

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-927-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-L20-927-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	2146
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9619.468
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	9619.468
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.099 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.437 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	974.2	N.A.	45.4
FM - Front-Medium (30-60)	95.7	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)	974.2	N.A.	45.4
BM - Back-Medium (30-60)	95.7	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	2146.1	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	9619.468	9619.468	9619.468	9619.468	9619.468
1	9601.874	9597.768	9598.593	9594.988	9598.678
2	9481.218	9479.560	9473.183	9470.178	9480.477
3	9271.872	9264.528	9258.877	9253.078	9276.175
4	8958.724	8956.318	8946.674	8943.803	8972.226
5	8539.855	8532.299	8529.583	8525.971	8561.823
6	8014.045	8011.258	8013.783	8019.223	8048.944
7	7396.058	7398.930	7416.651	7432.693	7444.637
8	6708.387	6720.880	6755.138	6784.168	6775.984
9	5997.759	6016.447	6069.985	6108.390	6077.272
10	5305.798	5328.465	5395.124	5442.115	5389.346
11	4647.163	4673.703	4751.113	4798.768	4733.293
12	4039.096	4074.757	4150.221	4206.552	4132.020
13	3510.231	3540.277	3619.726	3679.564	3605.067
14	3052.378	3077.408	3152.004	3209.796	3140.879
15	2657.961	2682.426	2756.486	2809.374	2740.712
16	2328.150	2354.146	2408.008	2455.168	2395.444
17	2065.301	2067.403	2120.800	2159.036	2113.040
18	1820.696	1837.091	1878.332	1909.259	1874.226
19	1627.152	1636.259	1680.830	1708.266	1682.566
20	1465.431	1477.600	1508.147	1531.180	1505.593
21	1334.271	1341.601	1367.590	1386.589	1362.208
22	1222.921	1229.919	1250.222	1262.914	1242.251
23	1129.835	1133.496	1149.130	1159.719	1141.115
24	1048.749	1050.703	1063.098	1068.968	1052.925
25	975.113	977.533	985.391	987.155	973.660
26	908.715	908.538	911.678	910.485	898.718
27	840.179	836.722	837.950	835.727	824.983
28	766.994	762.959	761.724	760.426	752.617
29	689.957	686.183	684.801	687.051	681.062
30	608.032	606.692	605.598	610.247	606.854
31	525.288	525.613	525.909	533.422	531.397
32	445.373	446.897	447.610	457.465	458.354
33	367.349	370.284	372.866	382.834	387.292
34	295.025	300.055	303.406	314.037	320.993
35	233.262	237.544	238.955	249.000	258.870
36	175.343	181.473	185.868	192.507	203.406
37	130.116	137.960	139.788	145.657	157.622
38	95.746	101.199	102.701	109.629	118.737
39	72.656	73.516	76.091	80.634	86.052
40	52.515	54.800	58.349	61.643	64.613
41	39.626	41.524	43.936	46.673	49.707
42	30.843	32.430	34.850	36.966	39.372
43	24.966	26.088	28.338	30.201	31.950
44	20.889	21.700	23.647	25.305	26.060
45	17.926	18.540	20.233	21.510	21.848
46	15.774	16.226	17.700	18.624	18.836
47	14.116	14.490	15.746	16.388	16.501
48	12.804	13.164	14.194	14.652	14.716
49	11.774	12.070	12.995	13.284	13.291
50	10.935	11.196	11.993	12.183	12.148
51	10.194	10.441	11.153	11.287	11.217
52	9.517	9.728	10.356	10.399	10.250

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

53	8.896	9.086	9.630	9.587	9.390
54	8.353	8.536	8.988	8.868	8.642
55	7.880	8.035	8.416	8.247	7.972
56	7.457	7.570	7.908	7.711	7.379
57	7.055	7.146	7.414	7.224	6.878
58	6.674	6.751	6.977	6.787	6.462
59	6.321	6.377	6.547	6.377	6.074
60	5.968	6.018	6.152	5.982	5.686
61	5.615	5.658	5.778	5.615	5.333
62	5.263	5.298	5.404	5.242	4.966
63	4.910	4.952	5.037	4.875	4.614
64	4.564	4.600	4.684	4.515	4.261
65	4.226	4.268	4.332	4.169	3.929
66	3.894	3.929	3.993	3.838	3.591
67	3.577	3.619	3.675	3.534	3.287
68	3.287	3.316	3.379	3.224	2.991
69	3.005	3.041	3.097	2.949	2.709
70	2.737	2.772	2.836	2.674	2.434
71	2.483	2.511	2.575	2.413	2.173
72	2.236	2.265	2.314	2.159	1.926
73	1.989	2.018	2.060	1.898	1.693
74	1.735	1.764	1.792	1.651	1.439
75	1.474	1.496	1.503	1.390	1.178
76	1.220	1.235	1.199	1.129	0.938
77	0.995	1.002	0.938	0.875	0.720
78	0.769	0.748	0.649	0.600	0.529
79	0.480	0.494	0.473	0.466	0.444
80	0.437	0.437	0.437	0.430	0.416
81	0.409	0.409	0.416	0.409	0.388
82	0.388	0.388	0.395	0.388	0.367
83	0.360	0.360	0.367	0.367	0.346
84	0.332	0.332	0.332	0.325	0.317
85	0.289	0.296	0.303	0.296	0.282
86	0.254	0.254	0.254	0.254	0.247
87	0.212	0.212	0.212	0.212	0.205
88	0.162	0.162	0.169	0.162	0.155
89	0.120	0.113	0.120	0.113	0.113
90	0.099	0.085	0.092	0.085	0.085
91	0.092	0.085	0.085	0.085	0.078
92	0.085	0.085	0.085	0.085	0.078
93	0.092	0.085	0.085	0.085	0.078
94	0.092	0.085	0.085	0.085	0.078
95	0.092	0.085	0.085	0.085	0.078
96	0.092	0.092	0.085	0.085	0.078
97	0.092	0.092	0.085	0.085	0.085
98	0.092	0.092	0.085	0.085	0.078
99	0.092	0.092	0.085	0.092	0.078
100	0.092	0.092	0.085	0.092	0.085
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

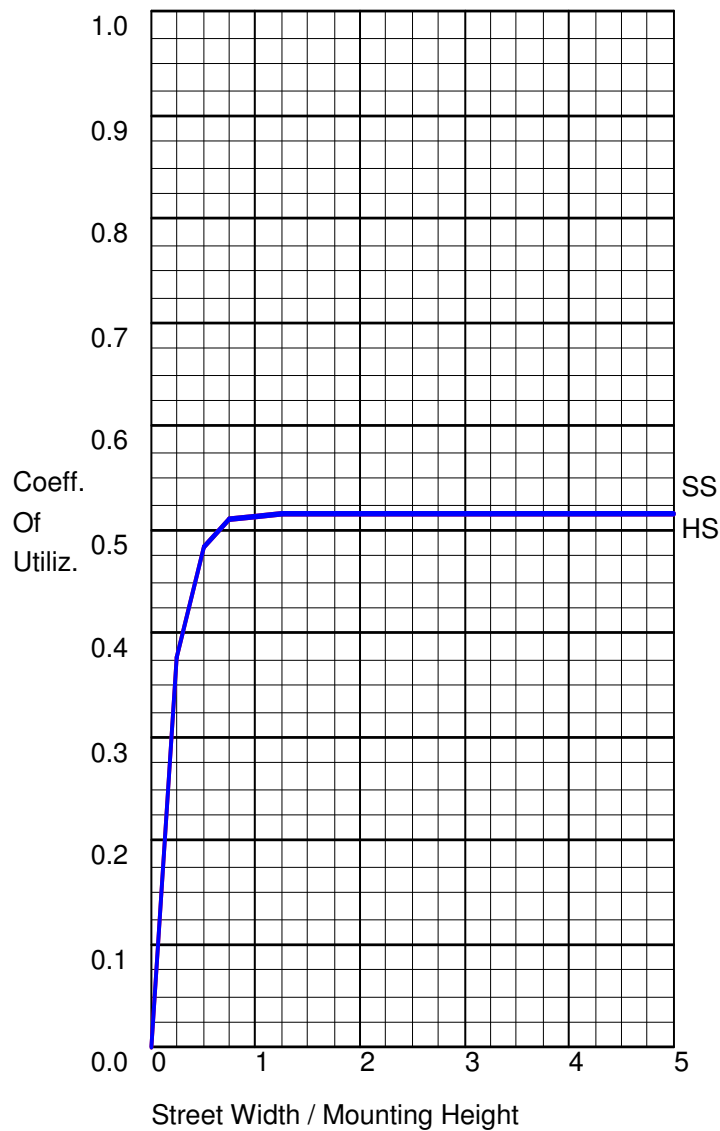
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-927-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

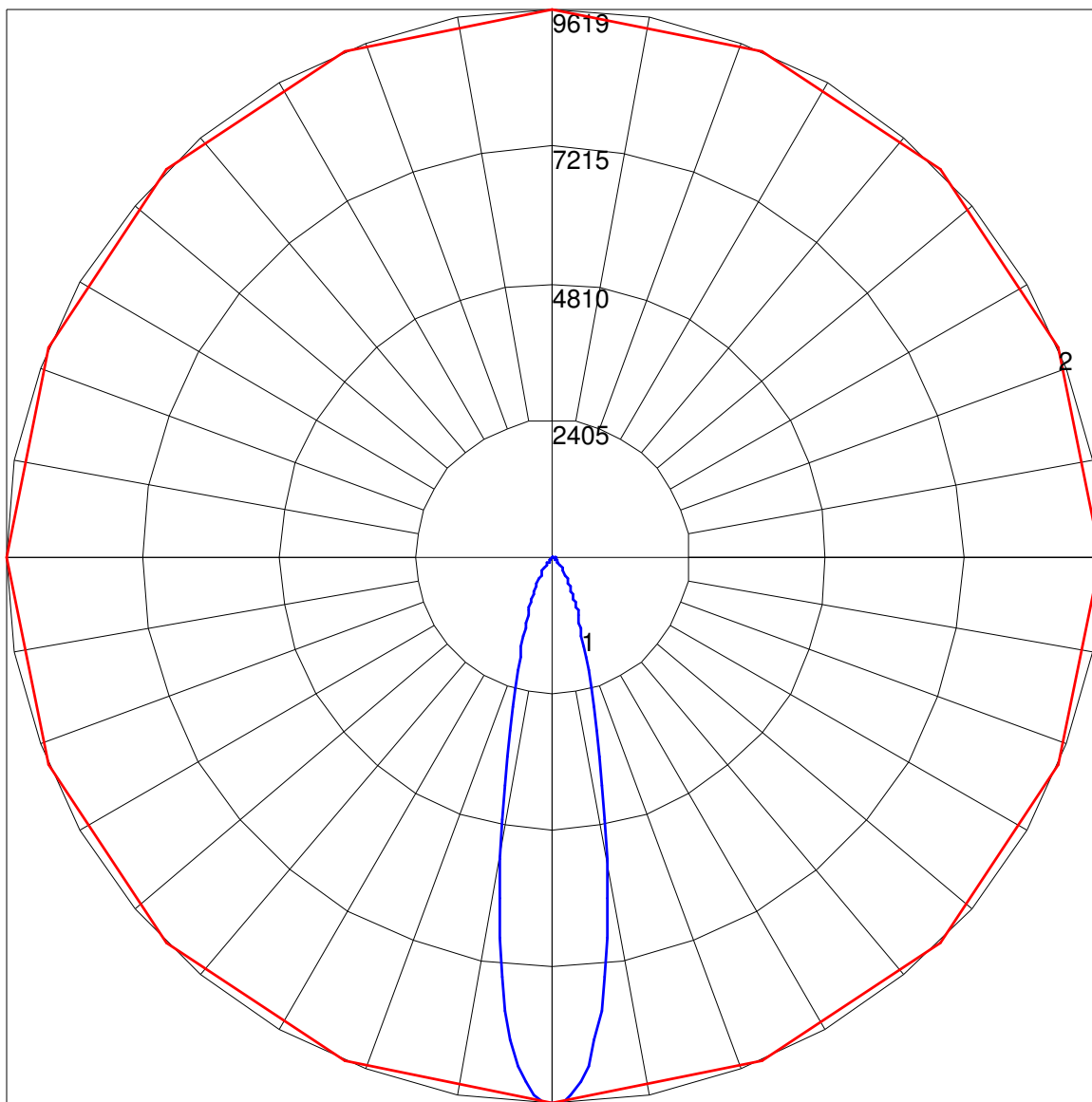
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1072.9	50.0
Downward House Side	1072.9	50.0
Downward Total	2145.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2145.8	100.0

POLAR GRAPH



Maximum Candela = 9619.468 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

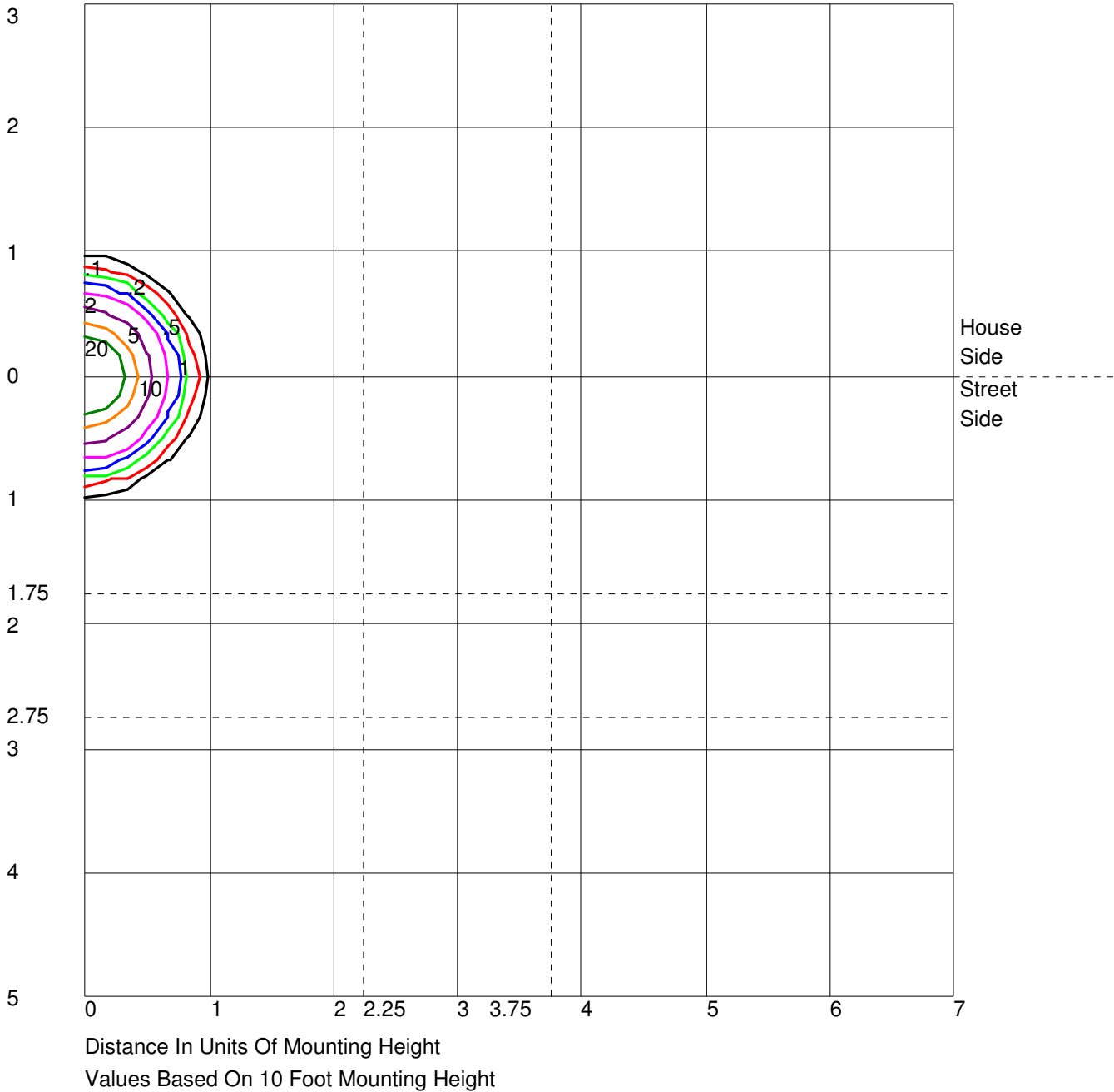


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