



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : TEL22-3-LED-23L-45-IC.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] EVERFINE  
[TESTDATE] 2016-09-06  
[ISSUEDATE] 11/15/2019  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] TEL22-3-LED-23L-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	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27541
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	289.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22443
Maximum Candela Angle	30H 65V
Maximum Candela (<90 Degrees Vertical)	22443
Maximum Candela Angle (<90 Degrees Vertical)	30H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	344 (1.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : TEL22-3-LED-23L-45-IC.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3172.8	N.A.	11.5
FM - Front-Medium (30-60)	13833.0	N.A.	50.2
FH - Front-High (60-80)	6622.3	N.A.	24.0
FVH - Front-Very High (80-90)	38.7	N.A.	0.1
BL - Back-Low (0-30)	1211.4	N.A.	4.4
BM - Back-Medium (30-60)	2004.9	N.A.	7.3
BH - Back-High (60-80)	639.3	N.A.	2.3
BVH - Back-Very High (80-90)	18.4	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	27540.8	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0</b>	5869	5869	5869	5869	5869	5869	5869	5869	5869	5869
<b>5</b>	6601	6565	6502	6406	6293	6171	6058	5952	5844	5895
<b>10</b>	7329	7222	7050	6863	6673	6488	6301	6108	5920	5870
<b>15</b>	8040	7773	7452	7156	6989	6801	6572	6298	6022	5892
<b>20</b>	8924	8576	8032	7611	7274	6997	6756	6457	6109	5890
<b>25</b>	10514	10016	9020	8297	7677	7167	6831	6541	6159	5857
<b>30</b>	12888	12370	10956	9465	8207	7369	6831	6531	6207	5852
<b>35</b>	14594	14201	12892	11297	9046	7593	6813	6503	6293	5916
<b>40</b>	16422	15877	14614	12874	10379	7911	6903	6549	6416	5995
<b>45</b>	17429	17085	16261	14534	11836	8639	7123	6621	6432	5977
<b>50</b>	18400	18569	17932	16119	13446	9567	7469	6847	6411	5798
<b>55</b>	19139	19774	19864	18330	15744	11363	8402	7348	6586	5555
<b>60</b>	18492	19936	21146	20721	18417	14317	10576	8434	6269	4864
<b>65</b>	6147	10216	18624	22443	19505	17154	14741	6562	3670	2952
<b>70</b>	1360	1441	2009	6346	13682	12852	5053	1369	1155	827
<b>75</b>	645	670	845	962	1242	1576	650	443	345	299
<b>80</b>	169	228	344	292	251	240	205	184	147	110
<b>85</b>	28	31	36	36	32	27	22	20	19	18
<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>									
	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>
<b>0</b>	5869	5869	5869	5869	5869	5869	5869	5869	5869	5869
<b>5</b>	5755	5586	5384	5182	4997	4834	4694	4591	4534	4529
<b>10</b>	5557	5080	4538	3911	3349	2993	2767	2626	2562	2579
<b>15</b>	5346	4491	3373	2573	2087	1911	1929	1931	1927	1915
<b>20</b>	5069	3687	2433	1839	1778	1771	1786	1825	1830	1809
<b>25</b>	4742	2874	1813	1718	1717	1720	1729	1767	1778	1749
<b>30</b>	4396	2262	1642	1653	1659	1677	1692	1719	1728	1704
<b>35</b>	4047	1796	1549	1565	1591	1620	1631	1651	1651	1635
<b>40</b>	3633	1504	1456	1466	1488	1496	1524	1558	1576	1554
<b>45</b>	3162	1358	1362	1363	1368	1396	1418	1448	1503	1444
<b>50</b>	2612	1250	1239	1244	1283	1278	1253	1263	1316	1260
<b>55</b>	2129	1100	1109	1140	1156	1140	1126	1126	1132	1121

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	1754	947	945	1012	1060	1033	994	916	900	925
<b>65</b>	1814	819	768	827	871	834	778	741	728	739
<b>70</b>	562	485	573	595	586	594	555	522	506	523
<b>75</b>	270	285	344	339	330	342	325	289	274	293
<b>80</b>	107	108	128	119	124	125	111	75	67	83
<b>85</b>	15	13	12	12	13	12	10	8	8	9
<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>									
	<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>	5869	5869	5869	5869	5869	5869	5869	5869	5869	5869
<b>5</b>	4580	4675	4810	4964	5151	5360	5569	5924	6039	6138
<b>10</b>	2660	2800	3097	3616	4241	4837	5361	5962	6176	6360
<b>15</b>	1856	1848	1977	2372	3044	4129	5098	5982	6286	6563
<b>20</b>	1767	1752	1743	1765	2197	3252	4774	5976	6376	6755
<b>25</b>	1724	1714	1701	1679	1711	2559	4402	5996	6482	6913
<b>30</b>	1693	1678	1657	1626	1592	2010	3998	6064	6625	7007
<b>35</b>	1632	1622	1592	1543	1497	1610	3578	6163	6833	7130
<b>40</b>	1524	1494	1484	1449	1401	1390	3070	6180	7075	7362
<b>45</b>	1420	1391	1365	1354	1313	1275	2583	6076	7285	7620
<b>50</b>	1261	1283	1271	1243	1199	1177	2162	5941	7570	8191
<b>55</b>	1116	1140	1154	1144	1081	1044	1770	5717	7920	9304
<b>60</b>	983	1015	1046	1050	937	901	1403	4343	6905	10769
<b>65</b>	779	812	867	848	751	793	1370	2374	3428	7522
<b>70</b>	565	576	592	609	558	484	464	741	1051	1430
<b>75</b>	332	347	333	353	336	286	264	281	343	452
<b>80</b>	119	131	128	124	127	108	105	102	141	177
<b>85</b>	11	14	14	13	12	12	14	16	19	20
<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

**IES ROAD REPORT**  
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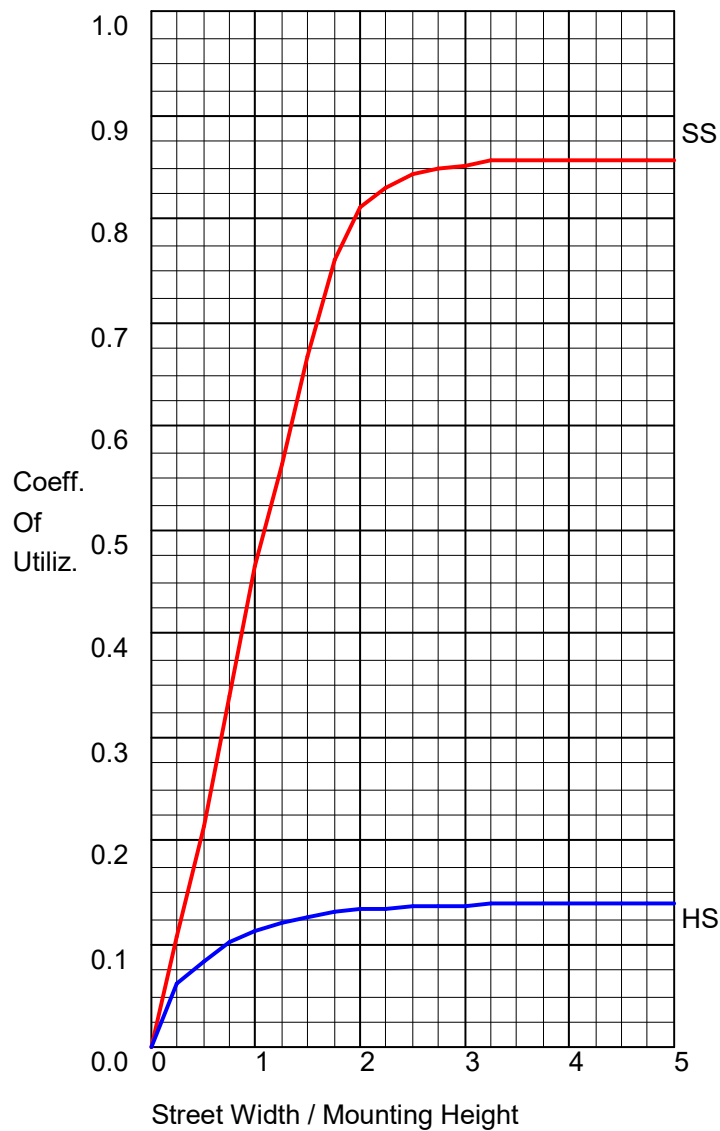
**CANDELA TABULATION - (Cont.)**

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. 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	5869	5869	5869	5869	5869	5869	5869
5	6236	6336	6431	6514	6576	6607	6601
10	6537	6707	6852	7014	7161	7285	7329
15	6845	7059	7222	7375	7647	7893	8040
20	7056	7310	7619	7945	8360	8807	8924
25	7195	7586	8168	8853	9619	10465	10514
30	7309	7968	9013	10426	11707	12890	12888
35	7502	8503	10355	12215	13470	14564	14594
40	7893	9370	11762	13677	15159	16173	16422
45	8440	10687	13191	15336	16709	17284	17429
50	9329	12015	14851	16949	18386	18623	18400
55	11048	14318	17151	19111	20112	19643	19139
60	14147	17452	19542	21008	21009	19619	18492
65	17899	19440	20202	21231	16862	8756	6147
70	5756	12974	12998	4993	1793	1359	1360
75	762	1476	1452	979	776	658	645
80	211	236	276	322	344	213	169
85	24	31	37	47	39	32	28
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

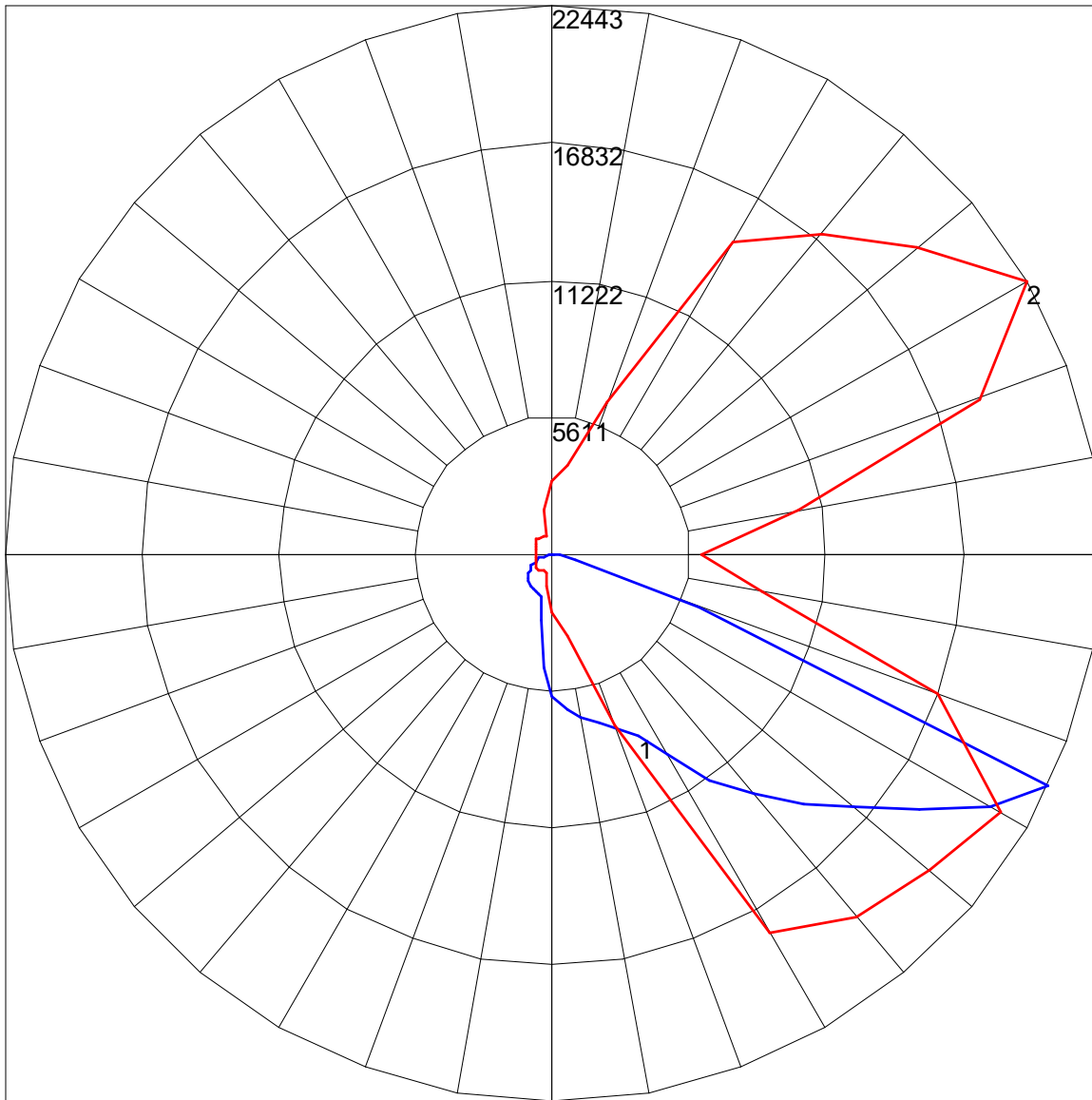
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

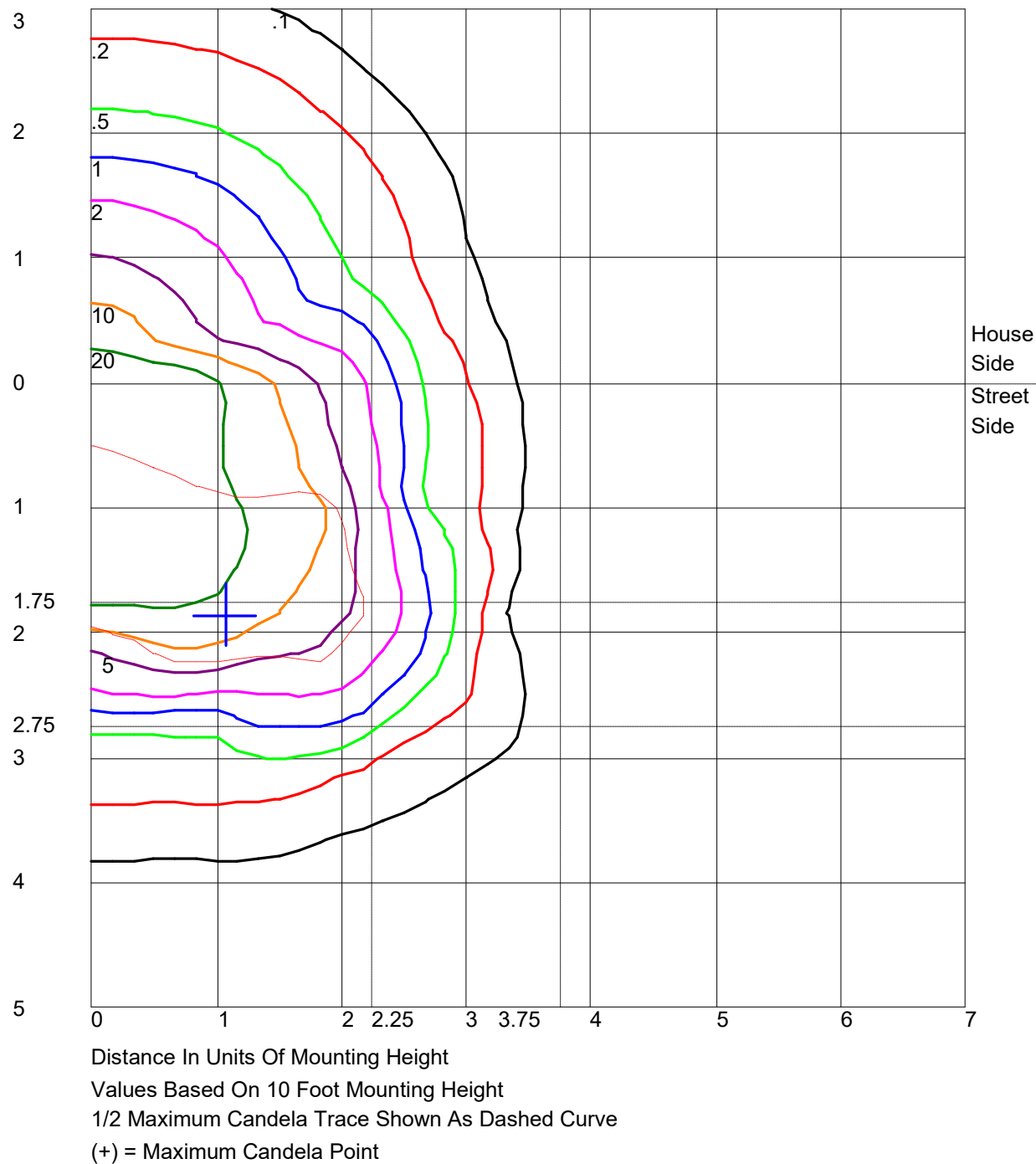
	Lumens	Percent Of Luminaire
Downward Street Side	23666.7	85.9
Downward House Side	3873.9	14.1
Downward Total	27540.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27540.6	100.0

POLAR GRAPH



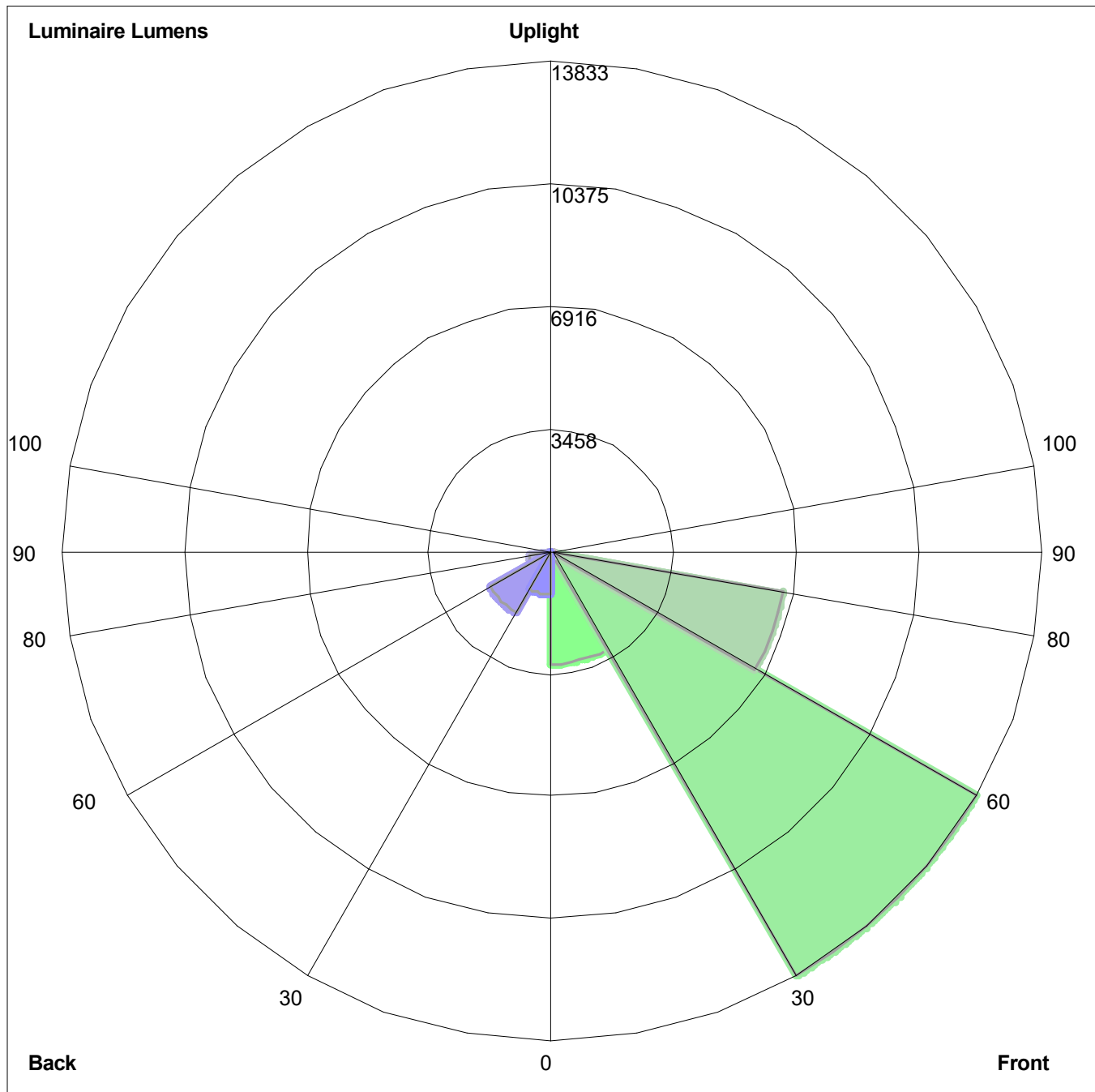
Maximum Candela = 22443 Located At Horizontal Angle = 30, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3172.8, Medium= 13833.0, High=6622.3, Very High=38.7  
Back: Low=1211.4, Medium=2004.9, High=639.3, Very High=18.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3