



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GST-06L-FT-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12865  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/29/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GST-06L-FT-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] OUTDOOR  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5862
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2773
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	2773
Maximum Candela Angle (<90 Degrees Vertical)	5H 27.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	212 (3.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1052.7	N.A.	18.0
FM - Front-Medium (30-60)	2301.0	N.A.	39.3
FH - Front-High (60-80)	727.4	N.A.	12.4
FVH - Front-Very High (80-90)	29.5	N.A.	0.5
BL - Back-Low (0-30)	739.2	N.A.	12.6
BM - Back-Medium (30-60)	853.9	N.A.	14.6
BH - Back-High (60-80)	150.2	N.A.	2.6
BVH - Back-Very High (80-90)	8.3	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	5862.2	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>85</b>
<b>0.0</b>	2262	2262	2262	2262	2262	2262	2262	2262	2262	2262
<b>2.5</b>	2272	2273	2276	2282	2288	2294	2300	2304	2304	2299
<b>5.0</b>	2332	2333	2331	2335	2335	2334	2331	2324	2313	2297
<b>7.5</b>	2410	2411	2406	2401	2394	2376	2358	2344	2324	2298
<b>10.0</b>	2492	2492	2487	2478	2465	2428	2392	2365	2337	2300
<b>12.5</b>	2524	2522	2525	2521	2504	2475	2429	2386	2347	2298
<b>15.0</b>	2584	2582	2567	2546	2526	2502	2464	2414	2354	2292
<b>17.5</b>	2663	2663	2650	2616	2570	2524	2490	2441	2359	2283
<b>20.0</b>	2701	2708	2708	2673	2633	2565	2502	2458	2357	2261
<b>22.5</b>	2717	2720	2717	2693	2673	2610	2506	2456	2341	2225
<b>25.0</b>	2755	2752	2738	2697	2677	2636	2526	2428	2312	2183
<b>27.5</b>	2764	2773	2749	2723	2681	2645	2533	2394	2276	2146
<b>30.0</b>	2749	2763	2748	2740	2677	2611	2504	2349	2250	2105
<b>32.5</b>	2727	2727	2733	2710	2645	2573	2463	2319	2197	2024
<b>35.0</b>	2687	2699	2694	2654	2605	2540	2408	2285	2125	1947
<b>37.5</b>	2641	2660	2641	2600	2553	2482	2345	2220	2039	1870
<b>40.0</b>	2581	2602	2572	2540	2488	2397	2281	2141	1953	1777
<b>42.5</b>	2505	2520	2490	2458	2405	2312	2206	2045	1863	1683
<b>45.0</b>	2421	2427	2400	2370	2311	2214	2103	1943	1757	1577
<b>47.5</b>	2321	2324	2299	2266	2205	2108	1993	1838	1653	1462
<b>50.0</b>	2199	2210	2190	2148	2085	1987	1873	1723	1535	1348
<b>52.5</b>	2061	2068	2050	2022	1955	1847	1727	1587	1417	1228
<b>55.0</b>	1896	1912	1897	1873	1811	1712	1587	1458	1291	1110
<b>57.5</b>	1736	1746	1735	1710	1654	1557	1438	1314	1163	992
<b>60.0</b>	1566	1566	1567	1541	1487	1396	1294	1174	1030	873
<b>62.5</b>	1387	1386	1383	1367	1308	1234	1143	1035	905	762
<b>65.0</b>	1204	1204	1203	1173	1132	1071	990	896	781	655
<b>67.5</b>	1018	1019	1011	995	953	907	840	762	665	549
<b>70.0</b>	837	829	832	818	785	742	697	633	552	455
<b>72.5</b>	661	654	658	648	624	592	560	503	439	366
<b>75.0</b>	476	486	490	488	473	450	415	385	341	285
<b>77.5</b>	324	334	338	342	336	317	298	277	251	211
<b>80.0</b>	187	187	200	208	212	204	194	183	166	143
<b>82.5</b>	72	72	78	93	100	108	106	103	97	85
<b>85.0</b>	5	5	7	13	23	34	40	42	42	39
<b>87.5</b>	0	0	1	1	1	1	2	5	7	8
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>90</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>	<b>175</b>
<b>0.0</b>	2262	2262	2262	2262	2262	2262	2262	2262	2262	2262
<b>2.5</b>	2300	2295	2285	2270	2255	2238	2223	2203	2188	2180
<b>5.0</b>	2290	2279	2259	2233	2209	2183	2156	2130	2105	2103
<b>7.5</b>	2285	2264	2226	2183	2142	2102	2071	2041	2014	2010
<b>10.0</b>	2281	2253	2192	2130	2071	2020	1974	1941	1921	1916
<b>12.5</b>	2269	2236	2166	2086	2014	1947	1896	1857	1829	1815
<b>15.0</b>	2263	2226	2146	2048	1959	1879	1804	1754	1735	1729
<b>17.5</b>	2247	2206	2114	1997	1906	1806	1728	1664	1637	1630
<b>20.0</b>	2216	2164	2055	1932	1837	1740	1653	1569	1527	1516
<b>22.5</b>	2169	2111	1981	1862	1747	1654	1561	1475	1417	1404
<b>25.0</b>	2134	2072	1922	1795	1665	1550	1457	1375	1302	1280
<b>27.5</b>	2093	2021	1850	1706	1575	1451	1344	1253	1175	1148

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**CANDELA TABULATION - (Cont.)**

30.0	2029	1947	1767	1606	1470	1346	1228	1129	1059	1030
32.5	1953	1873	1685	1519	1367	1234	1108	1011	942	901
35.0	1875	1785	1594	1418	1257	1111	994	896	815	772
37.5	1793	1684	1492	1314	1147	995	878	775	698	653
40.0	1689	1587	1385	1210	1039	887	759	656	581	541
42.5	1588	1483	1281	1095	921	773	642	544	482	447
45.0	1479	1380	1175	985	816	667	541	454	402	372
47.5	1367	1261	1065	881	711	561	448	376	329	308
50.0	1252	1147	959	778	614	469	372	312	271	248
52.5	1137	1032	848	676	518	389	308	255	219	201
55.0	1023	926	748	578	434	322	253	207	176	160
57.5	911	817	645	493	358	264	205	166	140	128
60.0	802	708	557	415	295	214	164	133	111	102
62.5	691	613	472	345	240	172	130	105	89	82
65.0	587	521	396	283	194	138	103	85	73	67
67.5	494	437	328	229	154	110	83	68	59	55
70.0	409	358	268	182	122	86	65	54	48	45
72.5	328	288	211	139	92	67	51	43	39	38
75.0	256	224	162	102	69	50	39	33	31	30
77.5	190	166	116	72	49	37	29	25	25	24
80.0	130	112	79	47	33	24	19	18	18	17
82.5	79	69	47	28	19	15	12	12	12	12
85.0	35	34	22	13	8	7	6	6	7	7
87.5	8	8	5	3	2	2	2	2	2	2
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

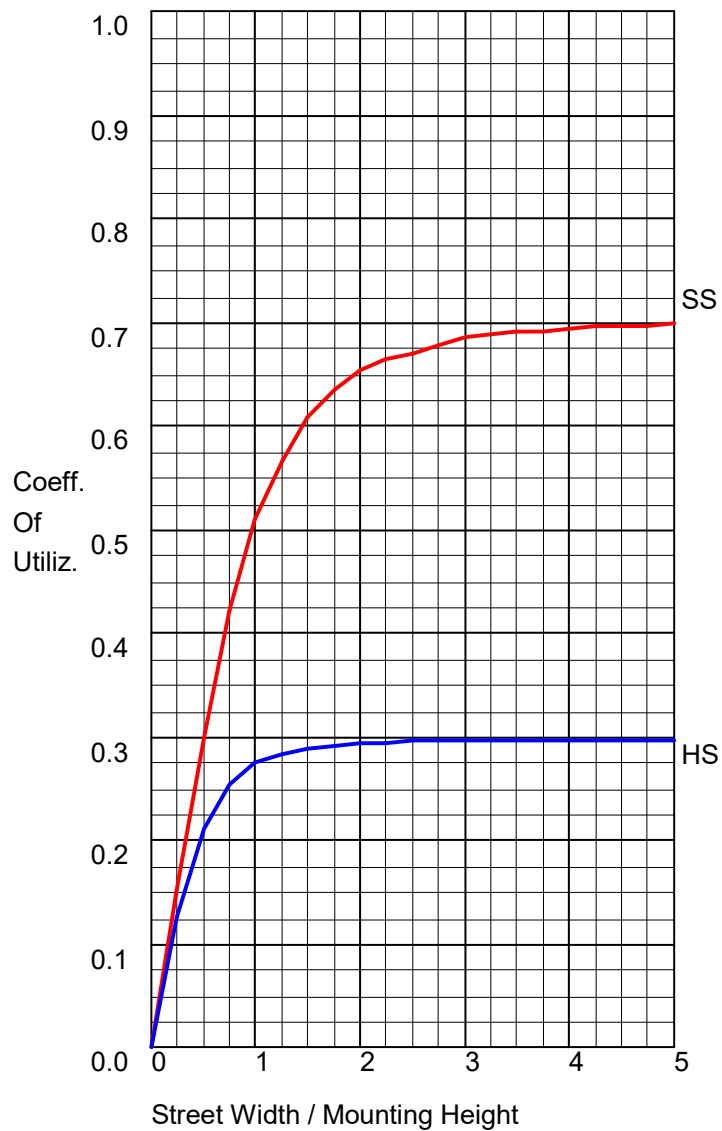
	<b>180</b>
0.0	2262
2.5	2179
5.0	2102
7.5	2011
10.0	1917
12.5	1815
15.0	1731
17.5	1627
20.0	1513
22.5	1407
25.0	1284
27.5	1152
30.0	1021
32.5	901
35.0	775
37.5	654
40.0	541
42.5	445
45.0	370
47.5	305
50.0	248
52.5	201
55.0	156
57.5	124
60.0	100
62.5	82
65.0	67

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	55
<b>70.0</b>	45
<b>72.5</b>	38
<b>75.0</b>	30
<b>77.5</b>	24
<b>80.0</b>	17
<b>82.5</b>	12
<b>85.0</b>	7
<b>87.5</b>	2
<b>90.0</b>	0

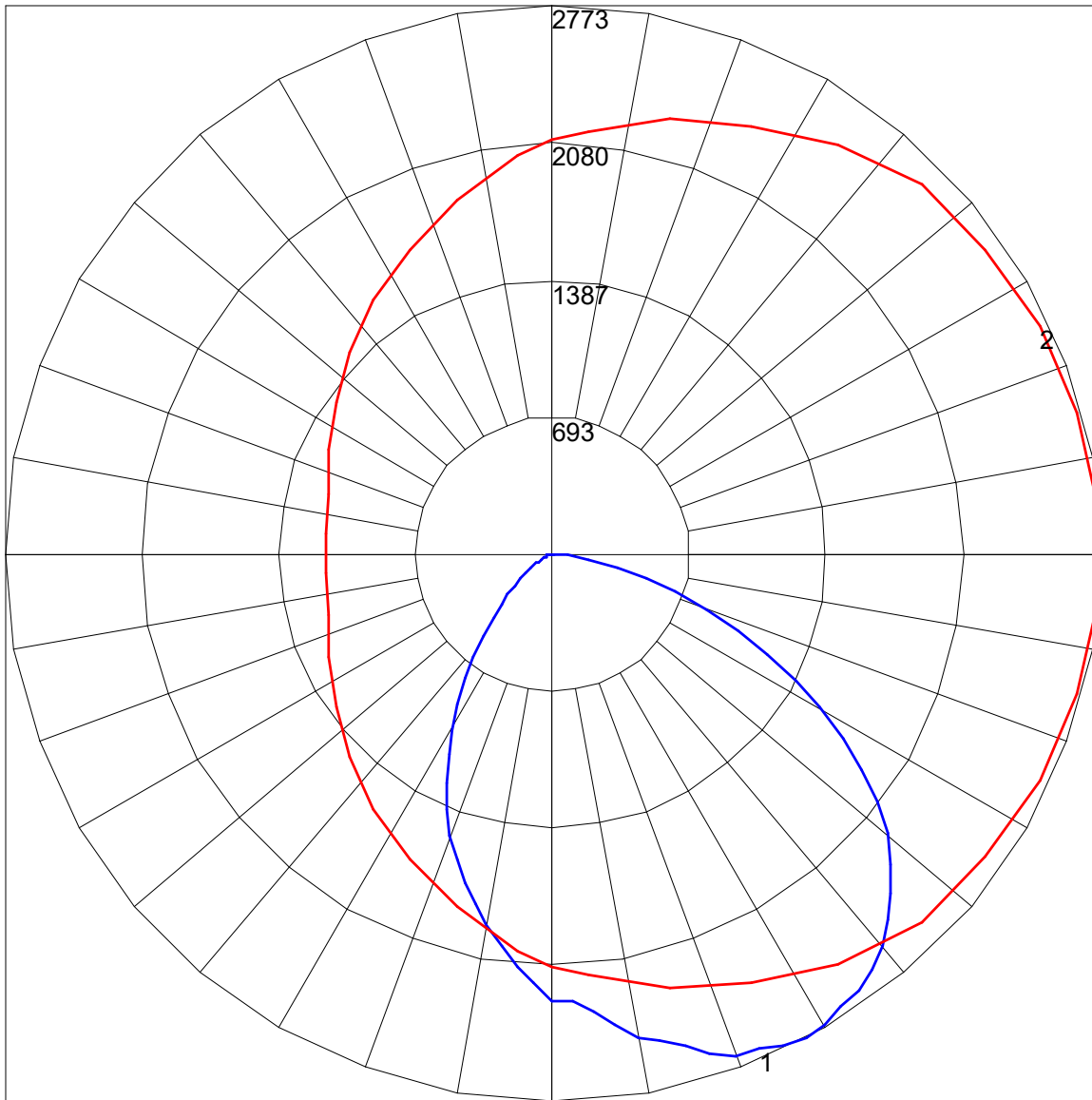
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

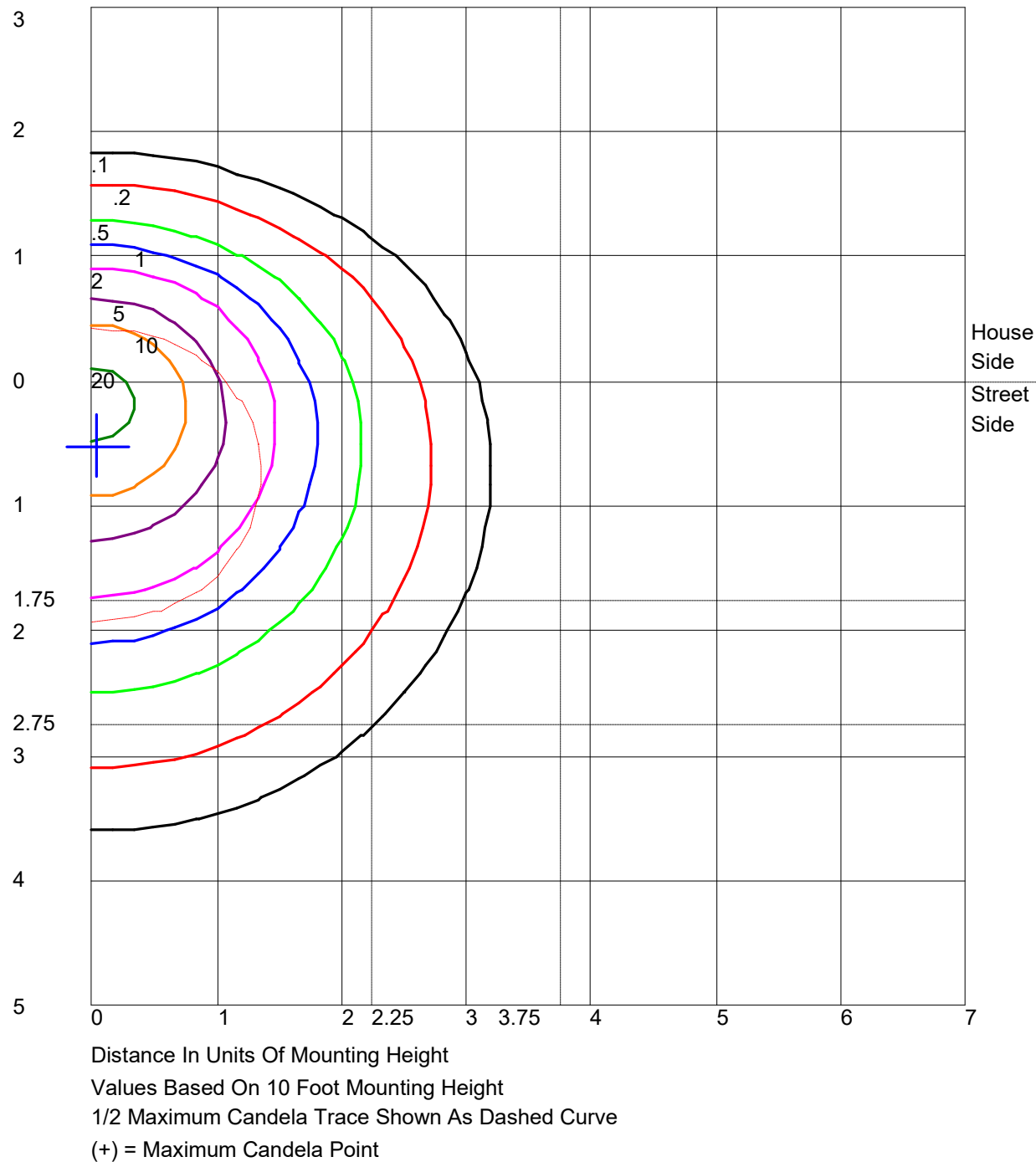
	Lumens	Percent Of Luminaire
Downward Street Side	4110.6	70.1
Downward House Side	1751.6	29.9
Downward Total	5862.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5862.2	100.0

POLAR GRAPH



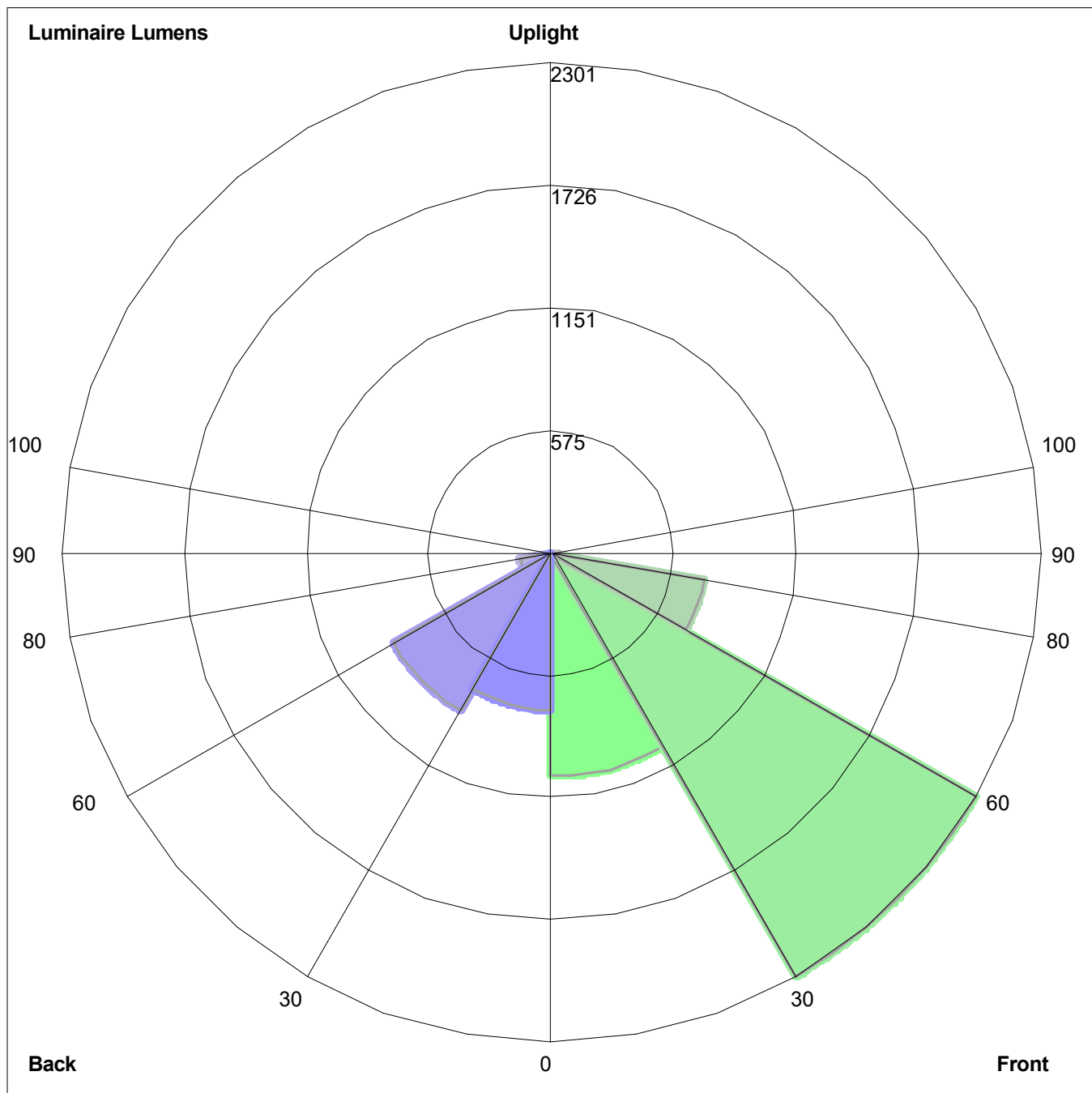
Maximum Candela = 2773 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1052.7, Medium= 2301.0, High=727.4, Very High=29.5  
Back: Low=739.2, Medium=853.9, High=150.2, Very High=8.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1