



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-04L-FT-40.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-40
[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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4207
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1952
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1952
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)	740.9	N.A.	17.6
FM - Front-Medium (30-60)	1643.0	N.A.	39.1
FH - Front-High (60-80)	537.8	N.A.	12.8
FVH - Front-Very High (80-90)	24.0	N.A.	0.6
BL - Back-Low (0-30)	527.2	N.A.	12.5
BM - Back-Medium (30-60)	617.3	N.A.	14.7
BH - Back-High (60-80)	111.4	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	4207.4	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578
2.5	1577	1578	1584	1588	1593	1600	1604	1606	1605	1606
5.0	1625	1626	1631	1628	1627	1630	1630	1626	1621	1617
7.5	1691	1692	1697	1696	1698	1692	1675	1655	1638	1629
10.0	1732	1732	1741	1752	1755	1754	1732	1689	1651	1627
12.5	1758	1759	1768	1777	1780	1783	1759	1703	1648	1610
15.0	1807	1804	1807	1810	1800	1788	1761	1714	1648	1602
17.5	1851	1849	1851	1850	1824	1781	1752	1715	1657	1595
20.0	1885	1883	1880	1882	1845	1796	1758	1722	1656	1578
22.5	1904	1901	1906	1904	1862	1818	1769	1721	1658	1564
25.0	1928	1925	1930	1913	1869	1831	1776	1712	1650	1542
27.5	1939	1940	1944	1927	1877	1837	1774	1693	1628	1516
30.0	1952	1943	1946	1920	1873	1825	1753	1666	1592	1477
32.5	1946	1941	1939	1902	1864	1810	1729	1638	1543	1430
35.0	1933	1928	1917	1882	1843	1784	1696	1599	1502	1380
37.5	1908	1904	1889	1861	1810	1740	1655	1558	1445	1326
40.0	1869	1862	1853	1818	1772	1693	1606	1505	1385	1261
42.5	1821	1809	1800	1764	1717	1639	1544	1439	1316	1194
45.0	1760	1753	1738	1699	1648	1578	1480	1370	1242	1121
47.5	1686	1676	1665	1629	1576	1504	1408	1300	1169	1044
50.0	1605	1594	1581	1545	1495	1417	1329	1219	1090	964
52.5	1507	1505	1491	1454	1398	1326	1232	1127	1003	884
55.0	1406	1403	1390	1356	1299	1227	1137	1030	915	802
57.5	1294	1294	1281	1247	1194	1123	1037	937	830	717
60.0	1170	1167	1155	1132	1080	1010	934	845	739	635
62.5	1038	1033	1026	997	955	899	832	748	651	551
65.0	900	897	886	868	837	786	727	653	565	475
67.5	761	759	750	735	708	672	623	559	478	399
70.0	625	624	615	605	584	560	521	469	399	330
72.5	494	487	488	481	467	447	423	377	323	266
75.0	360	365	367	364	356	344	324	294	252	206
77.5	248	249	257	256	253	248	233	212	186	152
80.0	152	152	155	162	159	163	156	144	124	104
82.5	69	70	73	78	83	87	88	83	74	60
85.0	10	10	13	15	23	30	34	35	32	26
87.5	0	0	1	1	1	1	2	3	5	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	90	95	105	115	125	135	145	155	165	175
0.0	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578
2.5	1606	1606	1595	1587	1578	1566	1556	1544	1533	1529
5.0	1614	1610	1593	1576	1558	1536	1516	1499	1486	1481
7.5	1621	1612	1584	1559	1535	1508	1483	1454	1434	1424
10.0	1613	1598	1562	1533	1503	1464	1430	1401	1377	1367
12.5	1594	1577	1529	1490	1450	1407	1373	1342	1321	1302
15.0	1582	1559	1503	1454	1403	1346	1309	1281	1261	1239
17.5	1573	1546	1484	1418	1356	1296	1251	1217	1178	1153
20.0	1556	1527	1454	1383	1314	1242	1181	1130	1099	1078
22.5	1533	1497	1420	1332	1256	1175	1105	1051	1020	995
25.0	1507	1461	1373	1275	1193	1099	1031	974	940	912
27.5	1470	1422	1322	1218	1127	1023	952	893	855	832

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CANDELA TABULATION - (Cont.)

30.0	1431	1378	1270	1161	1054	952	871	813	772	748
32.5	1381	1324	1206	1094	972	874	791	729	685	656
35.0	1325	1266	1142	1020	893	795	711	645	599	569
37.5	1265	1200	1072	942	814	710	629	562	512	487
40.0	1199	1132	1001	865	738	632	549	484	434	411
42.5	1123	1060	931	785	660	555	468	402	363	342
45.0	1047	985	855	706	584	481	394	336	303	284
47.5	973	911	773	632	514	407	330	279	247	233
50.0	893	832	696	561	444	343	274	229	199	186
52.5	813	752	621	485	377	286	225	184	160	147
55.0	733	675	549	420	318	236	182	148	127	117
57.5	655	599	477	359	266	194	148	118	101	93
60.0	577	526	411	306	218	157	118	94	80	74
62.5	501	456	350	255	178	125	93	75	65	60
65.0	426	386	295	211	145	101	75	60	54	51
67.5	359	324	243	173	116	81	59	50	46	44
70.0	296	263	196	138	91	63	47	41	39	38
72.5	238	211	156	107	70	49	38	34	32	32
75.0	184	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

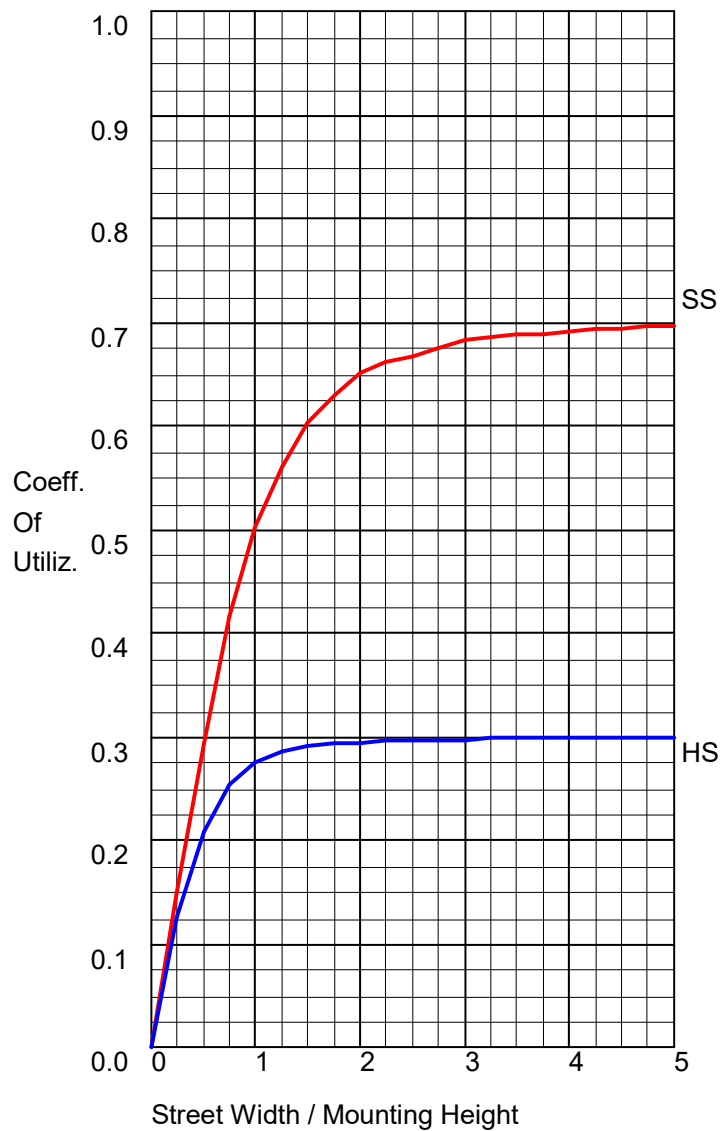
	180
0.0	1578
2.5	1528
5.0	1480
7.5	1423
10.0	1366
12.5	1300
15.0	1236
17.5	1146
20.0	1075
22.5	993
25.0	909
27.5	819
30.0	739
32.5	653
35.0	565
37.5	485
40.0	408
42.5	340
45.0	282
47.5	230
50.0	185
52.5	147
55.0	113
57.5	90
60.0	73
62.5	60
65.0	51

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CANDELA TABULATION - (Cont.)

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

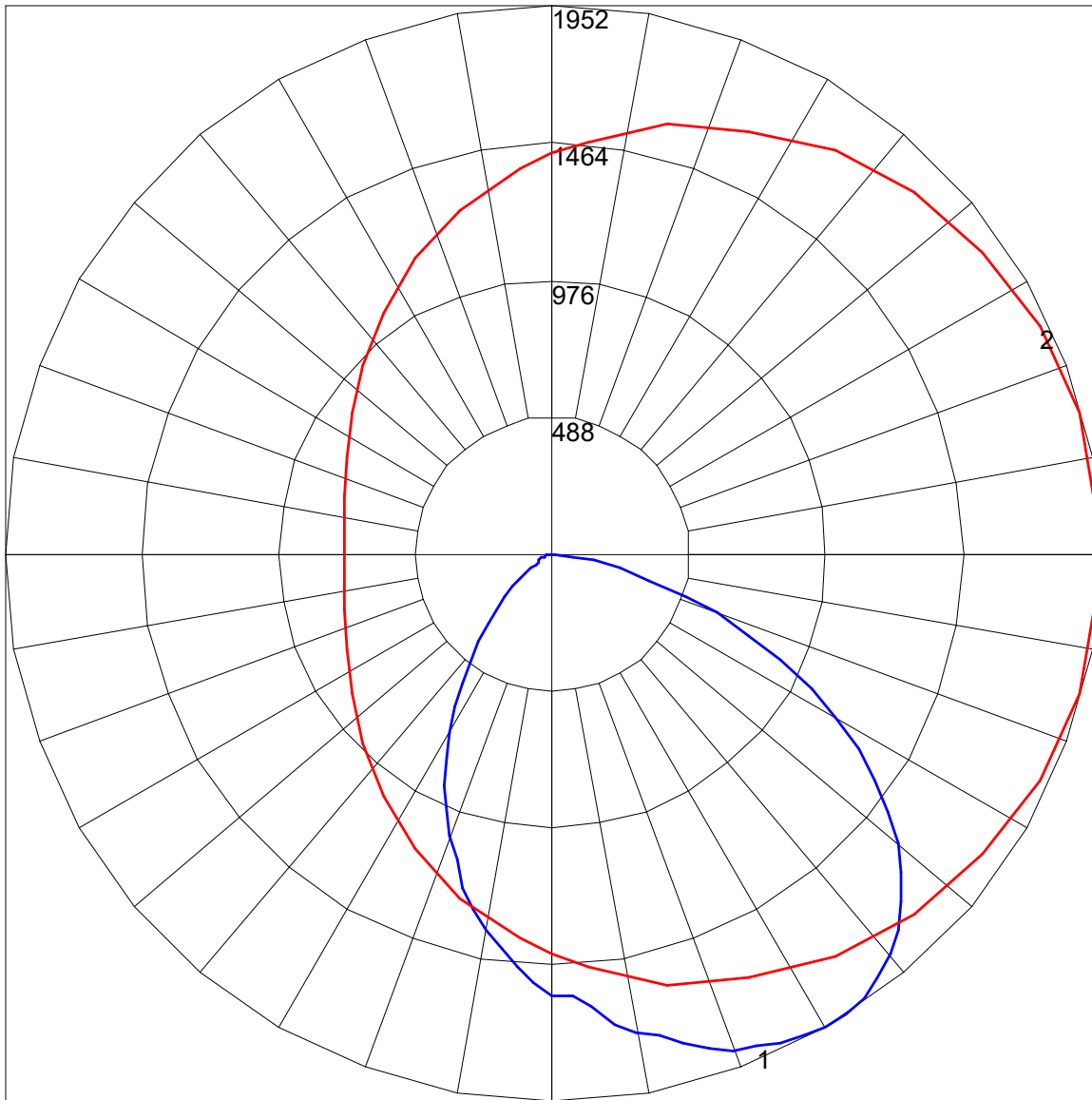
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

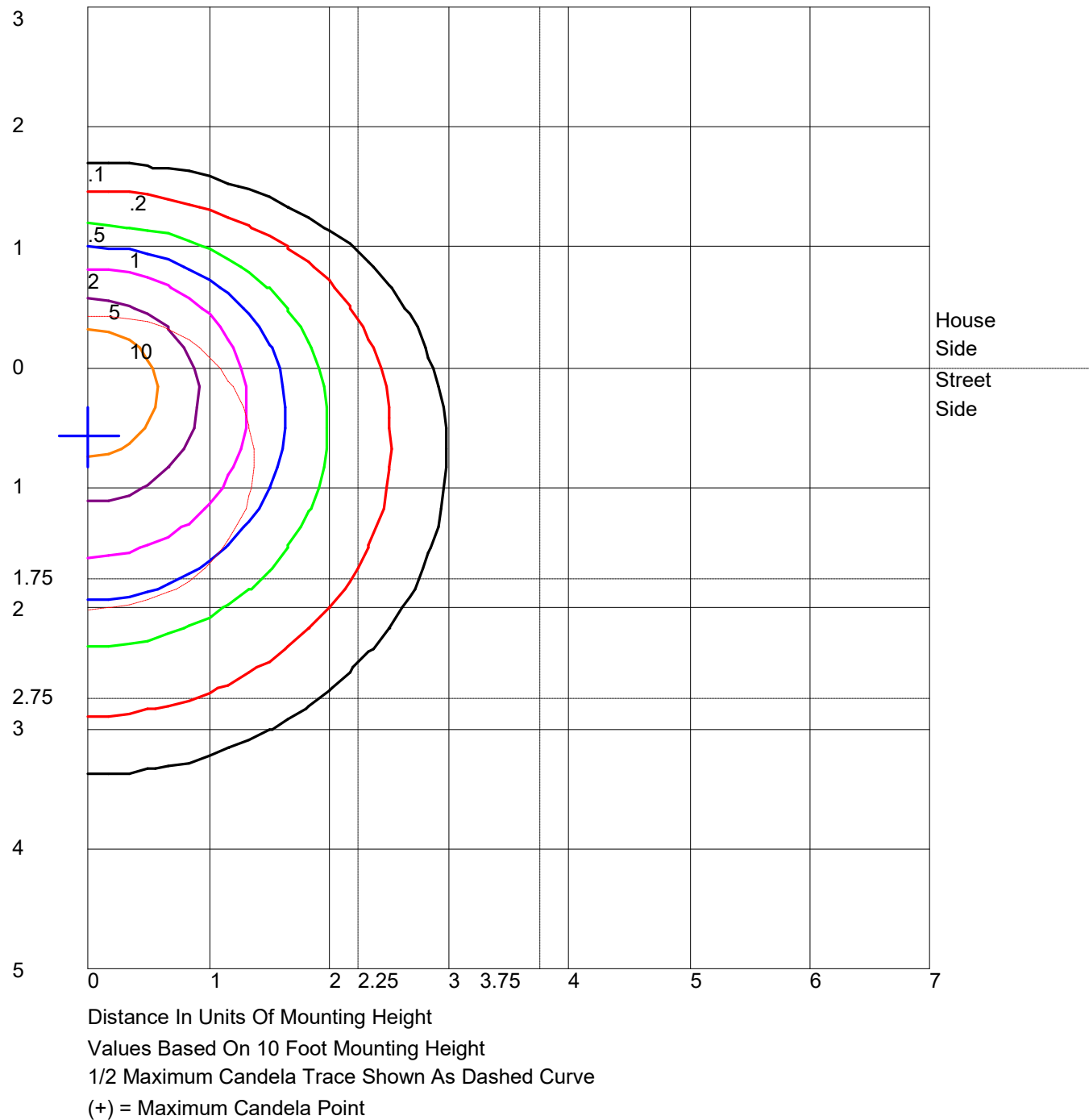
	Lumens	Percent Of Luminaire
Downward Street Side	2945.7	70.0
Downward House Side	1261.7	30.0
Downward Total	4207.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4207.4	100.0

POLAR GRAPH

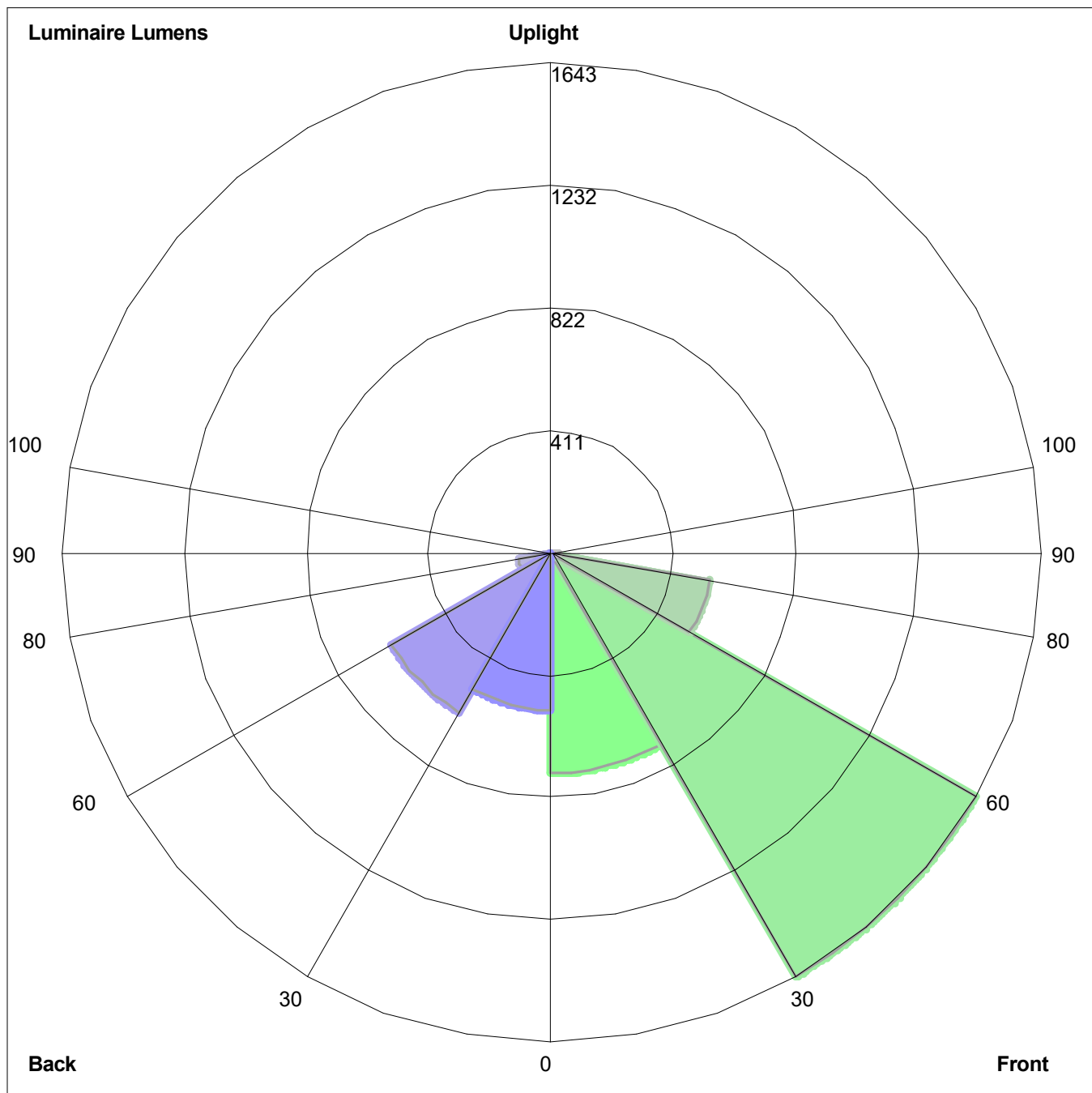


Maximum Candela = 1952 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=740.9, Medium= 1643.0, High=537.8, Very High=24.0
Back: Low=527.2, Medium=617.3, High=111.4, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1