

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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-L20-950-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	2169
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9721.804
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	9721.804
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	.442 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	984.5	N.A.	45.4
FM - Front-Medium (30-60)	96.7	N.A.	4.5
FH - Front-High (60-80)	2.9	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	984.5	N.A.	45.4
BM - Back-Medium (30-60)	96.7	N.A.	4.5
BH - Back-High (60-80)	2.9	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	2168.7	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	9721.804	9721.804	9721.804	9721.804	9721.804
1	9704.022	9699.873	9700.707	9697.064	9700.792
2	9582.083	9580.408	9573.962	9570.925	9581.335
3	9370.510	9363.088	9357.377	9351.516	9374.859
4	9054.030	9051.599	9041.853	9038.951	9067.676
5	8630.705	8623.069	8620.324	8616.674	8652.907
6	8099.301	8096.485	8099.037	8104.534	8134.572
7	7474.741	7477.642	7495.552	7511.765	7523.836
8	6779.753	6792.380	6827.002	6856.340	6848.070
9	6061.566	6080.452	6134.559	6173.373	6141.924
10	5362.243	5385.151	5452.520	5500.010	5446.680
11	4696.602	4723.424	4801.658	4849.819	4783.648
12	4082.066	4118.106	4194.372	4251.303	4175.978
13	3547.575	3577.940	3658.234	3718.708	3643.419
14	3084.851	3110.147	3185.536	3243.943	3174.293
15	2686.237	2710.963	2785.810	2839.262	2769.868
16	2352.917	2379.190	2433.625	2481.287	2420.927
17	2087.272	2089.397	2143.362	2182.005	2135.519
18	1840.065	1856.634	1898.314	1929.571	1894.165
19	1644.462	1653.666	1698.712	1726.439	1700.466
20	1481.021	1493.320	1524.191	1547.470	1521.610
21	1348.466	1355.874	1382.139	1401.340	1376.699
22	1235.931	1243.004	1263.523	1276.349	1255.466
23	1141.855	1145.555	1161.354	1172.056	1153.255
24	1059.906	1061.881	1074.408	1080.340	1064.127
25	985.486	987.932	995.874	997.657	984.018
26	918.382	918.204	921.376	920.171	908.279
27	849.117	845.623	846.864	844.618	833.760
28	775.154	771.075	769.828	768.516	760.623
29	697.297	693.483	692.086	694.360	688.307
30	614.500	613.146	612.041	616.739	613.310
31	530.876	531.204	531.504	539.097	537.051
32	450.111	451.651	452.371	462.332	463.230
33	371.257	374.223	376.832	386.907	391.413
34	298.163	303.247	306.634	317.378	324.408
35	235.743	240.071	241.497	251.649	261.624
36	177.208	183.404	187.846	194.555	205.570
37	131.500	139.428	141.275	147.207	159.299
38	96.764	102.275	103.794	110.795	120.000
39	73.429	74.298	76.901	81.492	86.968
40	53.073	55.383	58.970	62.299	65.301
41	40.047	41.965	44.404	47.170	50.236
42	31.171	32.775	35.221	37.360	39.791
43	25.232	26.366	28.640	30.522	32.290
44	21.111	21.931	23.899	25.574	26.337
45	18.117	18.737	20.448	21.738	22.081
46	15.942	16.398	17.888	18.822	19.036
47	14.267	14.644	15.913	16.562	16.676
48	12.940	13.304	14.345	14.808	14.873
49	11.899	12.199	13.133	13.425	13.432
50	11.051	11.315	12.120	12.313	12.277
51	10.302	10.552	11.272	11.407	11.336
52	9.618	9.832	10.466	10.509	10.359

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	8.991	9.183	9.732	9.689	9.490
54	8.442	8.627	9.083	8.962	8.734
55	7.964	8.121	8.506	8.335	8.057
56	7.536	7.650	7.992	7.793	7.458
57	7.130	7.222	7.493	7.301	6.951
58	6.745	6.823	7.051	6.859	6.531
59	6.388	6.445	6.616	6.445	6.139
60	6.032	6.082	6.217	6.046	5.747
61	5.675	5.718	5.839	5.675	5.390
62	5.319	5.354	5.461	5.297	5.019
63	4.962	5.005	5.091	4.927	4.663
64	4.613	4.649	4.734	4.563	4.306
65	4.271	4.313	4.378	4.214	3.971
66	3.936	3.971	4.035	3.879	3.629
67	3.615	3.658	3.715	3.572	3.322
68	3.322	3.351	3.415	3.258	3.023
69	3.037	3.073	3.130	2.980	2.738
70	2.766	2.802	2.866	2.702	2.460
71	2.510	2.538	2.602	2.438	2.196
72	2.260	2.289	2.339	2.182	1.946
73	2.011	2.039	2.082	1.918	1.711
74	1.754	1.782	1.811	1.668	1.454
75	1.490	1.511	1.519	1.405	1.191
76	1.233	1.248	1.212	1.141	0.948
77	1.005	1.012	0.948	0.884	0.727
78	0.777	0.756	0.656	0.606	0.535
79	0.485	0.499	0.478	0.471	0.449
80	0.442	0.442	0.442	0.435	0.421
81	0.414	0.414	0.421	0.414	0.392
82	0.392	0.392	0.399	0.392	0.371
83	0.364	0.364	0.371	0.371	0.349
84	0.335	0.335	0.335	0.328	0.321
85	0.292	0.299	0.307	0.299	0.285
86	0.257	0.257	0.257	0.257	0.250
87	0.214	0.214	0.214	0.214	0.207
88	0.164	0.164	0.171	0.164	0.157
89	0.121	0.114	0.121	0.114	0.114
90	0.100	0.086	0.093	0.086	0.086
91	0.093	0.086	0.086	0.086	0.078
92	0.086	0.086	0.086	0.086	0.078
93	0.093	0.086	0.086	0.086	0.078
94	0.093	0.086	0.086	0.086	0.078
95	0.093	0.086	0.086	0.086	0.078
96	0.093	0.093	0.086	0.086	0.078
97	0.093	0.093	0.086	0.086	0.086
98	0.093	0.093	0.086	0.086	0.078
99	0.093	0.093	0.086	0.093	0.078
100	0.093	0.093	0.086	0.093	0.086
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

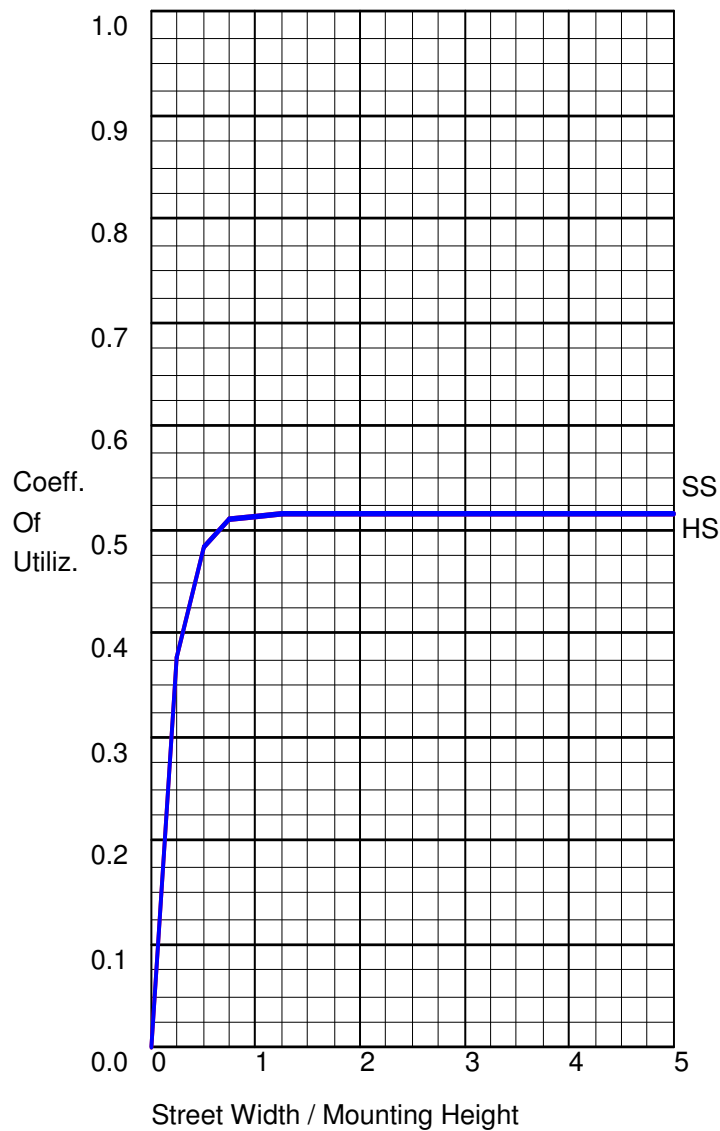
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L20-950-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

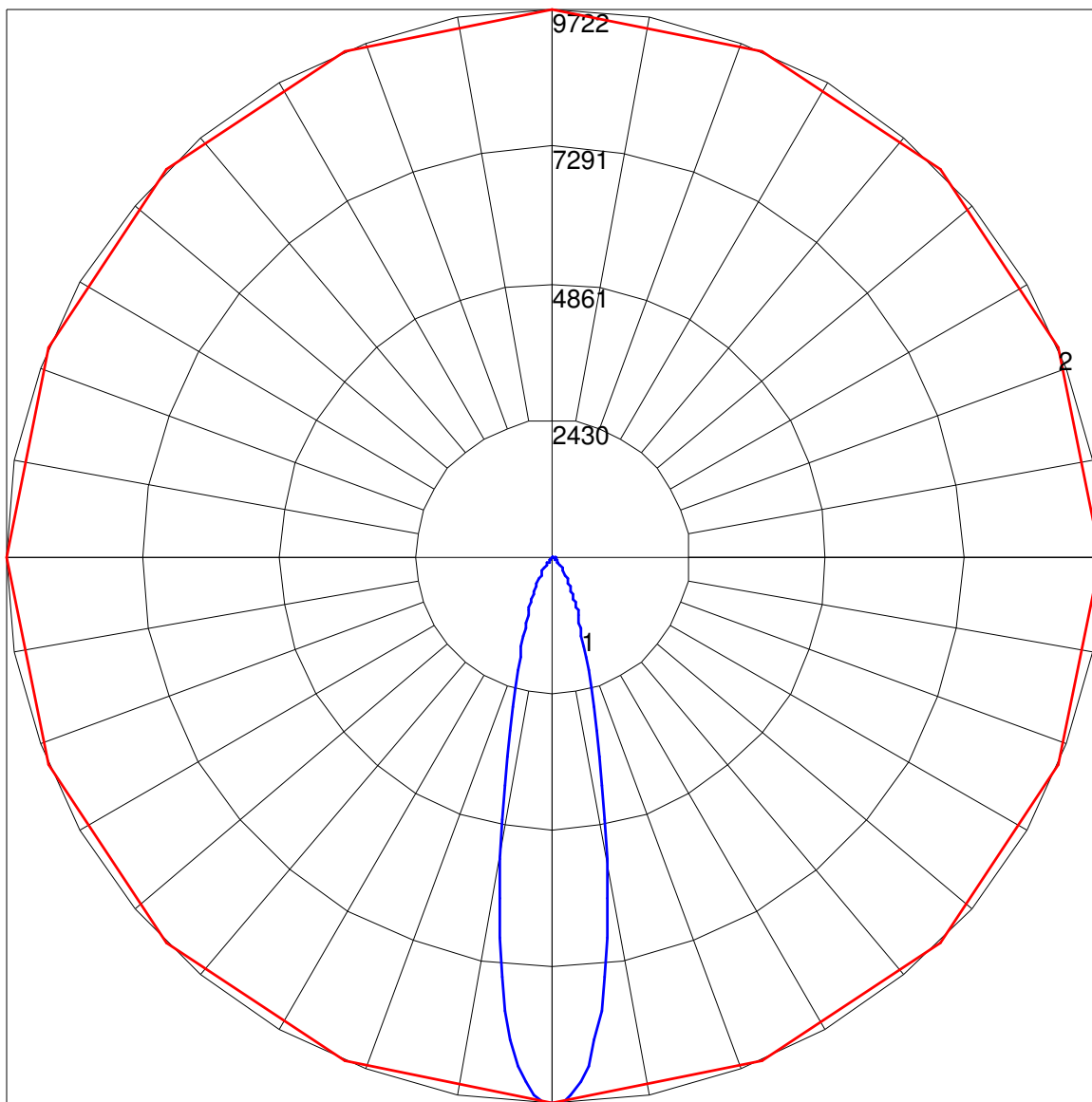
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1084.3	50.0
Downward House Side	1084.3	50.0
Downward Total	2168.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2168.6	100.0

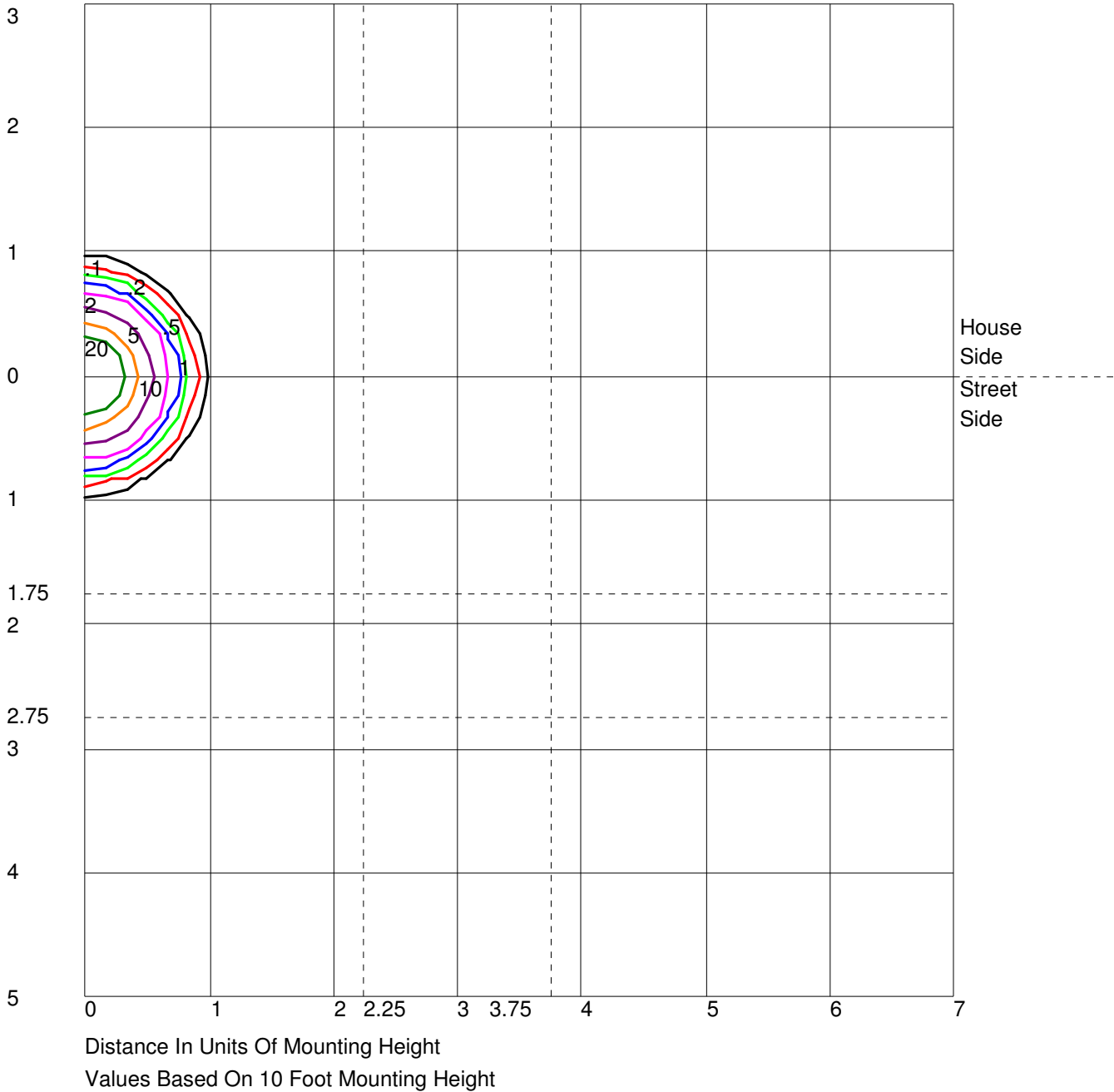
POLAR GRAPH



Maximum Candela = 9721.804 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

