

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-935-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-L20-935-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	2214
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9926.472
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	9926.472
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.102 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.451 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-935-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1005.3	N.A.	45.4
FM - Front-Medium (30-60)	98.8	N.A.	4.5
FH - Front-High (60-80)	3.0	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1005.3	N.A.	45.4
BM - Back-Medium (30-60)	98.8	N.A.	4.5
BH - Back-High (60-80)	3.0	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	2214.7	N.A.	100.0
BUG Rating	B3-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	9926.472	9926.472	9926.472	9926.472	9926.472
1	9908.316	9904.079	9904.931	9901.211	9905.018
2	9783.810	9782.099	9775.518	9772.417	9783.045
3	9567.782	9560.204	9554.373	9548.389	9572.223
4	9244.640	9242.158	9232.206	9229.243	9258.573
5	8812.403	8804.606	8801.803	8798.076	8835.072
6	8269.812	8266.936	8269.542	8275.155	8305.825
7	7632.103	7635.065	7653.352	7669.906	7682.231
8	6922.484	6935.376	6970.727	7000.683	6992.239
9	6189.177	6208.461	6263.707	6303.338	6271.227
10	5475.132	5498.522	5567.309	5615.799	5561.346
11	4795.477	4822.863	4902.745	4951.919	4884.356
12	4168.003	4204.803	4282.674	4340.804	4263.893
13	3622.260	3653.264	3735.249	3796.996	3720.122
14	3149.795	3175.623	3252.600	3312.236	3241.119
15	2742.789	2768.036	2844.459	2899.035	2828.181
16	2402.452	2429.278	2484.859	2533.525	2471.894
17	2131.215	2133.384	2188.485	2227.941	2180.477
18	1878.803	1895.721	1938.279	1970.193	1934.042
19	1679.082	1688.480	1734.474	1762.785	1736.265
20	1512.200	1524.758	1556.279	1580.048	1553.644
21	1376.854	1384.418	1411.237	1430.841	1405.682
22	1261.950	1269.172	1290.123	1303.219	1281.897
23	1165.894	1169.672	1185.804	1196.731	1177.534
24	1082.220	1084.236	1097.027	1103.084	1086.529
25	1006.233	1008.730	1016.840	1018.660	1004.734
26	937.716	937.534	940.774	939.543	927.401
27	866.993	863.426	864.693	862.399	851.312
28	791.473	787.309	786.035	784.695	776.636
29	711.977	708.083	706.656	708.978	702.798
30	627.437	626.054	624.926	629.723	626.221
31	542.053	542.388	542.693	550.446	548.357
32	459.587	461.160	461.895	472.065	472.982
33	379.073	382.101	384.766	395.052	399.653
34	304.441	309.631	313.089	324.060	331.237
35	240.706	245.125	246.581	256.947	267.132
36	180.939	187.265	191.800	198.651	209.898
37	134.268	142.363	144.249	150.306	162.652
38	98.801	104.428	105.979	113.128	122.526
39	74.974	75.863	78.520	83.208	88.799
40	54.191	56.549	60.211	63.611	66.676
41	40.891	42.849	45.338	48.163	51.293
42	31.827	33.465	35.962	38.146	40.628
43	25.763	26.921	29.243	31.165	32.970
44	21.555	22.393	24.402	26.113	26.892
45	18.498	19.131	20.878	22.196	22.545
46	16.278	16.744	18.265	19.219	19.437
47	14.567	14.953	16.248	16.911	17.027
48	13.213	13.584	14.647	15.120	15.186
49	12.150	12.456	13.409	13.708	13.715
50	11.284	11.553	12.376	12.572	12.536
51	10.519	10.774	11.509	11.648	11.575
52	9.820	10.039	10.687	10.730	10.578

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-935-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	9.180	9.376	9.937	9.893	9.689
54	8.619	8.809	9.274	9.151	8.918
55	8.132	8.292	8.685	8.510	8.226
56	7.695	7.811	8.161	7.957	7.615
57	7.280	7.374	7.651	7.454	7.098
58	6.887	6.967	7.200	7.003	6.668
59	6.523	6.581	6.756	6.581	6.268
60	6.159	6.210	6.348	6.173	5.868
61	5.795	5.838	5.962	5.795	5.504
62	5.431	5.467	5.576	5.409	5.125
63	5.067	5.110	5.198	5.030	4.761
64	4.710	4.746	4.834	4.659	4.397
65	4.361	4.404	4.470	4.302	4.055
66	4.018	4.055	4.120	3.960	3.705
67	3.691	3.735	3.793	3.647	3.392
68	3.392	3.421	3.487	3.327	3.087
69	3.101	3.138	3.196	3.043	2.795
70	2.825	2.861	2.926	2.759	2.512
71	2.562	2.592	2.657	2.490	2.242
72	2.308	2.337	2.388	2.228	1.987
73	2.053	2.082	2.126	1.958	1.747
74	1.791	1.820	1.849	1.703	1.485
75	1.521	1.543	1.551	1.434	1.216
76	1.259	1.274	1.238	1.165	0.968
77	1.026	1.034	0.968	0.903	0.743
78	0.793	0.772	0.670	0.619	0.546
79	0.495	0.510	0.488	0.480	0.459
80	0.451	0.451	0.451	0.444	0.430
81	0.422	0.422	0.430	0.422	0.400
82	0.400	0.400	0.408	0.400	0.379
83	0.371	0.371	0.379	0.379	0.357
84	0.342	0.342	0.342	0.335	0.328
85	0.298	0.306	0.313	0.306	0.291
86	0.262	0.262	0.262	0.262	0.255
87	0.218	0.218	0.218	0.218	0.211
88	0.167	0.167	0.175	0.167	0.160
89	0.124	0.116	0.124	0.116	0.116
90	0.102	0.087	0.095	0.087	0.087
91	0.095	0.087	0.087	0.087	0.080
92	0.087	0.087	0.087	0.087	0.080
93	0.095	0.087	0.087	0.087	0.080
94	0.095	0.087	0.087	0.087	0.080
95	0.095	0.087	0.087	0.087	0.080
96	0.095	0.095	0.087	0.087	0.080
97	0.095	0.095	0.087	0.087	0.087
98	0.095	0.095	0.087	0.087	0.080
99	0.095	0.095	0.087	0.095	0.080
100	0.095	0.095	0.087	0.095	0.087
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

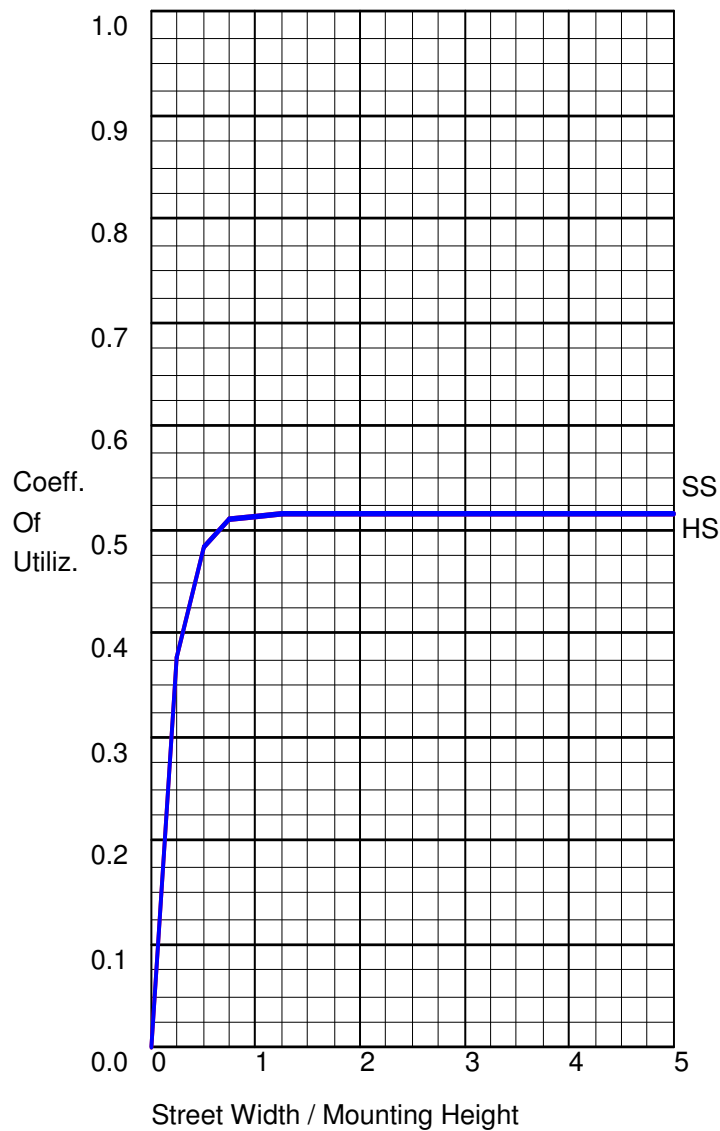
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-935-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L20-935-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

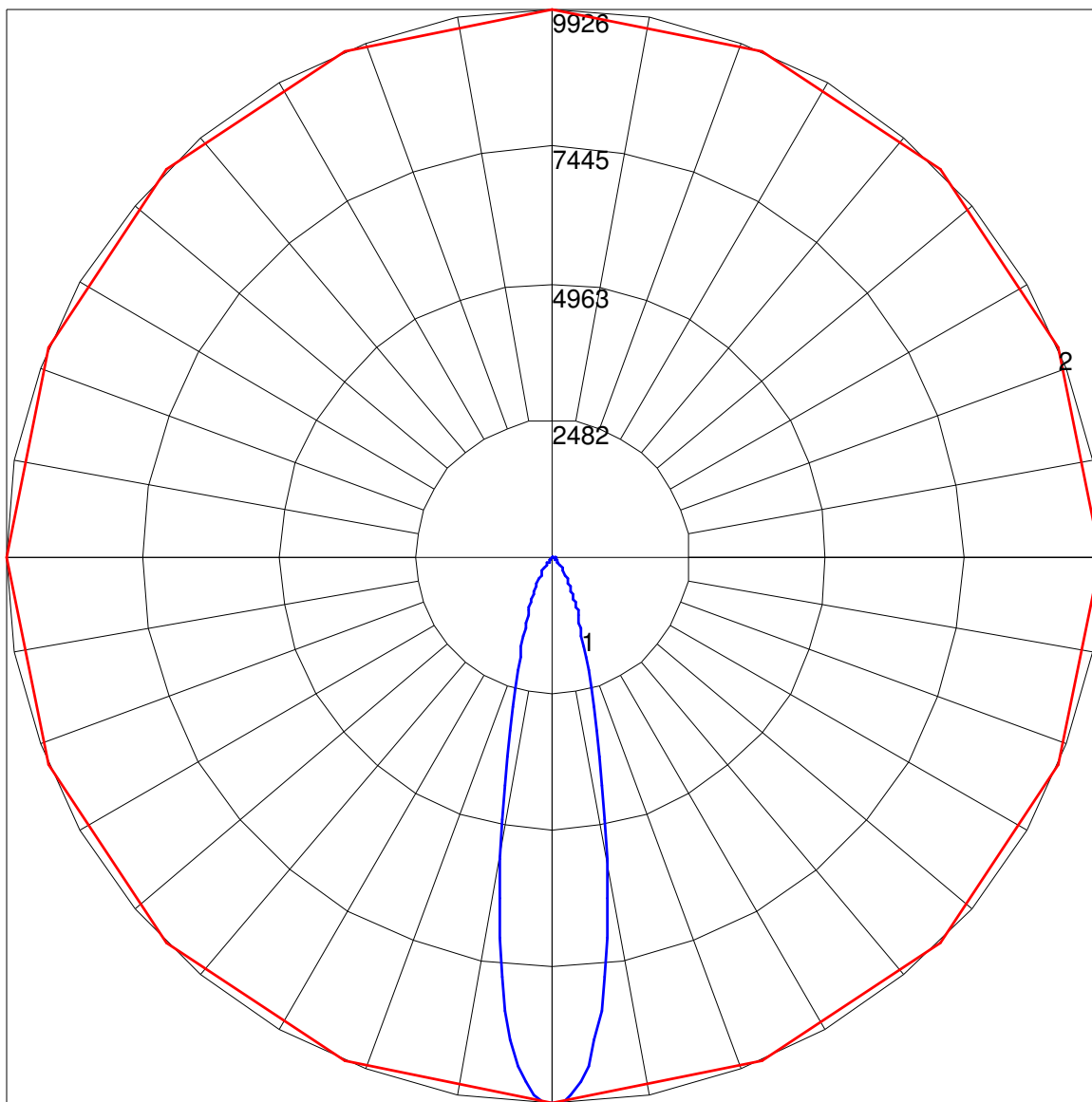
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1107.2	50.0
Downward House Side	1107.2	50.0
Downward Total	2214.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2214.6	100.0

POLAR GRAPH



Maximum Candela = 9926.472 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

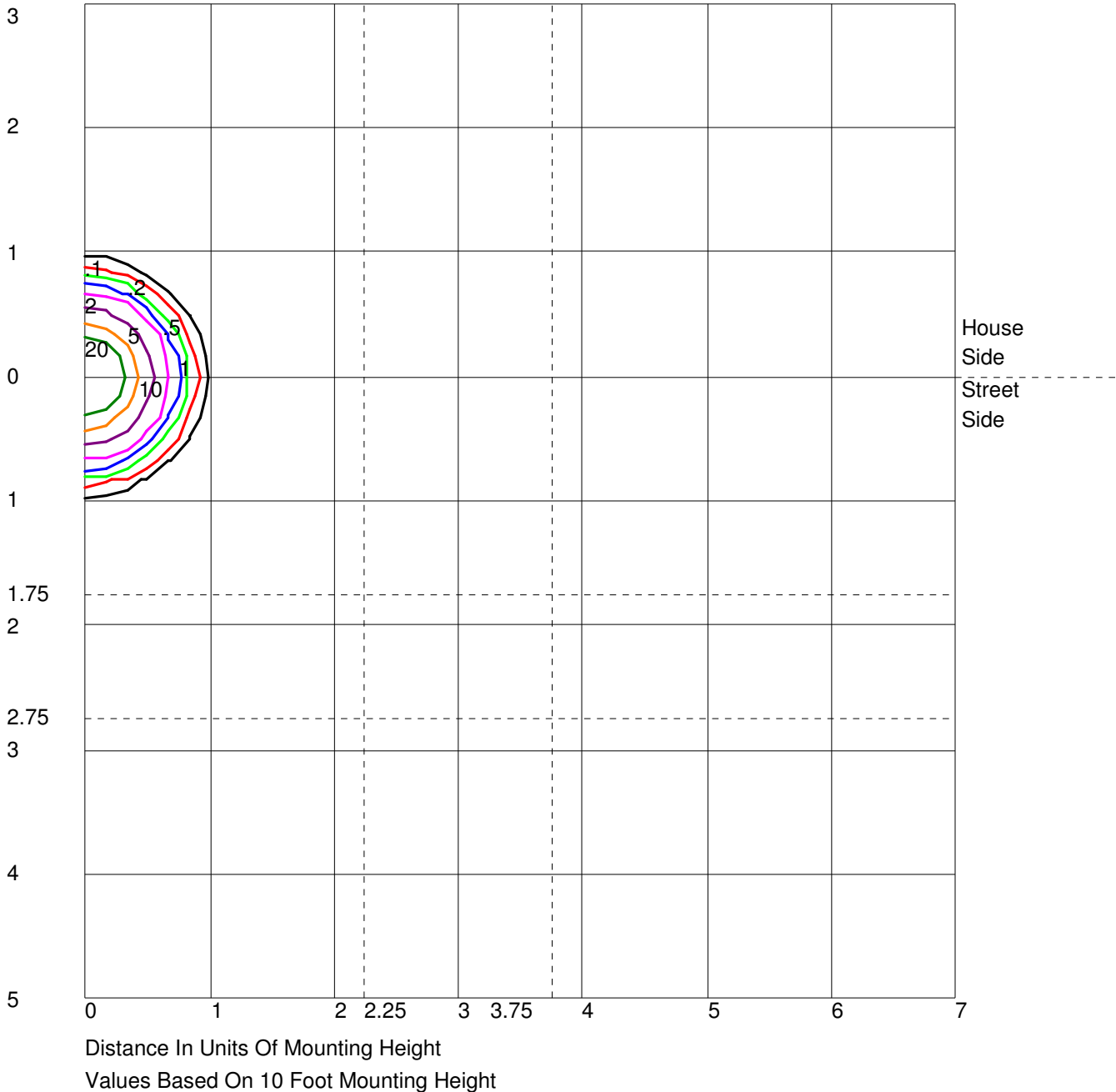


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