



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GST-04L-FT-30.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-04L-FT-30  
[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] 3000

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3901
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1845
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1845
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	141 (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)	700.4	N.A.	18.0
FM - Front-Medium (30-60)	1531.0	N.A.	39.2
FH - Front-High (60-80)	483.9	N.A.	12.4
FVH - Front-Very High (80-90)	19.7	N.A.	0.5
BL - Back-Low (0-30)	491.8	N.A.	12.6
BM - Back-Medium (30-60)	568.2	N.A.	14.6
BH - Back-High (60-80)	100.1	N.A.	2.6
BVH - Back-Very High (80-90)	5.6	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	3900.7	N.A.	100.0
BUG Rating	B1-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>	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
<b>2.5</b>	1511	1512	1514	1518	1523	1527	1530	1533	1533	1529
<b>5.0</b>	1551	1552	1551	1554	1554	1553	1550	1546	1539	1528
<b>7.5</b>	1603	1604	1601	1598	1593	1581	1569	1560	1546	1529
<b>10.0</b>	1658	1658	1655	1649	1640	1616	1592	1574	1555	1530
<b>12.5</b>	1679	1677	1680	1677	1667	1647	1617	1587	1562	1529
<b>15.0</b>	1719	1718	1708	1693	1680	1665	1639	1607	1566	1525
<b>17.5</b>	1772	1772	1763	1741	1710	1679	1657	1624	1569	1519
<b>20.0</b>	1796	1802	1802	1778	1752	1706	1665	1636	1568	1505
<b>22.5</b>	1808	1810	1808	1792	1778	1736	1668	1635	1558	1480
<b>25.0</b>	1833	1831	1822	1795	1781	1754	1680	1616	1538	1452
<b>27.5</b>	1839	1845	1830	1812	1783	1760	1686	1593	1514	1428
<b>30.0</b>	1830	1838	1829	1823	1781	1737	1667	1563	1497	1401
<b>32.5</b>	1814	1814	1818	1803	1760	1712	1639	1543	1461	1347
<b>35.0</b>	1788	1796	1793	1766	1733	1690	1602	1520	1414	1295
<b>37.5</b>	1758	1770	1758	1729	1699	1652	1561	1477	1357	1243
<b>40.0</b>	1717	1731	1711	1690	1655	1595	1518	1424	1299	1183
<b>42.5</b>	1668	1676	1657	1635	1600	1538	1467	1361	1239	1119
<b>45.0</b>	1611	1615	1597	1577	1538	1473	1400	1293	1170	1049
<b>47.5</b>	1545	1546	1529	1508	1467	1403	1326	1224	1099	973
<b>50.0</b>	1463	1471	1456	1429	1387	1322	1245	1147	1021	897
<b>52.5</b>	1371	1376	1364	1346	1301	1229	1149	1056	943	817
<b>55.0</b>	1261	1272	1262	1245	1206	1139	1056	970	859	739
<b>57.5</b>	1155	1162	1154	1137	1100	1035	956	874	775	660
<b>60.0</b>	1042	1042	1043	1026	990	929	861	781	686	581
<b>62.5</b>	923	922	920	909	870	821	760	688	602	507
<b>65.0</b>	801	801	800	780	754	712	658	596	520	436
<b>67.5</b>	678	678	673	662	634	603	559	507	442	365
<b>70.0</b>	556	552	554	545	523	493	464	421	367	303
<b>72.5</b>	439	435	438	431	415	394	372	334	293	243
<b>75.0</b>	316	324	327	325	315	300	277	257	226	189
<b>77.5</b>	215	223	225	227	223	211	199	184	167	140
<b>80.0</b>	124	124	133	138	141	135	129	121	111	96
<b>82.5</b>	48	48	52	63	67	72	71	69	64	57
<b>85.0</b>	3	3	5	9	15	23	27	27	28	26
<b>87.5</b>	0	0	1	1	1	1	2	3	5	5
<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>	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
<b>2.5</b>	1530	1527	1520	1510	1500	1489	1478	1466	1456	1451
<b>5.0</b>	1524	1516	1503	1485	1470	1452	1435	1418	1401	1400
<b>7.5</b>	1520	1507	1481	1453	1425	1399	1379	1358	1340	1337
<b>10.0</b>	1518	1499	1458	1418	1379	1344	1313	1292	1278	1275
<b>12.5</b>	1510	1488	1441	1388	1340	1295	1261	1236	1218	1207
<b>15.0</b>	1506	1481	1428	1363	1303	1250	1201	1167	1154	1151
<b>17.5</b>	1495	1467	1406	1329	1268	1202	1150	1107	1089	1084
<b>20.0</b>	1474	1440	1367	1285	1223	1158	1099	1044	1015	1009
<b>22.5</b>	1443	1404	1317	1239	1163	1100	1039	982	943	934
<b>25.0</b>	1420	1379	1278	1194	1108	1031	970	915	867	851
<b>27.5</b>	1393	1345	1230	1135	1047	966	895	833	781	764

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**CANDELA TABULATION - (Cont.)**

30.0	1350	1295	1176	1068	978	896	817	751	705	686
32.5	1299	1246	1121	1010	909	821	738	672	627	599
35.0	1247	1188	1060	944	836	740	661	596	543	514
37.5	1193	1121	993	874	763	662	584	516	464	435
40.0	1124	1056	921	805	691	590	506	437	386	359
42.5	1057	987	852	728	613	514	427	362	321	297
45.0	984	919	781	655	543	444	360	302	267	248
47.5	909	839	708	586	473	373	298	250	219	205
50.0	833	763	638	518	409	313	248	207	180	165
52.5	757	687	564	450	345	259	205	170	146	134
55.0	681	616	498	384	289	214	169	137	116	107
57.5	606	544	429	328	238	176	136	111	94	85
60.0	534	472	370	277	196	142	110	88	74	68
62.5	459	408	314	229	159	115	87	70	60	55
65.0	390	347	264	188	129	92	69	57	49	45
67.5	329	291	219	152	103	74	56	45	40	37
70.0	272	239	178	121	81	58	44	36	32	30
72.5	219	192	140	93	62	45	34	28	27	26
75.0	170	149	108	68	46	33	26	22	21	20
77.5	126	111	78	47	33	25	19	17	16	16
80.0	87	75	52	31	22	16	13	11	11	11
82.5	53	46	31	19	13	9	9	9	8	9
85.0	24	23	14	9	6	5	4	4	5	5
87.5	6	6	4	2	2	1	1	1	1	2
90.0	0	0	0	0	0	0	0	0	0	0

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

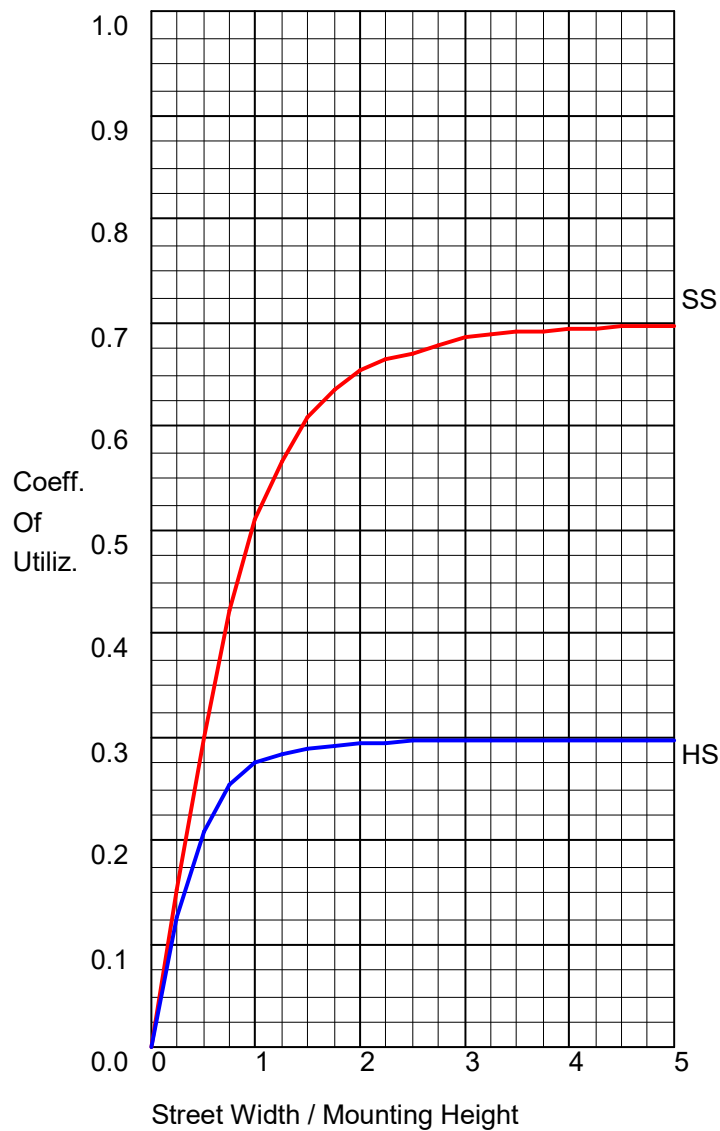
	<b>180</b>
0.0	1505
2.5	1449
5.0	1399
7.5	1338
10.0	1276
12.5	1208
15.0	1152
17.5	1082
20.0	1006
22.5	937
25.0	854
27.5	767
30.0	680
32.5	599
35.0	516
37.5	435
40.0	359
42.5	296
45.0	246
47.5	203
50.0	165
52.5	134
55.0	104
57.5	82
60.0	67
62.5	55
65.0	45

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>37</b>
<b>70.0</b>	<b>30</b>
<b>72.5</b>	<b>26</b>
<b>75.0</b>	<b>20</b>
<b>77.5</b>	<b>16</b>
<b>80.0</b>	<b>11</b>
<b>82.5</b>	<b>8</b>
<b>85.0</b>	<b>5</b>
<b>87.5</b>	<b>2</b>
<b>90.0</b>	<b>0</b>

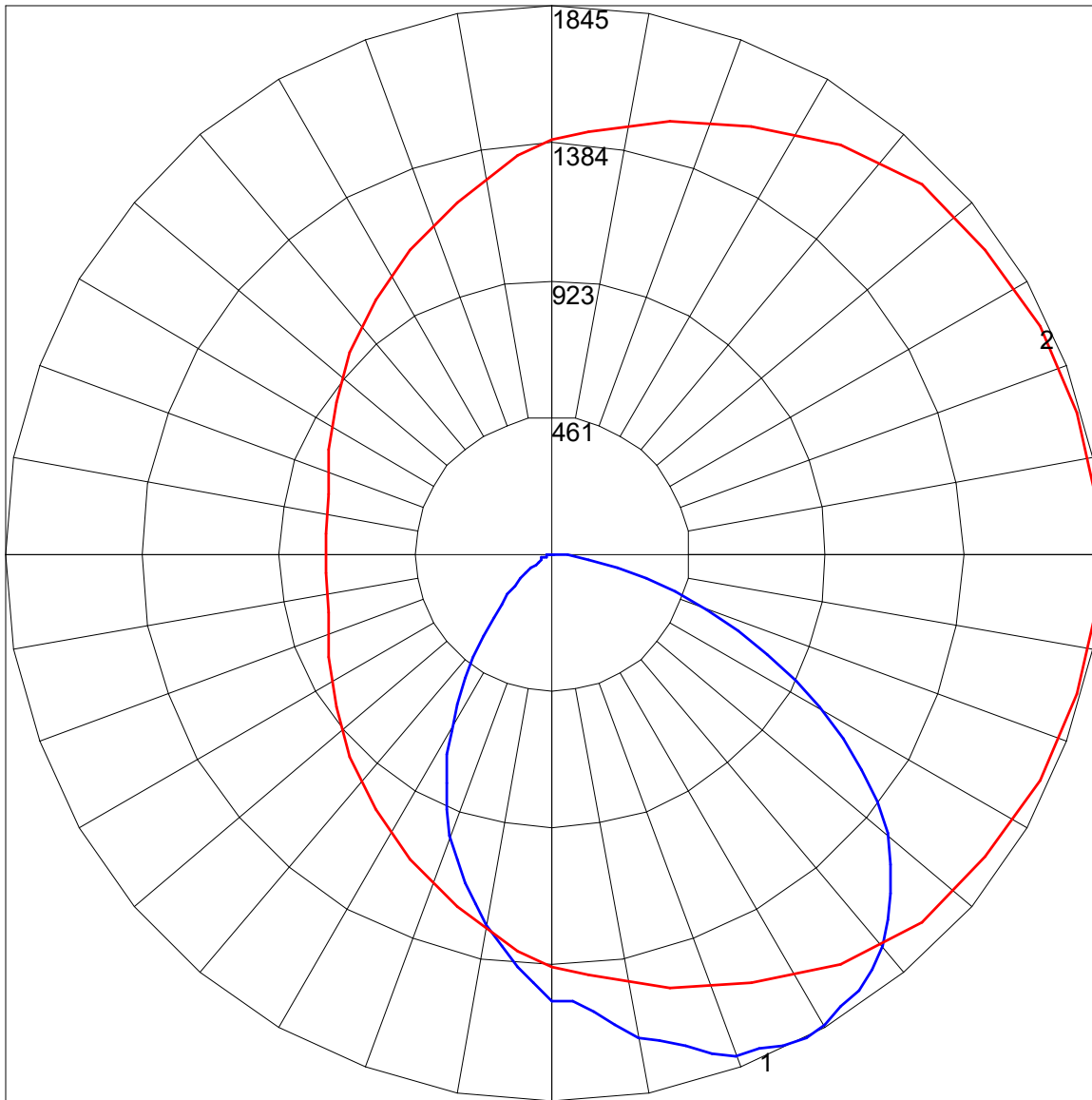
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

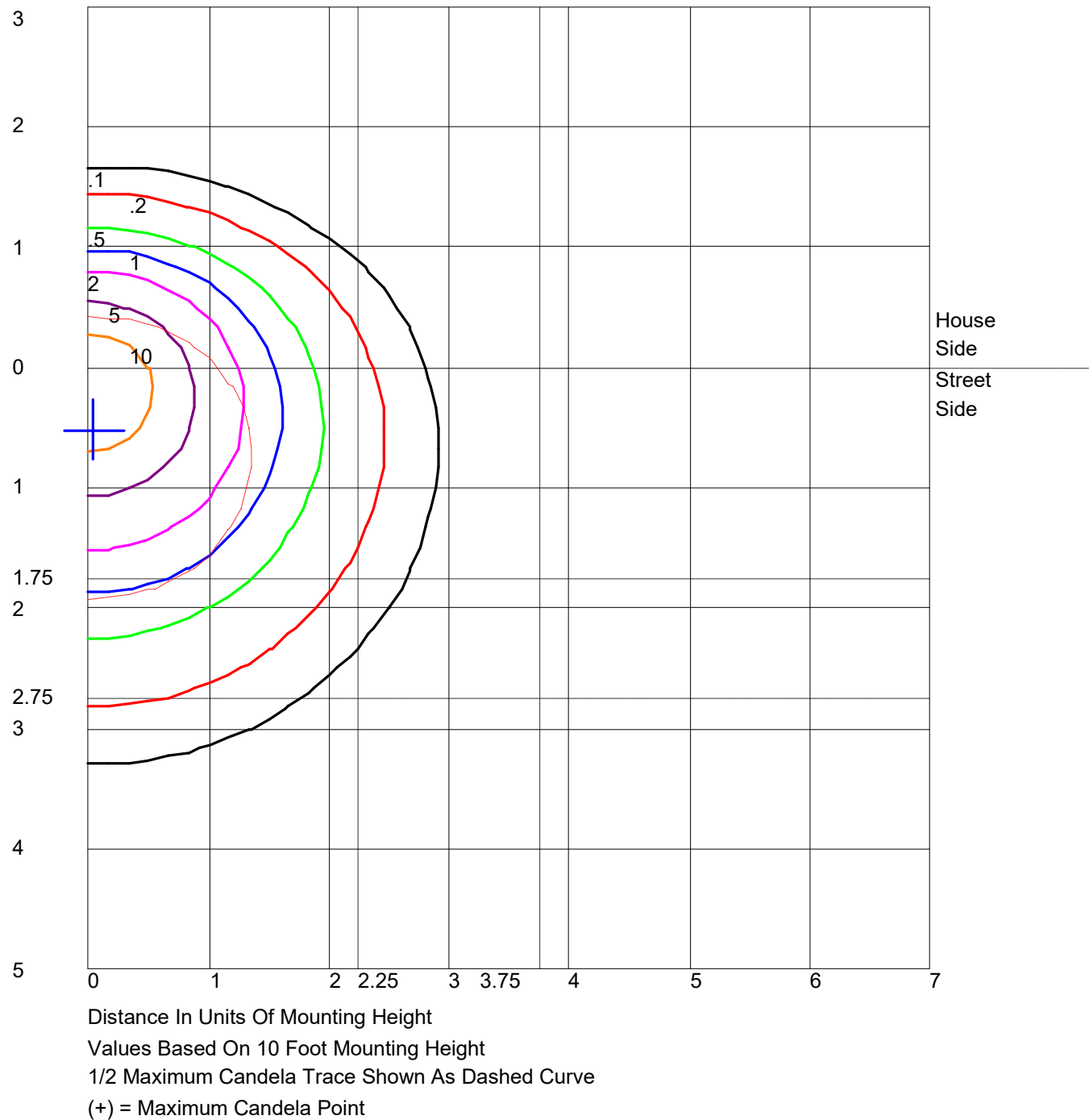
	Lumens	Percent Of Luminaire
Downward Street Side	2735.0	70.1
Downward House Side	1165.7	29.9
Downward Total	3900.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3900.7	100.0

POLAR GRAPH



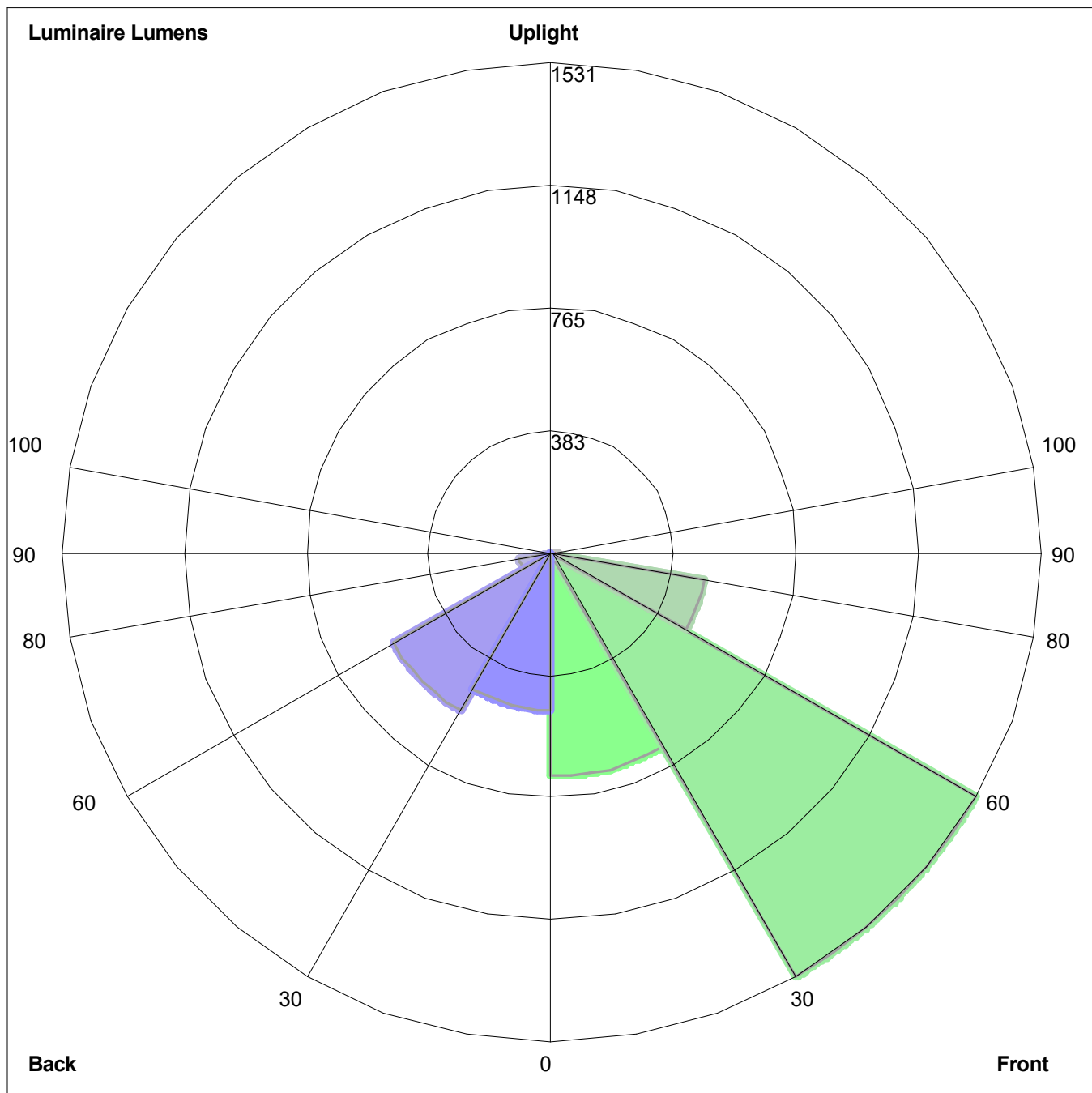
Maximum Candela = 1845 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=700.4, Medium= 1531.0, High=483.9, Very High=19.7  
Back: Low=491.8, Medium=568.2, High=100.1, Very High=5.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1