



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-SC-LED-41L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3098

[TESTLAB] TUV SUD America

[TESTDATE] 4/5/2017 10:18:11 AM

[MANUFAC] LSI INDUSTRIES, INC.

[ISSUEDATE] 11/15/2019

[LUMCAT] TEL22-SC-LED-41L-45

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

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

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	41096
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	356.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23419
Maximum Candela Angle	320H 60V
Maximum Candela (<90 Degrees Vertical)	23419
Maximum Candela Angle (<90 Degrees Vertical)	320H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3281 (8.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3757.9	N.A.	9.1
FM - Front-Medium (30-60)	17633.9	N.A.	42.9
FH - Front-High (60-80)	10891.4	N.A.	26.5
FVH - Front-Very High (80-90)	321.1	N.A.	0.8
BL - Back-Low (0-30)	1720.1	N.A.	4.2
BM - Back-Medium (30-60)	4969.7	N.A.	12.1
BH - Back-High (60-80)	1762.6	N.A.	4.3
BVH - Back-Very High (80-90)	39.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	41096.3	N.A.	100.0
BUG Rating	B3-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	5251	5251	5251	5251	5251	5251	5251	5251	5251	5251
5	6835	6613	6528	6429	6280	6106	5921	5712	5493	5271
10	8394	8159	8016	7814	7541	7200	6819	6391	5935	5494
15	9644	9432	9300	9094	8829	8407	7815	7125	6427	5766
20	10632	10455	10334	10162	9850	9331	8644	7769	6854	6026
25	11504	11326	11176	10972	10598	10075	9359	8378	7319	6321
30	12513	12280	12057	11691	11229	10808	10245	9320	8111	6826
35	13546	13287	12980	12404	12031	12157	12118	11349	10029	8231
40	14358	14189	13839	13414	13587	14291	14523	13872	12265	9961
45	15273	15087	14838	14930	15790	17030	17247	15740	13542	10761
50	16535	16358	16176	16705	18536	20100	18790	16069	12931	9889
55	18078	18085	17954	18729	21272	22288	20431	16431	12326	8806
60	18466	18907	18918	20343	23419	23389	21802	16641	11811	7582
65	12238	14852	16487	18697	22427	22488	21191	15208	10184	5785
70	4105	5578	8207	10633	15565	16782	15486	11679	7298	3832
75	1794	2144	3917	5395	7366	9723	8816	6858	4233	1869
80	552	811	1564	2115	2696	3281	3085	2531	1449	559
85	94	148	218	255	229	270	190	131	69	59
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	5251	5251	5251	5251	5251	5251	5251	5251	5251	5251
5	5058	4852	4673	4520	4398	4301	4239	4197	4296	4197
10	5080	4708	4390	4121	3885	3689	3557	3492	3544	3492
15	5217	4734	4288	3856	3592	3428	3320	3259	3261	3259
20	5375	4773	4152	3849	3628	3434	3267	3168	3155	3168
25	5505	4692	4168	3891	3639	3396	3193	3059	3034	3059
30	5665	4595	4166	3860	3565	3339	3130	2973	2928	2973
35	6354	4762	4170	3879	3688	3427	3179	2952	2877	2952
40	7224	5029	4365	4384	4090	3595	3227	2964	2874	2964
45	7486	4991	4733	4993	4398	3689	3194	2938	2876	2938
50	6695	4681	4724	4655	4152	3555	3164	2914	2839	2914
55	5775	4230	4301	3943	3606	3303	2972	2796	2772	2796

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CANDELA TABULATION - (Cont.)

60	4822	3729	3647	3217	3090	2860	2513	2575	2639	2575
65	3594	2805	2529	2454	2271	2106	1967	2166	2234	2166
70	2187	1778	1548	1403	1332	1274	1297	1572	1519	1572
75	1026	916	813	706	672	680	679	568	570	568
80	370	317	267	228	209	200	158	106	118	106
85	46	37	29	23	18	13	8	7	10	7
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	5251	5251	5251	5251	5251	5251	5251	5251	5251	5251
5	4239	4301	4398	4520	4673	4852	5058	5271	5493	5712
10	3557	3689	3885	4121	4390	4708	5080	5494	5935	6391
15	3320	3428	3592	3856	4288	4734	5217	5766	6427	7125
20	3267	3434	3628	3849	4152	4773	5375	6026	6854	7769
25	3193	3396	3639	3891	4168	4692	5505	6321	7319	8378
30	3130	3339	3565	3860	4166	4595	5665	6826	8111	9320
35	3179	3427	3688	3879	4170	4762	6354	8231	10029	11349
40	3227	3595	4090	4384	4365	5029	7224	9961	12265	13872
45	3194	3689	4398	4993	4733	4991	7486	10761	13542	15740
50	3164	3555	4152	4655	4724	4681	6695	9889	12931	16069
55	2972	3303	3606	3943	4301	4230	5775	8806	12326	16431
60	2513	2860	3090	3217	3647	3729	4822	7582	11811	16641
65	1967	2106	2271	2454	2529	2805	3594	5785	10184	15208
70	1297	1274	1332	1403	1548	1778	2187	3832	7298	11679
75	679	680	672	706	813	916	1026	1869	4233	6858
80	158	200	209	228	267	317	370	559	1449	2531
85	8	13	18	23	29	37	46	59	69	131
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

IES ROAD REPORT
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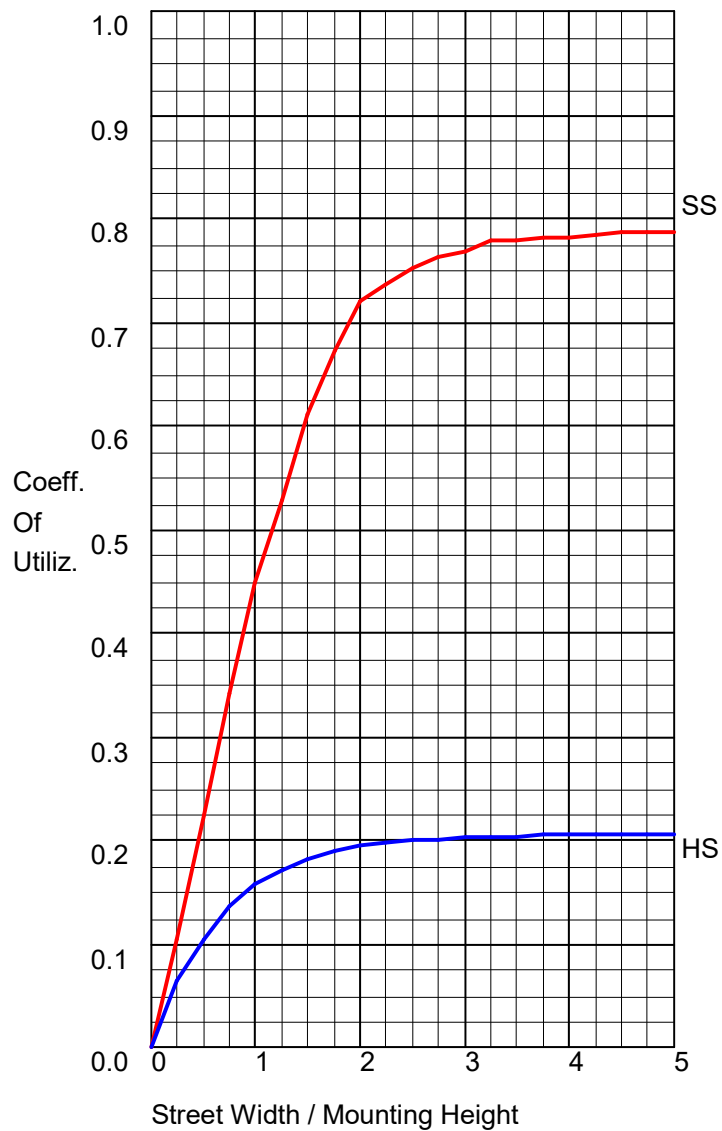
CANDELA TABULATION - (Cont.)

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. 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	5251	5251	5251	5251	5251	5251	5251
5	5921	6106	6280	6429	6528	6613	6835
10	6819	7200	7541	7814	8016	8159	8394
15	7815	8407	8829	9094	9300	9432	9644
20	8644	9331	9850	10162	10334	10455	10632
25	9359	10075	10598	10972	11176	11326	11504
30	10245	10808	11229	11691	12057	12280	12513
35	12118	12157	12031	12404	12980	13287	13546
40	14523	14291	13587	13414	13839	14189	14358
45	17247	17030	15790	14930	14838	15087	15273
50	18790	20100	18536	16705	16176	16358	16535
55	20431	22288	21272	18729	17954	18085	18078
60	21802	23389	23419	20343	18918	18907	18466
65	21191	22488	22427	18697	16487	14852	12238
70	15486	16782	15565	10633	8207	5578	4105
75	8816	9723	7366	5395	3917	2144	1794
80	3085	3281	2696	2115	1564	811	552
85	190	270	229	255	218	148	94
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

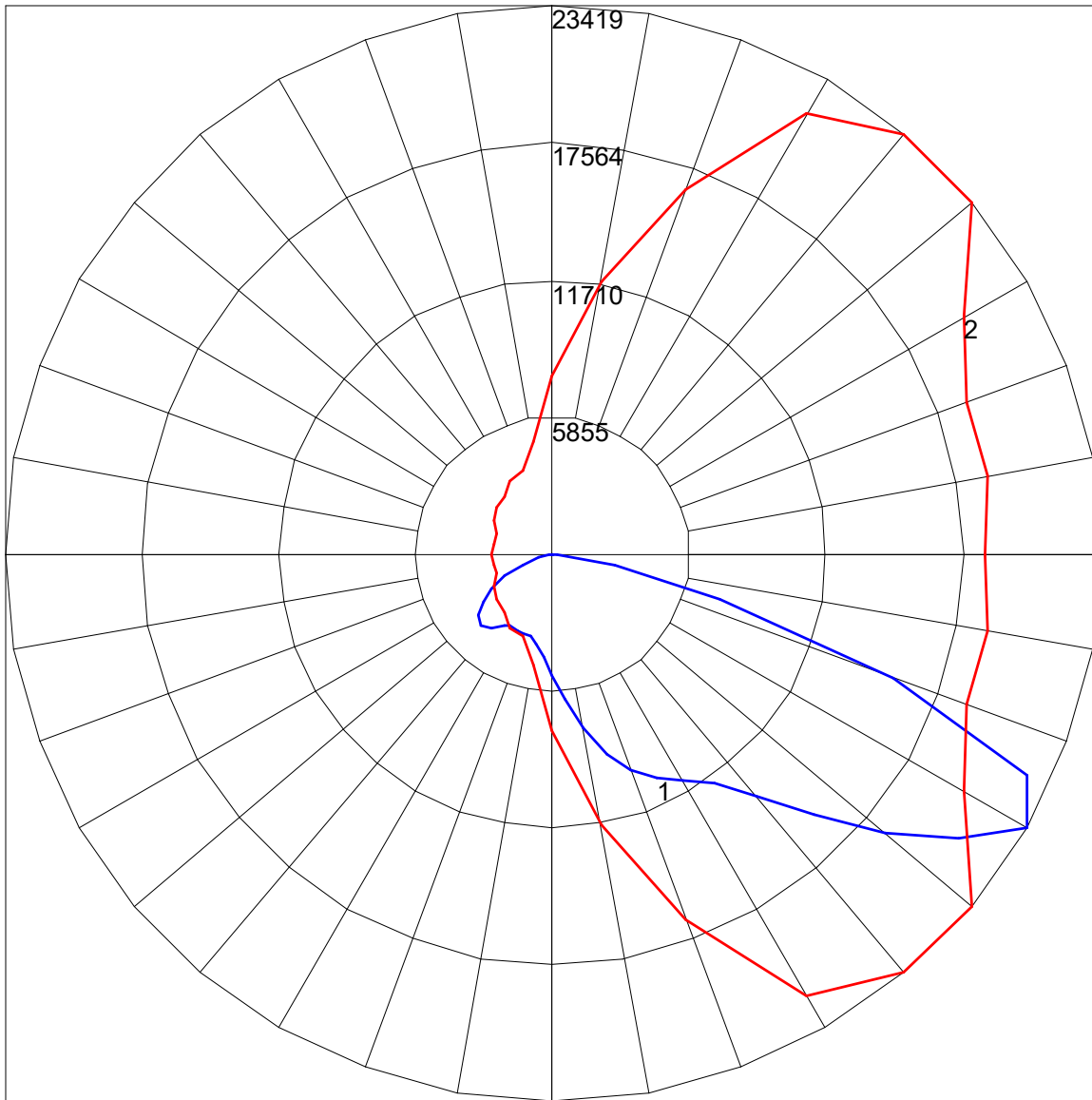
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

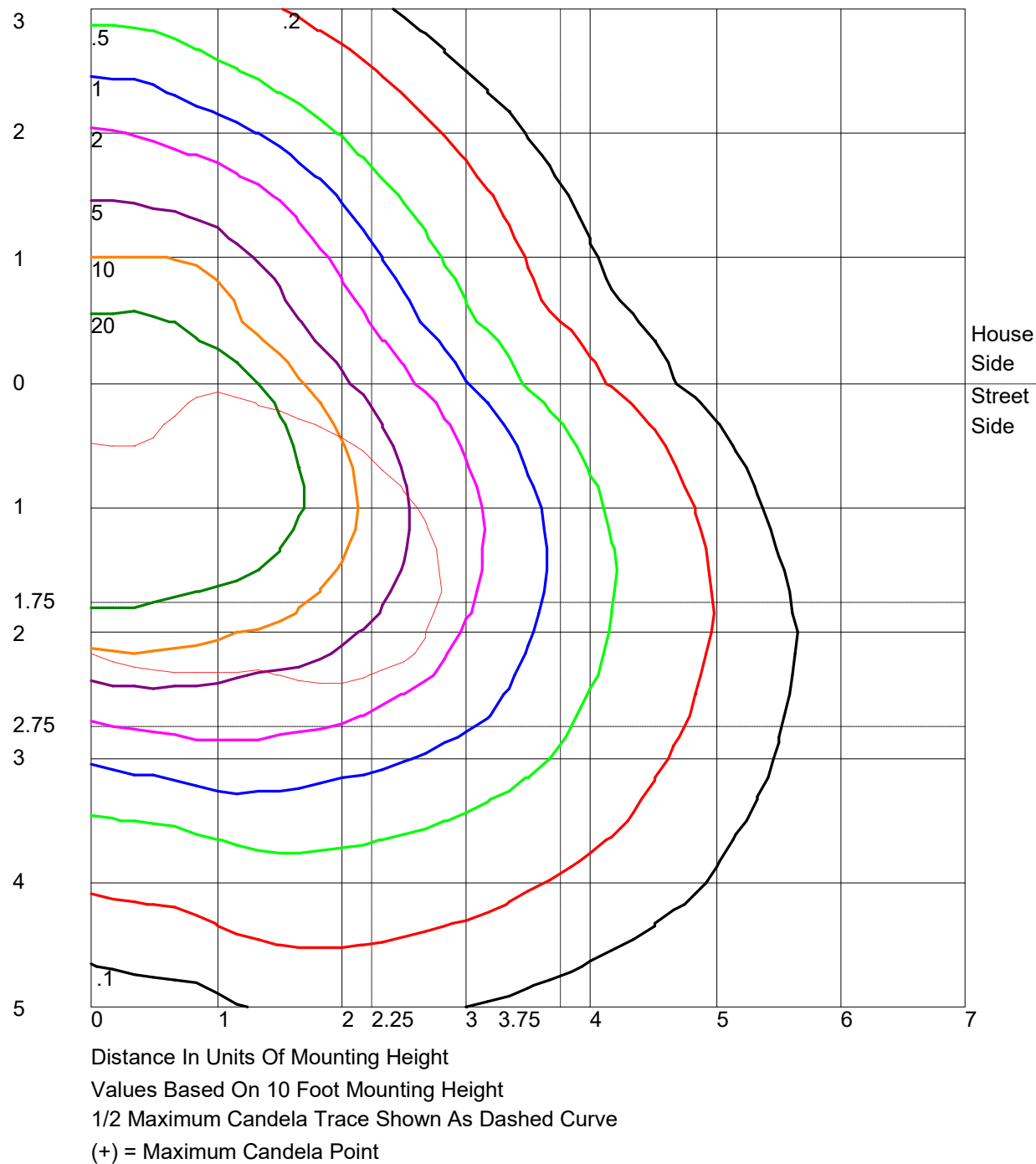
	Lumens	Percent Of Luminaire
Downward Street Side	32604.3	79.3
Downward House Side	8492.1	20.7
Downward Total	41096.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	41096.4	100.0

POLAR GRAPH

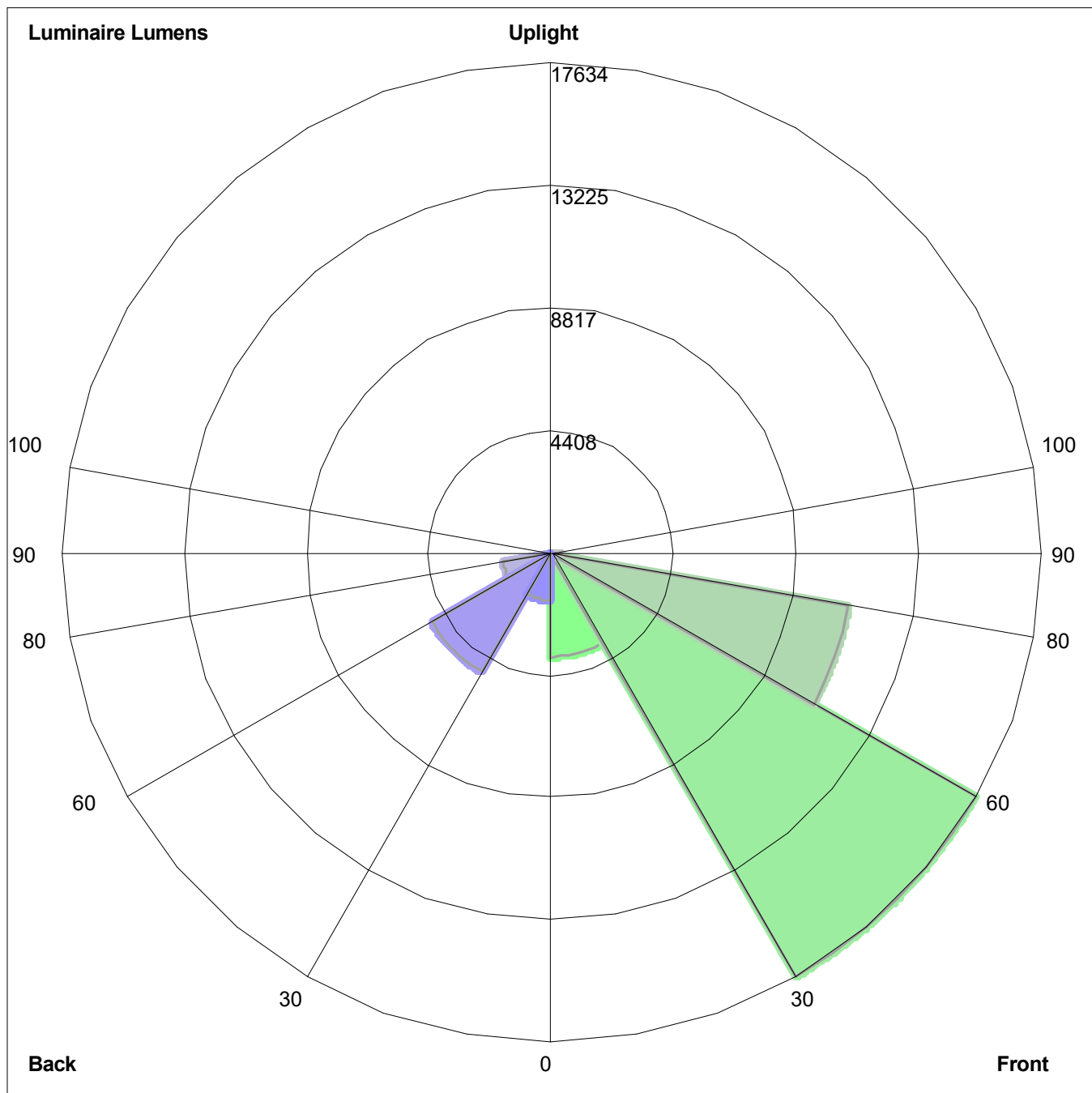


Maximum Candela = 23419 Located At Horizontal Angle = 320, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3757.9, Medium=17633.9, High=10891.4, Very High=321.1
Back: Low=1720.1, Medium=4969.7, High=1762.6, Very High=39.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4