



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSR-04L-FT-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12866
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/29/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] GSR-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	3964
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1811
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1811
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	181 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	692.1	N.A.	17.5
FM - Front-Medium (30-60)	1532.9	N.A.	38.7
FH - Front-High (60-80)	517.8	N.A.	13.1
FVH - Front-Very High (80-90)	25.5	N.A.	0.6
BL - Back-Low (0-30)	488.0	N.A.	12.3
BM - Back-Medium (30-60)	594.3	N.A.	15.0
BH - Back-High (60-80)	108.2	N.A.	2.7
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	3964.3	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	1474	1474	1474	1474	1474	1474	1474	1474	1474	1474
2.5	1480	1481	1484	1487	1490	1494	1497	1498	1496	1498
5.0	1539	1539	1540	1539	1536	1535	1528	1522	1511	1503
7.5	1606	1606	1605	1600	1595	1583	1565	1544	1518	1500
10.0	1653	1653	1656	1656	1643	1624	1592	1556	1521	1496
12.5	1656	1657	1672	1677	1671	1649	1622	1582	1533	1494
15.0	1671	1672	1679	1681	1666	1664	1652	1610	1545	1495
17.5	1729	1727	1729	1708	1675	1671	1668	1624	1553	1487
20.0	1772	1774	1772	1746	1708	1673	1660	1628	1556	1474
22.5	1791	1792	1790	1768	1748	1695	1645	1619	1553	1460
25.0	1802	1800	1795	1774	1767	1717	1648	1604	1542	1436
27.5	1810	1811	1808	1771	1765	1721	1653	1580	1526	1408
30.0	1792	1798	1798	1778	1751	1709	1648	1554	1495	1379
32.5	1782	1783	1776	1760	1732	1689	1627	1531	1459	1340
35.0	1780	1782	1766	1738	1699	1657	1596	1501	1413	1294
37.5	1773	1778	1754	1721	1662	1617	1551	1462	1352	1239
40.0	1739	1739	1721	1699	1634	1567	1502	1416	1295	1175
42.5	1686	1684	1668	1649	1595	1519	1443	1354	1229	1115
45.0	1627	1625	1603	1585	1550	1466	1384	1284	1161	1040
47.5	1568	1563	1541	1513	1479	1407	1312	1209	1092	966
50.0	1503	1499	1474	1439	1397	1334	1236	1124	1014	894
52.5	1421	1422	1398	1363	1308	1248	1153	1043	931	815
55.0	1329	1331	1309	1278	1219	1156	1060	961	849	736
57.5	1226	1230	1214	1183	1130	1053	970	870	762	659
60.0	1119	1117	1111	1078	1030	952	875	781	679	581
62.5	1003	1003	992	962	918	851	776	692	596	503
65.0	882	882	871	842	806	748	678	603	516	431
67.5	757	757	743	724	688	642	582	516	438	360
70.0	632	625	621	606	576	539	488	432	362	297
72.5	510	503	500	489	464	433	398	348	294	239
75.0	382	386	385	377	360	335	302	272	229	185
77.5	273	277	278	273	260	246	223	197	170	136
80.0	174	179	181	178	172	162	151	134	113	94
82.5	86	86	89	95	93	92	87	79	67	55
85.0	16	17	20	21	29	34	37	35	30	26
87.5	1	0	1	1	1	1	3	5	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	1474	1474	1474	1474	1474	1474	1474	1474	1474	1474
2.5	1498	1494	1487	1479	1472	1463	1452	1439	1433	1428
5.0	1498	1490	1474	1456	1441	1424	1406	1389	1378	1370
7.5	1492	1477	1452	1426	1403	1379	1356	1331	1314	1307
10.0	1484	1468	1431	1389	1354	1325	1303	1280	1269	1262
12.5	1478	1462	1413	1361	1313	1281	1256	1235	1223	1210
15.0	1474	1449	1389	1329	1284	1250	1213	1181	1162	1152
17.5	1458	1427	1356	1295	1251	1203	1155	1119	1091	1084
20.0	1442	1410	1331	1261	1210	1152	1095	1045	1014	1008
22.5	1423	1385	1290	1223	1159	1095	1025	979	953	939
25.0	1396	1352	1247	1179	1104	1024	961	918	883	869
27.5	1365	1313	1206	1129	1045	959	901	848	813	795

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CANDELA TABULATION - (Cont.)

30.0	1327	1273	1162	1076	977	897	831	777	740	723
32.5	1282	1221	1105	1015	908	828	759	707	668	648
35.0	1227	1166	1048	944	838	754	688	635	595	572
37.5	1170	1103	986	876	772	683	618	563	517	495
40.0	1107	1038	924	808	703	614	543	486	444	424
42.5	1036	971	856	737	632	546	472	412	378	359
45.0	967	901	787	667	564	479	400	349	320	307
47.5	896	824	710	598	499	410	340	296	271	259
50.0	820	752	639	531	438	349	286	249	224	211
52.5	746	679	570	464	374	294	240	205	183	170
55.0	669	607	503	402	318	245	197	167	147	137
57.5	596	537	438	346	266	203	162	134	119	110
60.0	525	467	376	295	221	164	131	109	95	88
62.5	456	403	320	248	181	134	106	87	77	73
65.0	385	343	270	205	147	108	84	69	63	59
67.5	321	287	224	167	116	86	66	56	50	48
70.0	264	234	183	134	92	67	52	45	41	40
72.5	212	187	143	103	71	52	40	35	33	32
75.0	164	144	110	75	52	39	30	27	27	27
77.5	121	106	79	53	37	27	22	20	20	20
80.0	82	73	53	34	24	17	14	14	14	14
82.5	50	43	30	20	13	9	9	9	9	9
85.0	22	20	13	9	5	4	4	4	5	5
87.5	5	4	3	2	1	1	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

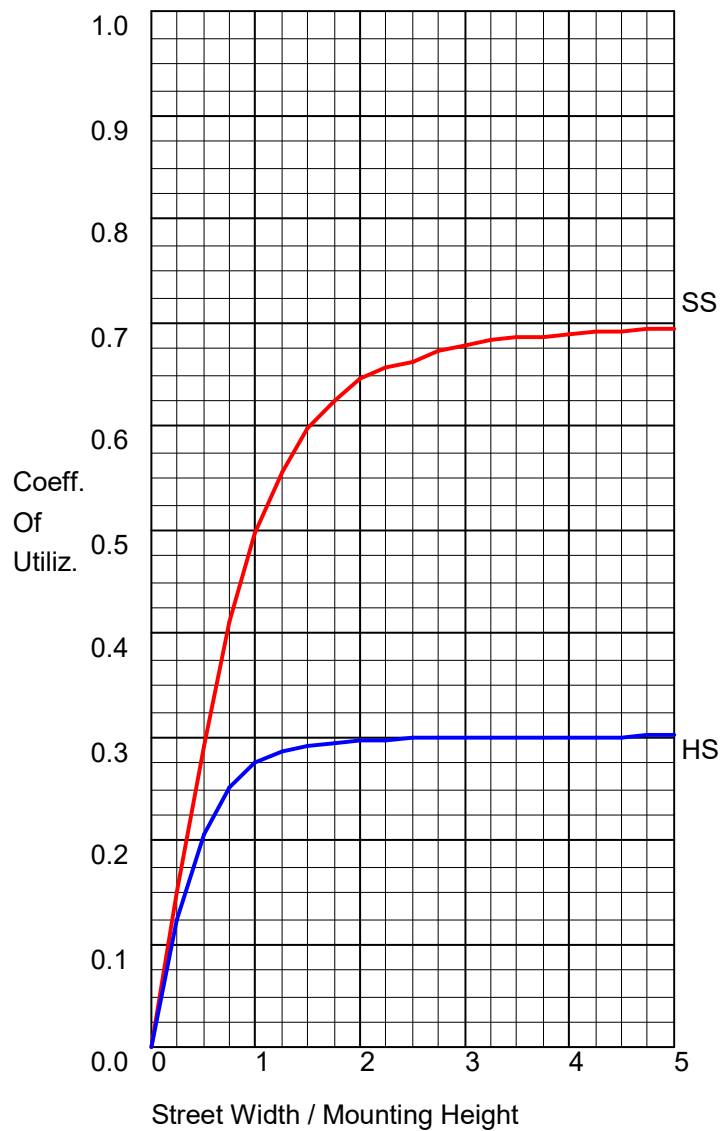
	180
0.0	1474
2.5	1428
5.0	1368
7.5	1305
10.0	1260
12.5	1208
15.0	1152
17.5	1084
20.0	1005
22.5	942
25.0	873
27.5	792
30.0	722
32.5	645
35.0	571
37.5	493
40.0	421
42.5	358
45.0	304
47.5	257
50.0	212
52.5	171
55.0	134
57.5	109
60.0	87
62.5	71
65.0	59

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CANDELA TABULATION - (Cont.)

67.5	48
70.0	40
72.5	32
75.0	26
77.5	20
80.0	14
82.5	9
85.0	5
87.5	0
90.0	0

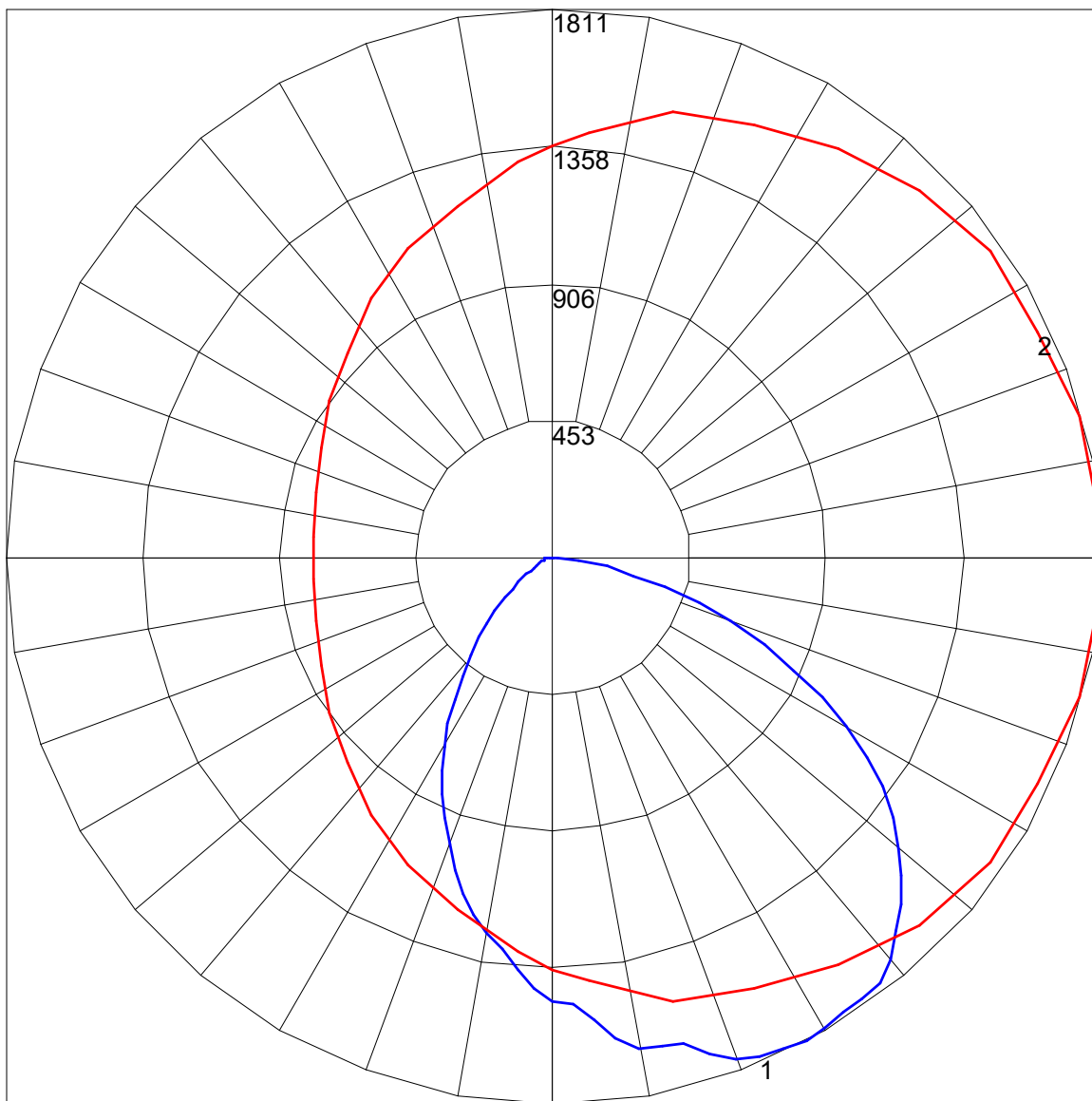
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

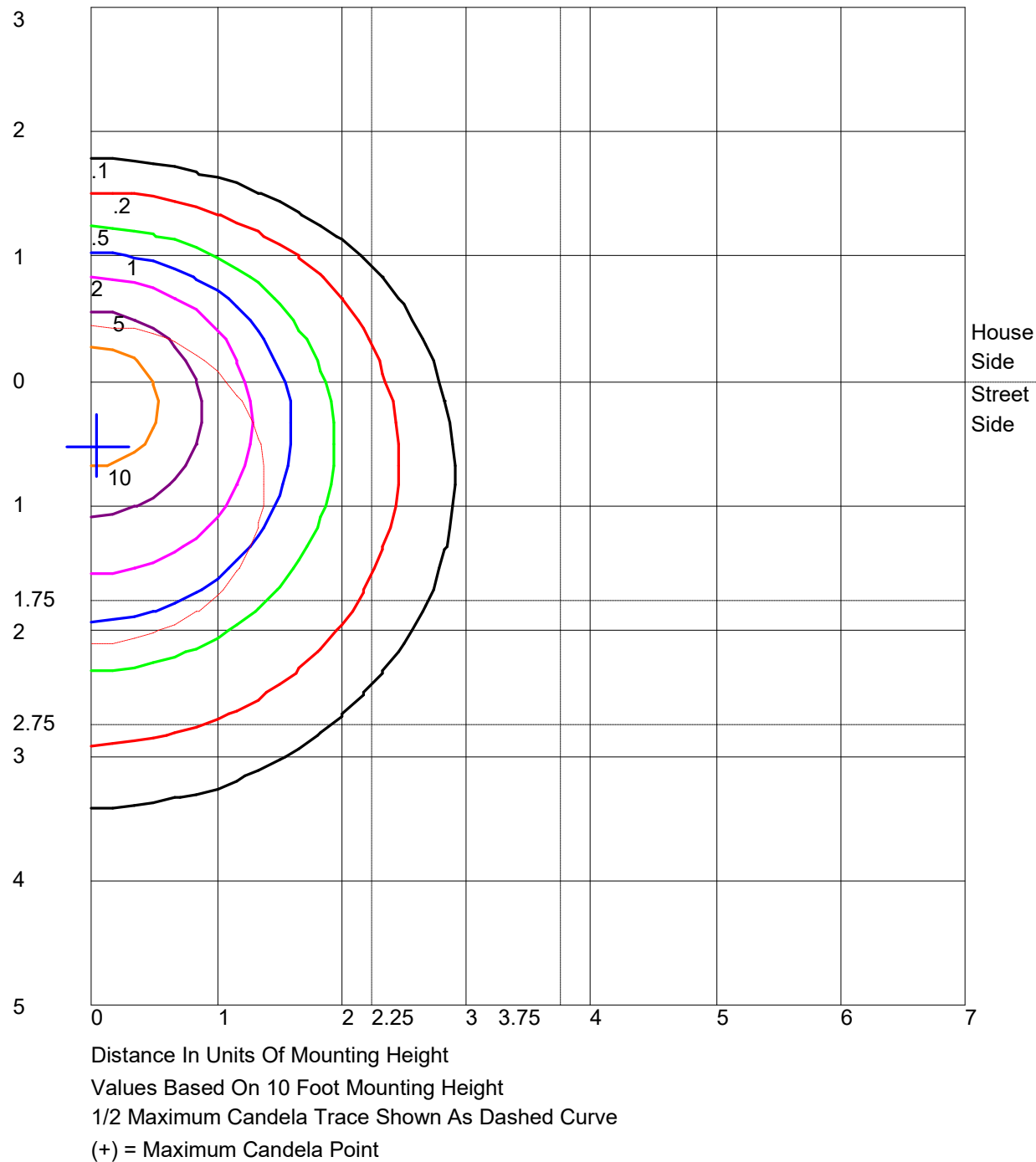
	Lumens	Percent Of Luminaire
Downward Street Side	2768.3	69.8
Downward House Side	1196.0	30.2
Downward Total	3964.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3964.3	100.0

POLAR GRAPH

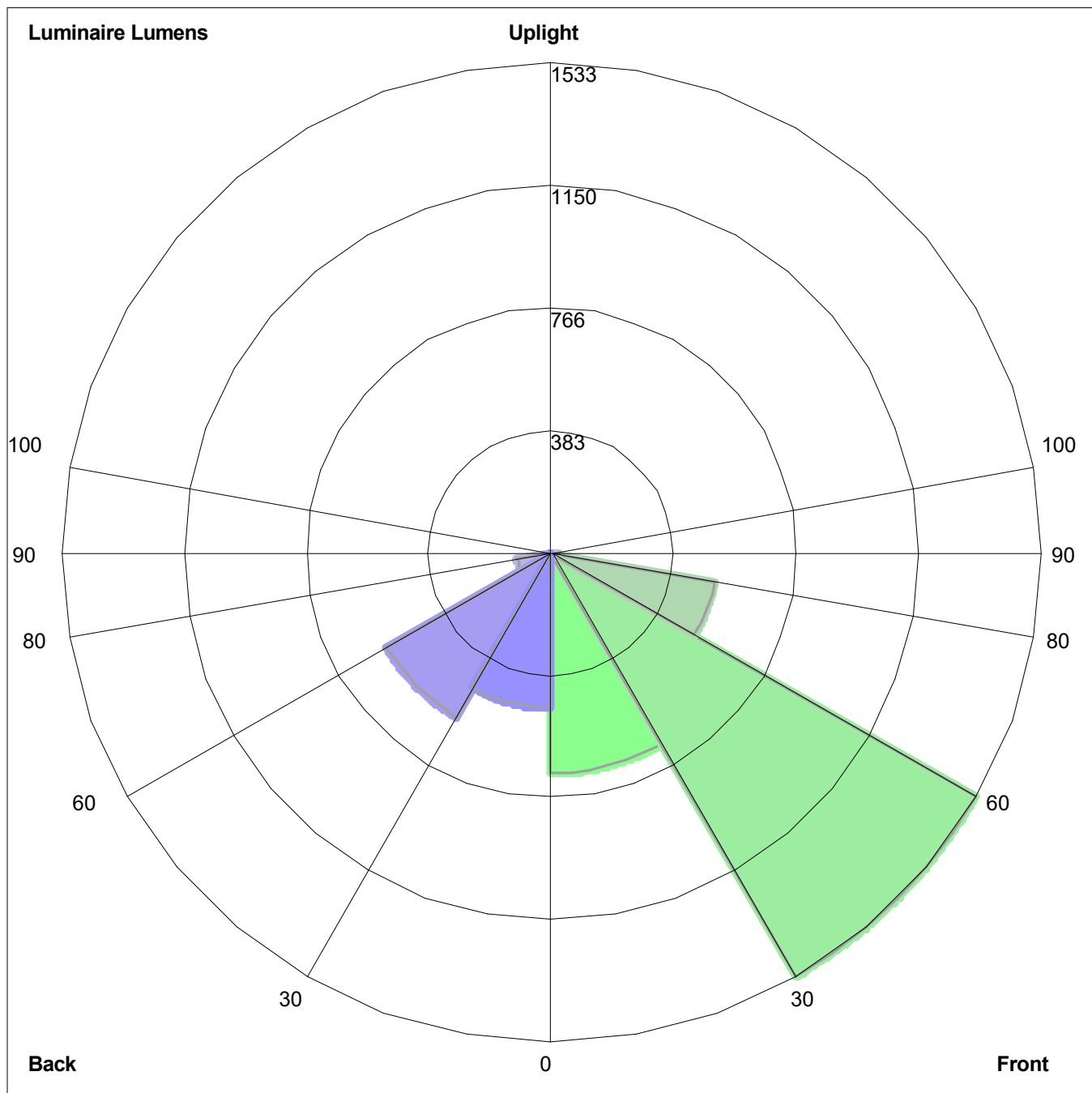


Maximum Candela = 1811 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=692.1, Medium=1532.9, High=517.8, Very High=25.5
Back: Low=488.0, Medium=594.3, High=108.2, Very High=5.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1