



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3102

[TESTLAB] TUV SUD America

[TESTDATE] 4/6/2017 2:59:02 PM

[MANUFAC] LSI INDUSTRIES, INC.

[ISSUEDATE] 11/15/2019

[LUMCAT] TEL22-FTL-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	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	39693
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	356.05
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15685
Maximum Candela Angle	120H 70V
Maximum Candela (<90 Degrees Vertical)	15685
Maximum Candela Angle (<90 Degrees Vertical)	120H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2232 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3625.4	N.A.	9.1
FM - Front-Medium (30-60)	9514.2	N.A.	24.0
FH - Front-High (60-80)	6591.1	N.A.	16.6
FVH - Front-Very High (80-90)	115.7	N.A.	0.3
BL - Back-Low (0-30)	3625.4	N.A.	9.1
BM - Back-Medium (30-60)	9514.2	N.A.	24.0
BH - Back-High (60-80)	6591.1	N.A.	16.6
BVH - Back-Very High (80-90)	115.7	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	39692.8	N.A.	100.0
BUG Rating	B5-U0-G5		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	10246	10246	10246	10246	10246	10246	10246	10246	10246	10246
5	10050	10312	10487	10657	10816	10955	11061	11163	11222	11231
10	9576	10000	10328	10650	10971	11256	11538	11750	11882	11916
15	8872	9544	10076	10583	11015	11340	11673	11969	12197	12291
20	8061	8949	9746	10431	10990	11365	11611	11871	12165	12304
25	7362	8380	9420	10246	10839	11203	11244	11185	11241	11300
30	7061	8170	9135	9883	10608	10917	10877	10769	10769	10772
35	7423	8626	9544	10133	10477	10837	11036	11078	11171	11196
40	8119	9361	10220	10767	10920	10995	11466	11544	11909	11920
45	8941	10149	10953	11349	11346	11371	11439	11931	11939	11298
50	9392	10583	11320	11751	11868	11643	11438	11806	11638	11253
55	10146	11483	12230	12094	12026	12064	11887	11728	11940	11284
60	10236	12465	13692	13468	12824	12496	13136	12729	12734	12037
65	9445	13148	15395	15488	14495	14166	14579	13827	13231	12635
70	6320	10122	12096	12787	14353	14562	15685	15658	13718	13064
75	1315	1932	2568	3339	5050	10486	13368	11464	9073	8195
80	358	448	519	640	723	1671	2232	997	603	447
85	70	109	98	95	84	81	68	60	55	54
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	10246	10246	10246	10246	10246	10246	10246	10246	10246	10246
5	11222	11163	11061	10955	10816	10657	10487	10312	10050	9855
10	11882	11750	11538	11256	10971	10650	10328	10000	9576	9175
15	12197	11969	11673	11340	11015	10583	10076	9544	8872	8250
20	12165	11871	11611	11365	10990	10431	9746	8949	8061	7325
25	11241	11185	11244	11203	10839	10246	9420	8380	7362	6444
30	10769	10769	10877	10917	10608	9883	9135	8170	7061	5999
35	11171	11078	11036	10837	10477	10133	9544	8626	7423	6138
40	11909	11544	11466	10995	10920	10767	10220	9361	8119	6725
45	11939	11931	11439	11371	11346	11349	10953	10149	8941	7417
50	11638	11806	11438	11643	11868	11751	11320	10583	9392	7907
55	11940	11728	11887	12064	12026	12094	12230	11483	10146	8428

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CANDELA TABULATION - (Cont.)

60	12734	12729	13136	12496	12824	13468	13692	12465	10236	8344
65	13231	13827	14579	14166	14495	15488	15395	13148	9445	7274
70	13718	15658	15685	14562	14353	12787	12096	10122	6320	4476
75	9073	11464	13368	10486	5050	3339	2568	1932	1315	1155
80	603	997	2232	1671	723	640	519	448	358	371
85	55	60	68	81	84	95	98	109	70	67
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	10246	10246	10246	10246	10246	10246	10246	10246	10246	10246
5	9676	9492	9356	9186	9122	9041	8977	8955	8977	9041
10	8798	8448	8195	7999	7866	7778	7733	7714	7733	7778
15	7750	7378	7089	6893	6816	6757	6746	6729	6746	6757
20	6758	6387	6170	6077	6007	5947	5924	5896	5924	5947
25	5871	5648	5540	5454	5382	5325	5313	5302	5313	5325
30	5308	5115	5089	5038	5002	4933	4890	4878	4890	4933
35	5212	4838	4737	4727	4703	4753	4841	4892	4841	4753
40	5572	4797	4488	4489	4731	4993	5141	5222	5141	4993
45	6083	4968	4338	4365	4694	5160	5335	5558	5335	5160
50	6294	5059	4240	4064	4516	5010	5065	5071	5065	5010
55	6522	5025	3986	3674	4115	4559	4523	4325	4523	4559
60	6373	4845	3635	3134	3622	4007	3872	3599	3872	4007
65	5672	4094	3089	2631	2918	3268	3178	2926	3178	3268
70	3622	2710	2095	1959	2315	2562	2394	2249	2394	2562
75	1204	1178	1127	1329	1557	1626	1544	1453	1544	1626
80	401	407	425	550	646	663	572	565	572	663
85	67	69	64	62	60	62	62	66	62	62
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.)

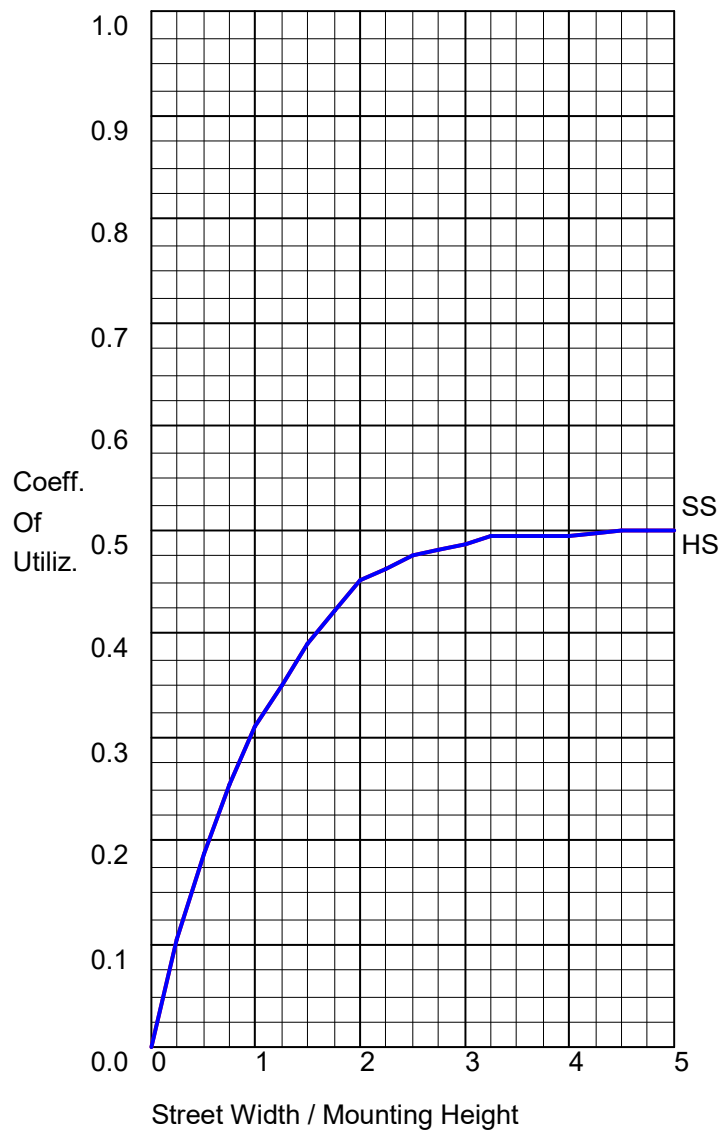
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140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**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	10246	10246	10246	10246	10246	10246	10246
5	9122	9186	9356	9492	9676	9855	10050
10	7866	7999	8195	8448	8798	9175	9576
15	6816	6893	7089	7378	7750	8250	8872
20	6007	6077	6170	6387	6758	7325	8061
25	5382	5454	5540	5648	5871	6444	7362
30	5002	5038	5089	5115	5308	5999	7061
35	4703	4727	4737	4838	5212	6138	7423
40	4731	4489	4488	4797	5572	6725	8119
45	4694	4365	4338	4968	6083	7417	8941
50	4516	4064	4240	5059	6294	7907	9392
55	4115	3674	3986	5025	6522	8428	10146
60	3622	3134	3635	4845	6373	8344	10236
65	2918	2631	3089	4094	5672	7274	9445
70	2315	1959	2095	2710	3622	4476	6320
75	1557	1329	1127	1178	1204	1155	1315
80	646	550	425	407	401	371	358
85	60	62	64	69	67	67	70
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

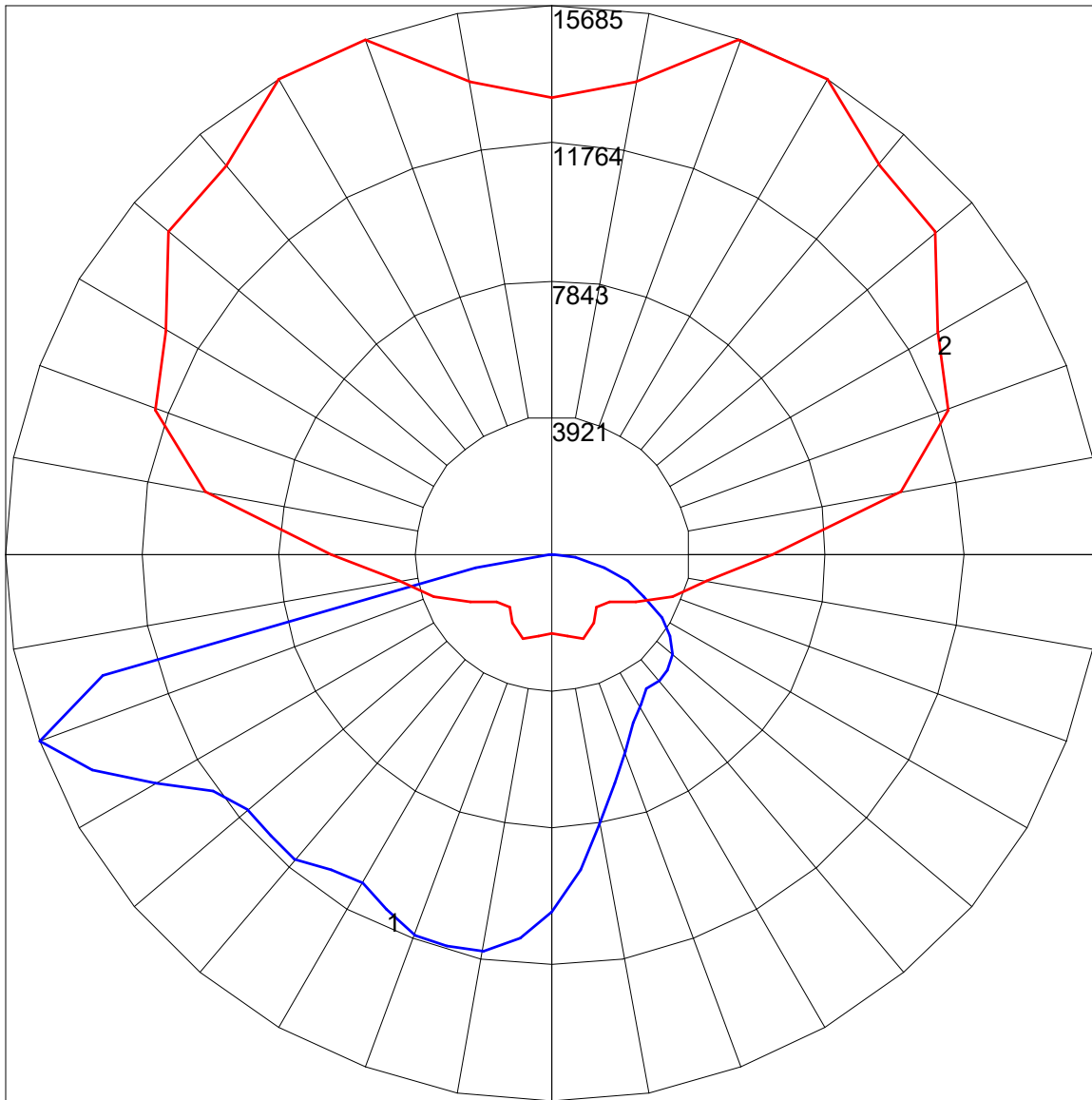
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

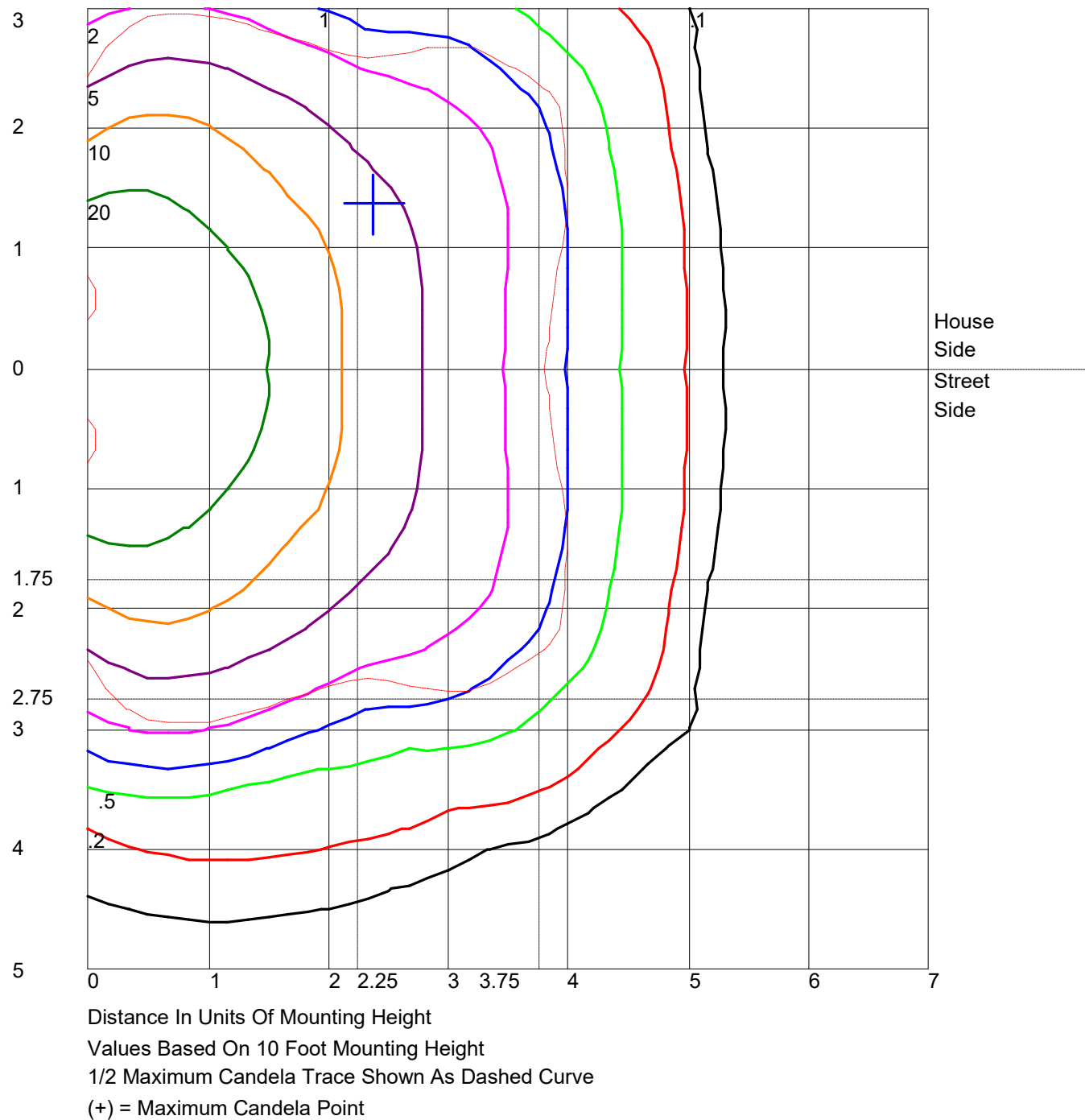
	Lumens	Percent Of Luminaire
Downward Street Side	19846.4	50.0
Downward House Side	19846.4	50.0
Downward Total	39692.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	39692.8	100.0

POLAR GRAPH

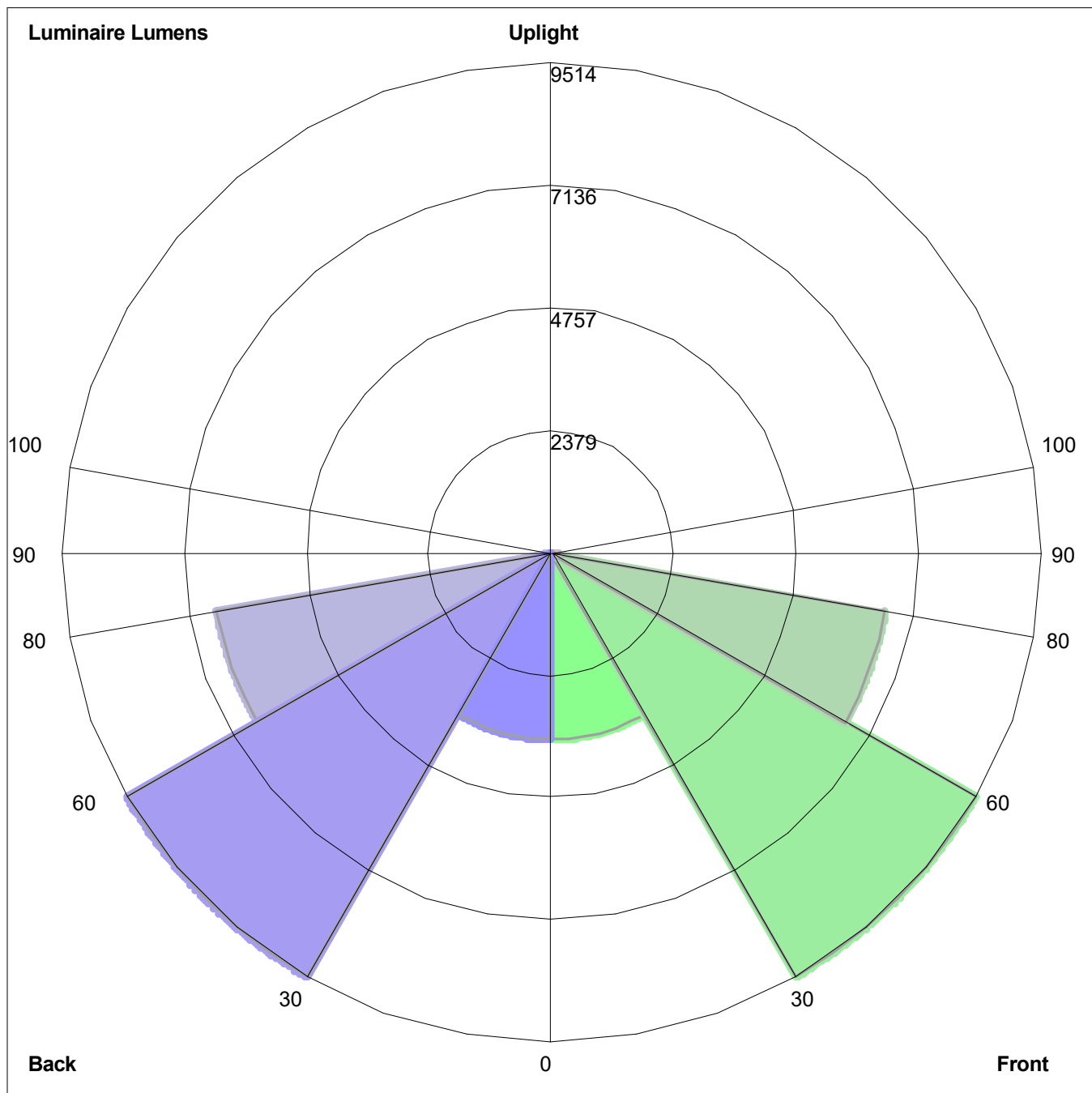


Maximum Candela = 15685 Located At Horizontal Angle = 120, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (120 - 300) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3625.4, Medium=9514.2, High=6591.1, Very High=115.7
Back: Low=3625.4, Medium=9514.2, High=6591.1, Very High=115.7
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5