



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSQ-04L-FT-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12867  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/30/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GSQ-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	4220
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1958
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1958
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	163 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	743.1	N.A.	17.6
FM - Front-Medium (30-60)	1647.9	N.A.	39.1
FH - Front-High (60-80)	539.4	N.A.	12.8
FVH - Front-Very High (80-90)	24.0	N.A.	0.6
BL - Back-Low (0-30)	528.8	N.A.	12.5
BM - Back-Medium (30-60)	619.1	N.A.	14.7
BH - Back-High (60-80)	111.6	N.A.	2.6
BVH - Back-Very High (80-90)	5.8	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	4219.7	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

**Vert. Angles      Horizontal Angles**

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	1583	1583	1583	1583	1583	1583	1583	1583	1583	1583
<b>2.5</b>	1582	1583	1589	1593	1598	1605	1609	1611	1610	1611
<b>5.0</b>	1630	1631	1636	1633	1632	1635	1635	1631	1626	1622
<b>7.5</b>	1696	1697	1702	1701	1703	1697	1680	1660	1643	1634
<b>10.0</b>	1737	1737	1746	1757	1760	1759	1737	1694	1656	1632
<b>12.5</b>	1763	1764	1773	1782	1785	1788	1764	1708	1653	1615
<b>15.0</b>	1812	1809	1812	1815	1805	1793	1766	1719	1653	1607
<b>17.5</b>	1857	1855	1857	1856	1829	1786	1757	1720	1662	1600
<b>20.0</b>	1891	1889	1886	1888	1851	1801	1763	1727	1661	1583
<b>22.5</b>	1910	1907	1912	1910	1868	1823	1774	1726	1663	1569
<b>25.0</b>	1934	1931	1936	1919	1875	1836	1781	1717	1655	1547
<b>27.5</b>	1945	1946	1950	1933	1883	1843	1779	1698	1633	1521
<b>30.0</b>	1958	1949	1952	1926	1879	1830	1758	1671	1597	1481
<b>32.5</b>	1952	1947	1945	1908	1870	1815	1734	1643	1548	1434
<b>35.0</b>	1939	1934	1923	1888	1849	1789	1701	1604	1507	1384
<b>37.5</b>	1914	1910	1895	1867	1815	1745	1660	1563	1449	1330
<b>40.0</b>	1875	1868	1859	1823	1777	1698	1611	1510	1389	1265
<b>42.5</b>	1826	1814	1805	1769	1722	1644	1549	1443	1320	1198
<b>45.0</b>	1765	1758	1743	1704	1653	1583	1484	1374	1246	1124
<b>47.5</b>	1691	1681	1670	1634	1581	1509	1412	1304	1173	1047
<b>50.0</b>	1610	1599	1586	1550	1499	1421	1333	1223	1093	967
<b>52.5</b>	1512	1510	1495	1458	1402	1330	1236	1130	1006	887
<b>55.0</b>	1410	1407	1394	1360	1303	1231	1140	1033	918	804
<b>57.5</b>	1298	1298	1285	1251	1198	1126	1040	940	832	719
<b>60.0</b>	1174	1171	1158	1135	1083	1013	937	848	741	637
<b>62.5</b>	1041	1036	1029	1000	958	902	834	750	653	553
<b>65.0</b>	903	900	889	871	840	788	729	655	567	476
<b>67.5</b>	763	761	752	737	710	674	625	561	479	400
<b>70.0</b>	627	626	617	607	586	562	523	470	400	331
<b>72.5</b>	495	488	489	482	468	448	424	378	324	267
<b>75.0</b>	361	366	368	365	357	345	325	295	253	207
<b>77.5</b>	249	250	258	257	254	249	234	213	187	152
<b>80.0</b>	152	152	155	162	159	163	156	144	124	104
<b>82.5</b>	69	70	73	78	83	87	88	83	74	60
<b>85.0</b>	10	10	13	15	23	30	34	35	32	26
<b>87.5</b>	0	0	1	1	1	1	2	3	5	4
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles      Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
<b>0.0</b>	1583	1583	1583	1583	1583	1583	1583	1583	1583	1583
<b>2.5</b>	1611	1611	1600	1592	1583	1571	1561	1549	1538	1534
<b>5.0</b>	1619	1615	1598	1581	1563	1541	1521	1503	1490	1485
<b>7.5</b>	1626	1617	1589	1564	1540	1513	1487	1458	1438	1428
<b>10.0</b>	1618	1603	1567	1538	1508	1468	1434	1405	1381	1371
<b>12.5</b>	1599	1582	1534	1494	1454	1411	1377	1346	1325	1306
<b>15.0</b>	1587	1564	1508	1458	1407	1350	1313	1285	1265	1243
<b>17.5</b>	1578	1551	1488	1422	1360	1300	1255	1221	1182	1156
<b>20.0</b>	1561	1532	1458	1387	1318	1246	1185	1133	1102	1081
<b>22.5</b>	1538	1501	1424	1336	1260	1179	1108	1054	1023	998
<b>25.0</b>	1512	1465	1377	1279	1197	1102	1034	977	943	915
<b>27.5</b>	1474	1426	1326	1222	1130	1026	955	896	858	834

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**CANDELA TABULATION - (Cont.)**

30.0	1435	1382	1274	1164	1057	955	874	815	774	750
32.5	1385	1328	1210	1097	975	877	793	731	687	658
35.0	1329	1270	1145	1023	896	797	713	647	601	571
37.5	1269	1204	1075	945	816	712	631	564	514	488
40.0	1203	1135	1004	868	740	634	551	485	435	412
42.5	1126	1063	934	787	662	557	469	403	364	343
45.0	1050	988	858	708	586	482	395	337	304	285
47.5	976	914	775	634	516	408	331	280	248	234
50.0	896	834	698	563	445	344	275	230	200	187
52.5	815	754	623	486	378	287	226	185	160	147
55.0	735	677	551	421	319	237	183	148	127	117
57.5	657	601	478	360	267	195	148	118	101	93
60.0	579	528	412	307	219	157	118	94	80	74
62.5	503	457	351	256	179	125	93	75	65	60
65.0	427	387	296	212	145	101	75	60	54	51
67.5	360	325	244	174	116	81	59	50	46	44
70.0	297	264	197	138	91	63	47	41	39	38
72.5	239	212	156	107	70	49	38	34	32	32
75.0	185	164	120	77	52	36	29	27	26	26
77.5	136	120	87	54	36	26	21	20	20	20
80.0	93	82	57	35	23	16	15	14	14	14
82.5	56	48	33	20	13	9	9	9	9	9
85.0	23	22	14	8	5	4	4	4	5	5
87.5	4	4	3	2	1	1	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

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

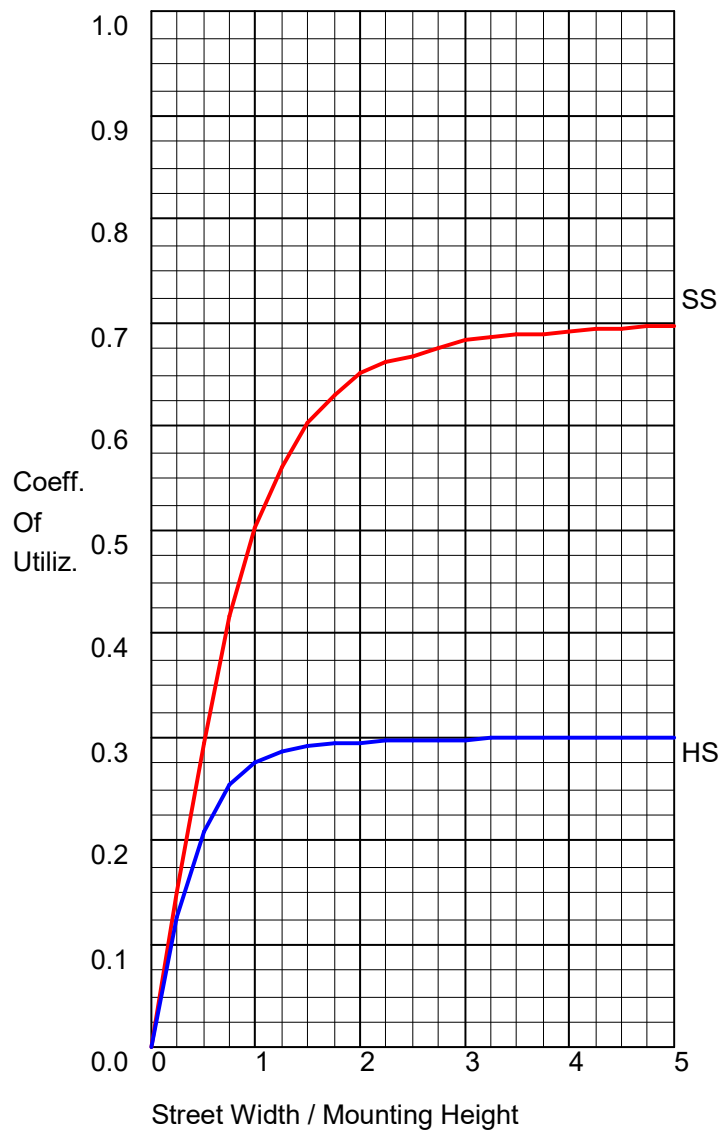
	<b>180</b>
0.0	1583
2.5	1533
5.0	1484
7.5	1427
10.0	1370
12.5	1304
15.0	1240
17.5	1149
20.0	1078
22.5	996
25.0	912
27.5	821
30.0	741
32.5	655
35.0	567
37.5	486
40.0	409
42.5	341
45.0	283
47.5	231
50.0	186
52.5	147
55.0	113
57.5	90
60.0	73
62.5	60
65.0	51

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>44</b>
<b>70.0</b>	<b>38</b>
<b>72.5</b>	<b>32</b>
<b>75.0</b>	<b>26</b>
<b>77.5</b>	<b>20</b>
<b>80.0</b>	<b>14</b>
<b>82.5</b>	<b>9</b>
<b>85.0</b>	<b>5</b>
<b>87.5</b>	<b>1</b>
<b>90.0</b>	<b>0</b>

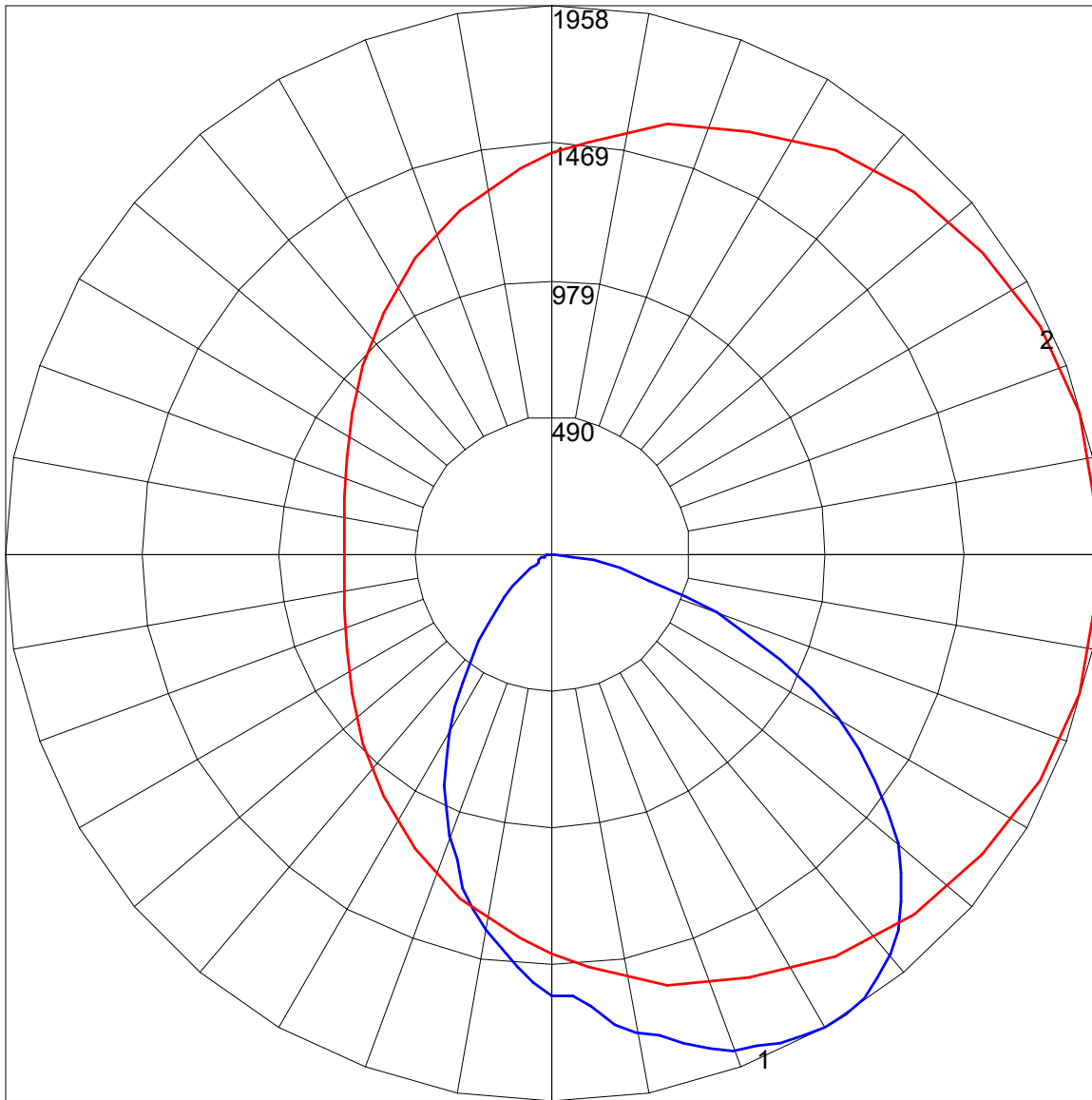
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

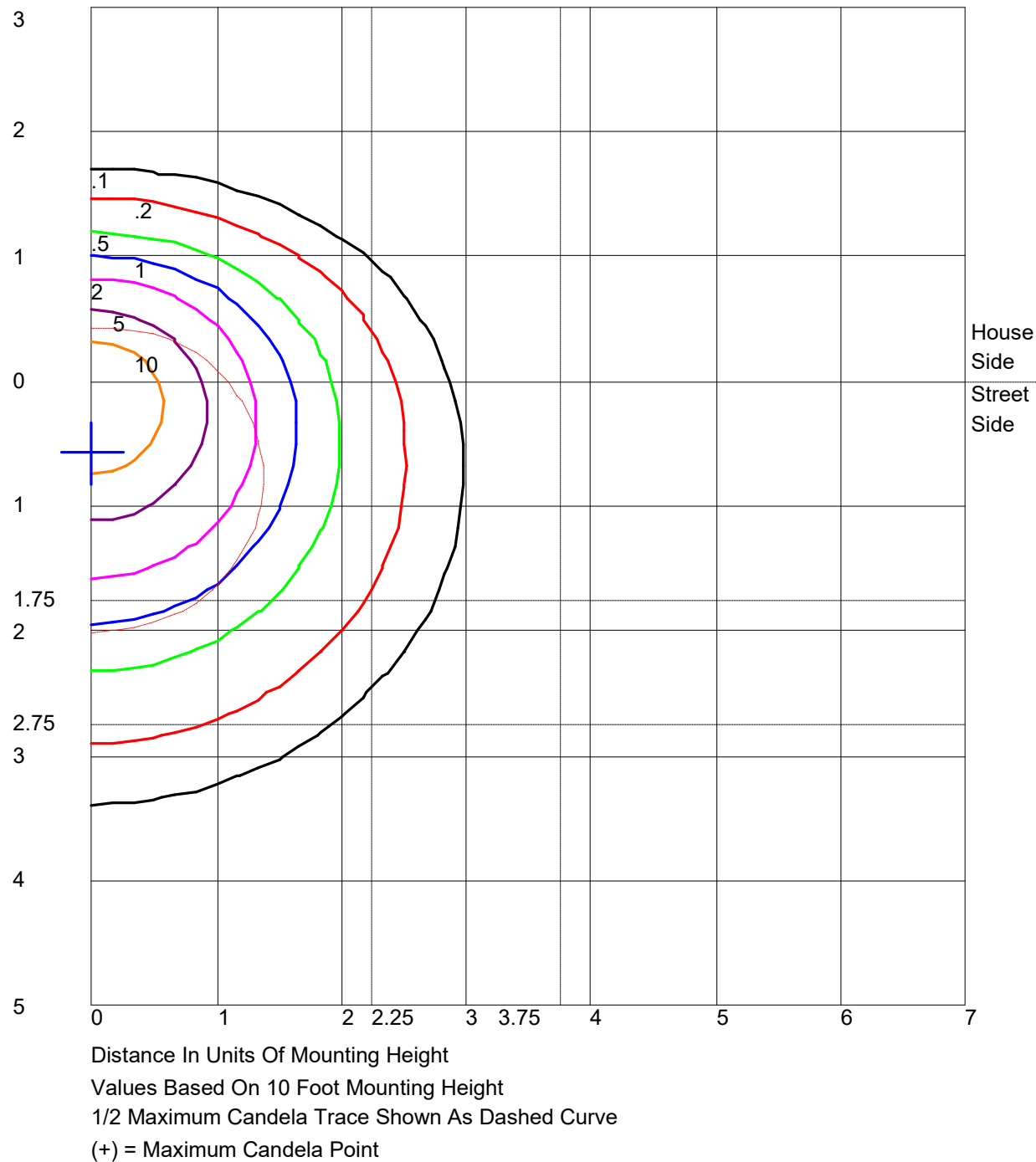
	Lumens	Percent Of Luminaire
Downward Street Side	2954.4	70.0
Downward House Side	1265.4	30.0
Downward Total	4219.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4219.8	100.0

POLAR GRAPH



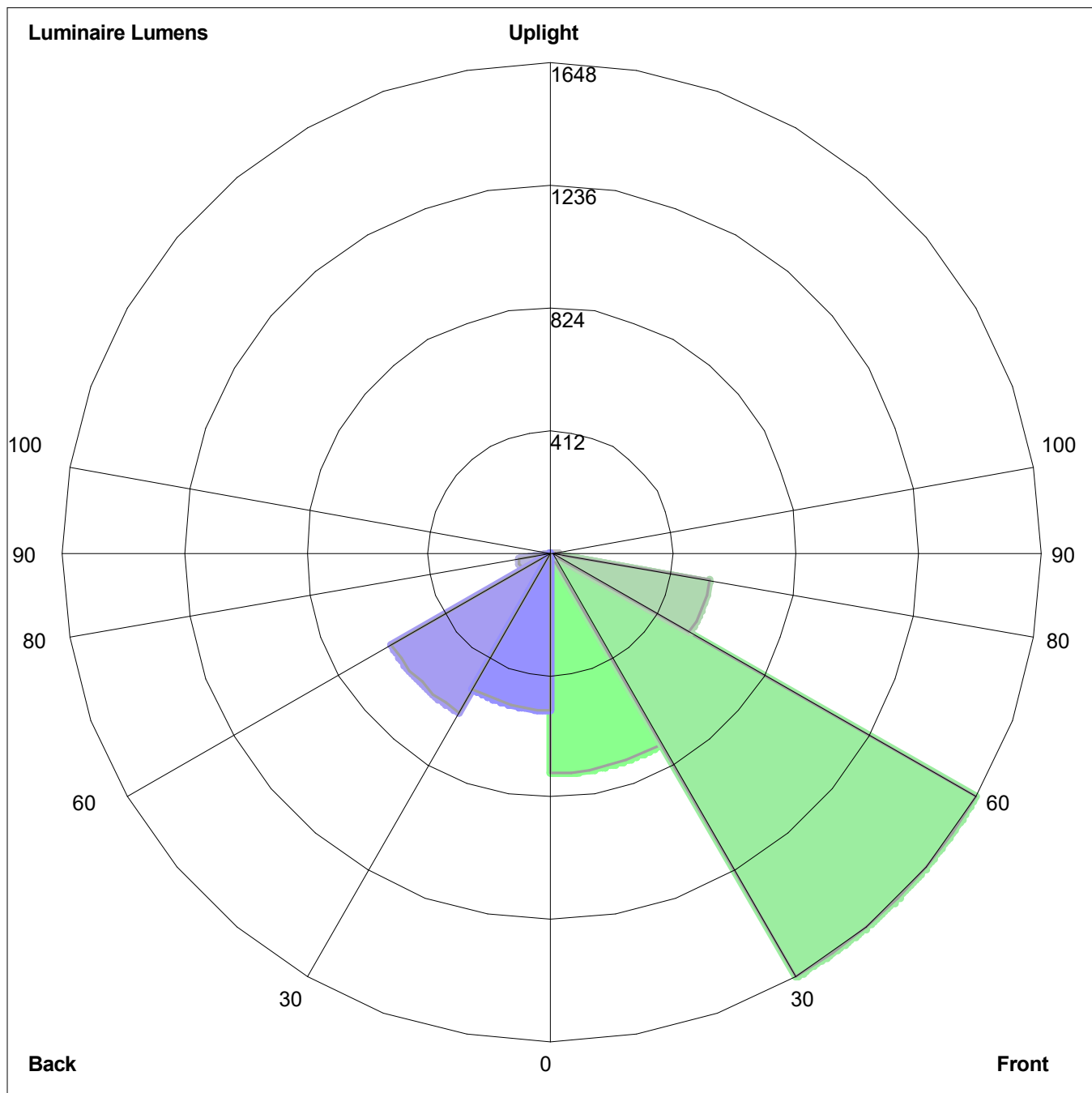
Maximum Candela = 1958 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=743.1, Medium=1647.9, High=539.4, Very High=24.0  
Back: Low=528.8, Medium=619.1, High=111.6, Very High=5.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1