

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-927-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-L20-927-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	2043
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5792.962
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5792.962
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.187 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.934 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	897.8	N.A.	44.0
FM - Front-Medium (30-60)	117.3	N.A.	5.7
FH - Front-High (60-80)	5.8	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	897.8	N.A.	44.0
BM - Back-Medium (30-60)	117.3	N.A.	5.7
BH - Back-High (60-80)	5.8	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2042.6	N.A.	100.0
BUG Rating	B2-U1-G0		

# IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES

## CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	0.0	22.5	45.0	67.5	90.0
0	5792.962	5792.962	5792.962	5792.962	5792.962
1	5786.086	5785.823	5784.703	5784.419	5786.529
2	5757.664	5755.976	5754.862	5745.593	5743.663
3	5704.596	5695.970	5697.423	5691.993	5694.753
4	5619.903	5615.157	5610.343	5604.477	5609.326
5	5502.222	5509.443	5495.139	5486.126	5498.030
6	5356.444	5361.473	5350.959	5346.933	5355.372
7	5193.034	5186.097	5178.937	5180.259	5186.837
8	4994.140	4984.034	4981.323	4979.912	4989.685
9	4762.500	4756.628	4749.323	4749.309	4767.481
10	4503.247	4496.607	4491.813	4491.447	4514.709
11	4212.667	4207.105	4210.197	4215.454	4236.351
12	3899.329	3896.099	3903.694	3912.824	3940.161
13	3571.251	3574.308	3586.593	3599.141	3624.360
14	3239.617	3245.442	3266.705	3282.434	3301.691
15	2914.583	2924.972	2952.572	2970.508	2988.872
16	2604.337	2620.419	2651.740	2676.143	2685.654
17	2324.727	2341.197	2378.065	2397.398	2403.132
18	2074.653	2081.446	2122.319	2142.060	2148.147
19	1837.791	1857.850	1899.996	1916.196	1922.048
20	1639.353	1660.090	1697.284	1720.906	1726.294
21	1471.648	1489.425	1526.134	1544.485	1542.645
22	1330.940	1348.869	1380.702	1395.733	1392.800
23	1215.936	1229.141	1258.027	1271.329	1266.307
24	1117.506	1128.587	1156.436	1165.988	1160.752
25	1031.672	1043.382	1068.602	1076.128	1069.329
26	954.664	966.312	988.772	995.115	989.194
27	883.203	891.843	913.127	918.543	913.431
28	811.009	817.470	836.160	840.794	837.350
29	737.923	743.457	756.613	762.410	761.040
30	661.807	663.952	675.503	681.819	680.110
31	581.438	582.724	591.129	596.787	596.877
32	502.534	501.787	507.134	512.993	513.124
33	422.268	420.933	425.554	430.700	430.119
34	345.329	344.790	347.833	352.295	352.426
35	278.088	274.277	277.258	279.264	278.199
36	213.649	212.763	214.333	215.454	213.386
37	160.996	161.341	159.695	159.605	161.888
38	119.417	121.195	117.328	118.248	118.697
39	87.557	86.685	87.273	85.668	85.329
40	67.027	63.962	64.073	63.976	63.962
41	48.786	48.835	49.699	50.038	50.612
42	38.936	39.372	40.714	41.475	42.423
43	33.506	33.915	35.381	36.398	37.159
44	30.705	31.009	32.434	33.500	33.984
45	29.460	29.667	31.065	31.916	32.310
46	29.052	29.315	30.532	31.189	31.549
47	29.183	29.439	30.456	30.982	31.341
48	29.536	29.709	30.574	30.954	31.341
49	29.744	29.930	30.657	30.919	31.258
50	29.764	29.910	30.560	30.760	31.016
51	29.439	29.550	30.159	30.311	30.491
52	28.554	28.692	29.225	29.301	29.412

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	27.226	27.343	27.848	27.841	27.911
54	25.531	25.669	26.098	26.029	26.112
55	23.636	23.719	24.106	24.002	24.051
56	21.581	21.623	21.893	21.823	21.837
57	19.396	19.444	19.610	19.568	19.541
58	17.307	17.341	17.424	17.390	17.362
59	15.370	15.356	15.377	15.335	15.321
60	13.606	13.578	13.544	13.537	13.530
61	12.084	12.036	11.994	11.967	11.980
62	10.784	10.715	10.680	10.652	10.666
63	9.705	9.649	9.580	9.559	9.587
64	8.792	8.750	8.695	8.660	8.709
65	8.065	8.024	7.975	7.927	7.982
66	7.415	7.394	7.339	7.304	7.367
67	6.876	6.855	6.793	6.772	6.834
68	6.371	6.357	6.308	6.274	6.350
69	5.914	5.907	5.845	5.817	5.886
70	5.492	5.478	5.416	5.375	5.430
71	5.070	5.070	4.987	4.939	4.973
72	4.669	4.662	4.572	4.510	4.551
73	4.261	4.254	4.150	4.074	4.109
74	3.832	3.825	3.714	3.625	3.659
75	3.382	3.348	3.251	3.147	3.175
76	2.864	2.822	2.705	2.622	2.649
77	2.276	2.248	2.096	2.034	2.034
78	1.591	1.577	1.425	1.342	1.356
79	1.031	1.044	1.003	1.010	1.010
80	0.934	0.934	0.920	0.920	0.920
81	0.872	0.872	0.872	0.878	0.872
82	0.830	0.823	0.823	0.830	0.830
83	0.775	0.768	0.768	0.768	0.775
84	0.712	0.706	0.706	0.712	0.712
85	0.643	0.643	0.643	0.643	0.643
86	0.567	0.560	0.560	0.560	0.567
87	0.470	0.470	0.470	0.470	0.470
88	0.367	0.367	0.367	0.360	0.360
89	0.256	0.249	0.249	0.249	0.249
90	0.187	0.173	0.173	0.166	0.159
91	0.173	0.166	0.159	0.152	0.152
92	0.173	0.166	0.159	0.159	0.152
93	0.173	0.166	0.166	0.159	0.159
94	0.173	0.166	0.166	0.159	0.159
95	0.173	0.166	0.166	0.159	0.166
96	0.180	0.166	0.166	0.159	0.159
97	0.180	0.173	0.166	0.166	0.166
98	0.180	0.173	0.173	0.173	0.173
99	0.194	0.173	0.173	0.173	0.173
100	0.194	0.180	0.173	0.173	0.173
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

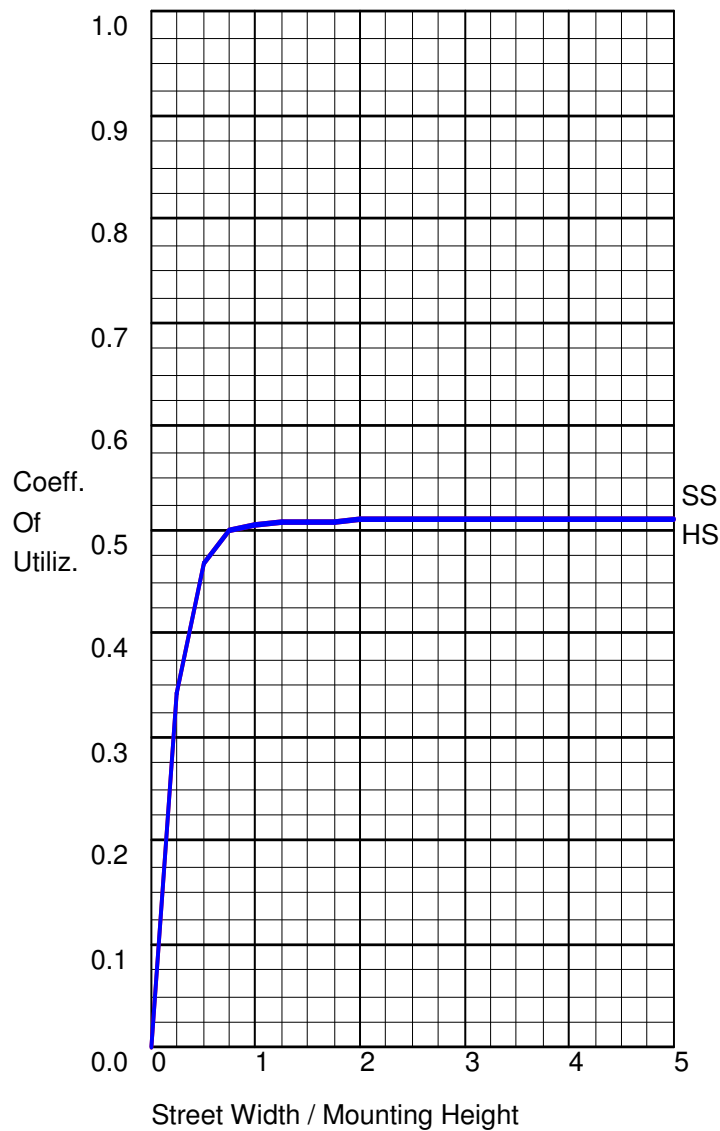
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L20-927-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

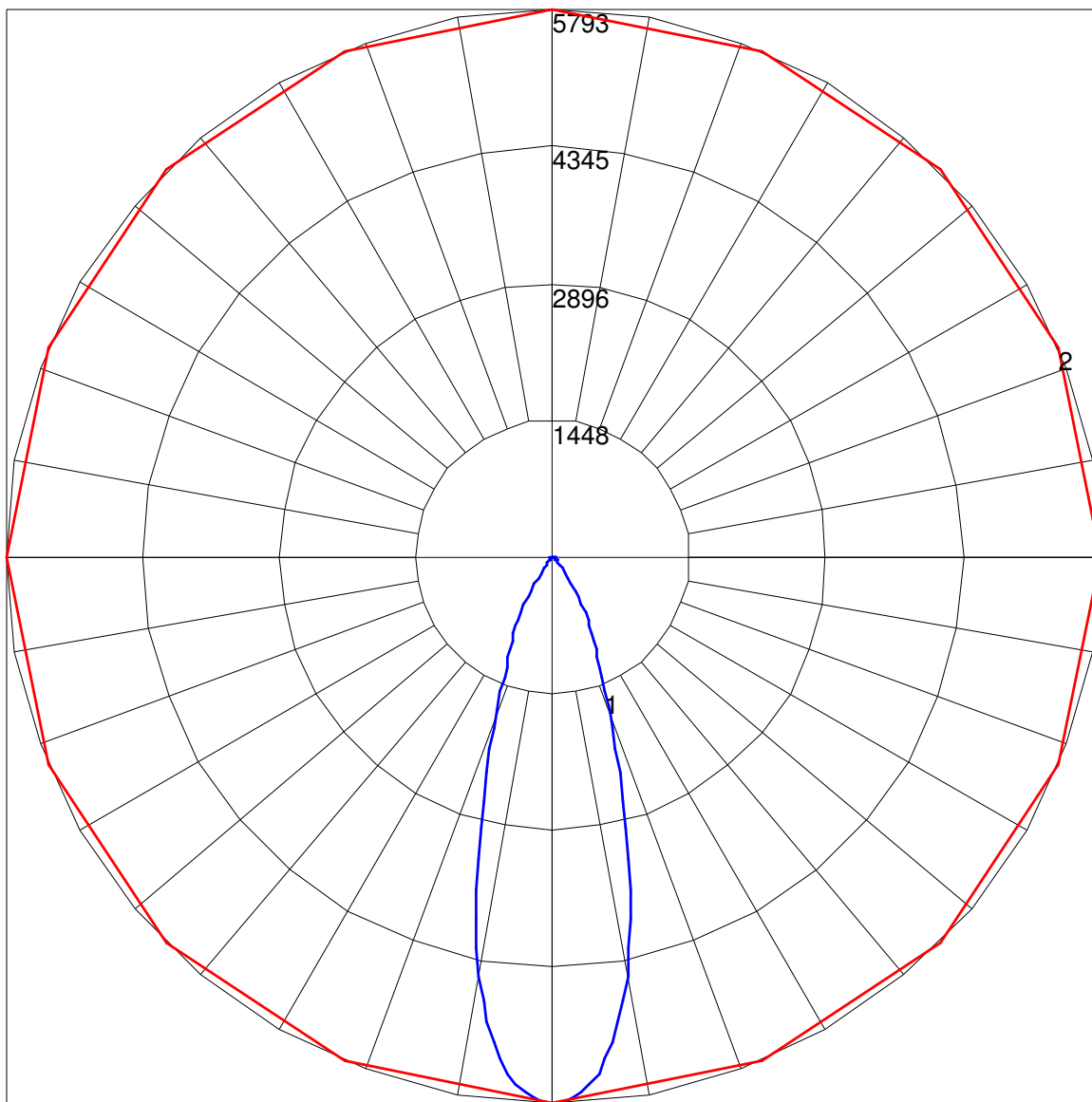
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1021.2	50.0
Downward House Side	1021.2	50.0
Downward Total	2042.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2042.6	100.0

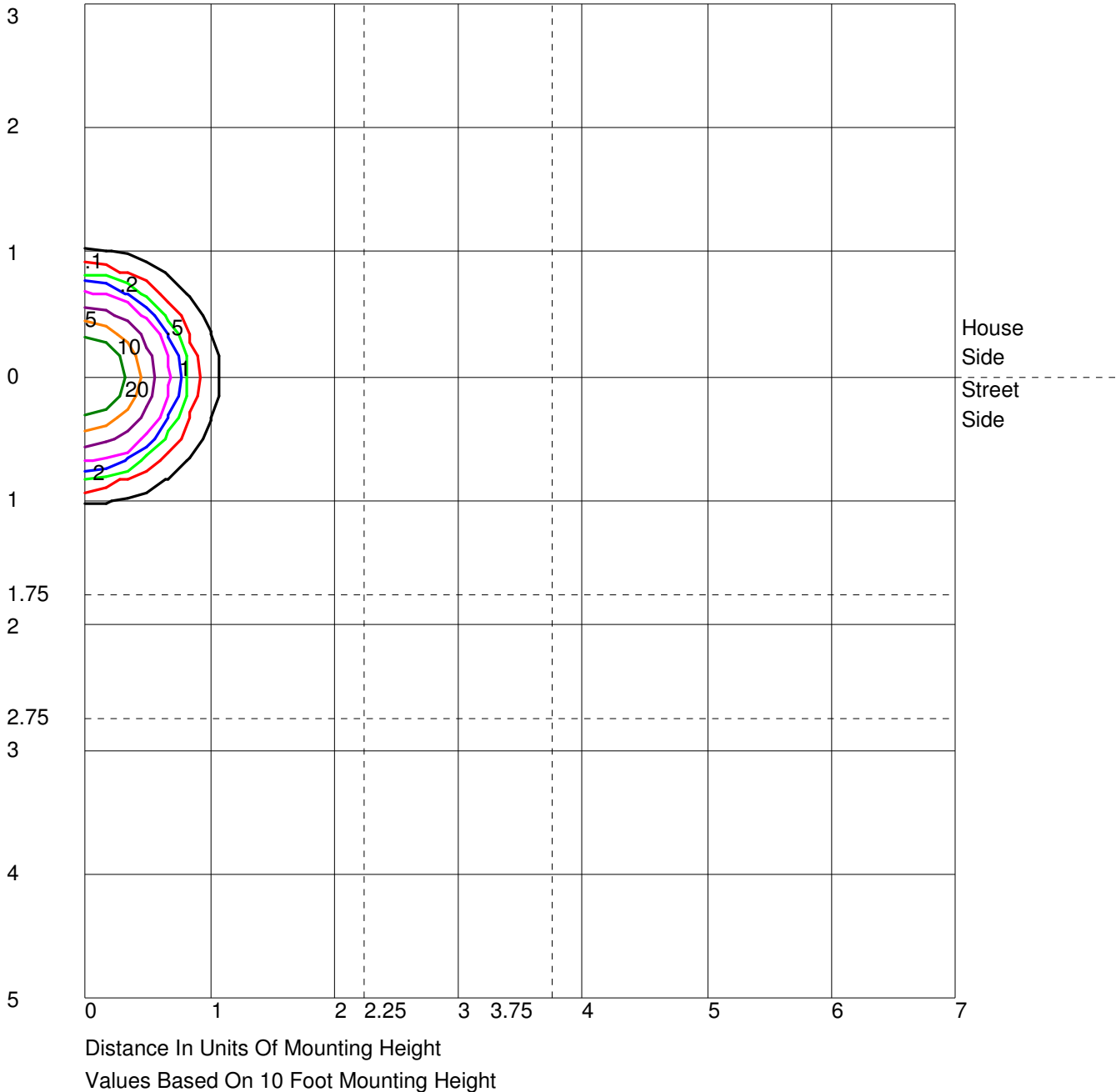
POLAR GRAPH



Maximum Candela = 5792.962 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

