



IES ROAD REPORT
PHOTOMETRIC FILENAME : GST-04L-FT-40.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-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	4119
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	1948
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1948
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)	739.6	N.A.	18.0
FM - Front-Medium (30-60)	1616.6	N.A.	39.2
FH - Front-High (60-80)	511.0	N.A.	12.4
FVH - Front-Very High (80-90)	20.8	N.A.	0.5
BL - Back-Low (0-30)	519.3	N.A.	12.6
BM - Back-Medium (30-60)	600.0	N.A.	14.6
BH - Back-High (60-80)	105.7	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	4118.9	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	1589	1589	1589	1589	1589	1589	1589	1589	1589	1589
2.5	1596	1597	1599	1603	1608	1612	1616	1619	1619	1615
5.0	1638	1639	1638	1641	1641	1640	1637	1633	1625	1614
7.5	1693	1694	1691	1687	1682	1669	1657	1647	1633	1615
10.0	1751	1751	1748	1741	1732	1706	1681	1662	1642	1616
12.5	1773	1771	1774	1771	1760	1739	1707	1676	1649	1615
15.0	1815	1814	1804	1788	1774	1758	1731	1697	1654	1610
17.5	1871	1871	1862	1838	1806	1773	1750	1715	1657	1604
20.0	1897	1903	1903	1878	1850	1802	1758	1728	1656	1589
22.5	1909	1911	1909	1892	1878	1833	1761	1726	1645	1563
25.0	1936	1934	1924	1895	1881	1852	1774	1706	1624	1533
27.5	1942	1948	1932	1913	1883	1858	1780	1682	1599	1508
30.0	1932	1941	1931	1925	1881	1834	1760	1650	1581	1479
32.5	1916	1916	1920	1904	1858	1808	1731	1629	1543	1422
35.0	1888	1896	1893	1865	1830	1785	1692	1605	1493	1368
37.5	1856	1869	1856	1826	1794	1744	1648	1560	1433	1313
40.0	1813	1828	1807	1785	1748	1684	1603	1504	1372	1249
42.5	1761	1770	1750	1727	1690	1624	1549	1437	1308	1182
45.0	1701	1705	1686	1665	1624	1555	1478	1365	1235	1108
47.5	1631	1633	1615	1592	1549	1481	1400	1292	1161	1027
50.0	1545	1553	1538	1509	1465	1396	1315	1211	1078	947
52.5	1448	1453	1440	1421	1374	1298	1213	1115	996	863
55.0	1332	1343	1333	1315	1273	1203	1115	1024	907	780
57.5	1220	1227	1219	1201	1162	1093	1010	923	818	697
60.0	1100	1100	1101	1083	1045	981	909	825	724	613
62.5	975	974	972	960	919	867	803	727	636	535
65.0	846	846	845	824	796	752	695	629	549	460
67.5	716	716	711	699	669	637	590	535	467	385
70.0	587	583	585	575	552	521	490	445	388	320
72.5	464	459	462	455	438	416	393	353	309	257
75.0	334	342	345	343	333	317	292	271	239	200
77.5	227	235	238	240	236	223	210	194	176	148
80.0	131	131	140	146	149	143	136	128	117	101
82.5	51	51	55	66	71	76	75	73	68	60
85.0	3	3	5	9	16	24	28	29	30	27
87.5	0	0	1	1	1	1	2	3	5	5
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	1589	1589	1589	1589	1589	1589	1589	1589	1589	1589
2.5	1616	1612	1605	1595	1584	1572	1561	1548	1537	1532
5.0	1609	1601	1587	1568	1552	1533	1515	1497	1479	1478
7.5	1605	1591	1564	1534	1505	1477	1456	1434	1415	1412
10.0	1603	1583	1540	1497	1456	1419	1387	1364	1350	1346
12.5	1594	1571	1522	1466	1415	1368	1332	1305	1286	1275
15.0	1590	1564	1508	1439	1376	1320	1268	1232	1219	1215
17.5	1579	1549	1485	1403	1339	1269	1214	1169	1150	1145
20.0	1557	1521	1444	1357	1291	1223	1161	1102	1072	1065
22.5	1524	1483	1391	1308	1228	1162	1097	1037	996	986
25.0	1499	1456	1350	1261	1170	1089	1024	966	915	899
27.5	1471	1420	1299	1199	1106	1020	945	880	825	807

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CANDELA TABULATION - (Cont.)

30.0	1426	1368	1242	1128	1033	946	863	793	744	724
32.5	1372	1316	1184	1067	960	867	779	710	662	633
35.0	1317	1254	1119	997	883	781	698	629	573	543
37.5	1260	1184	1049	923	806	699	617	545	490	459
40.0	1187	1115	973	850	730	623	534	461	408	379
42.5	1116	1042	900	769	647	543	451	382	339	314
45.0	1039	970	825	692	573	469	380	319	282	262
47.5	960	886	748	619	499	394	315	264	231	216
50.0	880	806	674	547	432	330	262	219	190	174
52.5	799	725	596	475	364	274	217	179	154	141
55.0	719	650	526	406	305	226	178	145	123	113
57.5	640	574	453	346	251	186	144	117	99	90
60.0	564	498	391	292	207	150	116	93	78	72
62.5	485	431	332	242	168	121	92	74	63	58
65.0	412	366	279	199	136	97	73	60	52	47
67.5	347	307	231	161	109	78	59	48	42	39
70.0	287	252	188	128	86	61	46	38	34	32
72.5	231	203	148	98	65	47	36	30	28	27
75.0	180	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

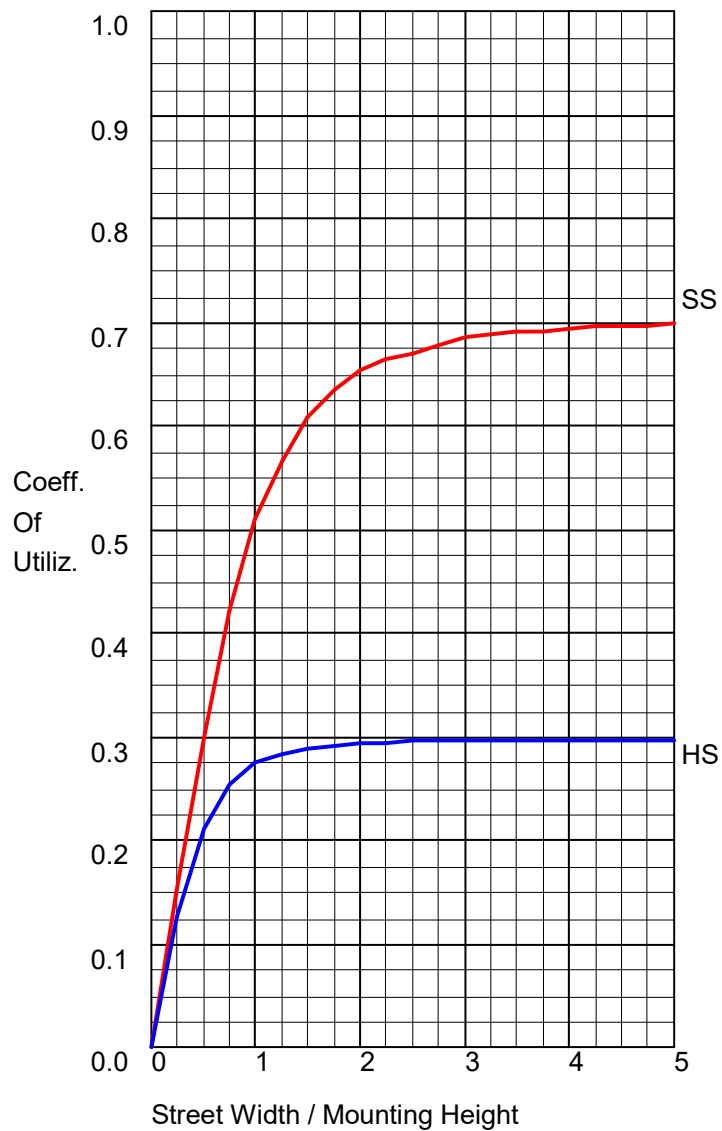
	180
0.0	1589
2.5	1530
5.0	1477
7.5	1413
10.0	1347
12.5	1276
15.0	1216
17.5	1143
20.0	1062
22.5	989
25.0	902
27.5	810
30.0	718
32.5	633
35.0	545
37.5	459
40.0	379
42.5	313
45.0	260
47.5	214
50.0	174
52.5	141
55.0	110
57.5	87
60.0	71
62.5	58
65.0	47

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CANDELA TABULATION - (Cont.)

67.5	39
70.0	32
72.5	27
75.0	21
77.5	17
80.0	12
82.5	8
85.0	5
87.5	2
90.0	0

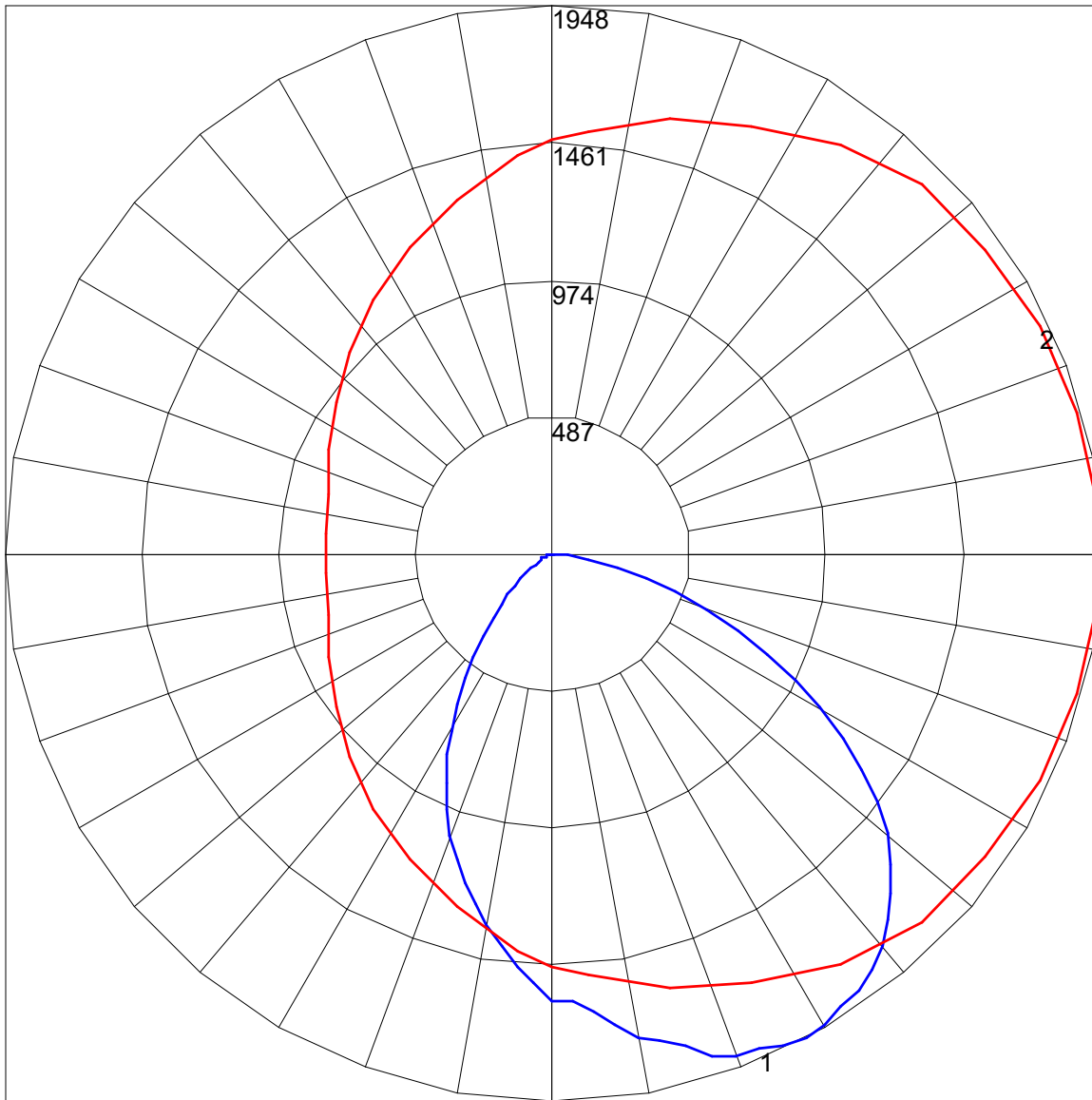
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

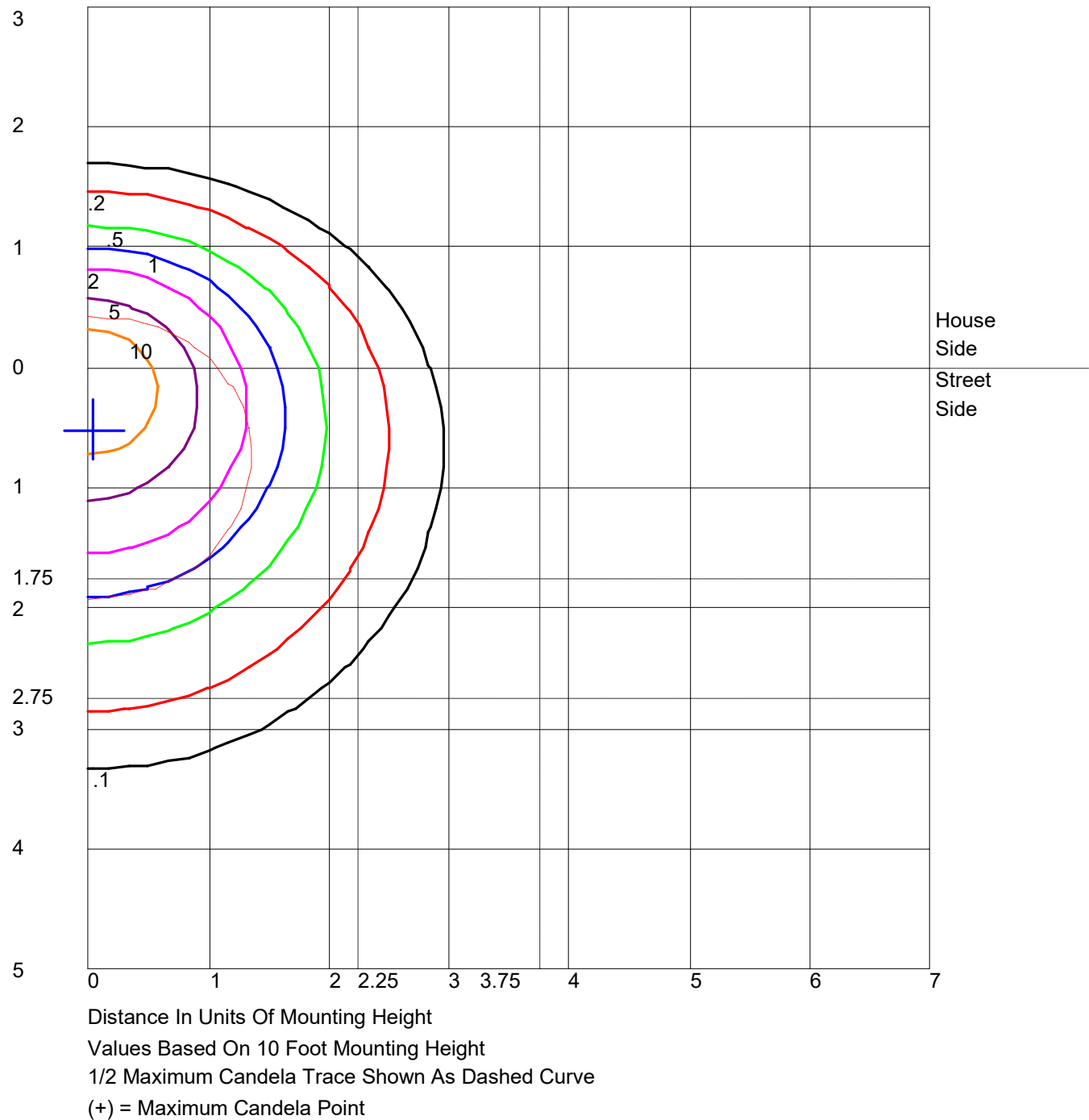
	Lumens	Percent Of Luminaire
Downward Street Side	2888.1	70.1
Downward House Side	1230.9	29.9
Downward Total	4119.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4119.0	100.0

POLAR GRAPH

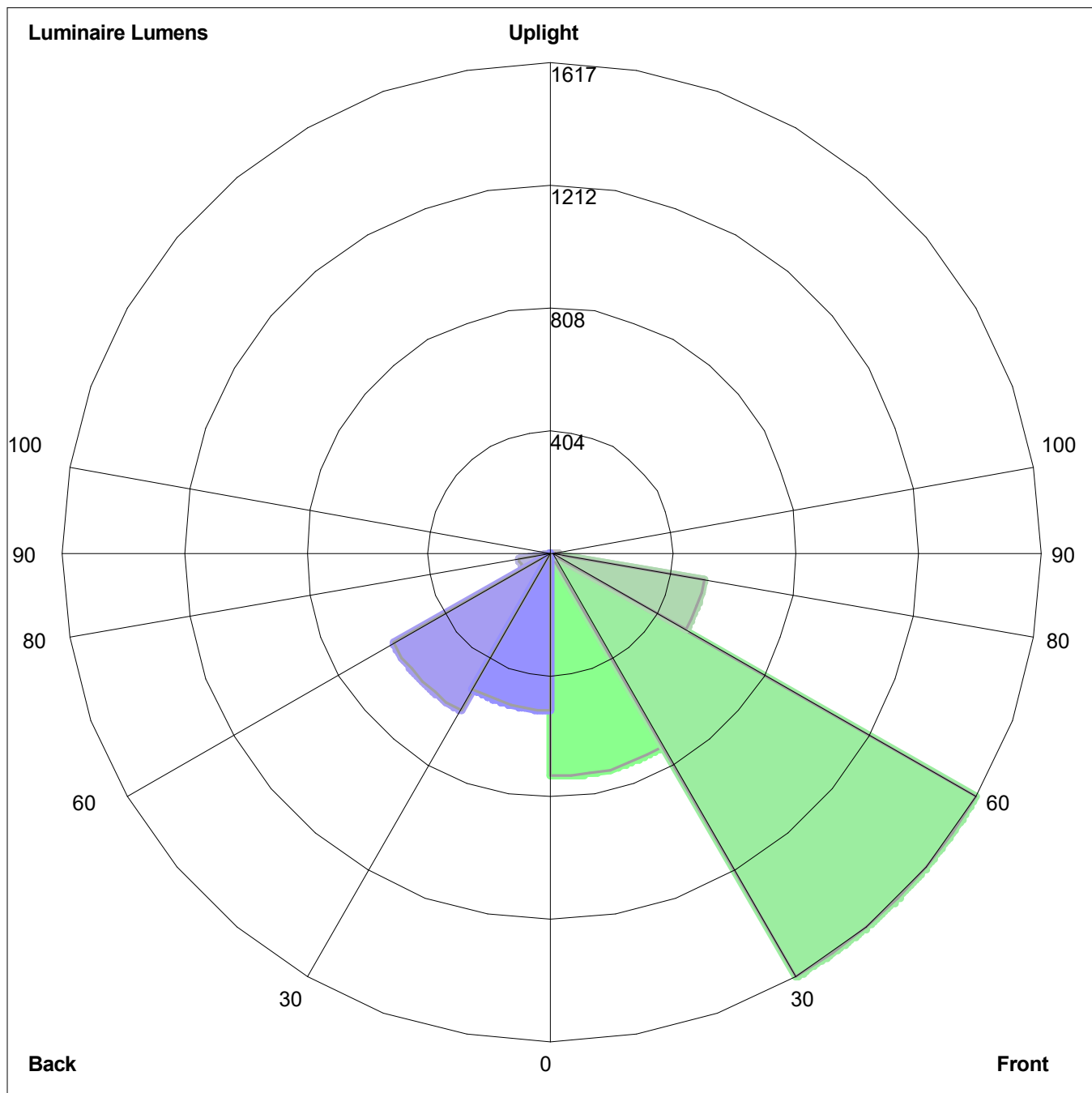


Maximum Candela = 1948 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=739.6, Medium=1616.6, High=511.0, Very High=20.8
Back: Low=519.3, Medium=600.0, High=105.7, Very High=5.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1