



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4-LED-34L-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] TEL22-4-LED-34L-45-IC

[\_SEARCH\_SOURCE] 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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28557
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	315.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16891
Maximum Candela Angle	310H 70V
Maximum Candela (<90 Degrees Vertical)	16891
Maximum Candela Angle (<90 Degrees Vertical)	310H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2634 (9.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : TEL22-4-LED-34L-45-IC.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2861.8	N.A.	10.0
FM - Front-Medium (30-60)	10694.8	N.A.	37.5
FH - Front-High (60-80)	8656.2	N.A.	30.3
FVH - Front-Very High (80-90)	171.9	N.A.	0.6
BL - Back-Low (0-30)	1573.7	N.A.	5.5
BM - Back-Medium (30-60)	3282.4	N.A.	11.5
BH - Back-High (60-80)	1273.3	N.A.	4.5
BVH - Back-Very High (80-90)	42.7	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	28556.8	N.A.	100.0
BUG Rating	B3-U0-G4		

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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>	5599	5599	5599	5599	5599	5599	5599	5599	5599	5599
<b>5</b>	6079	6055	6016	5956	5885	5806	5730	5660	5584	5648
<b>10</b>	6582	6528	6432	6319	6181	6046	5920	5798	5668	5650
<b>15</b>	7041	6930	6788	6619	6490	6359	6193	6000	5807	5732
<b>20</b>	7424	7304	7165	6972	6838	6689	6506	6271	6007	5839
<b>25</b>	7666	7581	7489	7370	7248	7087	6857	6590	6250	5969
<b>30</b>	7913	7872	7820	7773	7642	7457	7234	6911	6498	6091
<b>35</b>	8349	8290	8246	8205	8067	7901	7614	7302	6813	6194
<b>40</b>	8874	8759	8669	8653	8592	8418	8123	7706	7205	6292
<b>45</b>	9565	9257	9078	8973	8974	8866	8528	8180	7779	6541
<b>50</b>	10542	10166	9849	9674	9304	9052	9249	9240	8780	7019
<b>55</b>	11825	11666	11198	10618	9813	9769	10545	10414	9478	7159
<b>60</b>	13059	13246	13020	12229	10942	11461	11861	10978	9200	6508
<b>65</b>	10166	11057	12938	13780	14136	13989	12616	9941	7444	4732
<b>70</b>	5134	6185	9253	12191	16528	15119	11680	8795	5278	2338
<b>75</b>	1416	1845	3658	6853	9680	9578	8661	5867	2956	1053
<b>80</b>	243	399	909	1515	979	1232	2099	1310	688	309
<b>85</b>	31	37	65	84	53	50	63	46	41	39
<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>	5599	5599	5599	5599	5599	5599	5599	5599	5599	5599
<b>5</b>	5539	5412	5275	5139	5013	4909	4815	4749	4710	4708
<b>10</b>	5414	5100	4732	4335	3992	3754	3607	3524	3484	3487
<b>15</b>	5314	4707	4020	3526	3244	3129	3096	3091	3093	3086
<b>20</b>	5180	4201	3424	3104	3055	3049	3049	3059	3065	3058
<b>25</b>	4969	3652	3051	3003	3000	3016	3032	3046	3054	3044
<b>30</b>	4639	3181	2904	2919	2959	3002	3027	3035	3036	3030
<b>35</b>	4198	2841	2792	2852	2914	2964	2988	2990	2987	2985
<b>40</b>	3687	2645	2679	2766	2865	2919	2919	2892	2879	2897
<b>45</b>	3178	2484	2523	2637	2779	2809	2792	2745	2723	2758
<b>50</b>	2742	2296	2337	2469	2592	2647	2637	2573	2534	2594
<b>55</b>	2337	2060	2155	2257	2342	2469	2506	2422	2372	2445

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

<b>60</b>	1914	1761	1948	1963	2052	2274	2306	2151	2033	2204
<b>65</b>	1747	1436	1624	1587	1653	1803	1847	1556	1487	1625
<b>70</b>	1076	1067	1189	1143	1138	1288	1271	1072	1027	1096
<b>75</b>	603	628	734	672	665	719	751	606	576	641
<b>80</b>	245	248	271	247	251	259	210	153	143	173
<b>85</b>	33	30	29	29	30	28	24	19	19	21
<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>	5599	5599	5599	5599	5599	5599	5599	5599	5599	5599
<b>5</b>	4747	4814	4904	5016	5141	5274	5401	5675	5753	5817
<b>10</b>	3559	3676	3879	4184	4559	4939	5274	5709	5861	5973
<b>15</b>	3082	3100	3193	3434	3852	4513	5158	5813	6044	6245
<b>20</b>	3049	3039	3032	3069	3332	4001	4993	5926	6263	6554
<b>25</b>	3028	3004	2977	2967	3005	3508	4725	6034	6510	6891
<b>30</b>	3014	2978	2928	2870	2846	3078	4370	6123	6767	7213
<b>35</b>	2974	2939	2874	2796	2724	2759	3918	6228	7115	7538
<b>40</b>	2914	2886	2817	2711	2610	2565	3419	6372	7634	7993
<b>45</b>	2783	2774	2725	2577	2458	2390	2974	6784	8434	8722
<b>50</b>	2626	2611	2535	2413	2292	2198	2609	7431	9842	10124
<b>55</b>	2492	2402	2310	2212	2105	1986	2257	7416	10573	11357
<b>60</b>	2296	2169	1993	1943	1898	1727	1876	6786	10426	12040
<b>65</b>	1819	1744	1644	1625	1659	1430	1596	5081	8601	11330
<b>70</b>	1322	1225	1192	1210	1255	1079	1063	3112	6513	10252
<b>75</b>	793	724	711	731	782	659	624	1424	3995	6876
<b>80</b>	258	295	293	289	315	283	270	346	1076	1720
<b>85</b>	29	36	38	38	37	38	40	45	53	72
<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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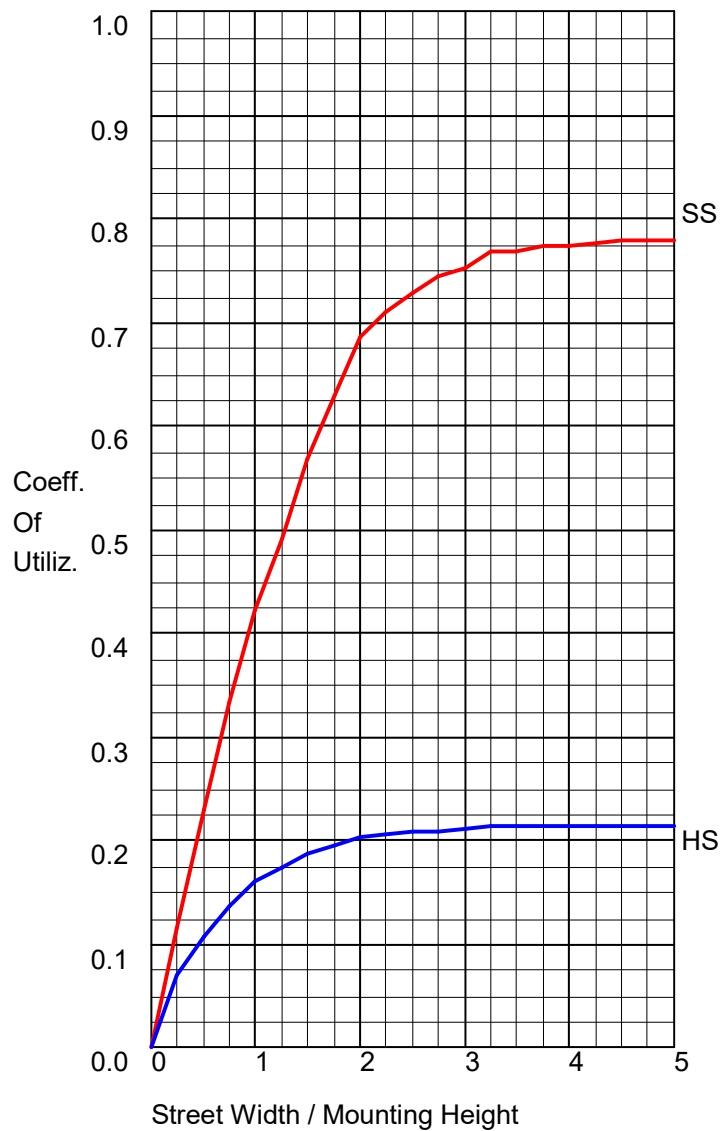
**CANDELA TABULATION - (Cont.)**

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	5599	5599	5599	5599	5599	5599	5599
5	5881	5948	6004	6052	6076	6088	6079
10	6091	6233	6371	6479	6560	6590	6582
15	6430	6562	6674	6829	6949	7046	7041
20	6777	6924	7027	7178	7329	7425	7424
25	7135	7327	7456	7552	7639	7675	7666
30	7462	7705	7890	7950	7971	7950	7913
35	7820	8090	8294	8449	8408	8402	8349
40	8324	8580	8789	8891	8884	8967	8874
45	8958	9095	9130	9237	9347	9576	9565
50	9887	9480	9670	9896	10178	10511	10542
55	11382	10318	10488	11019	11566	11829	11825
60	12800	12191	11925	12836	13255	13228	13059
65	13884	15156	14761	14122	12541	10769	10166
70	13020	16891	16270	11834	8039	5705	5134
75	10353	10584	11999	5970	2994	1557	1416
80	2634	1256	1652	1449	715	336	243
85	94	81	100	93	70	38	31
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

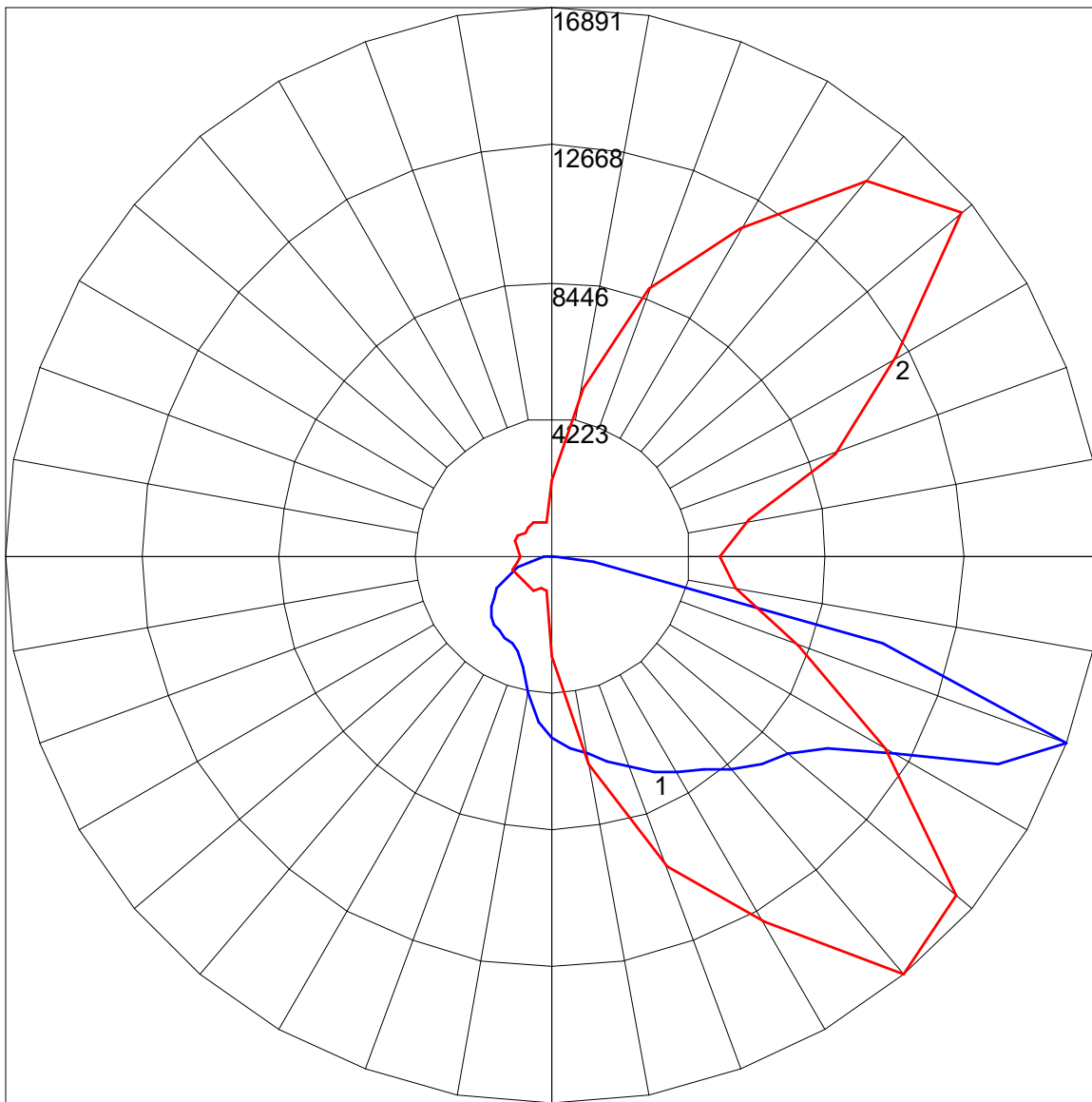
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

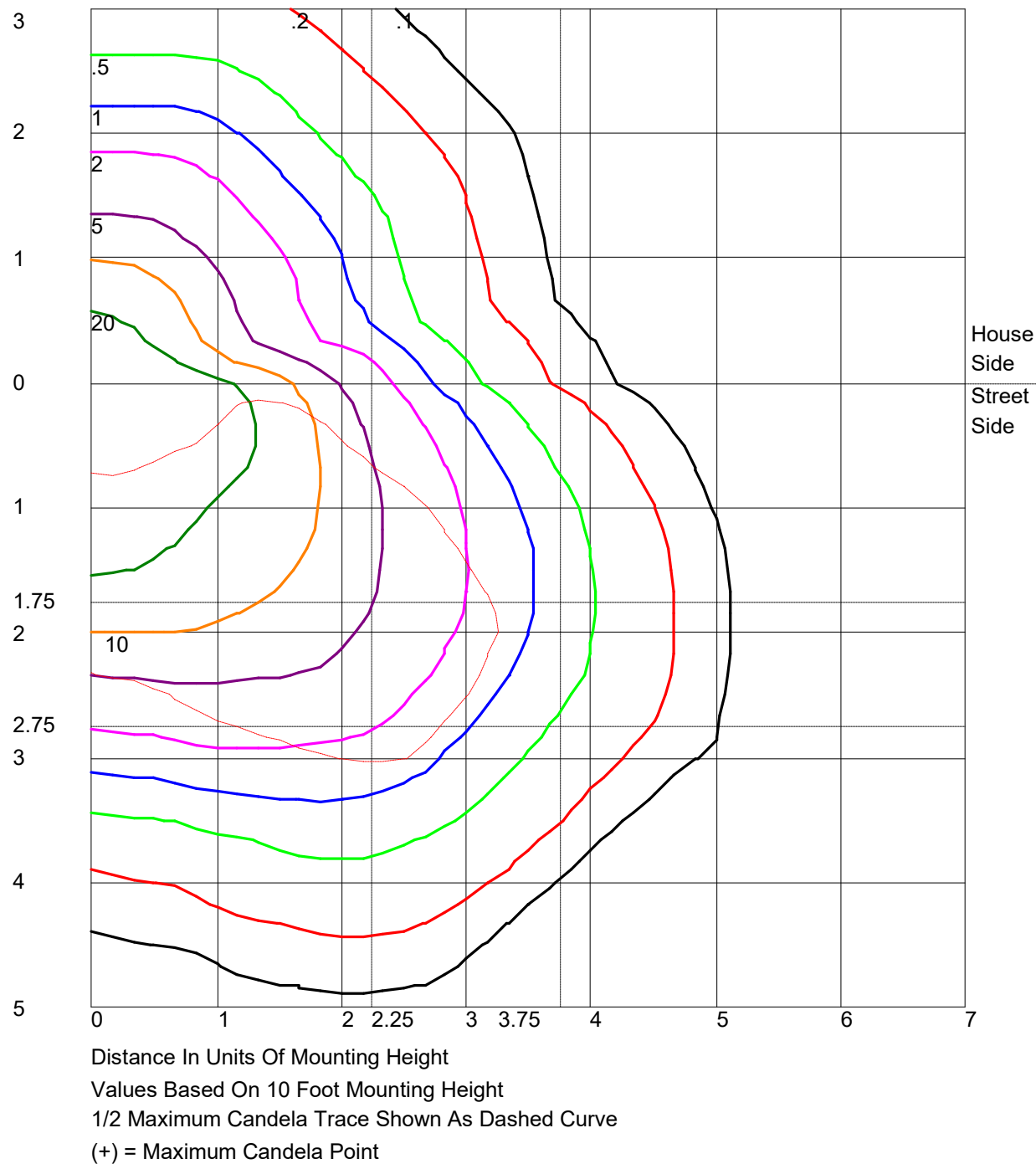
	Lumens	Percent Of Luminaire
Downward Street Side	22384.8	78.4
Downward House Side	6172.0	21.6
Downward Total	28556.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28556.8	100.0

POLAR GRAPH

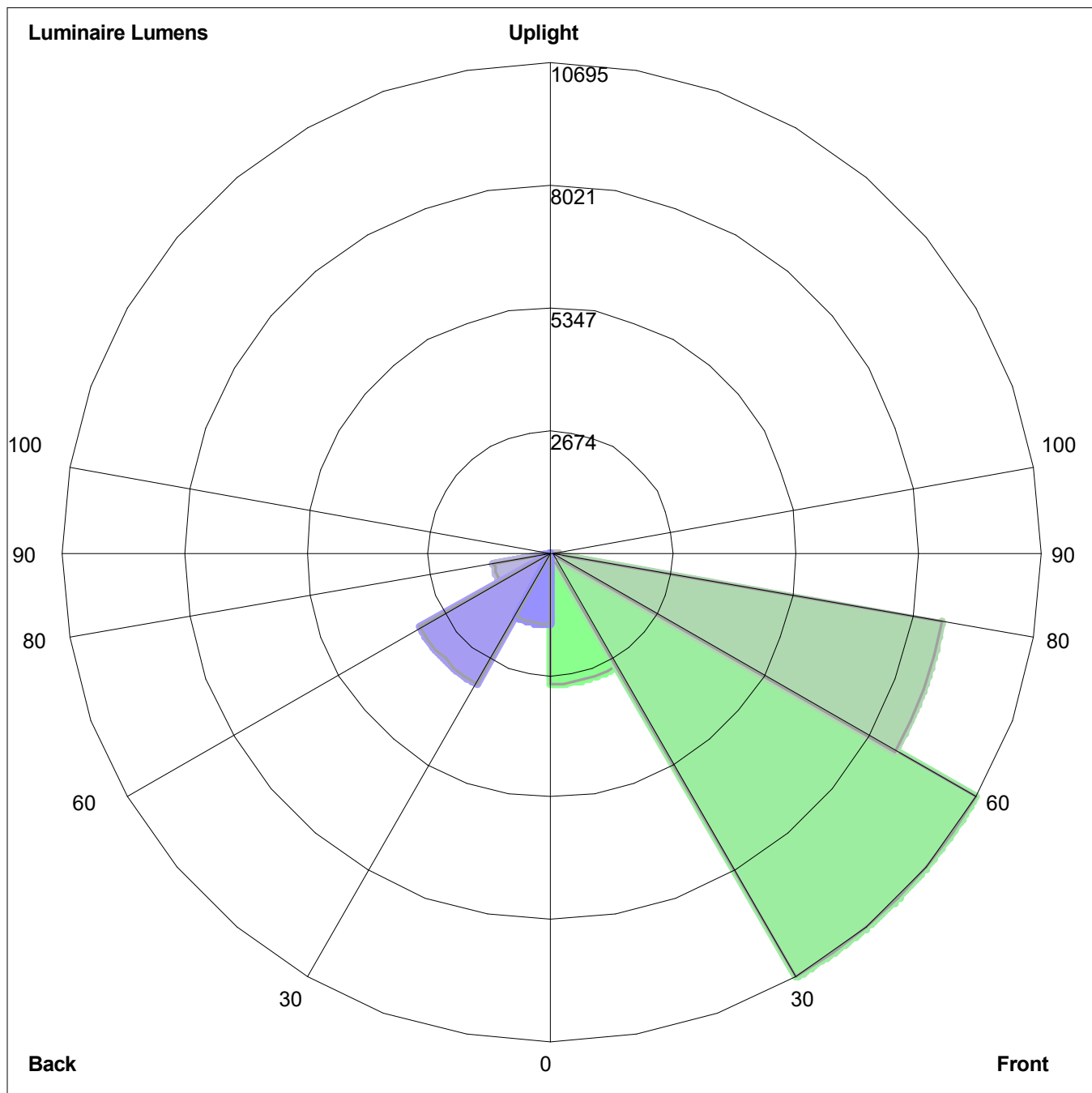


Maximum Candela = 16891 Located At Horizontal Angle = 310, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2861.8, Medium=10694.8, High=8656.2, Very High=171.9  
Back: Low=1573.7, Medium=3282.4, High=1273.3, Very High=42.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4