



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-34L-45-IC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] EVERFINE
[TESTDATE] 2016-10-05
[ISSUEDATE] 11/15/2019
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] TEL22-4L-LED-34L-45-IC
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28350
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	307.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17400
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	17400
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2666 (9.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2323.2	N.A.	8.2
FM - Front-Medium (30-60)	7493.2	N.A.	26.4
FH - Front-High (60-80)	5327.0	N.A.	18.8
FVH - Front-Very High (80-90)	127.5	N.A.	0.4
BL - Back-Low (0-30)	2204.6	N.A.	7.8
BM - Back-Medium (30-60)	6533.3	N.A.	23.0
BH - Back-High (60-80)	4256.3	N.A.	15.0
BVH - Back-Very High (80-90)	85.1	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	28350.2	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	5659	5659	5659	5659	5659	5659	5659	5659	5659	5659
5	5693	5754	5815	5873	5921	5963	5989	5994	5990	6025
10	5810	5922	6016	6102	6198	6297	6378	6436	6458	6500
15	5995	6176	6333	6465	6562	6640	6756	6847	6927	6975
20	6205	6458	6699	6886	6997	7045	7096	7165	7212	7255
25	6425	6753	7080	7298	7386	7404	7373	7368	7367	7414
30	6647	7063	7407	7555	7646	7778	7828	7772	7752	7792
35	6936	7452	7691	7834	8016	8235	8404	8391	8361	8371
40	7281	7938	8191	8366	8550	8831	9047	9102	9047	9041
45	7834	8690	9009	9115	9198	9302	9526	9674	9754	9819
50	8666	10020	10314	10057	9773	9818	10117	10342	10671	10860
55	9027	10852	11459	11278	10585	10611	11271	11721	12000	12152
60	8646	11077	12329	12598	12026	12268	13034	13152	13108	13124
65	7214	10121	12583	14028	14843	14807	13697	11976	11067	10719
70	5065	8074	11185	13852	17400	14309	10906	8369	5837	5308
75	2132	4705	7392	10515	10685	8466	4582	2662	1897	1664
80	373	1187	1824	2666	1269	1033	1012	667	418	376
85	56	100	104	99	70	47	53	34	31	28
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	5659	5659	5659	5659	5659	5659	5659	5659	5659	5659
5	6018	5995	5962	5917	5865	5805	5741	5681	5623	5569
10	6471	6399	6288	6165	6033	5916	5814	5713	5607	5501
15	6909	6748	6569	6403	6282	6138	5980	5827	5666	5476
20	7166	7013	6836	6706	6560	6414	6212	5995	5760	5405
25	7317	7183	7042	6936	6867	6702	6477	6200	5882	5231
30	7667	7506	7356	7170	7046	6649	6432	6109	5743	4698
35	8255	8037	7783	7529	6961	6823	6686	6382	5861	4229
40	8898	8675	8361	7632	7391	7244	7052	6751	5970	3689
45	9515	9122	8369	8071	7949	7885	7745	7368	6180	3132
50	10456	9899	8815	8471	8459	8859	8437	7896	6244	2612
55	11886	10867	9741	9020	9102	9529	9289	8479	6287	2192

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CANDELA TABULATION - (Cont.)

60	13109	11997	11444	10014	10219	10453	9702	8349	5628	1783
65	11152	11368	12390	12538	12133	10298	8760	6960	4164	1477
70	6037	8435	9888	12494	13049	9292	7191	5041	2008	1070
75	1846	2498	4800	7202	8980	6816	4642	2312	675	523
80	399	580	821	733	1624	1623	958	335	150	145
85	27	27	31	38	40	39	35	28	24	20
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	5659	5659	5659	5659	5659	5659	5659	5659	5659	5659
5	5517	5463	5401	5324	5234	5135	5062	5070	5109	5175
10	5367	5135	4803	4458	4159	3917	3776	3753	3821	3969
15	5088	4473	3886	3474	3227	3159	3153	3188	3194	3214
20	4596	3737	3214	3118	3106	3107	3120	3162	3166	3178
25	3992	3135	3030	3034	3050	3074	3100	3154	3149	3166
30	3262	2913	2915	2953	3009	3046	3076	3124	3137	3166
35	2825	2761	2812	2872	2934	2985	3014	3062	3086	3125
40	2593	2614	2681	2769	2852	2887	2892	2928	2972	3043
45	2425	2459	2527	2645	2714	2718	2716	2747	2801	2893
50	2229	2295	2400	2460	2510	2541	2552	2583	2647	2729
55	1991	2109	2205	2252	2315	2417	2437	2449	2572	2633
60	1707	1881	1940	1992	2085	2179	2140	2114	2305	2438
65	1363	1549	1575	1613	1724	1784	1622	1629	1809	2077
70	1002	1135	1137	1170	1242	1326	1216	1222	1344	1600
75	585	659	684	728	787	830	780	789	884	1017
80	212	271	300	326	346	348	344	350	395	432
85	29	40	49	54	56	55	56	63	67	81
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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PHOTOMETRIC FILENAME : TEL22-4L-LED-34L-45-IC.IES

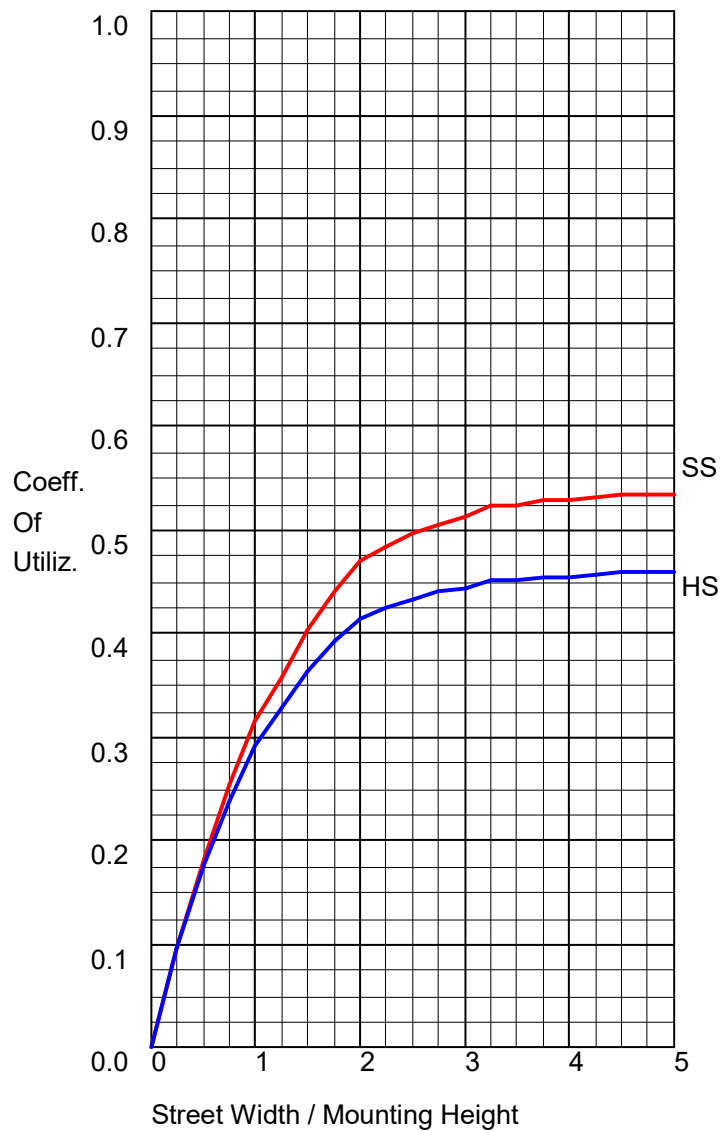
CANDELA TABULATION - (Cont.)

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. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5659	5659	5659	5659	5659	5659	5659
5	5261	5355	5447	5517	5576	5635	5693
10	4212	4548	4940	5293	5533	5685	5810
15	3309	3587	4104	4787	5422	5788	5995
20	3208	3245	3420	4112	5124	5874	6205
25	3198	3230	3258	3504	4637	5898	6425
30	3197	3199	3211	3243	4071	5812	6647
35	3151	3161	3158	3153	3516	5583	6936
40	3079	3072	3076	3042	3126	5231	7281
45	2961	2970	2935	2899	2921	4911	7834
50	2784	2812	2780	2732	2742	4650	8666
55	2591	2621	2604	2574	2519	4137	9027
60	2341	2364	2332	2276	2226	3357	8646
65	1969	1954	1968	1963	1881	2268	7214
70	1484	1460	1475	1531	1433	1508	5065
75	965	950	942	979	892	865	2132
80	457	453	454	461	440	300	373
85	85	90	102	105	104	67	56
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

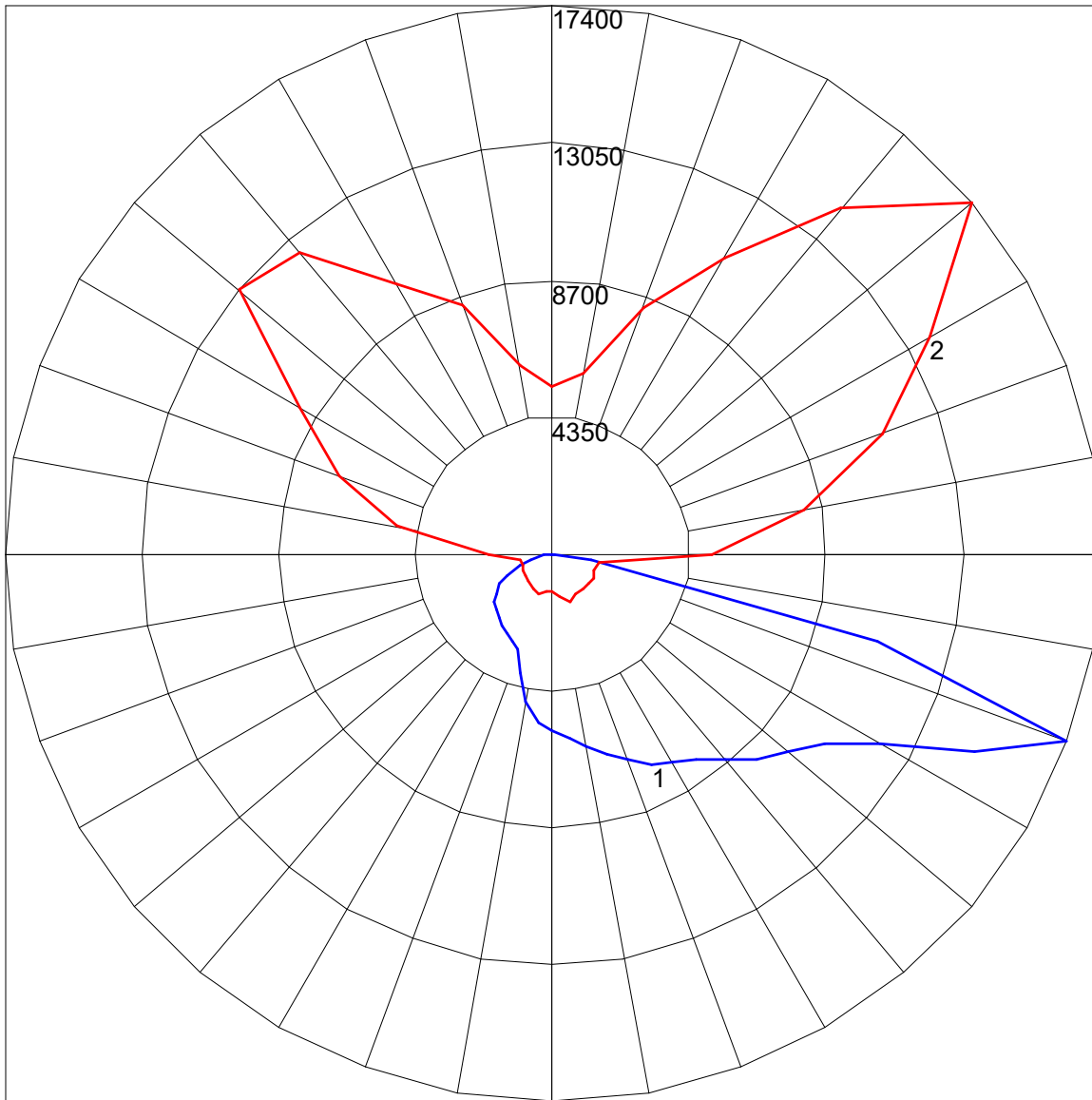
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

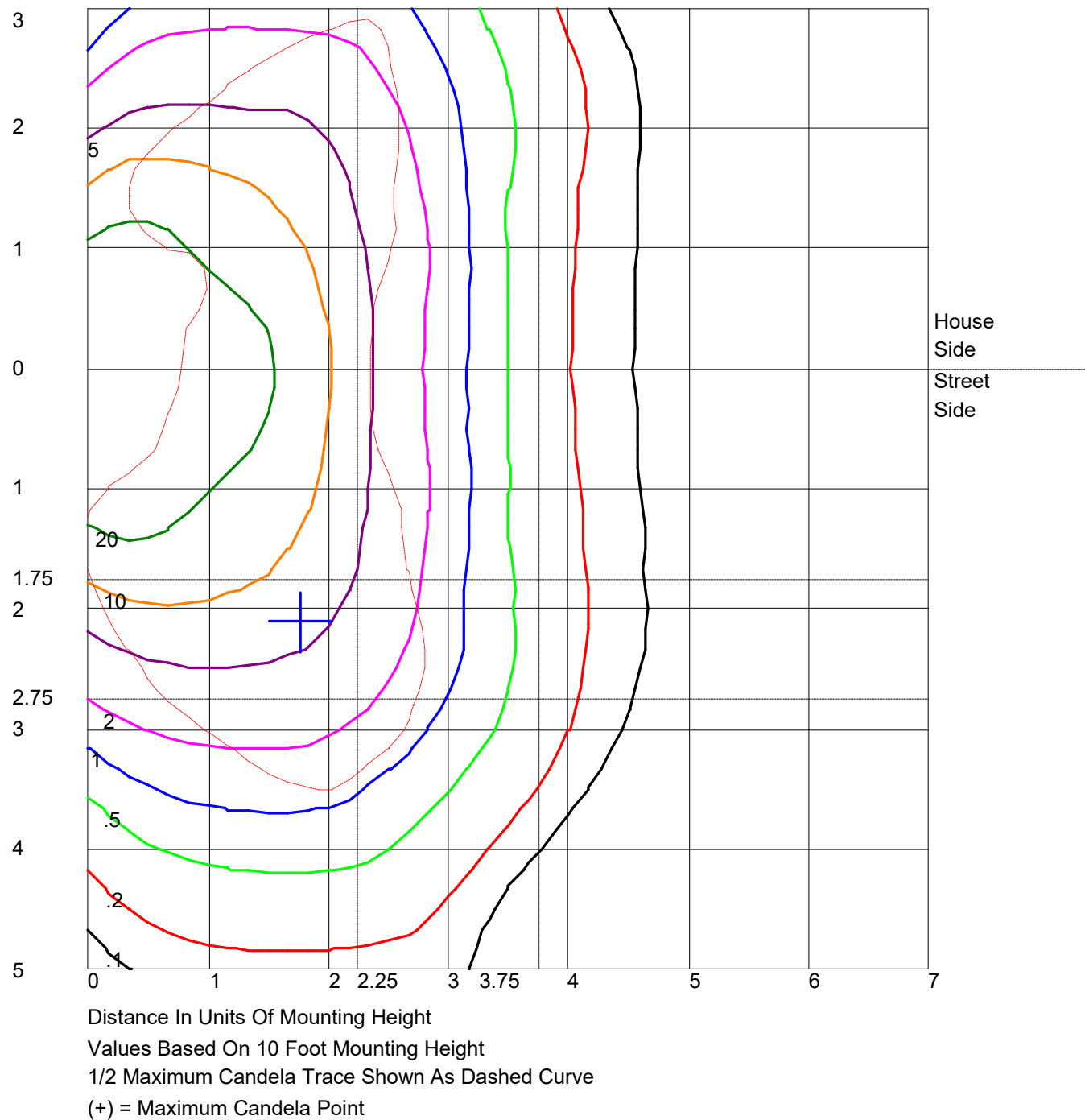
	Lumens	Percent Of Luminaire
Downward Street Side	15270.9	53.9
Downward House Side	13079.3	46.1
Downward Total	28350.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28350.3	100.0

POLAR GRAPH

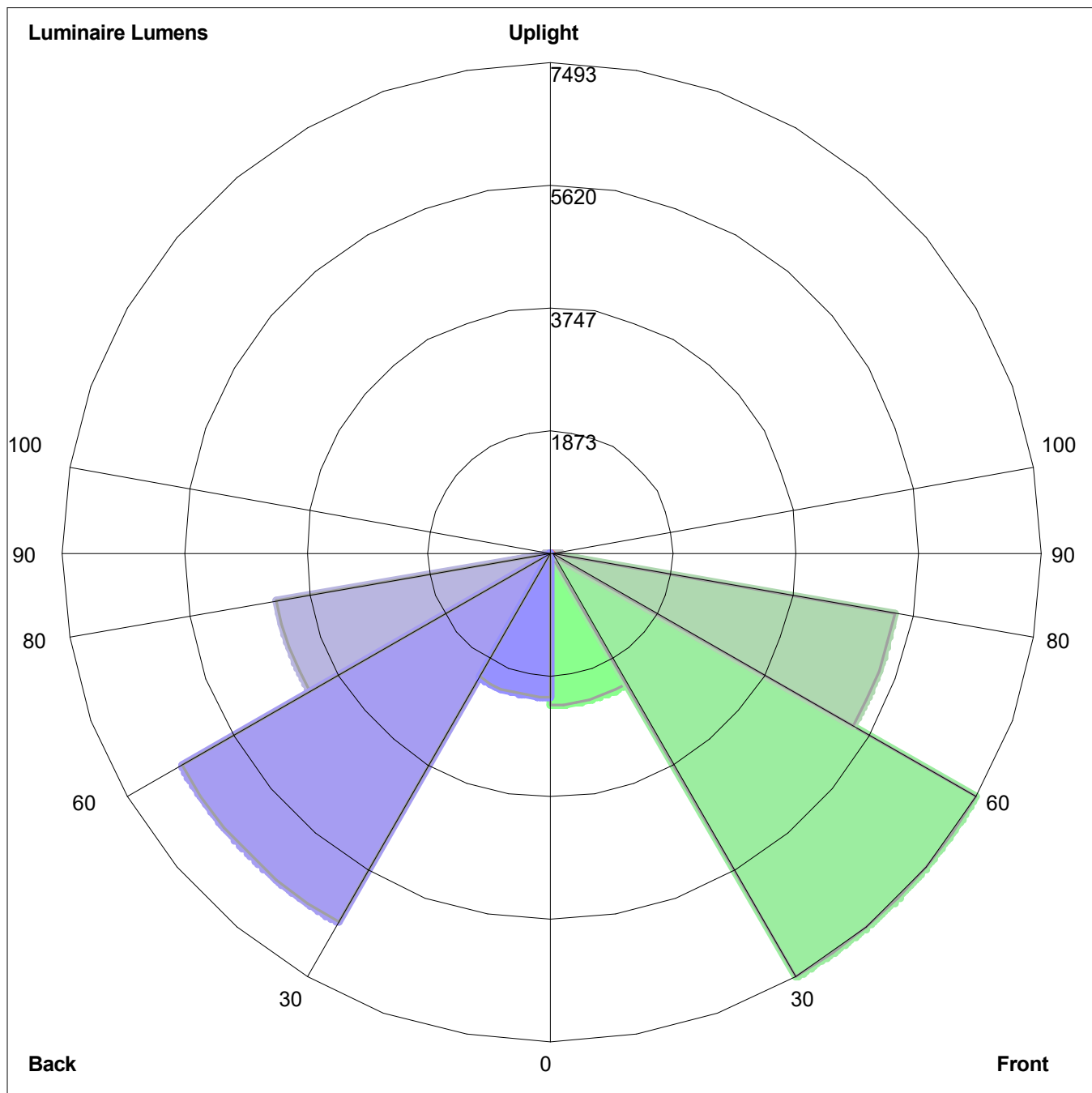


Maximum Candela = 17400 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2323.2, Medium=7493.2, High= 5327.0, Very High=127.5
Back: Low=2204.6, Medium=6533.3, High=4256.3, Very High=85.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4