



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GST-04L-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-04L-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	4131
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1954
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1954
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	149 (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)	741.9	N.A.	18.0
FM - Front-Medium (30-60)	1621.5	N.A.	39.2
FH - Front-High (60-80)	512.6	N.A.	12.4
FVH - Front-Very High (80-90)	20.8	N.A.	0.5
BL - Back-Low (0-30)	520.9	N.A.	12.6
BM - Back-Medium (30-60)	601.8	N.A.	14.6
BH - Back-High (60-80)	105.9	N.A.	2.6
BVH - Back-Very High (80-90)	5.9	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	4131.3	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>	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594
<b>2.5</b>	1601	1602	1604	1608	1613	1617	1621	1624	1624	1620
<b>5.0</b>	1643	1644	1643	1646	1646	1645	1642	1638	1630	1619
<b>7.5</b>	1698	1699	1696	1692	1687	1674	1662	1652	1638	1620
<b>10.0</b>	1756	1756	1753	1746	1737	1711	1686	1667	1647	1621
<b>12.5</b>	1778	1776	1779	1776	1765	1744	1712	1681	1654	1620
<b>15.0</b>	1820	1819	1809	1793	1779	1763	1736	1702	1659	1615
<b>17.5</b>	1877	1877	1868	1844	1811	1778	1755	1720	1662	1609
<b>20.0</b>	1903	1909	1909	1884	1856	1807	1763	1733	1661	1594
<b>22.5</b>	1915	1917	1915	1898	1884	1838	1766	1731	1650	1568
<b>25.0</b>	1942	1940	1930	1901	1887	1858	1779	1711	1629	1538
<b>27.5</b>	1948	1954	1938	1919	1889	1864	1785	1687	1604	1513
<b>30.0</b>	1938	1947	1937	1931	1887	1840	1765	1655	1586	1483
<b>32.5</b>	1922	1922	1926	1910	1864	1813	1736	1634	1548	1426
<b>35.0</b>	1894	1902	1899	1871	1835	1790	1697	1610	1497	1372
<b>37.5</b>	1862	1875	1862	1831	1799	1749	1653	1565	1437	1317
<b>40.0</b>	1818	1833	1812	1790	1753	1689	1608	1509	1376	1253
<b>42.5</b>	1766	1775	1755	1732	1695	1629	1554	1441	1312	1186
<b>45.0</b>	1706	1710	1691	1670	1629	1560	1482	1369	1239	1111
<b>47.5</b>	1636	1638	1620	1597	1554	1485	1404	1296	1164	1030
<b>50.0</b>	1550	1558	1543	1514	1469	1400	1319	1215	1081	950
<b>52.5</b>	1452	1457	1444	1425	1378	1302	1217	1118	999	866
<b>55.0</b>	1336	1347	1337	1319	1277	1207	1118	1027	910	782
<b>57.5</b>	1224	1231	1223	1205	1165	1096	1013	926	820	699
<b>60.0</b>	1103	1103	1104	1086	1048	984	912	827	726	615
<b>62.5</b>	978	977	975	963	922	870	805	729	638	537
<b>65.0</b>	849	849	848	826	798	754	697	631	551	461
<b>67.5</b>	718	718	713	701	671	639	592	537	468	386
<b>70.0</b>	589	585	587	577	554	523	491	446	389	321
<b>72.5</b>	465	460	463	456	439	417	394	354	310	258
<b>75.0</b>	335	343	346	344	334	318	293	272	240	201
<b>77.5</b>	228	236	239	241	237	224	211	195	177	148
<b>80.0</b>	131	131	140	146	149	143	136	128	117	101
<b>82.5</b>	51	51	55	66	71	76	75	73	68	60
<b>85.0</b>	3	3	5	9	16	24	28	29	30	27
<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>	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594
<b>2.5</b>	1621	1617	1610	1600	1589	1577	1566	1553	1542	1537
<b>5.0</b>	1614	1606	1592	1573	1557	1538	1520	1501	1483	1482
<b>7.5</b>	1610	1596	1569	1539	1510	1481	1460	1438	1419	1416
<b>10.0</b>	1608	1588	1545	1501	1460	1423	1391	1368	1354	1350
<b>12.5</b>	1599	1576	1527	1470	1419	1372	1336	1309	1290	1279
<b>15.0</b>	1595	1569	1513	1443	1380	1324	1272	1236	1223	1219
<b>17.5</b>	1584	1554	1489	1407	1343	1273	1218	1173	1153	1148
<b>20.0</b>	1562	1526	1448	1361	1295	1227	1164	1105	1075	1068
<b>22.5</b>	1529	1487	1395	1312	1232	1165	1100	1040	999	989
<b>25.0</b>	1503	1460	1354	1265	1174	1092	1027	969	918	902
<b>27.5</b>	1475	1424	1303	1203	1109	1023	948	883	827	809

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**CANDELA TABULATION - (Cont.)**

30.0	1430	1372	1246	1131	1036	949	866	795	746	726
32.5	1376	1320	1188	1070	963	870	781	712	664	635
35.0	1321	1258	1122	1000	886	783	700	631	575	545
37.5	1264	1188	1052	926	808	701	619	547	491	460
40.0	1191	1118	976	853	732	625	536	462	409	380
42.5	1119	1045	903	771	649	545	452	383	340	315
45.0	1042	973	827	694	575	470	381	320	283	263
47.5	963	889	750	621	500	395	316	265	232	217
50.0	883	808	676	549	433	331	263	220	191	175
52.5	801	727	598	476	365	275	218	180	154	141
55.0	721	652	528	407	306	227	179	145	123	113
57.5	642	576	454	347	252	187	144	117	99	90
60.0	566	499	392	293	208	150	116	93	78	72
62.5	486	432	333	243	169	121	92	74	63	58
65.0	413	367	280	200	136	97	73	60	52	47
67.5	348	308	232	161	109	78	59	48	42	39
70.0	288	253	189	128	86	61	46	38	34	32
72.5	232	204	148	98	65	47	36	30	28	27
75.0	181	157	114	72	49	35	27	23	22	21
77.5	133	117	82	50	35	26	20	18	17	17
80.0	92	79	55	33	23	17	14	12	12	12
82.5	56	49	33	20	14	10	9	9	8	9
85.0	25	24	15	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**

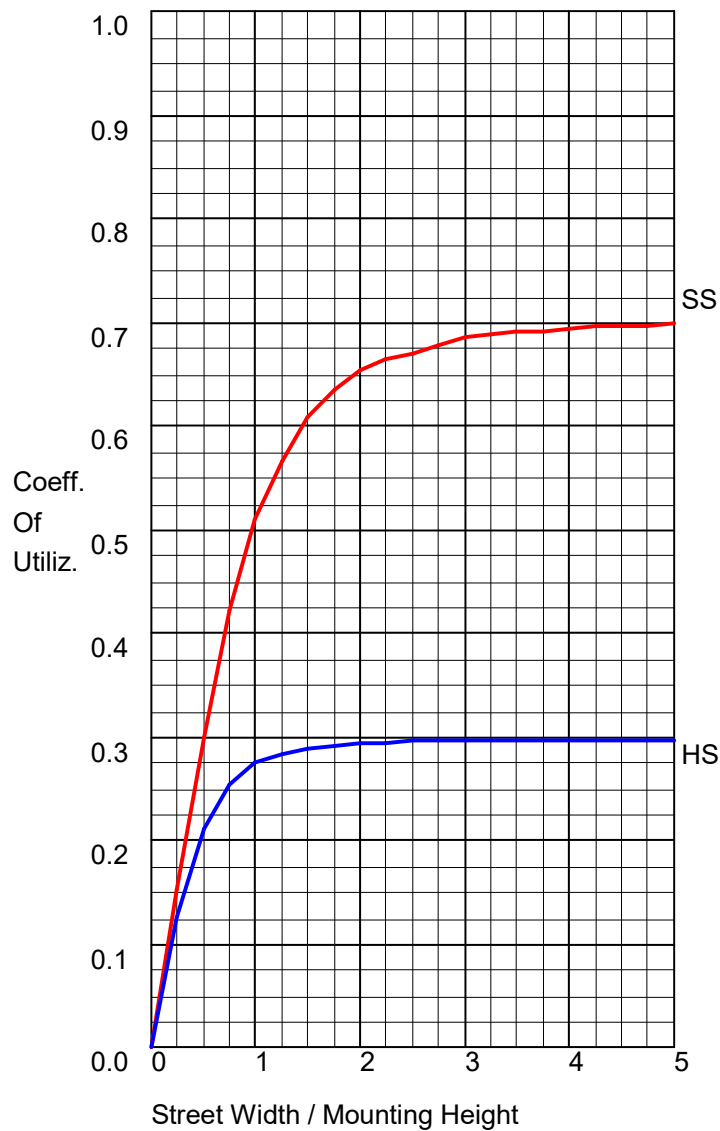
	<b>180</b>
0.0	1594
2.5	1535
5.0	1481
7.5	1417
10.0	1351
12.5	1280
15.0	1220
17.5	1146
20.0	1065
22.5	992
25.0	905
27.5	812
30.0	720
32.5	635
35.0	547
37.5	460
40.0	380
42.5	314
45.0	261
47.5	215
50.0	175
52.5	141
55.0	110
57.5	87
60.0	71
62.5	58
65.0	47

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>39</b>
<b>70.0</b>	<b>32</b>
<b>72.5</b>	<b>27</b>
<b>75.0</b>	<b>21</b>
<b>77.5</b>	<b>17</b>
<b>80.0</b>	<b>12</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>

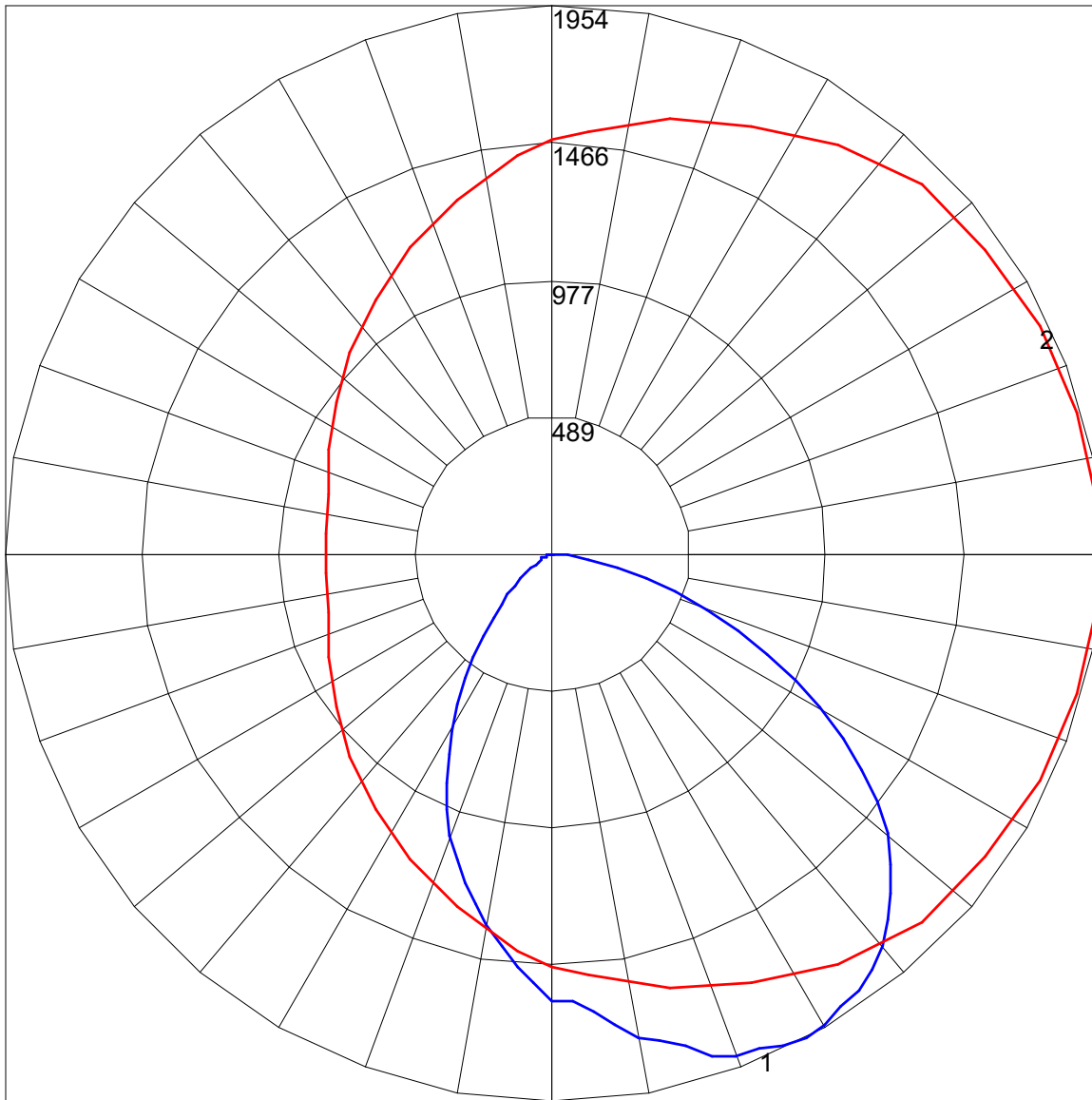
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

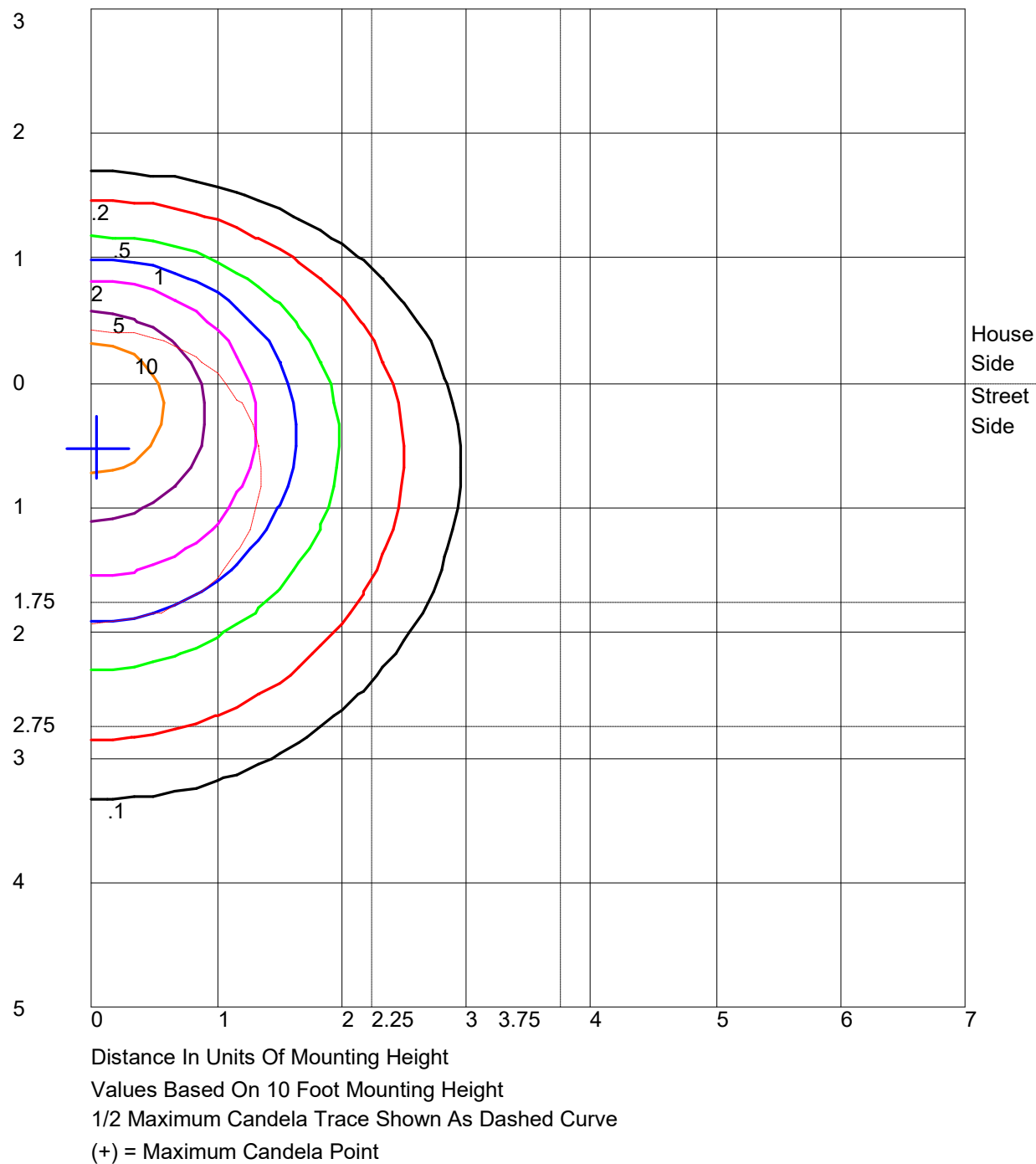
	Lumens	Percent Of Luminaire
Downward Street Side	2896.7	70.1
Downward House Side	1234.5	29.9
Downward Total	4131.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4131.2	100.0

POLAR GRAPH



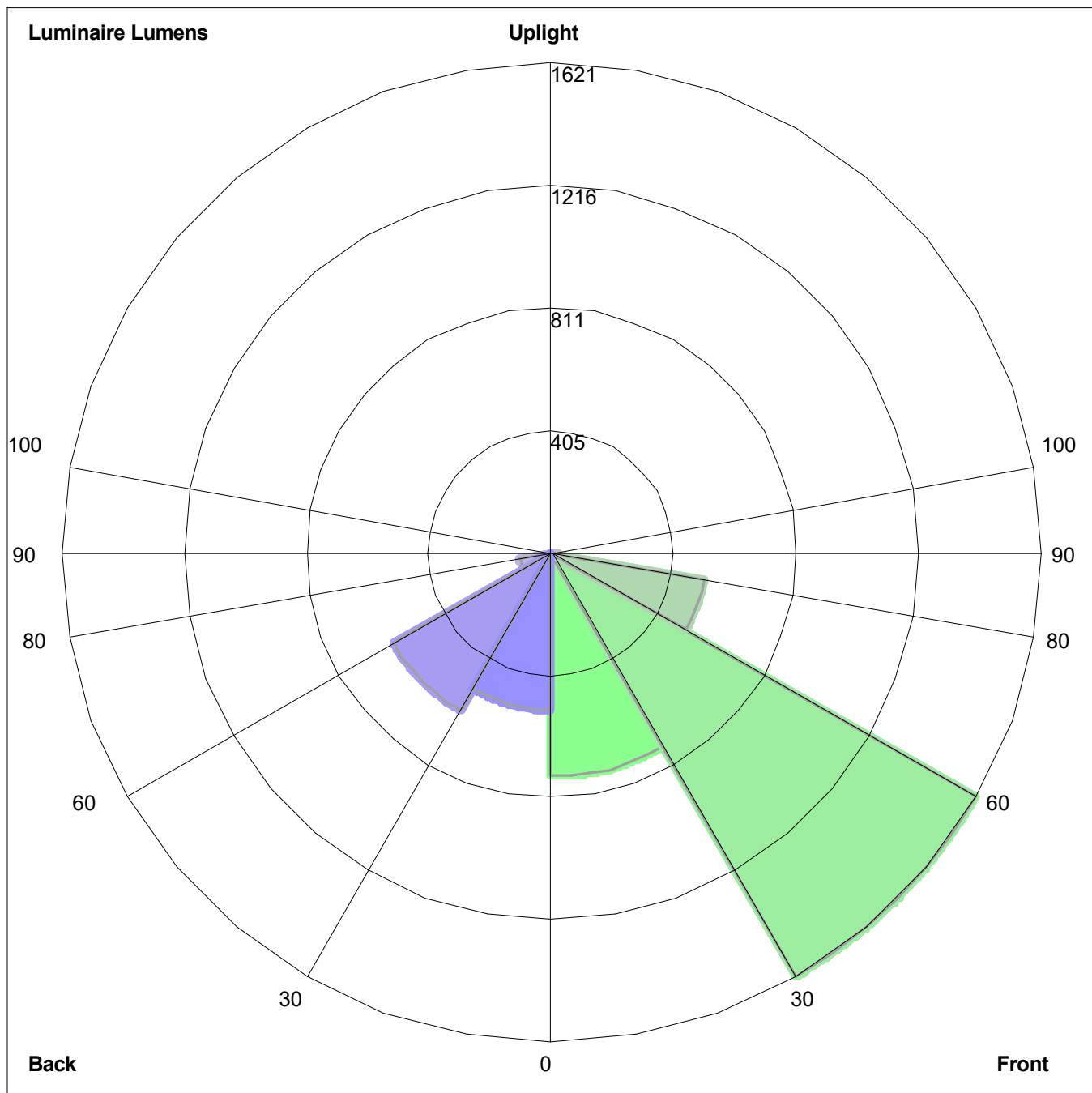
Maximum Candela = 1954 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=741.9, Medium=1621.5, High=512.6, Very High=20.8  
Back: Low=520.9, Medium=601.8, High=105.9, Very High=5.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1