

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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-L20-950-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	2064
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5854.589
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5854.589
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.189 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.944 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	907.3	N.A.	44.0
FM - Front-Medium (30-60)	118.5	N.A.	5.7
FH - Front-High (60-80)	5.9	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	907.3	N.A.	44.0
BM - Back-Medium (30-60)	118.5	N.A.	5.7
BH - Back-High (60-80)	5.9	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	2064.2	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT
PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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	5854.589	5854.589	5854.589	5854.589	5854.589
1	5847.640	5847.374	5846.242	5845.955	5848.087
2	5818.915	5817.210	5816.084	5806.716	5804.766
3	5765.283	5756.565	5758.033	5752.546	5755.335
4	5679.689	5674.893	5670.028	5664.099	5669.000
5	5560.756	5568.054	5553.598	5544.489	5556.520
6	5413.427	5418.510	5407.884	5403.815	5412.344
7	5248.279	5241.268	5234.032	5235.368	5242.016
8	5047.269	5037.056	5034.315	5032.889	5042.767
9	4813.165	4807.230	4799.848	4799.834	4818.198
10	4551.154	4544.443	4539.599	4539.228	4562.738
11	4257.482	4251.862	4254.987	4260.300	4281.418
12	3940.811	3937.547	3945.222	3954.450	3982.077
13	3609.243	3612.333	3624.748	3637.429	3662.917
14	3274.081	3279.968	3301.457	3317.354	3336.816
15	2945.589	2956.089	2983.982	3002.109	3020.669
16	2632.043	2648.296	2679.950	2704.613	2714.225
17	2349.458	2366.103	2403.363	2422.902	2428.698
18	2096.724	2103.589	2144.897	2164.848	2171.000
19	1857.342	1877.615	1920.209	1936.581	1942.495
20	1656.793	1677.751	1715.340	1739.213	1744.659
21	1487.304	1505.270	1542.369	1560.916	1559.056
22	1345.099	1363.219	1395.390	1410.581	1407.617
23	1228.872	1242.217	1271.410	1284.853	1279.778
24	1129.394	1140.594	1168.738	1178.392	1173.100
25	1042.647	1054.482	1079.970	1087.576	1080.704
26	964.820	976.592	999.291	1005.701	999.717
27	892.599	901.330	922.841	928.314	923.148
28	819.637	826.166	845.055	849.739	846.258
29	745.774	751.366	764.662	770.521	769.136
30	668.848	671.015	682.690	689.072	687.345
31	587.623	588.923	597.417	603.136	603.226
32	507.880	507.125	512.529	518.450	518.583
33	426.760	425.411	430.081	435.282	434.695
34	349.003	348.458	351.534	356.043	356.176
35	281.047	277.195	280.208	282.235	281.158
36	215.921	215.027	216.613	217.746	215.656
37	162.708	163.058	161.394	161.303	163.610
38	120.687	122.484	118.576	119.506	119.960
39	88.488	87.607	88.202	86.580	86.237
40	67.740	64.643	64.755	64.657	64.643
41	49.305	49.354	50.228	50.571	51.151
42	39.351	39.791	41.147	41.916	42.874
43	33.863	34.275	35.757	36.785	37.554
44	31.032	31.339	32.779	33.856	34.345
45	29.773	29.983	31.395	32.255	32.654
46	29.361	29.627	30.857	31.521	31.885
47	29.494	29.752	30.780	31.311	31.675
48	29.850	30.025	30.899	31.283	31.675
49	30.060	30.249	30.983	31.248	31.591
50	30.081	30.228	30.885	31.088	31.346
51	29.752	29.864	30.479	30.633	30.815
52	28.858	28.997	29.536	29.613	29.724

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

53	27.515	27.634	28.145	28.138	28.207
54	25.803	25.942	26.376	26.306	26.390
55	23.887	23.971	24.363	24.258	24.307
56	21.811	21.853	22.126	22.056	22.070
57	19.602	19.651	19.819	19.777	19.749
58	17.491	17.526	17.610	17.575	17.547
59	15.533	15.519	15.540	15.498	15.484
60	13.751	13.723	13.688	13.681	13.674
61	12.213	12.164	12.122	12.094	12.108
62	10.898	10.829	10.794	10.766	10.780
63	9.808	9.752	9.682	9.661	9.689
64	8.885	8.843	8.787	8.752	8.801
65	8.151	8.109	8.060	8.011	8.067
66	7.494	7.473	7.417	7.382	7.445
67	6.949	6.928	6.865	6.844	6.907
68	6.438	6.424	6.376	6.341	6.417
69	5.977	5.970	5.907	5.879	5.949
70	5.551	5.537	5.474	5.432	5.488
71	5.124	5.124	5.040	4.991	5.026
72	4.719	4.712	4.621	4.558	4.600
73	4.306	4.299	4.194	4.118	4.152
74	3.873	3.866	3.754	3.663	3.698
75	3.418	3.383	3.286	3.181	3.209
76	2.894	2.852	2.733	2.649	2.677
77	2.300	2.272	2.118	2.055	2.055
78	1.608	1.594	1.440	1.356	1.370
79	1.042	1.056	1.014	1.021	1.021
80	0.944	0.944	0.930	0.930	0.930
81	0.881	0.881	0.881	0.888	0.881
82	0.839	0.832	0.832	0.839	0.839
83	0.783	0.776	0.776	0.776	0.783
84	0.720	0.713	0.713	0.720	0.720
85	0.650	0.650	0.650	0.650	0.650
86	0.573	0.566	0.566	0.566	0.573
87	0.475	0.475	0.475	0.475	0.475
88	0.371	0.371	0.371	0.364	0.364
89	0.259	0.252	0.252	0.252	0.252
90	0.189	0.175	0.175	0.168	0.161
91	0.175	0.168	0.161	0.154	0.154
92	0.175	0.168	0.161	0.161	0.154
93	0.175	0.168	0.168	0.161	0.161
94	0.175	0.168	0.168	0.161	0.161
95	0.175	0.168	0.168	0.161	0.168
96	0.182	0.168	0.168	0.161	0.161
97	0.182	0.175	0.168	0.168	0.168
98	0.182	0.175	0.175	0.175	0.175
99	0.196	0.175	0.175	0.175	0.175
100	0.196	0.182	0.175	0.175	0.175
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

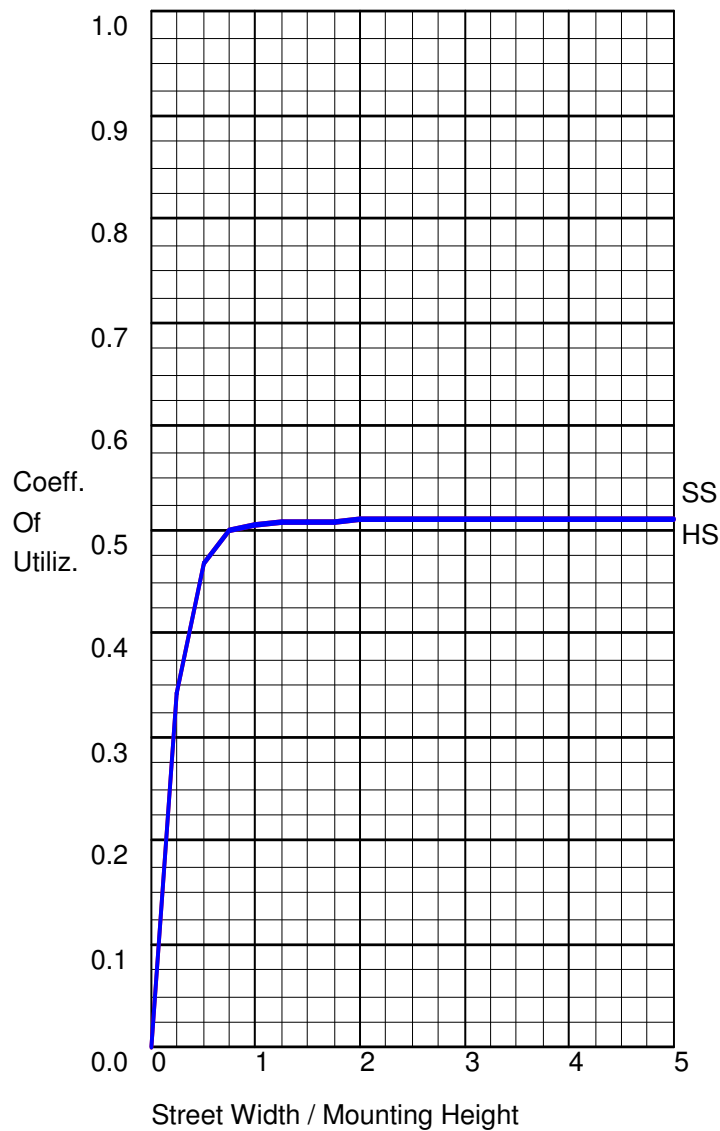
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-950-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

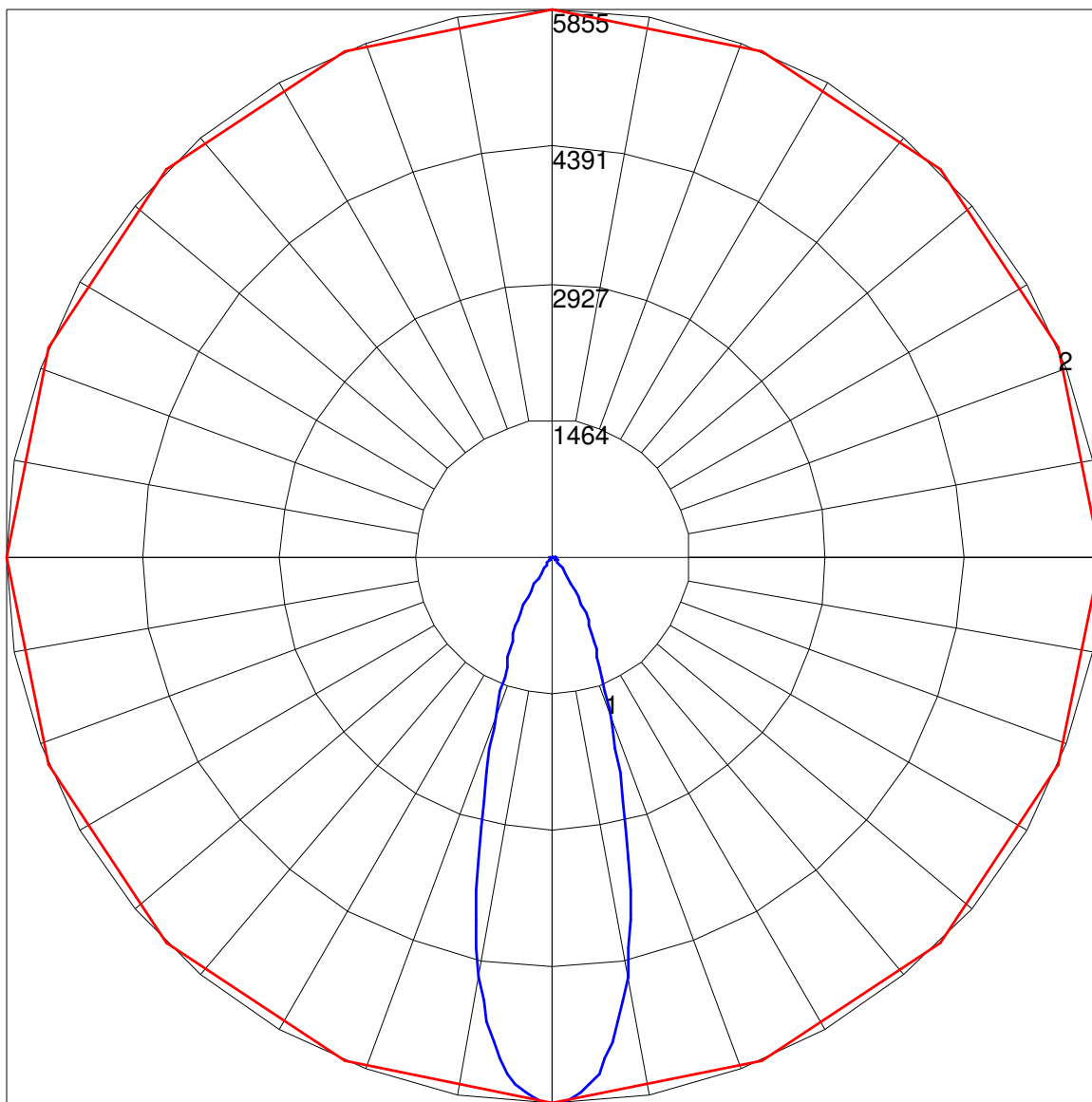
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1032.0	50.0
Downward House Side	1032.0	50.0
Downward Total	2064.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2064.2	100.0

POLAR GRAPH



Maximum Candela = 5854.589 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

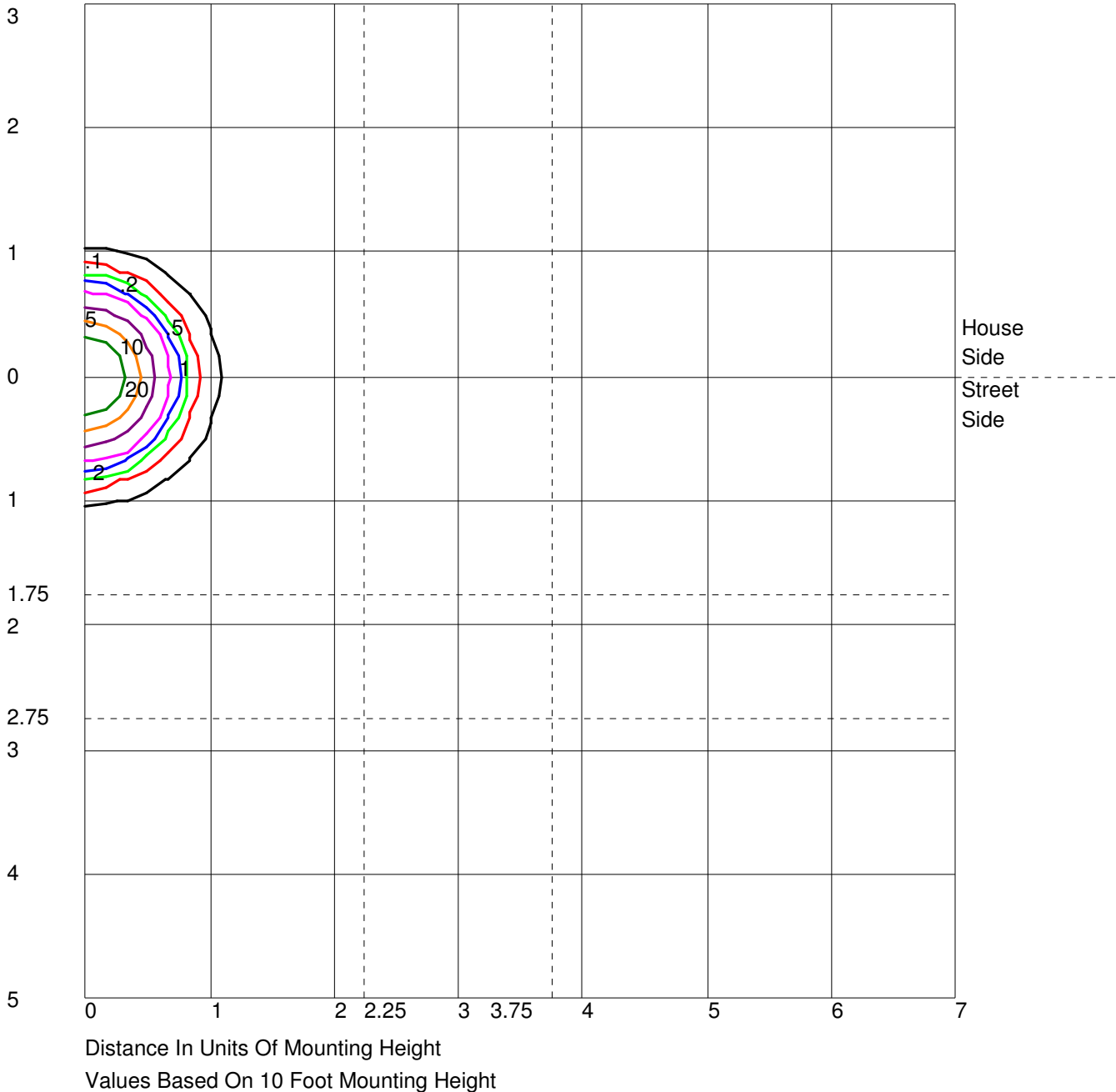


PHOTO IES R

