



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4R-LED-34L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 2,912

[TESTLAB] TUV SUD America

[TESTDATE] 5/10/2016 1:39:37 PM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-4R-LED-34L-45

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30849
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	300.32
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15848
Maximum Candela Angle	320H 70V
Maximum Candela (<90 Degrees Vertical)	15848
Maximum Candela Angle (<90 Degrees Vertical)	320H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6803 (22.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2454.6	N.A.	8.0
FM - Front-Medium (30-60)	7838.0	N.A.	25.4
FH - Front-High (60-80)	6024.1	N.A.	19.5
FVH - Front-Very High (80-90)	300.6	N.A.	1.0
BL - Back-Low (0-30)	2336.1	N.A.	7.6
BM - Back-Medium (30-60)	6816.0	N.A.	22.1
BH - Back-High (60-80)	4873.6	N.A.	15.8
BVH - Back-Very High (80-90)	206.2	N.A.	0.7
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30849.2	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
5	5347	5274	5220	5159	5104	5048	5007	4981	4961	4948
10	5473	5350	5231	5119	5027	4957	4916	4895	4883	4876
15	5670	5479	5299	5165	5096	5053	5019	5005	4995	4977
20	5863	5613	5400	5289	5242	5206	5169	5142	5111	5093
25	6096	5786	5547	5447	5399	5357	5331	5302	5251	5262
30	6328	5957	5702	5603	5556	5517	5500	5481	5434	5447
35	6619	6104	5825	5754	5701	5662	5527	5305	5144	5109
40	6907	6270	5956	5839	5655	5224	4801	4471	4277	4276
45	7440	6596	6109	5582	4945	4378	3924	3612	3424	3363
50	8127	7045	5821	4685	3922	3480	3286	3302	3243	3153
55	8316	6691	4676	3554	3094	3130	3290	3533	3509	3447
60	7857	5192	3247	2859	2814	3005	3329	3637	3538	3403
65	6262	3471	2576	2593	2626	2760	3011	3395	3411	3282
70	4106	2048	2152	2199	2090	2363	2627	2863	2740	2641
75	1860	1224	1418	1497	1462	1541	1626	1693	1562	1506
80	568	513	566	617	581	492	473	450	377	344
85	65	47	45	35	28	18	14	12	11	11
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
5	4949	4957	4971	5006	5053	5110	5167	5222	5286	5330
10	4859	4840	4832	4841	4889	4968	5070	5183	5266	5356
15	4956	4925	4891	4872	4871	4915	5022	5190	5314	5465
20	5070	5040	5007	4985	4942	4936	5018	5226	5410	5620
25	5200	5180	5138	5074	5029	5010	5008	5123	5470	5753
30	5383	5342	5258	5185	5038	4876	4921	5120	5391	5722
35	5106	5195	5287	5165	4953	4933	4974	5189	5556	5978
40	4227	4315	4523	4639	4892	4951	5018	5268	5745	6322
45	3350	3412	3491	3799	4264	4772	5107	5466	5994	6771
50	3109	2967	2777	2918	3330	3918	4686	5504	6148	7212
55	3340	3002	2710	2577	2430	2831	3805	5406	6586	7934

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CANDELA TABULATION - (Cont.)

60	3377	3016	2708	2385	2156	2131	2491	4046	6396	8187
65	3159	2702	2342	2121	1890	1793	1742	2643	5329	7259
70	2453	2301	2096	1614	1435	1434	1344	1326	3616	5882
75	1387	1278	1250	1032	937	890	776	602	1720	3867
80	331	342	345	321	342	300	189	119	293	823
85	8	9	11	12	12	11	9	8	42	55
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
5	5373	5426	5464	5507	5541	5567	5585	5594	5585	5582
10	5448	5525	5604	5682	5771	5838	5890	5912	5906	5874
15	5585	5671	5754	5843	5992	6120	6230	6271	6251	6168
20	5763	5883	5974	6035	6127	6323	6499	6592	6541	6453
25	5978	6140	6232	6288	6398	6609	6788	6848	6848	6817
30	5966	6229	6498	6581	6704	6880	7006	7103	7135	7177
35	6273	6372	6433	6879	7047	7228	7365	7505	7571	7675
40	6616	6676	6744	6856	7415	7636	7849	7941	8071	8197
45	7042	7119	7099	7159	7644	8040	8401	8575	8620	8620
50	7745	7850	7557	7528	7736	8510	8934	9262	9225	9103
55	8519	8391	8229	8004	8514	9559	10225	10488	10561	10128
60	8992	9313	8649	8886	9765	10570	11661	11863	11875	11714
65	8621	9820	10362	10231	11221	11211	11733	11336	12009	12548
70	7789	9928	11777	12293	9654	9464	9175	8607	9401	10703
75	5967	8843	10140	10483	7479	4753	3306	2946	3673	5641
80	2264	4131	5092	4390	1763	1209	894	796	1031	1551
85	77	189	454	327	199	158	137	136	147	203
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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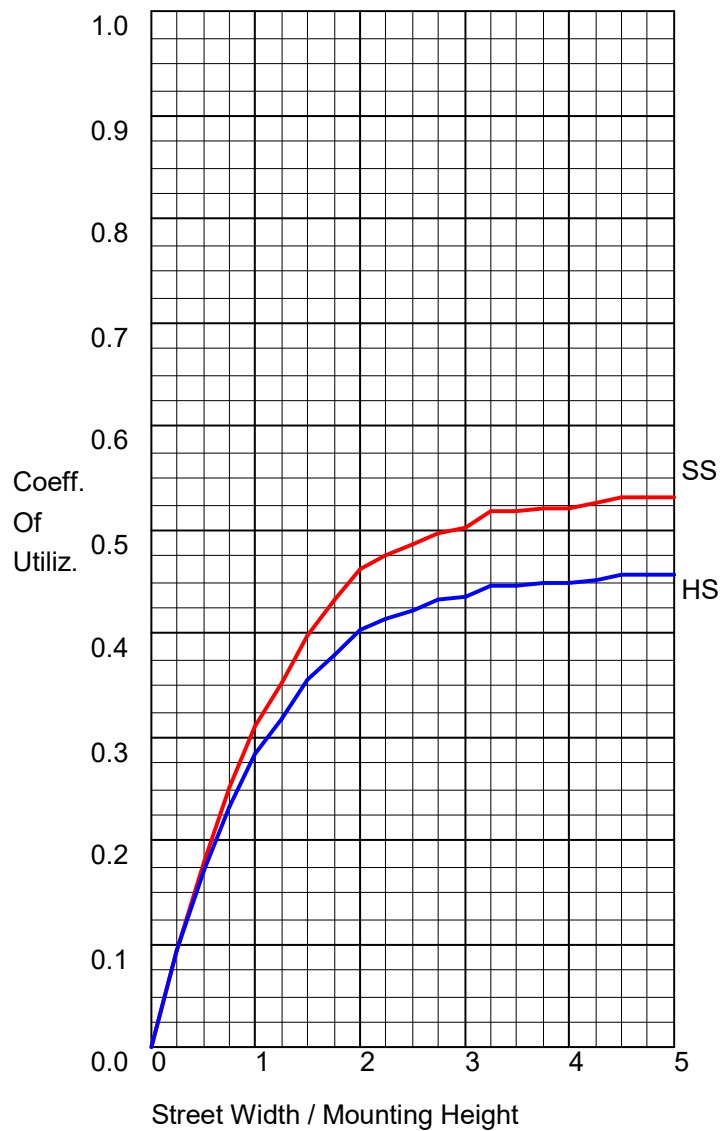
CANDELA TABULATION - (Cont.)

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5284	5284	5284	5284	5284	5284	5284
5	5562	5540	5508	5469	5429	5376	5347
10	5815	5756	5693	5644	5592	5509	5473
15	6089	6012	5982	5929	5851	5744	5670
20	6347	6356	6363	6293	6169	6022	5863
25	6774	6786	6786	6691	6520	6292	6096
30	7234	7203	7159	7094	6907	6612	6328
35	7731	7641	7509	7448	7354	7002	6619
40	8176	7994	7918	7897	7865	7517	6907
45	8613	8447	8475	8564	8545	8234	7440
50	8958	8895	9092	9559	9756	9255	8127
55	9859	9575	10027	10743	10754	9968	8316
60	11287	10730	11189	11775	11287	10110	7857
65	12837	12831	13013	12791	11498	9366	6262
70	12116	15338	15848	12371	10540	7978	4106
75	9543	13494	13343	10997	8027	5135	1860
80	2524	6005	6803	5249	3393	2016	568
85	306	513	619	402	255	220	65
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

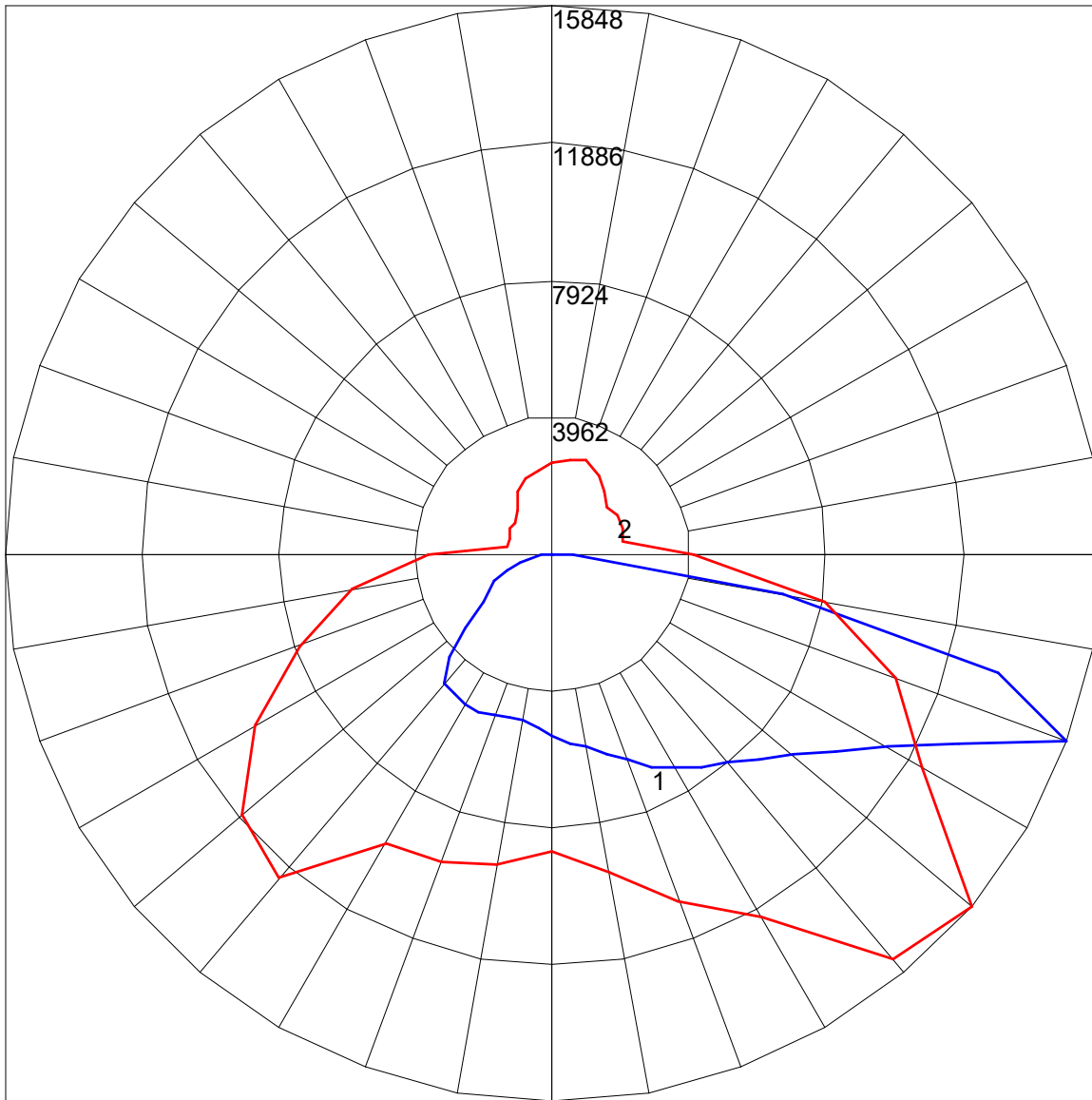
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16617.3	53.9
Downward House Side	14231.9	46.1
Downward Total	30849.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30849.2	100.0

POLAR GRAPH



Maximum Candela = 15848 Located At Horizontal Angle = 320, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

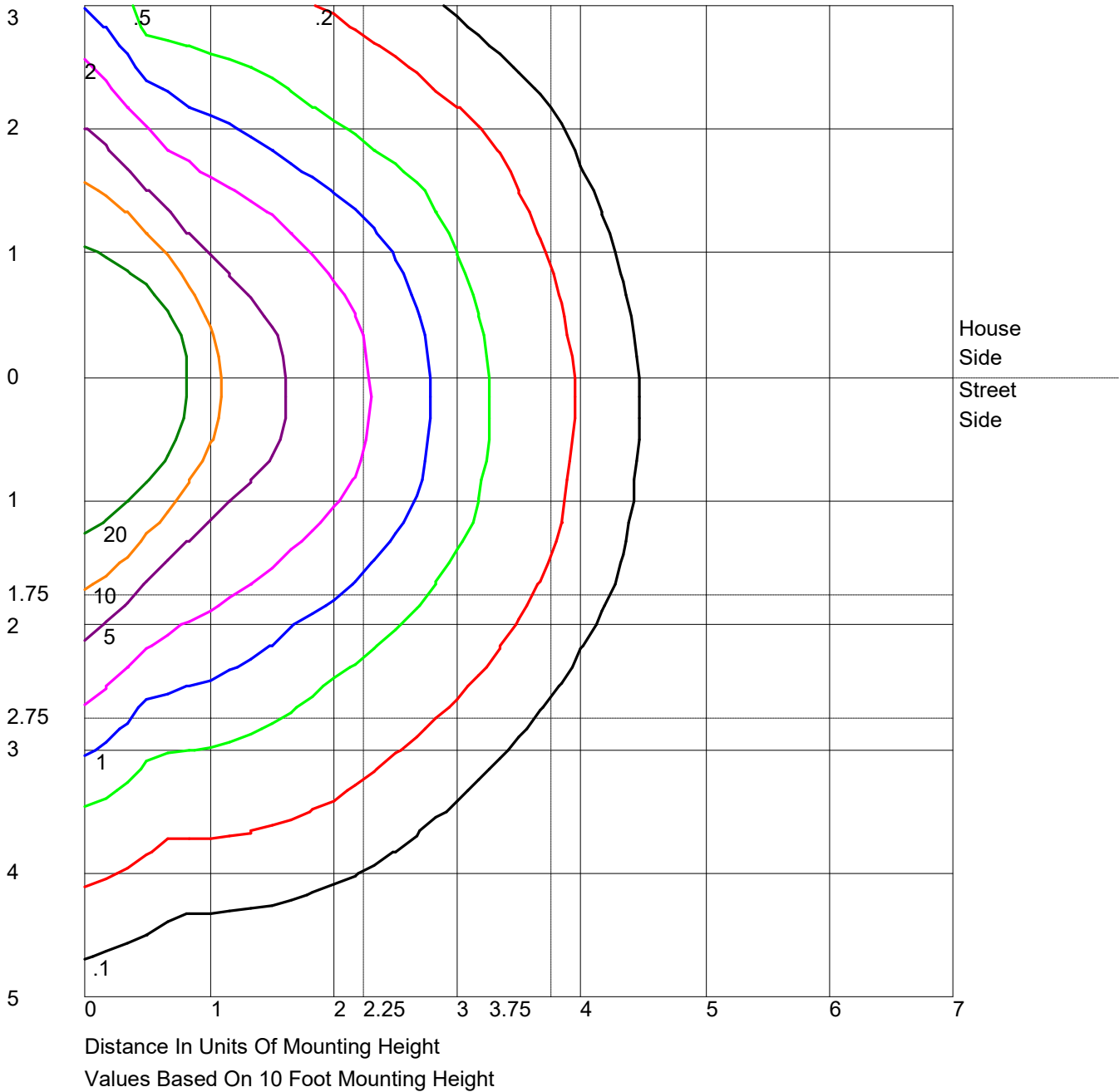


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