



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-04L-FT-30.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-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	3984
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1849
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1849
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	154 (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)	701.7	N.A.	17.6
FM - Front-Medium (30-60)	1555.9	N.A.	39.0
FH - Front-High (60-80)	509.2	N.A.	12.8
FVH - Front-Very High (80-90)	22.7	N.A.	0.6
BL - Back-Low (0-30)	499.3	N.A.	12.5
BM - Back-Medium (30-60)	584.6	N.A.	14.7
BH - Back-High (60-80)	105.5	N.A.	2.6
BVH - Back-Very High (80-90)	5.5	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	3984.4	N.A.	100.0
BUG Rating	B1-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494
2.5	1493	1494	1500	1504	1509	1515	1519	1521	1520	1521
5.0	1539	1540	1545	1542	1541	1544	1544	1540	1535	1531
7.5	1601	1602	1607	1606	1608	1602	1586	1567	1551	1543
10.0	1640	1640	1649	1659	1662	1661	1640	1599	1563	1541
12.5	1665	1666	1674	1683	1686	1689	1666	1613	1561	1525
15.0	1711	1708	1711	1714	1705	1693	1668	1623	1561	1517
17.5	1753	1751	1753	1752	1727	1687	1659	1624	1569	1510
20.0	1785	1783	1780	1782	1747	1701	1665	1631	1568	1494
22.5	1803	1800	1805	1803	1763	1722	1675	1630	1570	1481
25.0	1826	1823	1828	1812	1770	1734	1682	1621	1563	1460
27.5	1836	1837	1841	1825	1778	1740	1680	1603	1542	1436
30.0	1849	1840	1843	1818	1774	1728	1660	1578	1508	1399
32.5	1843	1838	1836	1801	1765	1714	1637	1551	1461	1354
35.0	1831	1826	1815	1782	1745	1689	1606	1514	1422	1307
37.5	1807	1803	1789	1762	1714	1648	1567	1475	1368	1256
40.0	1770	1763	1755	1722	1678	1603	1521	1425	1312	1194
42.5	1724	1713	1705	1671	1626	1552	1462	1363	1246	1131
45.0	1667	1660	1646	1609	1561	1494	1402	1297	1176	1062
47.5	1597	1587	1577	1543	1492	1424	1333	1231	1107	989
50.0	1520	1510	1497	1463	1416	1342	1259	1154	1032	913
52.5	1427	1425	1412	1377	1324	1256	1167	1067	950	837
55.0	1331	1329	1316	1284	1230	1162	1077	975	867	759
57.5	1225	1225	1213	1181	1131	1063	982	887	786	679
60.0	1108	1105	1094	1072	1023	956	884	800	700	601
62.5	983	978	972	944	904	851	788	708	616	522
65.0	852	849	839	822	793	744	688	618	535	450
67.5	721	719	710	696	670	636	590	529	453	378
70.0	592	591	582	573	553	530	493	444	378	313
72.5	468	461	462	456	442	423	401	357	306	252
75.0	341	346	348	345	337	326	307	278	239	195
77.5	235	236	243	242	240	235	221	201	176	144
80.0	144	144	147	153	151	154	148	136	117	98
82.5	65	66	69	74	79	82	83	79	70	57
85.0	9	9	12	14	22	28	32	33	30	25
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	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494
2.5	1521	1521	1510	1503	1494	1483	1474	1462	1452	1448
5.0	1528	1525	1509	1492	1475	1455	1436	1420	1407	1403
7.5	1535	1527	1500	1476	1454	1428	1404	1377	1358	1349
10.0	1528	1513	1479	1452	1423	1386	1354	1327	1304	1295
12.5	1510	1493	1448	1411	1373	1332	1300	1271	1251	1233
15.0	1498	1476	1423	1377	1329	1275	1240	1213	1194	1173
17.5	1490	1464	1405	1343	1284	1227	1185	1152	1116	1092
20.0	1474	1446	1377	1310	1244	1176	1118	1070	1041	1021
22.5	1452	1418	1345	1261	1189	1113	1046	995	966	942
25.0	1427	1384	1300	1207	1130	1041	976	922	890	864
27.5	1392	1347	1252	1153	1067	969	902	846	810	788

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CANDELA TABULATION - (Cont.)

30.0	1355	1305	1203	1099	998	902	825	770	731	708
32.5	1308	1254	1142	1036	920	828	749	690	649	621
35.0	1255	1199	1081	966	846	753	673	611	567	539
37.5	1198	1136	1015	892	771	672	596	532	485	461
40.0	1135	1072	948	819	699	599	520	458	411	389
42.5	1063	1004	882	743	625	526	443	381	344	324
45.0	992	933	810	669	553	456	373	318	287	269
47.5	921	863	732	599	487	385	313	264	234	221
50.0	846	788	659	531	420	325	259	217	188	176
52.5	770	712	588	459	357	271	213	174	152	139
55.0	694	639	520	398	301	223	172	140	120	111
57.5	620	567	452	340	252	184	140	112	96	88
60.0	546	498	389	290	206	149	112	89	76	70
62.5	474	432	331	241	169	118	88	71	62	57
65.0	403	366	279	200	137	96	71	57	51	48
67.5	340	307	230	164	110	77	56	47	44	42
70.0	280	249	186	131	86	60	45	39	37	36
72.5	225	200	148	101	66	46	36	32	30	30
75.0	174	155	114	73	49	34	27	26	25	25
77.5	129	114	82	51	34	25	20	19	19	19
80.0	88	78	54	33	22	15	14	13	13	13
82.5	53	45	31	19	12	9	9	9	9	9
85.0	22	21	13	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

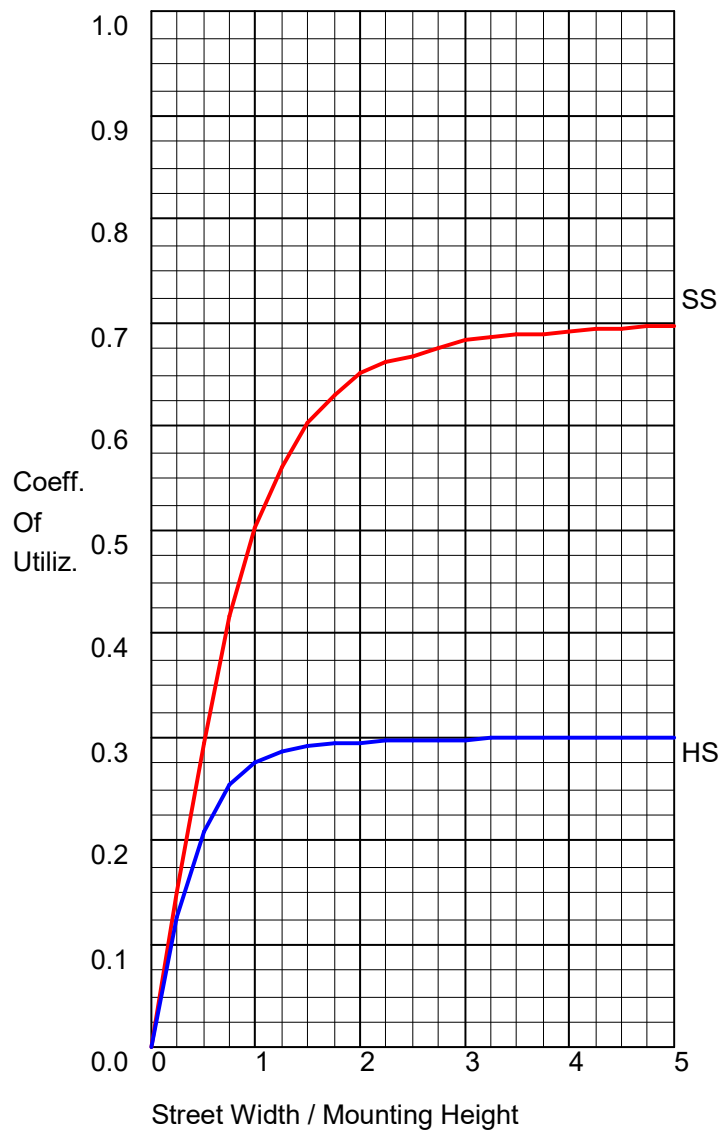
	180
0.0	1494
2.5	1447
5.0	1402
7.5	1348
10.0	1294
12.5	1231
15.0	1170
17.5	1085
20.0	1018
22.5	940
25.0	861
27.5	776
30.0	700
32.5	618
35.0	535
37.5	459
40.0	386
42.5	322
45.0	267
47.5	218
50.0	175
52.5	139
55.0	107
57.5	85
60.0	69
62.5	57
65.0	48

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CANDELA TABULATION - (Cont.)

67.5	42
70.0	36
72.5	30
75.0	25
77.5	19
80.0	13
82.5	9
85.0	5
87.5	1
90.0	0

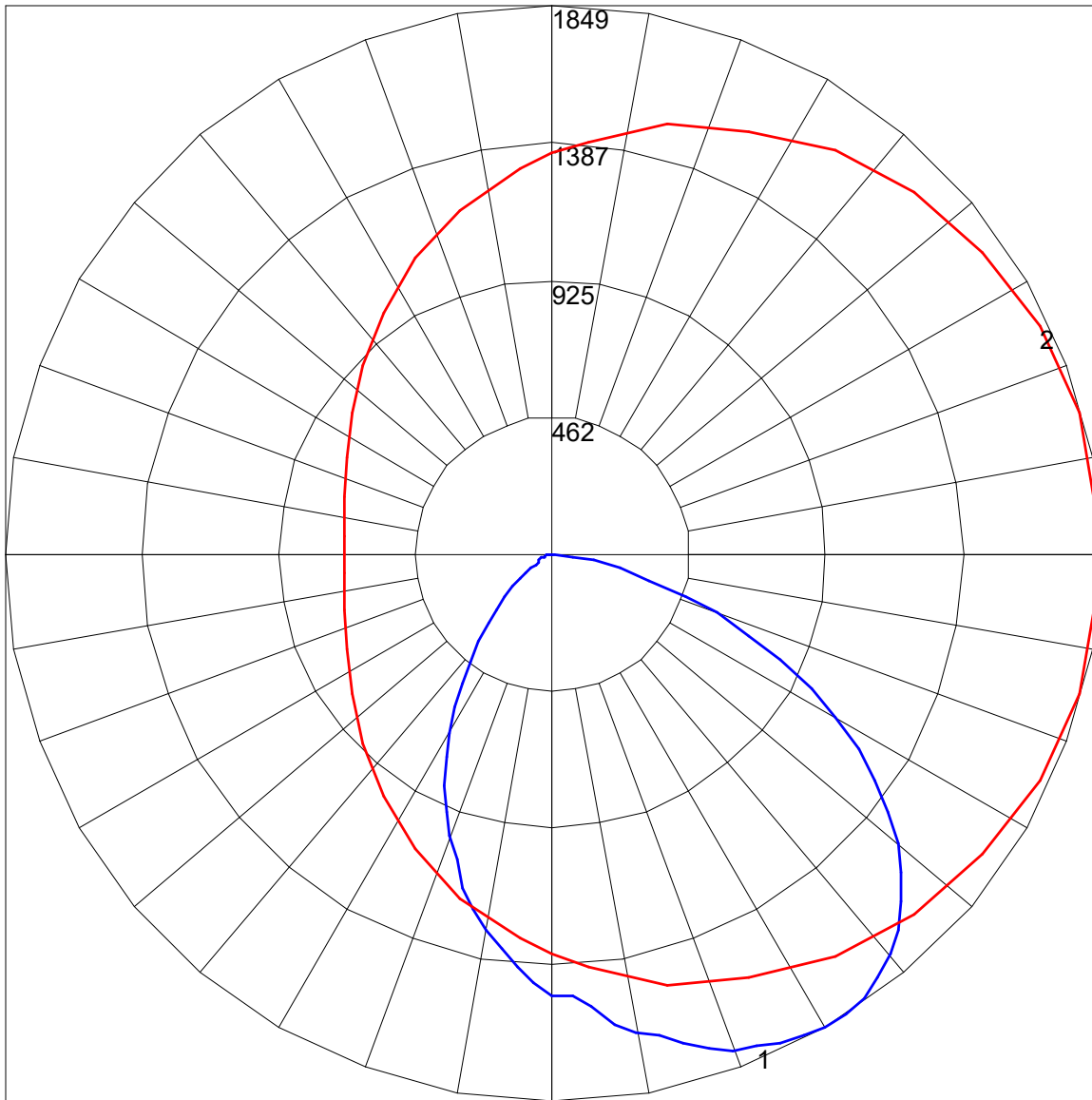
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

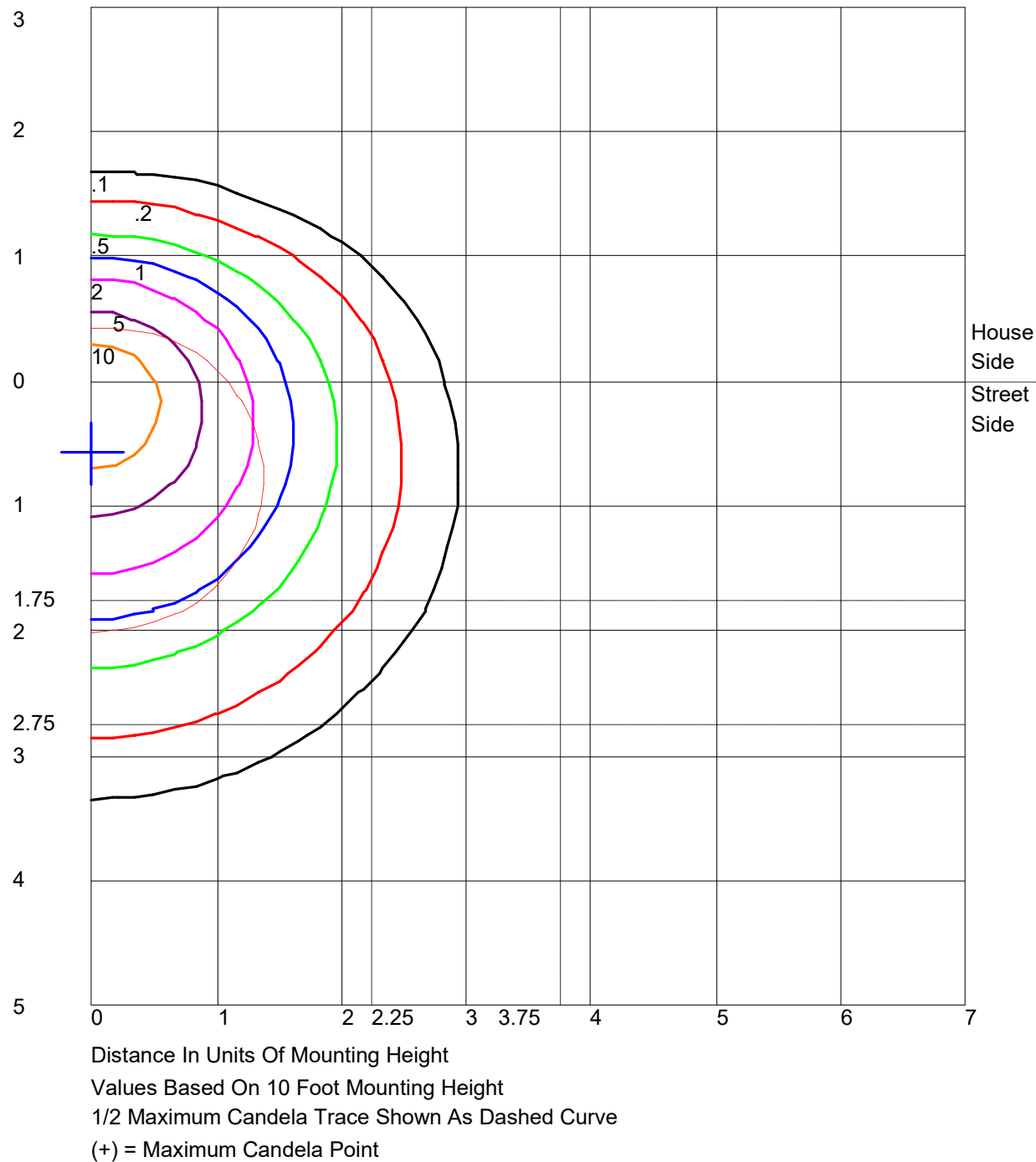
	Lumens	Percent Of Luminaire
Downward Street Side	2789.4	70.0
Downward House Side	1194.9	30.0
Downward Total	3984.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3984.3	100.0

POLAR GRAPH

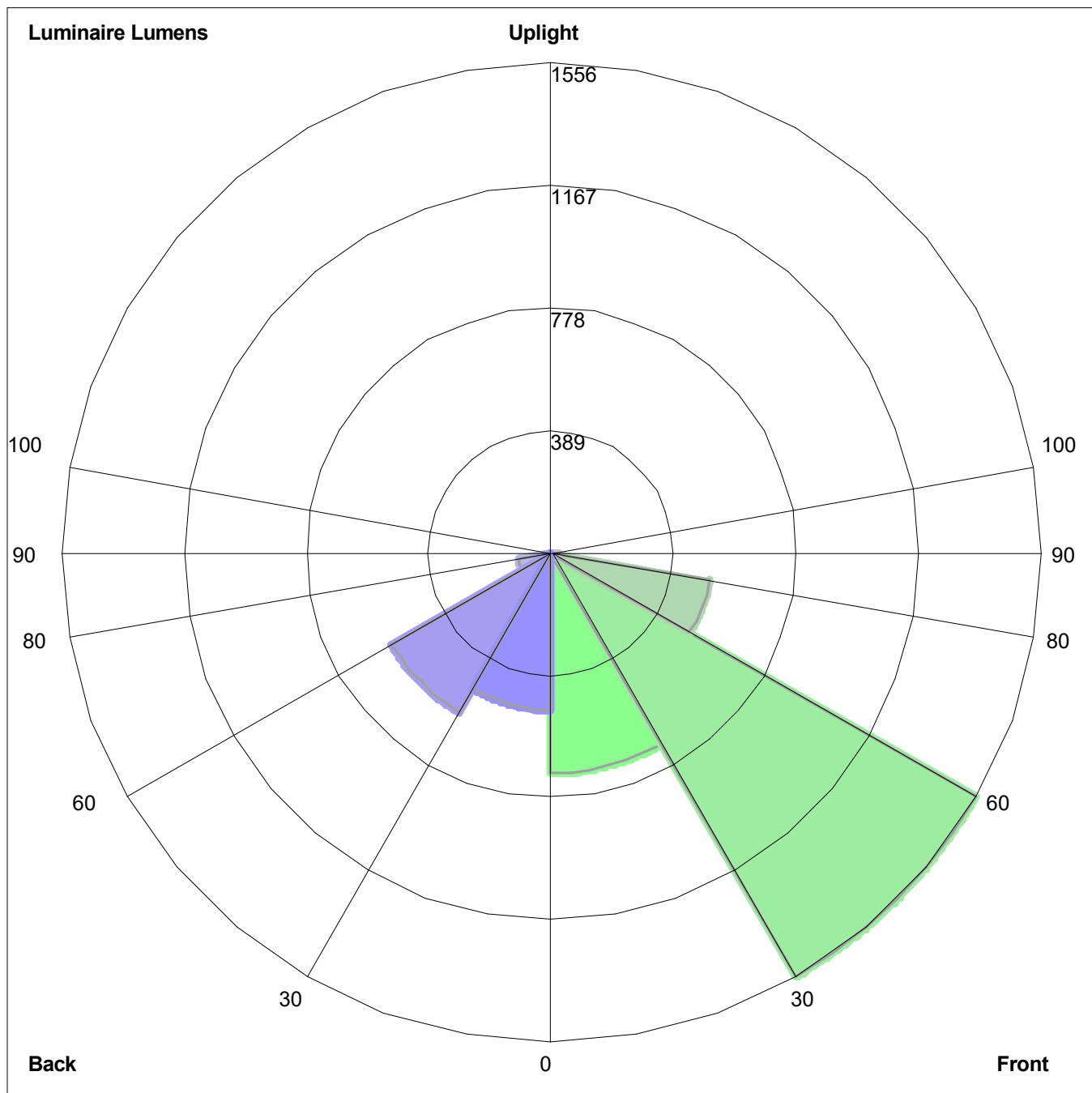


Maximum Candela = 1849 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=701.7, Medium=1555.9, High=509.2, Very High=22.7
Back: Low=499.3, Medium=584.6, High=105.5, Very High=5.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1