

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-930-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-L20-930-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	2086
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5916.215
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5916.215
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.191 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.954 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	916.9	N.A.	43.9
FM - Front-Medium (30-60)	119.8	N.A.	5.7
FH - Front-High (60-80)	6.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	916.9	N.A.	43.9
BM - Back-Medium (30-60)	119.8	N.A.	5.7
BH - Back-High (60-80)	6.0	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	2086.2	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-N-XXX_.IES****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	5916.215	5916.215	5916.215	5916.215	5916.215
1	5909.194	5908.925	5907.781	5907.491	5909.646
2	5880.166	5878.443	5877.305	5867.839	5865.868
3	5825.969	5817.160	5818.644	5813.098	5815.917
4	5739.474	5734.628	5729.712	5723.721	5728.673
5	5619.290	5626.665	5612.056	5602.851	5615.009
6	5470.410	5475.546	5464.808	5460.697	5469.315
7	5303.524	5296.439	5289.127	5290.476	5297.194
8	5100.398	5090.077	5087.308	5085.867	5095.848
9	4863.830	4857.832	4850.372	4850.358	4868.916
10	4599.061	4592.279	4587.383	4587.009	4610.766
11	4302.298	4296.618	4299.776	4305.144	4326.486
12	3982.293	3978.994	3986.751	3996.075	4023.993
13	3647.235	3650.357	3662.903	3675.718	3701.474
14	3308.545	3314.493	3336.209	3352.273	3371.940
15	2976.595	2987.205	3015.392	3033.710	3052.465
16	2659.748	2676.173	2708.160	2733.082	2742.796
17	2374.189	2391.009	2428.662	2448.406	2454.263
18	2118.794	2125.732	2167.474	2187.636	2193.852
19	1876.893	1897.379	1940.422	1956.966	1962.942
20	1674.233	1695.411	1733.396	1757.520	1763.023
21	1502.959	1521.115	1558.605	1577.346	1575.467
22	1359.258	1377.569	1410.078	1425.429	1422.434
23	1241.807	1255.293	1284.793	1298.378	1293.249
24	1141.283	1152.600	1181.040	1190.796	1185.449
25	1053.622	1065.582	1091.338	1099.024	1092.080
26	974.976	986.872	1009.810	1016.287	1010.240
27	901.995	910.818	932.555	938.086	932.865
28	828.265	834.863	853.950	858.684	855.166
29	753.624	759.275	772.711	778.631	777.232
30	675.888	678.078	689.876	696.325	694.580
31	593.809	595.123	603.706	609.484	609.576
32	513.226	512.464	517.924	523.908	524.042
33	431.253	429.889	434.608	439.864	439.271
34	352.677	352.126	355.234	359.790	359.925
35	284.005	280.113	283.157	285.206	284.118
36	218.194	217.290	218.894	220.038	217.926
37	164.421	164.774	163.093	163.001	165.332
38	121.958	123.773	119.824	120.764	121.223
39	89.420	88.529	89.130	87.491	87.145
40	68.453	65.323	65.436	65.337	65.323
41	49.824	49.874	50.757	51.103	51.689
42	39.765	40.210	41.580	42.357	43.325
43	34.219	34.636	36.134	37.172	37.949
44	31.358	31.669	33.124	34.212	34.707
45	30.087	30.299	31.726	32.595	32.997
46	29.670	29.938	31.182	31.853	32.220
47	29.804	30.066	31.104	31.641	32.008
48	30.164	30.341	31.224	31.613	32.008
49	30.376	30.567	31.309	31.577	31.923
50	30.398	30.546	31.210	31.415	31.676
51	30.066	30.179	30.800	30.956	31.139
52	29.161	29.303	29.847	29.924	30.037

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	27.805	27.925	28.441	28.434	28.504
54	26.074	26.216	26.654	26.583	26.668
55	24.139	24.223	24.619	24.513	24.562
56	22.041	22.083	22.358	22.288	22.302
57	19.808	19.858	20.027	19.985	19.957
58	17.675	17.710	17.795	17.760	17.731
59	15.697	15.683	15.704	15.661	15.647
60	13.895	13.867	13.832	13.825	13.818
61	12.341	12.292	12.249	12.221	12.235
62	11.013	10.943	10.907	10.879	10.893
63	9.911	9.855	9.784	9.763	9.791
64	8.979	8.936	8.880	8.844	8.894
65	8.237	8.195	8.145	8.096	8.152
66	7.573	7.552	7.495	7.460	7.523
67	7.022	7.001	6.937	6.916	6.980
68	6.506	6.492	6.443	6.407	6.485
69	6.040	6.033	5.969	5.941	6.012
70	5.609	5.595	5.531	5.489	5.545
71	5.178	5.178	5.093	5.044	5.079
72	4.768	4.761	4.669	4.606	4.648
73	4.352	4.345	4.239	4.161	4.196
74	3.914	3.907	3.794	3.702	3.737
75	3.454	3.419	3.320	3.214	3.243
76	2.925	2.882	2.762	2.677	2.706
77	2.324	2.296	2.140	2.077	2.077
78	1.625	1.611	1.455	1.370	1.385
79	1.053	1.067	1.024	1.031	1.031
80	0.954	0.954	0.940	0.940	0.940
81	0.890	0.890	0.890	0.897	0.890
82	0.848	0.841	0.841	0.848	0.848
83	0.791	0.784	0.784	0.784	0.791
84	0.728	0.721	0.721	0.728	0.728
85	0.657	0.657	0.657	0.657	0.657
86	0.579	0.572	0.572	0.572	0.579
87	0.480	0.480	0.480	0.480	0.480
88	0.374	0.374	0.374	0.367	0.367
89	0.261	0.254	0.254	0.254	0.254
90	0.191	0.177	0.177	0.170	0.162
91	0.177	0.170	0.162	0.155	0.155
92	0.177	0.170	0.162	0.162	0.155
93	0.177	0.170	0.170	0.162	0.162
94	0.177	0.170	0.170	0.162	0.162
95	0.177	0.170	0.170	0.162	0.170
96	0.184	0.170	0.170	0.162	0.162
97	0.184	0.177	0.170	0.170	0.170
98	0.184	0.177	0.177	0.177	0.177
99	0.198	0.177	0.177	0.177	0.177
100	0.198	0.184	0.177	0.177	0.177
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

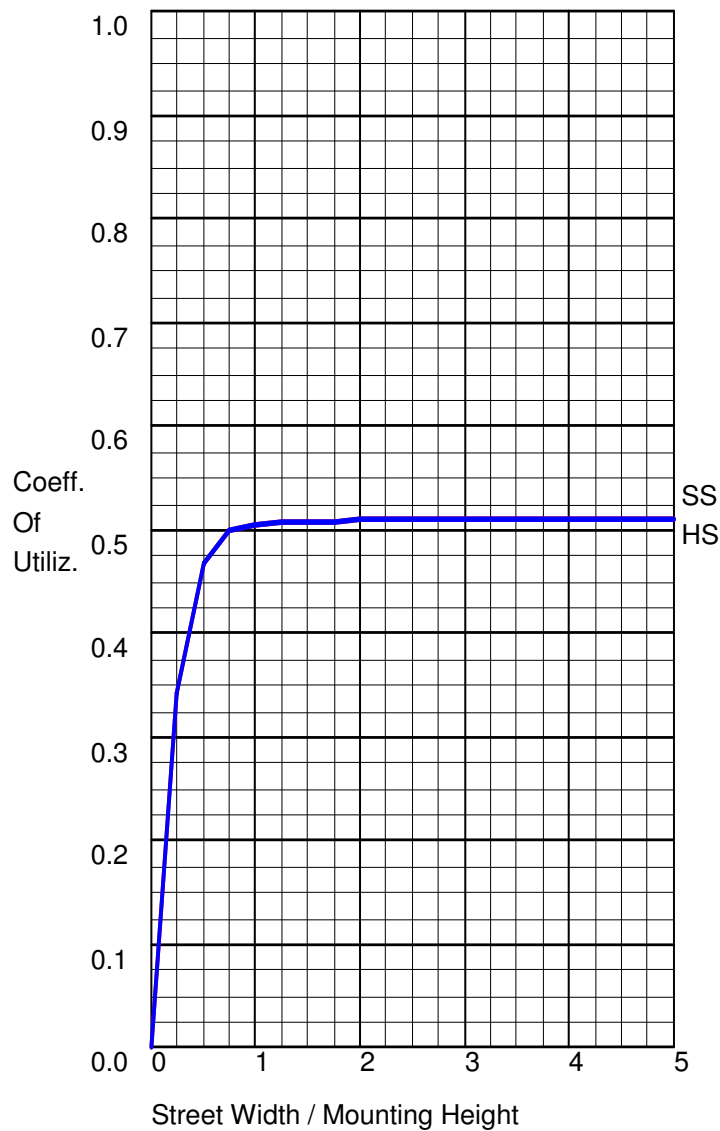
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-930-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

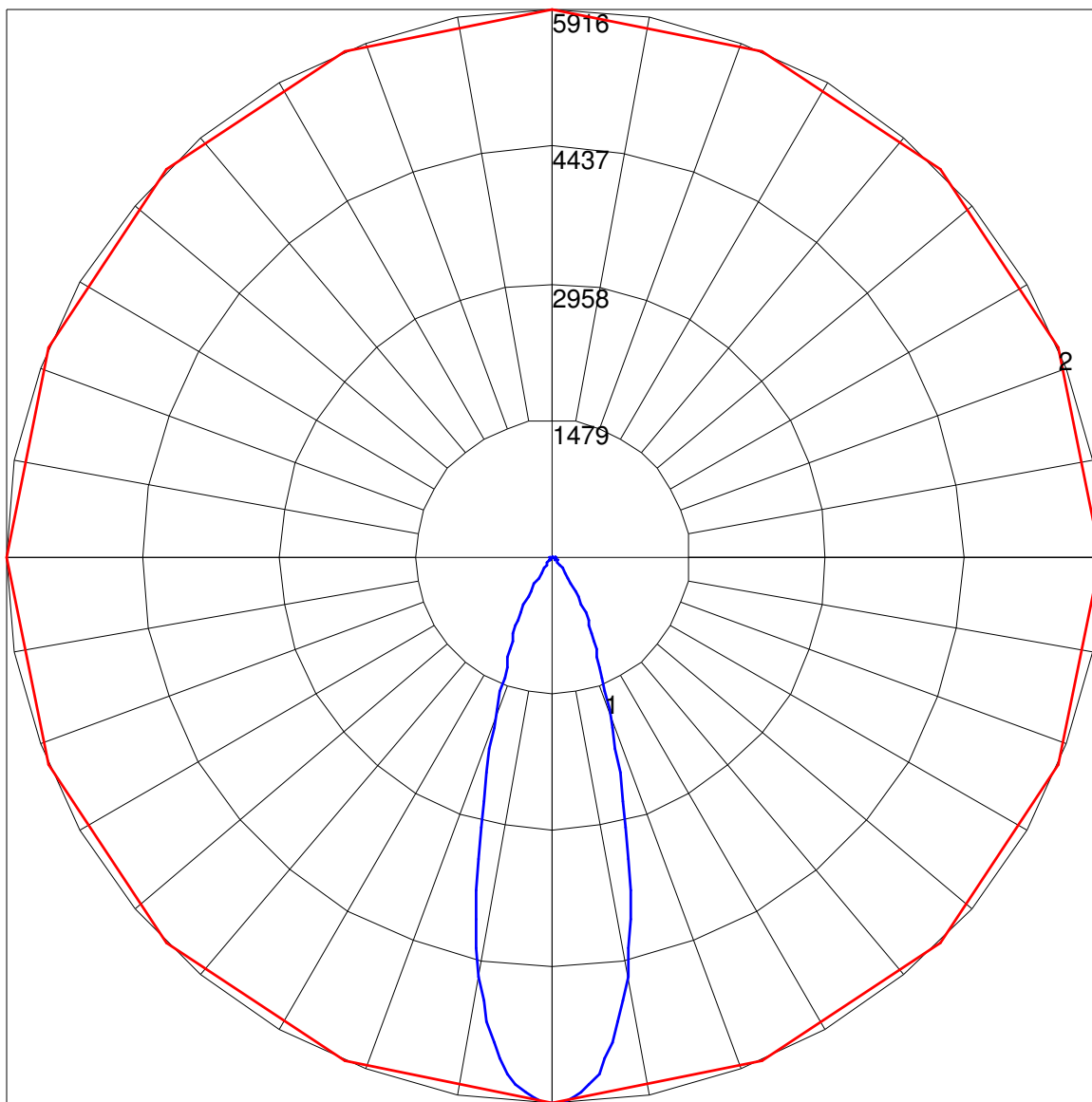
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1042.9	50.0
Downward House Side	1042.9	50.0
Downward Total	2085.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2086.0	100.0

POLAR GRAPH



Maximum Candela = 5916.215 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

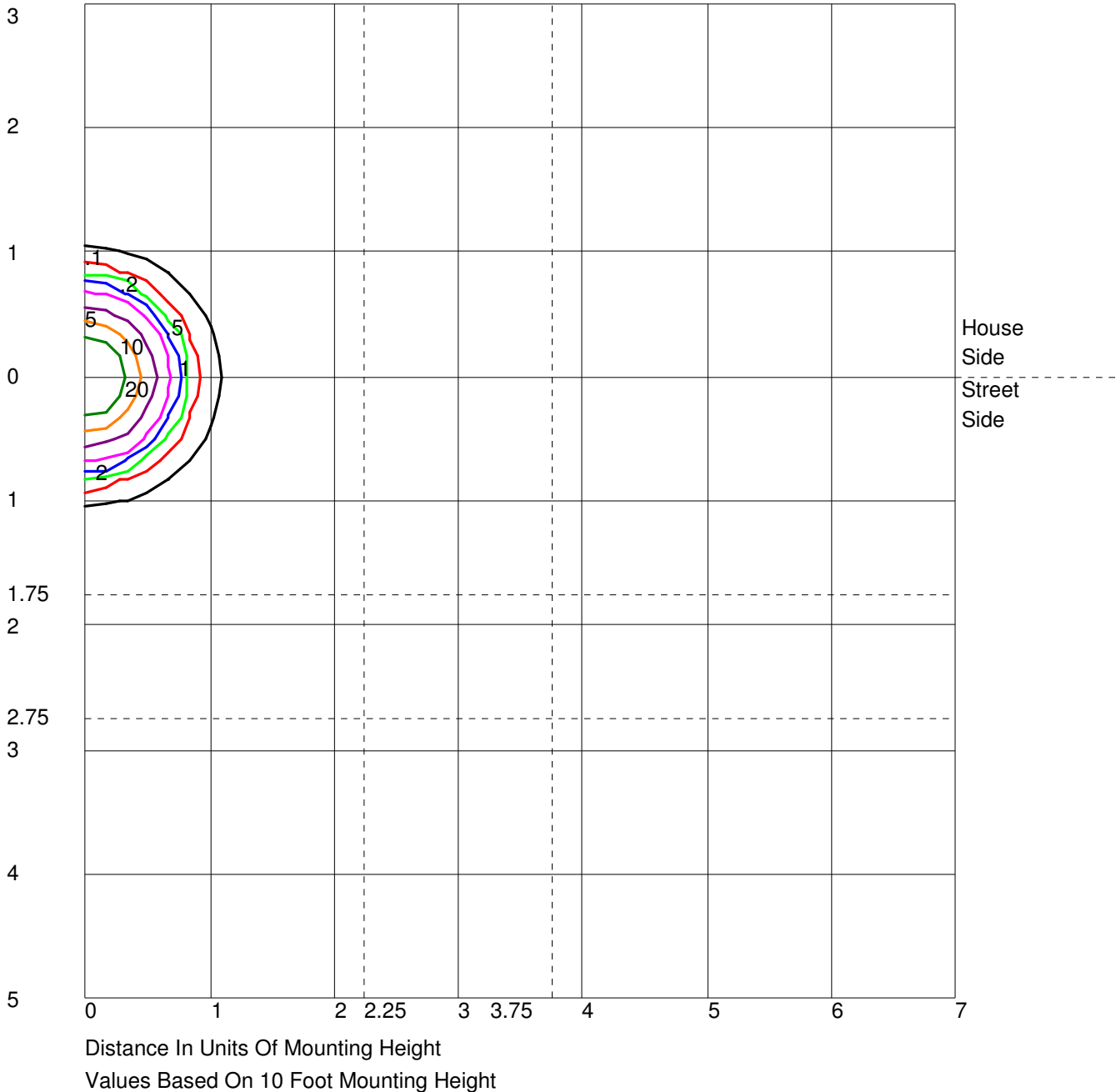


PHOTO IES R

