



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : TEL22-SC-LED-34L-45.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 2,910  
[TESTLAB] TUV SUD America  
[TESTDATE] 5/9/2016 3:20:59 PM  
[ISSUE DATE] 11/15/2019  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] TEL22-SC-LED-34L-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	33800
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	301.29
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18750
Maximum Candela Angle	50H 60V
Maximum Candela (<90 Degrees Vertical)	18750
Maximum Candela Angle (<90 Degrees Vertical)	50H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2483 (7.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3255.8	N.A.	9.6
FM - Front-Medium (30-60)	14576.2	N.A.	43.1
FH - Front-High (60-80)	8170.5	N.A.	24.2
FVH - Front-Very High (80-90)	261.1	N.A.	0.8
BL - Back-Low (0-30)	1549.1	N.A.	4.6
BM - Back-Medium (30-60)	4292.3	N.A.	12.7
BH - Back-High (60-80)	1638.3	N.A.	4.8
BVH - Back-Very High (80-90)	56.3	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	33799.6	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911
<b>5</b>	5872	5840	5812	6087	5935	5768	5569	5358	5134	4910
<b>10</b>	7051	7209	7249	7080	6872	6623	6287	5867	5440	5003
<b>15</b>	8040	8269	8149	7983	7762	7445	6992	6417	5795	5161
<b>20</b>	8766	8896	8789	8643	8447	8121	7604	6911	6102	5308
<b>25</b>	9504	9608	9470	9281	9019	8633	8091	7332	6394	5473
<b>30</b>	10344	10418	10224	9905	9524	9130	8669	7982	6956	5830
<b>35</b>	11140	11172	10960	10542	10172	10069	9925	9353	8188	6772
<b>40</b>	11830	11859	11641	11344	11311	11672	11837	11287	9896	8073
<b>45</b>	12588	12607	12415	12385	12951	13864	13920	12832	11011	8775
<b>50</b>	13745	13816	13560	13709	14983	16127	15657	13590	11055	8526
<b>55</b>	14695	14826	14707	15202	16877	17912	17064	13965	10619	7732
<b>60</b>	14219	14652	14910	15948	18212	18750	17828	13889	9995	6675
<b>65</b>	7477	8465	10687	13227	16504	17253	16357	12322	8663	5198
<b>70</b>	2845	3266	5380	7499	10547	12547	12123	9185	6307	3464
<b>75</b>	1128	1341	2511	3613	5223	6877	6812	5506	3622	1830
<b>80</b>	336	443	889	1296	1699	2414	2483	2176	1400	635
<b>85</b>	30	55	128	210	236	377	416	374	238	115
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
<b>0</b>	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911
<b>5</b>	4688	4491	4313	4161	4024	4174	4107	4071	4067	4084
<b>10</b>	4594	4228	3914	3653	3437	3274	3262	3328	3324	3365
<b>15</b>	4618	4143	3727	3360	3100	2931	2829	2833	2833	2883
<b>20</b>	4670	4111	3611	3254	3026	2862	2745	2713	2729	2787
<b>25</b>	4731	4070	3534	3249	3033	2837	2682	2618	2632	2706
<b>30</b>	4829	3979	3496	3223	2978	2773	2610	2526	2532	2617
<b>35</b>	5266	4001	3468	3185	2968	2764	2585	2468	2463	2570
<b>40</b>	5989	4186	3526	3369	3141	2845	2613	2455	2436	2576
<b>45</b>	6350	4246	3718	3769	3355	2885	2571	2404	2408	2545
<b>50</b>	5952	4023	3764	3756	3270	2769	2503	2388	2416	2528
<b>55</b>	5139	3640	3537	3306	2914	2601	2397	2295	2321	2427

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	4244	3185	3093	2745	2546	2335	2124	2160	2220	2255
<b>65</b>	3247	2510	2334	2151	2040	1886	1746	1905	1959	1937
<b>70</b>	2075	1672	1490	1407	1319	1236	1241	1474	1626	1551
<b>75</b>	1032	919	822	738	703	689	700	662	743	883
<b>80</b>	409	369	334	292	275	265	223	153	183	208
<b>85</b>	90	80	71	62	55	47	30	15	24	27
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>200</u></b>	<b><u>210</u></b>	<b><u>220</u></b>	<b><u>230</u></b>	<b><u>240</u></b>	<b><u>250</u></b>	<b><u>260</u></b>	<b><u>270</u></b>	<b><u>280</u></b>	<b><u>290</u></b>
<b>0</b>	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911
<b>5</b>	4121	4183	4278	4392	4522	4673	4832	4995	5151	5306
<b>10</b>	3448	3582	3776	4008	4268	4559	4874	5200	5544	5885
<b>15</b>	2998	3198	3454	3777	4150	4546	4977	5442	5958	6478
<b>20</b>	2908	3078	3291	3599	4033	4552	5078	5656	6310	6985
<b>25</b>	2855	3052	3272	3522	3892	4505	5189	5926	6726	7522
<b>30</b>	2784	2995	3228	3474	3815	4470	5509	6589	7589	8467
<b>35</b>	2776	3017	3260	3489	3828	4641	6234	7797	9089	10083
<b>40</b>	2849	3198	3580	3770	3936	4868	6992	9060	10722	11987
<b>45</b>	2854	3391	3985	4204	4049	4750	7077	9363	11357	13106
<b>50</b>	2839	3365	3878	4151	3941	4281	6357	8661	10950	13313
<b>55</b>	2677	3009	3309	3555	3595	3714	5344	7679	10437	13495
<b>60</b>	2371	2613	2773	2918	3112	3125	4271	6517	9876	13447
<b>65</b>	1885	2024	2139	2209	2338	2414	3135	5024	8527	12005
<b>70</b>	1361	1344	1369	1409	1459	1597	1929	3338	6251	8919
<b>75</b>	748	711	701	720	788	857	925	1728	3631	5351
<b>80</b>	296	296	277	280	307	330	352	558	1310	2067
<b>85</b>	37	48	54	57	61	67	73	92	183	278
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0

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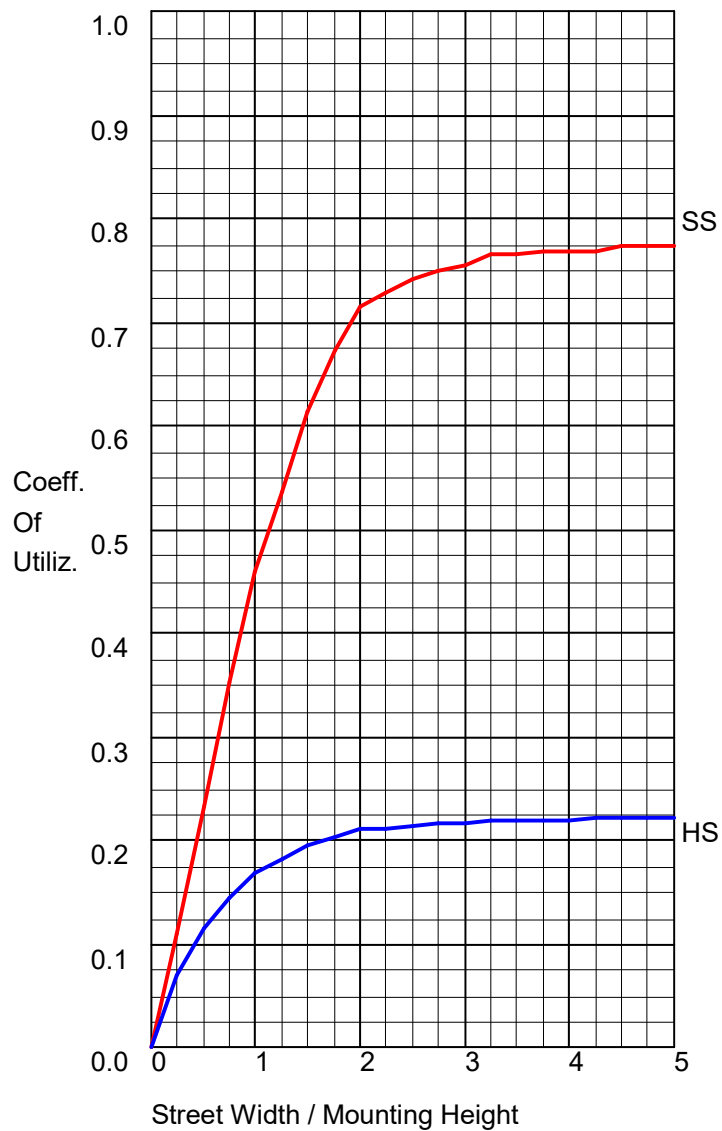
**CANDELA TABULATION - (Cont.)**

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. Horizontal Angles**  
**Angles**

	<b><u>300</u></b>	<b><u>310</u></b>	<b><u>320</u></b>	<b><u>330</u></b>	<b><u>340</u></b>	<b><u>350</u></b>	<b><u>360</u></b>
0	4911	4911	4911	4911	4911	4911	4911
5	5456	5584	5694	5783	5837	5870	5872
10	6198	6465	6683	6839	6963	7032	7051
15	6951	7331	7606	7788	7902	7984	8040
20	7566	8023	8341	8542	8637	8664	8766
25	8137	8576	8865	9084	9253	9344	9504
30	9019	9244	9400	9659	9936	10111	10344
35	10511	10428	10244	10339	10659	10898	11140
40	12473	12166	11630	11307	11422	11618	11830
45	14275	14344	13405	12560	12275	12345	12588
50	15479	16474	15420	13973	13397	13399	13745
55	16526	17832	17322	15410	14635	14607	14695
60	17203	18245	18232	15919	14774	14689	14219
65	15809	16698	16322	13351	11900	10916	7477
70	11719	12427	10885	7562	5940	3988	2845
75	6693	6898	5186	3932	2900	1696	1128
80	2384	2332	1898	1484	1098	592	336
85	315	287	186	184	136	97	30
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

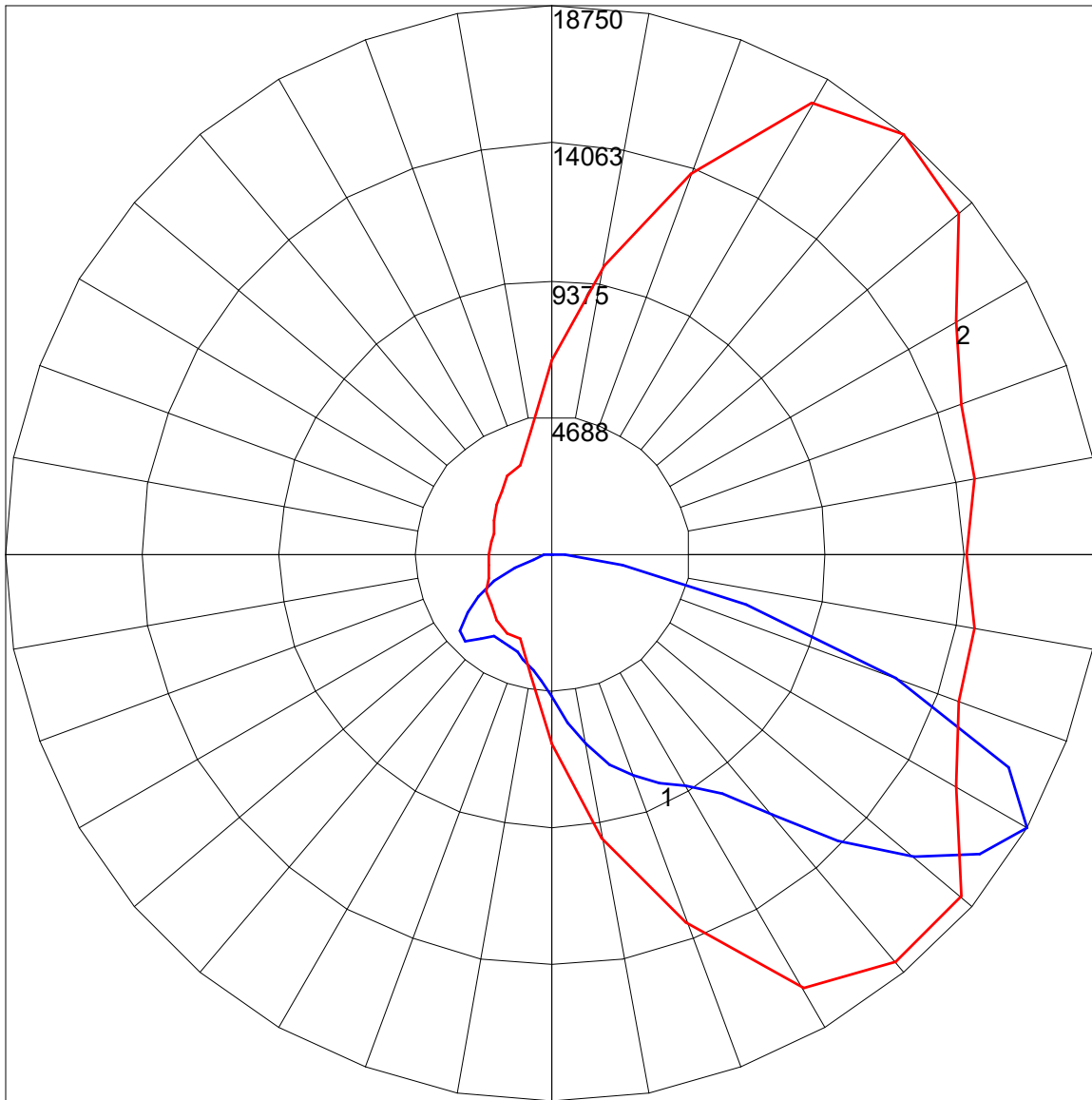
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

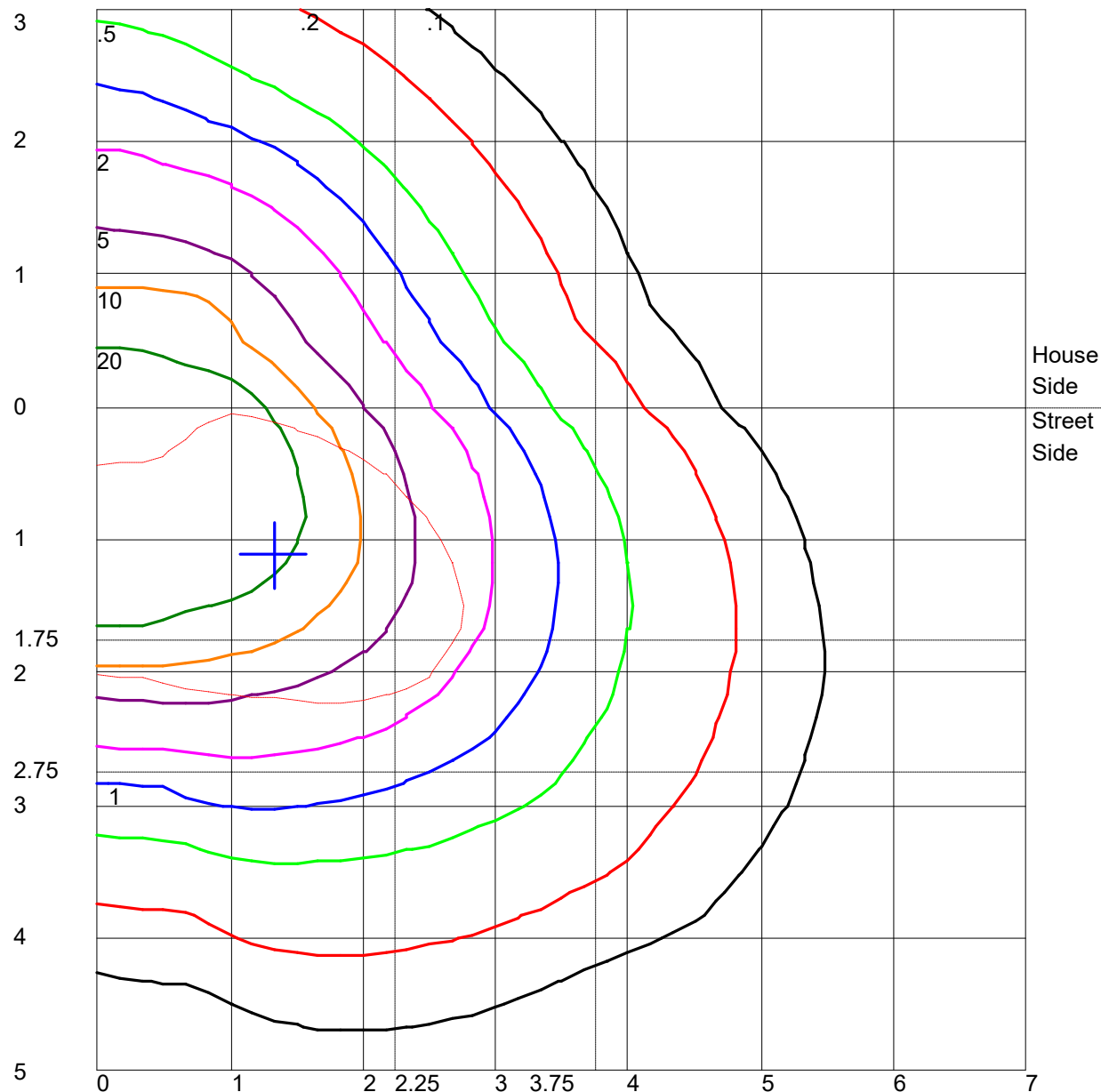
	Lumens	Percent Of Luminaire
Downward Street Side	26263.6	77.7
Downward House Side	7536.0	22.3
Downward Total	33799.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33799.7	100.0

POLAR GRAPH



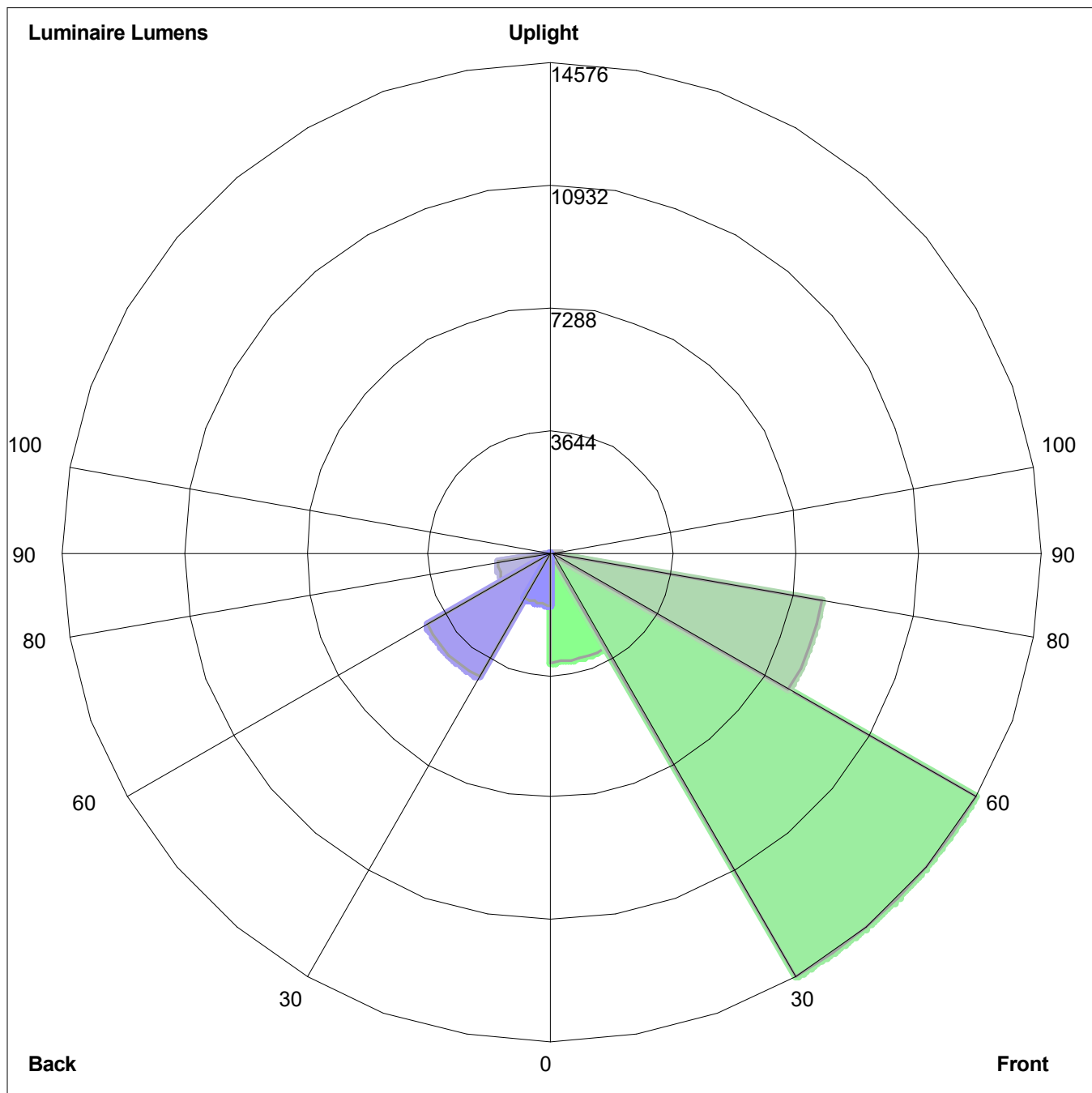
Maximum Candela = 18750 Located At Horizontal Angle = 50, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3255.8, Medium=14576.2, High=8170.5, Very High=261.1  
Back: Low=1549.1, Medium=4292.3, High=1638.3, Very High=56.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4