12.665
51	10.628	10.885	11.628	11.768	11.694
52	9.922	10.142	10.797	10.841	10.687

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

53	9.274	9.473	10.039	9.995	9.789
54	8.708	8.899	9.370	9.245	9.010
55	8.215	8.377	8.774	8.598	8.311
56	7.774	7.892	8.245	8.039	7.693
57	7.355	7.450	7.730	7.531	7.171
58	6.958	7.039	7.274	7.075	6.737
59	6.590	6.649	6.825	6.649	6.333
60	6.222	6.274	6.413	6.237	5.928
61	5.854	5.899	6.024	5.854	5.560
62	5.487	5.523	5.634	5.465	5.178
63	5.119	5.163	5.251	5.082	4.810
64	4.759	4.795	4.884	4.707	4.442
65	4.406	4.450	4.516	4.347	4.097
66	4.060	4.097	4.163	4.001	3.744
67	3.729	3.773	3.832	3.685	3.427
68	3.427	3.457	3.523	3.361	3.118
69	3.133	3.170	3.229	3.074	2.824
70	2.854	2.890	2.957	2.787	2.537
71	2.589	2.618	2.685	2.515	2.265
72	2.331	2.361	2.412	2.251	2.008
73	2.074	2.103	2.148	1.978	1.765
74	1.809	1.839	1.868	1.721	1.500
75	1.537	1.559	1.567	1.449	1.228
76	1.272	1.287	1.250	1.177	0.978
77	1.037	1.044	0.978	0.912	0.750
78	0.802	0.780	0.677	0.625	0.552
79	0.500	0.515	0.493	0.485	0.463
80	0.456	0.456	0.456	0.449	0.434
81	0.427	0.427	0.434	0.427	0.405
82	0.405	0.405	0.412	0.405	0.382
83	0.375	0.375	0.382	0.382	0.360
84	0.346	0.346	0.346	0.338	0.331
85	0.302	0.309	0.316	0.309	0.294
86	0.265	0.265	0.265	0.265	0.257
87	0.221	0.221	0.221	0.221	0.213
88	0.169	0.169	0.177	0.169	0.162
89	0.125	0.118	0.125	0.118	0.118
90	0.103	0.088	0.096	0.088	0.088
91	0.096	0.088	0.088	0.088	0.081
92	0.088	0.088	0.088	0.088	0.081
93	0.096	0.088	0.088	0.088	0.081
94	0.096	0.088	0.088	0.088	0.081
95	0.096	0.088	0.088	0.088	0.081
96	0.096	0.096	0.088	0.088	0.081
97	0.096	0.096	0.088	0.088	0.088
98	0.096	0.096	0.088	0.088	0.081
99	0.096	0.096	0.088	0.096	0.081
100	0.096	0.096	0.088	0.096	0.088
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

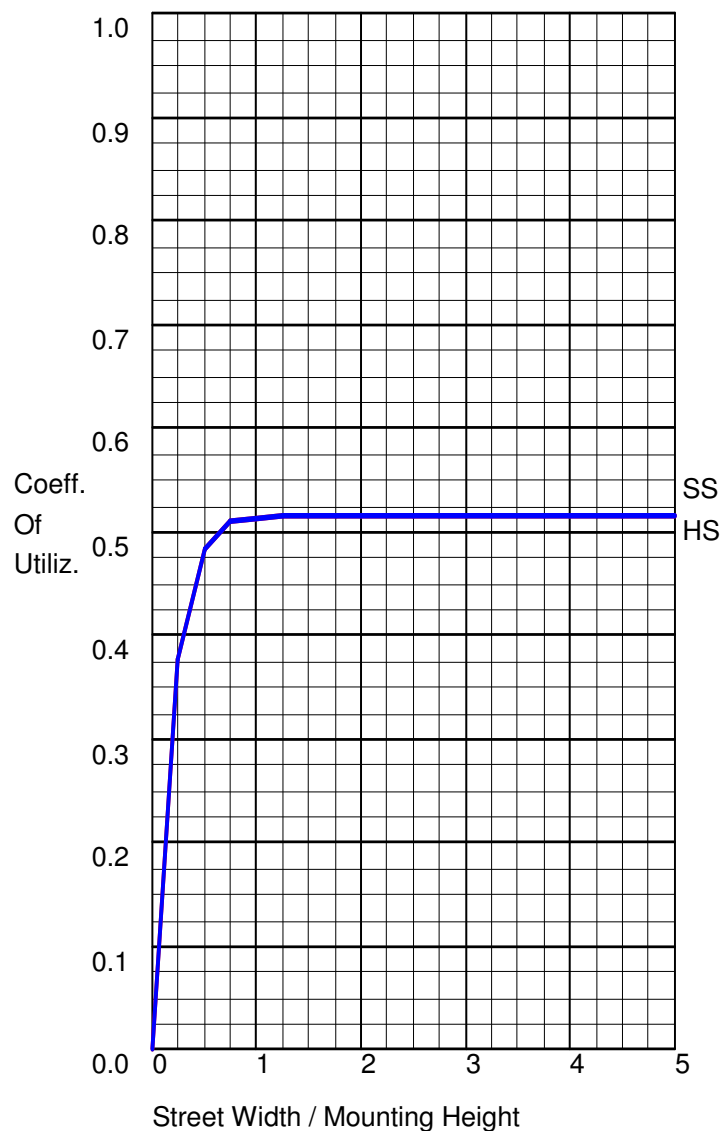
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

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-L20-827-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

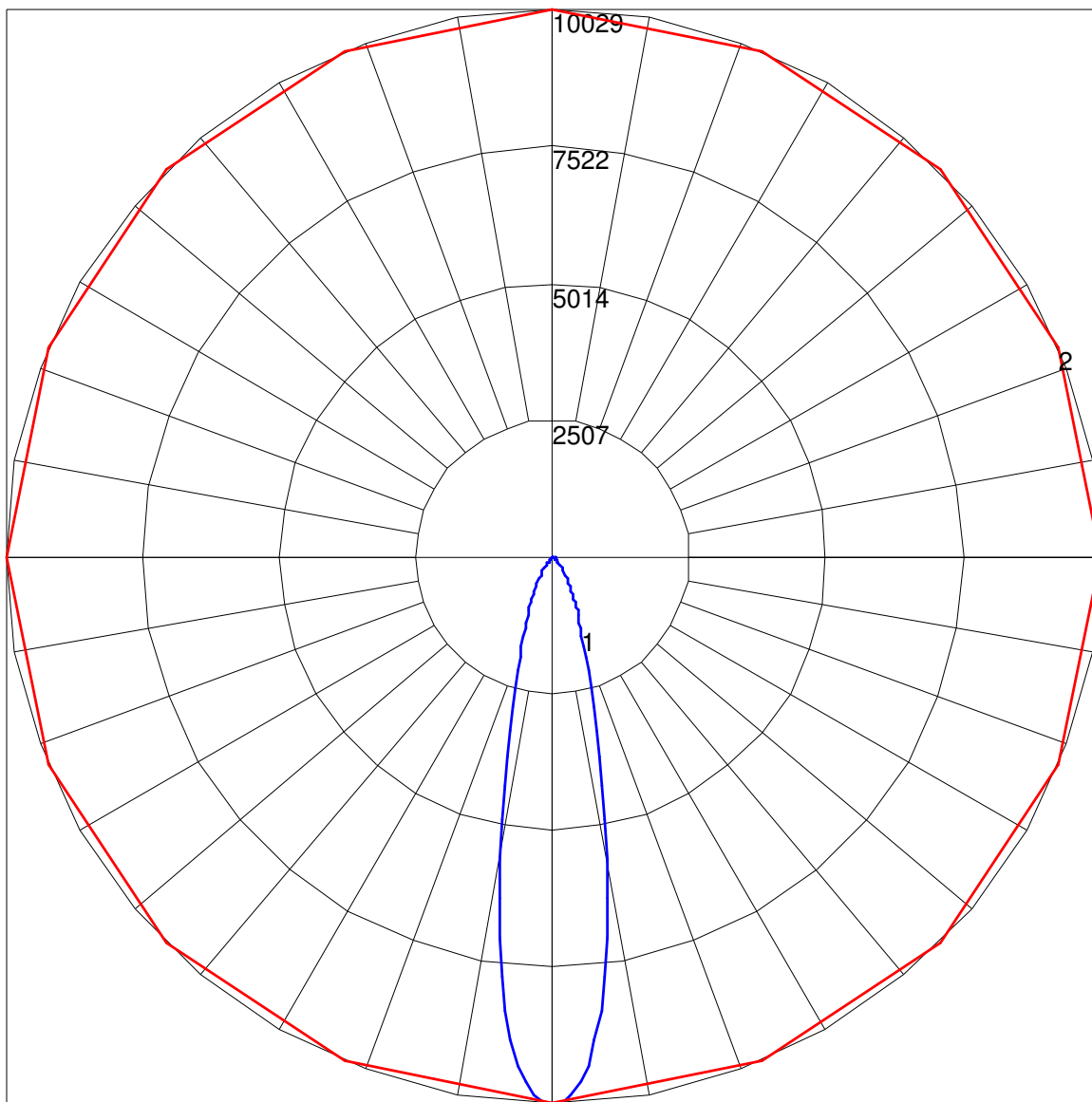
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1118.6	50.0
Downward House Side	1118.6	50.0
Downward Total	2237.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2237.4	100.0

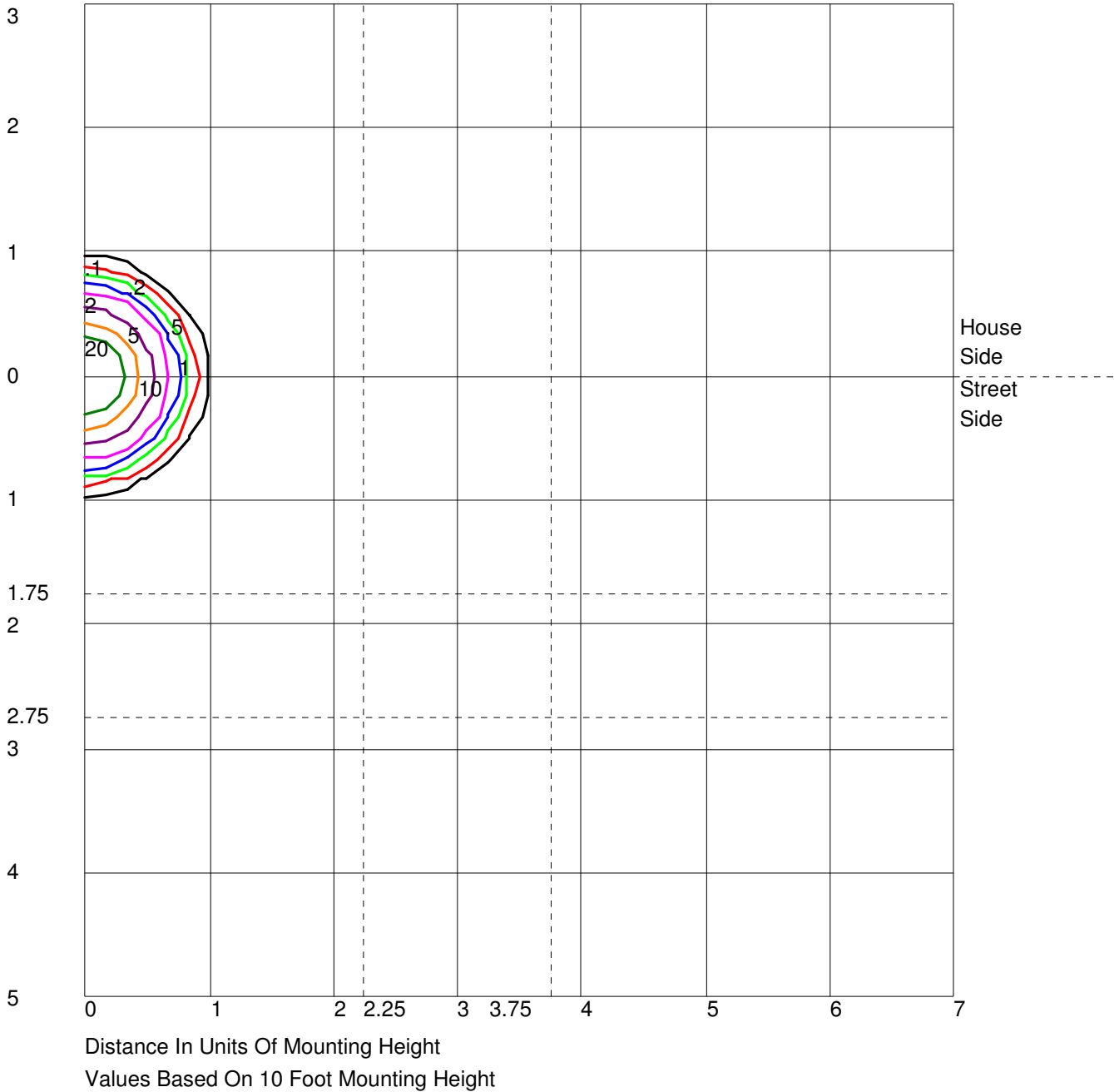
POLAR GRAPH



Maximum Candela = 10028.807 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

