

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-940-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-L25-940-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	2617
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7422.099
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7422.099
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.239 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.196 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1150.2	N.A.	44.0
FM - Front-Medium (30-60)	150.2	N.A.	5.7
FH - Front-High (60-80)	7.5	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1150.2	N.A.	44.0
BM - Back-Medium (30-60)	150.2	N.A.	5.7
BH - Back-High (60-80)	7.5	N.A.	0.3
BVH - Back-Very High (80-90)	0.4	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	2616.8	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-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	7422.099	7422.099	7422.099	7422.099	7422.099
1	7413.290	7412.953	7411.517	7411.154	7413.857
2	7376.874	7374.712	7373.285	7361.409	7358.937
3	7308.882	7297.831	7299.692	7292.735	7296.271
4	7200.371	7194.291	7188.123	7180.608	7186.820
5	7049.595	7058.848	7040.520	7028.973	7044.225
6	6862.821	6869.264	6855.793	6850.635	6861.447
7	6653.456	6644.567	6635.394	6637.087	6645.515
8	6398.627	6385.679	6382.205	6380.397	6392.920
9	6101.844	6094.320	6084.961	6084.943	6108.225
10	5769.682	5761.174	5755.033	5754.563	5784.367
11	5397.382	5390.257	5394.219	5400.954	5427.727
12	4995.926	4991.787	5001.518	5013.216	5048.240
13	4575.583	4579.500	4595.240	4611.316	4643.628
14	4150.685	4158.147	4185.390	4205.543	4230.216
15	3734.242	3747.554	3782.914	3805.895	3829.424
16	3336.747	3357.352	3397.481	3428.747	3440.933
17	2978.503	2999.604	3046.841	3071.611	3078.958
18	2658.102	2666.804	2719.172	2744.465	2752.264
19	2354.627	2380.328	2434.327	2455.082	2462.580
20	2100.383	2126.953	2174.606	2204.871	2211.775
21	1885.515	1908.291	1955.324	1978.836	1976.478
22	1705.237	1728.208	1768.992	1788.250	1784.493
23	1557.891	1574.809	1611.818	1628.861	1622.426
24	1431.779	1445.977	1481.656	1493.895	1487.187
25	1321.806	1336.810	1369.122	1378.764	1370.053
26	1223.141	1238.065	1266.841	1274.968	1267.382
27	1131.584	1142.653	1169.922	1176.862	1170.312
28	1039.087	1047.365	1071.311	1077.248	1072.835
29	945.447	952.537	969.393	976.820	975.065
30	847.926	850.673	865.473	873.564	871.375
31	744.954	746.602	757.370	764.619	764.734
32	643.861	642.903	649.754	657.260	657.429
33	541.022	539.311	545.231	551.825	551.080
34	442.445	441.754	445.653	451.370	451.538
35	356.294	351.411	355.231	357.801	356.436
36	273.732	272.598	274.610	276.045	273.395
37	206.272	206.715	204.606	204.490	207.415
38	153.000	155.278	150.324	151.502	152.078
39	112.180	111.063	111.817	109.761	109.326
40	85.876	81.950	82.092	81.968	81.950
41	62.506	62.568	63.676	64.110	64.846
42	49.886	50.445	52.164	53.139	54.353
43	42.929	43.452	45.331	46.634	47.609
44	39.340	39.730	41.556	42.920	43.541
45	37.745	38.011	39.801	40.891	41.396
46	37.222	37.559	39.119	39.960	40.421
47	37.390	37.718	39.021	39.695	40.155
48	37.842	38.064	39.172	39.659	40.155
49	38.108	38.348	39.278	39.615	40.049
50	38.135	38.321	39.154	39.411	39.739
51	37.718	37.860	38.640	38.835	39.065
52	36.584	36.761	37.444	37.541	37.683

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	34.882	35.033	35.680	35.671	35.760
54	32.711	32.888	33.438	33.349	33.455
55	30.283	30.389	30.885	30.752	30.814
56	27.651	27.704	28.049	27.961	27.979
57	24.850	24.912	25.125	25.072	25.036
58	22.174	22.218	22.324	22.280	22.245
59	19.692	19.674	19.701	19.648	19.630
60	17.432	17.397	17.353	17.344	17.335
61	15.483	15.421	15.367	15.332	15.350
62	13.816	13.728	13.684	13.648	13.666
63	12.434	12.363	12.274	12.248	12.283
64	11.264	11.211	11.140	11.096	11.158
65	10.334	10.280	10.218	10.156	10.227
66	9.500	9.474	9.403	9.359	9.438
67	8.809	8.783	8.703	8.676	8.756
68	8.162	8.145	8.082	8.038	8.136
69	7.577	7.568	7.489	7.453	7.542
70	7.037	7.019	6.939	6.886	6.957
71	6.496	6.496	6.390	6.328	6.372
72	5.982	5.973	5.858	5.778	5.831
73	5.459	5.450	5.317	5.220	5.264
74	4.910	4.901	4.759	4.644	4.688
75	4.334	4.289	4.165	4.032	4.068
76	3.669	3.616	3.465	3.359	3.394
77	2.916	2.880	2.685	2.606	2.606
78	2.038	2.021	1.826	1.719	1.737
79	1.320	1.338	1.285	1.294	1.294
80	1.196	1.196	1.179	1.179	1.179
81	1.117	1.117	1.117	1.126	1.117
82	1.063	1.055	1.055	1.063	1.063
83	0.993	0.984	0.984	0.984	0.993
84	0.913	0.904	0.904	0.913	0.913
85	0.824	0.824	0.824	0.824	0.824
86	0.727	0.718	0.718	0.718	0.727
87	0.603	0.603	0.603	0.603	0.603
88	0.470	0.470	0.470	0.461	0.461
89	0.328	0.319	0.319	0.319	0.319
90	0.239	0.222	0.222	0.213	0.204
91	0.222	0.213	0.204	0.195	0.195
92	0.222	0.213	0.204	0.204	0.195
93	0.222	0.213	0.213	0.204	0.204
94	0.222	0.213	0.213	0.204	0.204
95	0.222	0.213	0.213	0.204	0.213
96	0.230	0.213	0.213	0.204	0.204
97	0.230	0.222	0.213	0.213	0.213
98	0.230	0.222	0.222	0.222	0.222
99	0.248	0.222	0.222	0.222	0.222
100	0.248	0.230	0.222	0.222	0.222
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

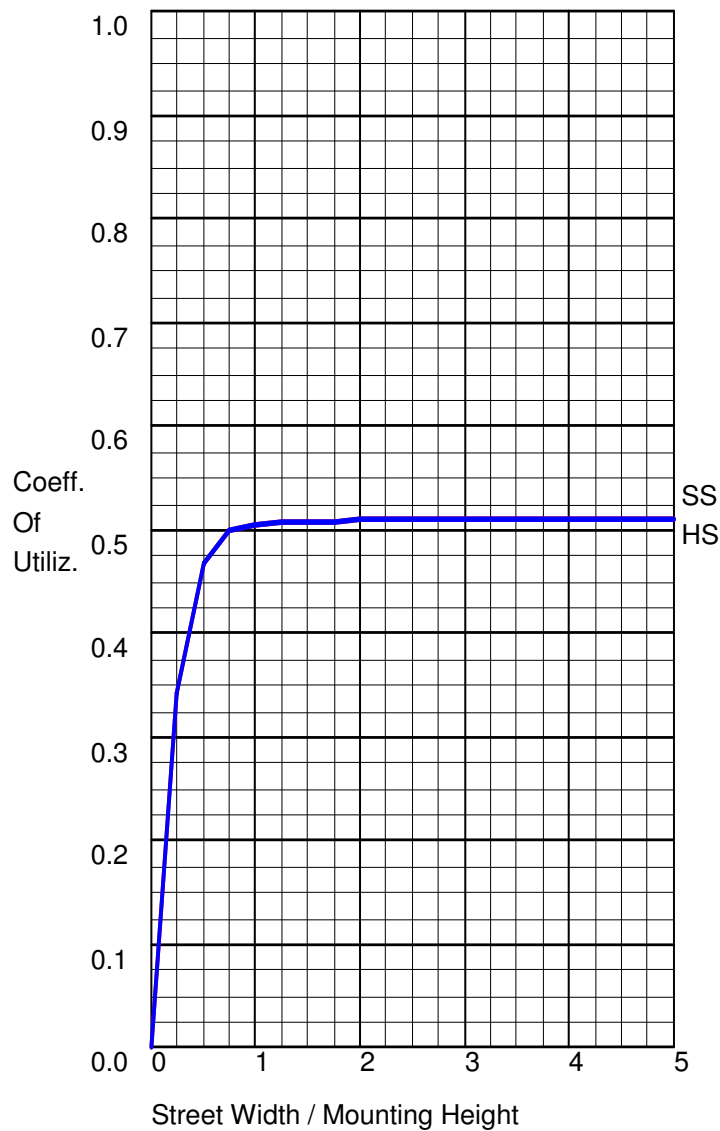
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-940-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

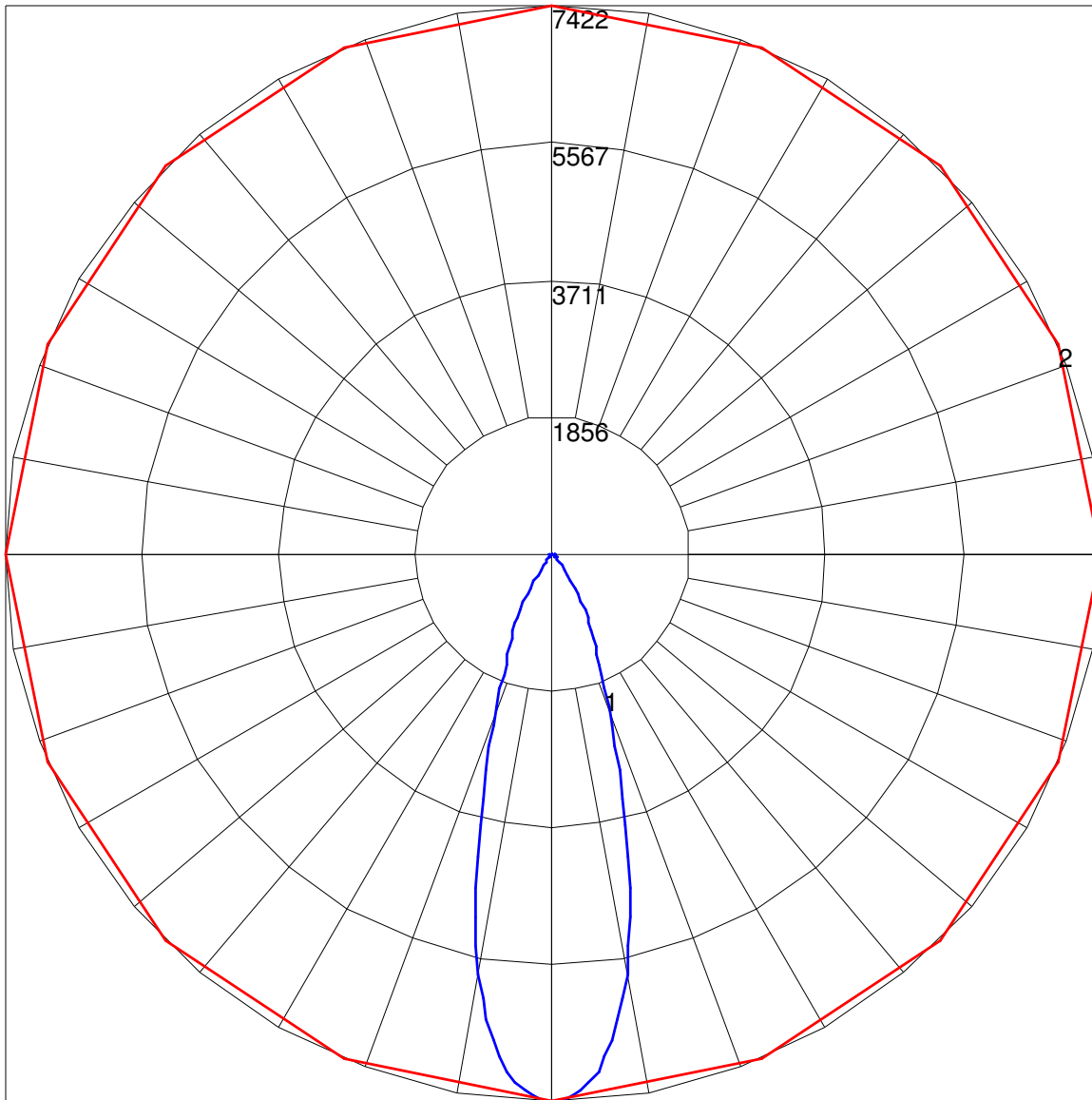
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1308.4	50.0
Downward House Side	1308.4	50.0
Downward Total	2616.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2617.0	100.0

POLAR GRAPH



Maximum Candela = 7422.099 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

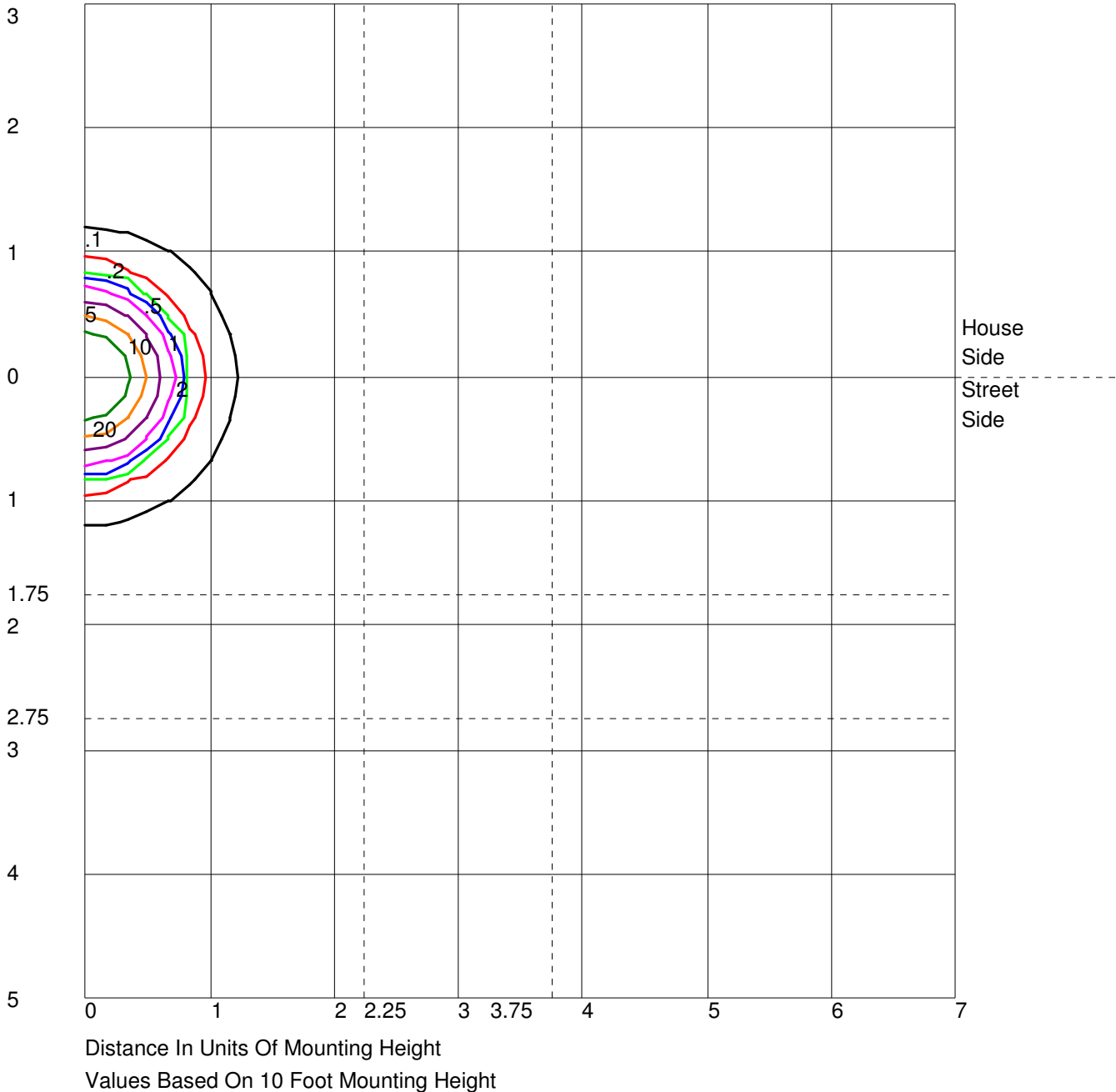


PHOTO IES R

