



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-06L-3-UNV-DIM-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11649

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 5/7/2020

[TESTDATE] 03/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SMW-LED-06L-3-UNV-DIM-40

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5930
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	47
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2881
Maximum Candela Angle	57.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	2881
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1462 (24.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	566.6	N.A.	9.6
FM - Front-Medium (30-60)	1721.2	N.A.	29.0
FH - Front-High (60-80)	1176.0	N.A.	19.8
FVH - Front-Very High (80-90)	71.4	N.A.	1.2
BL - Back-Low (0-30)	520.0	N.A.	8.8
BM - Back-Medium (30-60)	1234.8	N.A.	20.8
BH - Back-High (60-80)	615.0	N.A.	10.4
BVH - Back-Very High (80-90)	24.8	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5929.8	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265
2.5	1239	1240	1252	1257	1267	1276	1279	1281	1289	1293
5.0	1253	1253	1264	1269	1278	1287	1287	1289	1295	1298
7.5	1266	1268	1278	1283	1291	1297	1297	1298	1302	1303
10.0	1281	1282	1292	1297	1303	1308	1306	1307	1310	1309
12.5	1295	1297	1307	1311	1314	1320	1316	1317	1319	1315
15.0	1310	1311	1320	1324	1327	1332	1326	1327	1328	1324
17.5	1323	1324	1334	1337	1340	1343	1338	1339	1339	1334
20.0	1333	1335	1345	1348	1352	1358	1352	1352	1352	1346
22.5	1341	1342	1352	1357	1363	1370	1366	1367	1368	1361
25.0	1343	1345	1357	1364	1373	1384	1382	1384	1386	1378
27.5	1342	1343	1358	1368	1381	1399	1402	1404	1407	1399
30.0	1338	1340	1357	1370	1389	1412	1422	1425	1431	1422
32.5	1333	1335	1354	1372	1397	1428	1444	1448	1457	1448
35.0	1326	1329	1351	1373	1406	1447	1468	1476	1486	1478
37.5	1320	1322	1348	1374	1416	1467	1499	1507	1521	1513
40.0	1311	1314	1342	1375	1428	1491	1534	1545	1560	1552
42.5	1303	1304	1335	1376	1439	1519	1576	1587	1605	1595
45.0	1283	1285	1323	1374	1451	1547	1620	1635	1657	1642
47.5	1254	1255	1298	1365	1461	1576	1667	1686	1713	1698
50.0	1204	1208	1259	1348	1468	1602	1717	1740	1772	1753
52.5	1145	1152	1208	1318	1473	1630	1757	1785	1830	1812
55.0	1086	1089	1153	1279	1476	1658	1784	1813	1877	1874
57.5	1018	1022	1090	1233	1474	1691	1791	1817	1898	1938
60.0	923	928	990	1154	1459	1738	1787	1801	1884	2000
62.5	798	801	855	1009	1387	1824	1813	1798	1839	2040
65.0	670	673	715	817	1190	1919	1942	1869	1779	2047
67.5	475	467	535	646	860	1818	2225	2071	1704	2000
70.0	304	301	329	432	592	1394	2662	2505	1647	1858
72.5	158	166	195	292	392	979	2872	2881	1612	1542
75.0	107	107	123	171	256	650	2177	2414	1396	1065
77.5	73	74	82	108	164	408	1129	1186	1249	621
80.0	52	53	58	74	113	243	487	521	1167	393
82.5	33	31	30	36	66	149	234	293	755	191
85.0	7	7	7	9	17	48	128	198	374	72
87.5	1	1	1	1	1	1	13	34	78	24
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265
2.5	1298	1290	1293	1291	1286	1273	1266	1258	1248	1236
5.0	1301	1293	1294	1290	1284	1270	1262	1253	1243	1230
7.5	1303	1294	1295	1290	1282	1267	1258	1248	1237	1225
10.0	1308	1297	1297	1289	1280	1265	1255	1245	1233	1221
12.5	1311	1301	1299	1290	1279	1262	1252	1241	1229	1217
15.0	1317	1306	1303	1291	1279	1261	1249	1237	1224	1211
17.5	1325	1311	1307	1294	1281	1261	1246	1231	1217	1201
20.0	1335	1320	1313	1298	1283	1260	1242	1224	1205	1186
22.5	1347	1330	1322	1305	1287	1259	1237	1213	1187	1164
25.0	1362	1343	1334	1314	1292	1258	1229	1195	1162	1134
27.5	1380	1359	1349	1324	1297	1256	1217	1172	1131	1098

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**CANDELA TABULATION - (Cont.)**

30.0	1400	1378	1365	1336	1302	1251	1198	1141	1093	1056
32.5	1423	1399	1383	1348	1306	1240	1173	1107	1053	1014
35.0	1450	1423	1403	1361	1308	1224	1143	1067	1012	971
37.5	1481	1450	1427	1375	1307	1203	1107	1027	973	934
40.0	1515	1481	1452	1390	1304	1177	1070	989	937	902
42.5	1556	1515	1480	1406	1296	1147	1033	955	906	874
45.0	1598	1551	1511	1420	1282	1113	995	923	879	849
47.5	1641	1589	1542	1433	1262	1075	963	896	853	822
50.0	1687	1627	1572	1440	1234	1038	932	868	826	795
52.5	1739	1669	1604	1436	1191	995	899	839	797	765
55.0	1797	1718	1637	1421	1136	945	862	808	764	736
57.5	1869	1778	1673	1388	1073	884	813	771	733	710
60.0	1966	1856	1718	1348	1008	822	758	729	703	685
62.5	2099	1971	1776	1310	938	751	693	683	662	651
65.0	2235	2098	1855	1262	851	676	621	625	615	608
67.5	2334	2208	1916	1179	749	607	549	558	538	413
70.0	2275	2166	1855	1034	641	523	485	450	358	225
72.5	1917	1767	1532	853	511	416	393	300	207	158
75.0	1699	1400	1074	631	401	319	243	198	147	83
77.5	1988	1537	793	389	296	192	170	130	84	52
80.0	1462	1100	482	235	183	109	124	85	41	34
82.5	436	299	206	142	63	53	60	34	20	17
85.0	109	96	83	47	29	24	18	8	4	2
87.5	30	27	27	12	6	3	1	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

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

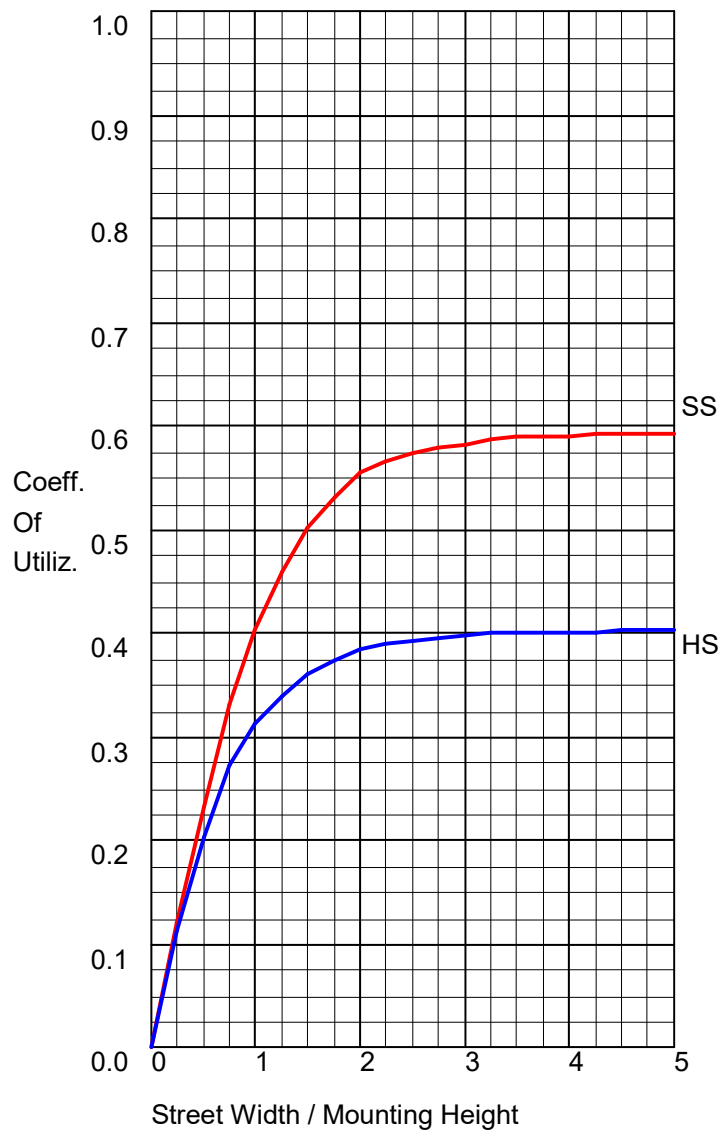
	<u>175.0</u>	<u>180.0</u>
0.0	1265	1265
2.5	1220	1229
5.0	1214	1223
7.5	1210	1217
10.0	1206	1213
12.5	1201	1207
15.0	1195	1201
17.5	1186	1189
20.0	1169	1173
22.5	1144	1148
25.0	1112	1112
27.5	1073	1072
30.0	1030	1028
32.5	987	985
35.0	948	944
37.5	912	909
40.0	882	880
42.5	855	854
45.0	830	829
47.5	804	804
50.0	775	777
52.5	744	745
55.0	717	719
57.5	696	697
60.0	675	675
62.5	646	643
65.0	585	576

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	354	344
<b>70.0</b>	197	194
<b>72.5</b>	142	142
<b>75.0</b>	73	73
<b>77.5</b>	49	50
<b>80.0</b>	33	33
<b>82.5</b>	16	17
<b>85.0</b>	2	2
<b>87.5</b>	0	0
<b>90.0</b>	0	0

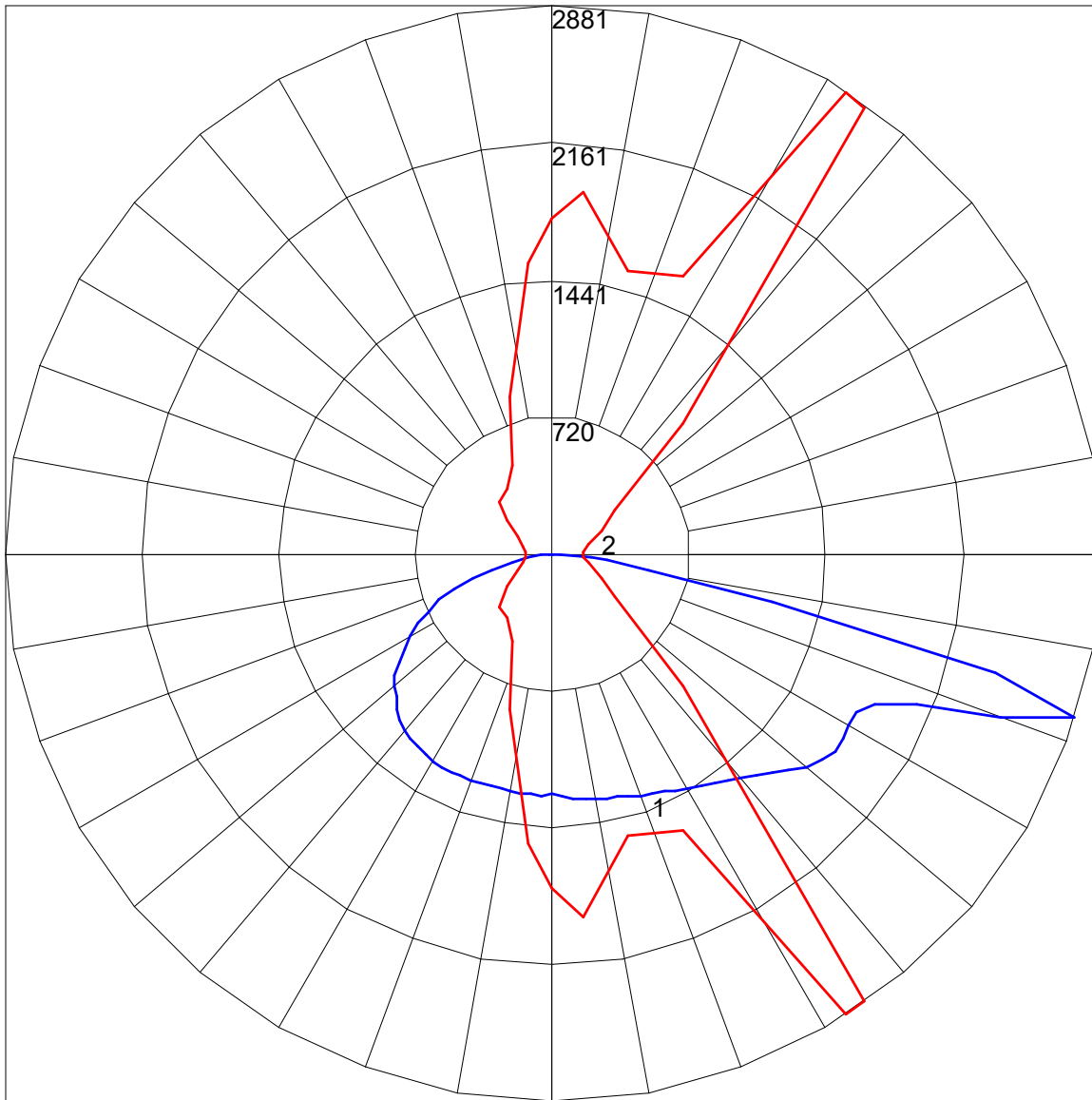
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

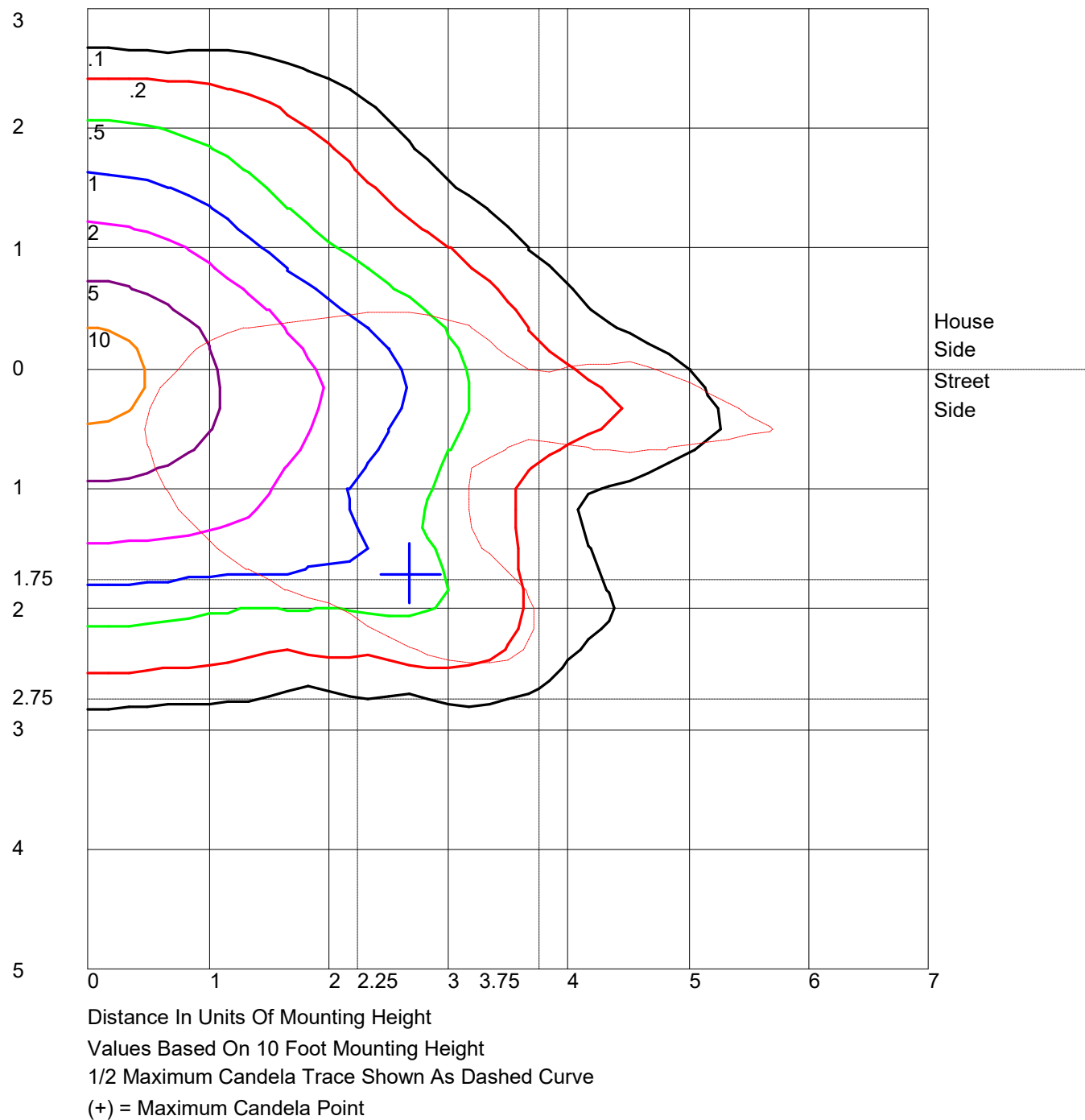
	Lumens	Percent Of Luminaire
Downward Street Side	3535.3	59.6
Downward House Side	2394.7	40.4
Downward Total	5930.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5930.0	100.0

POLAR GRAPH



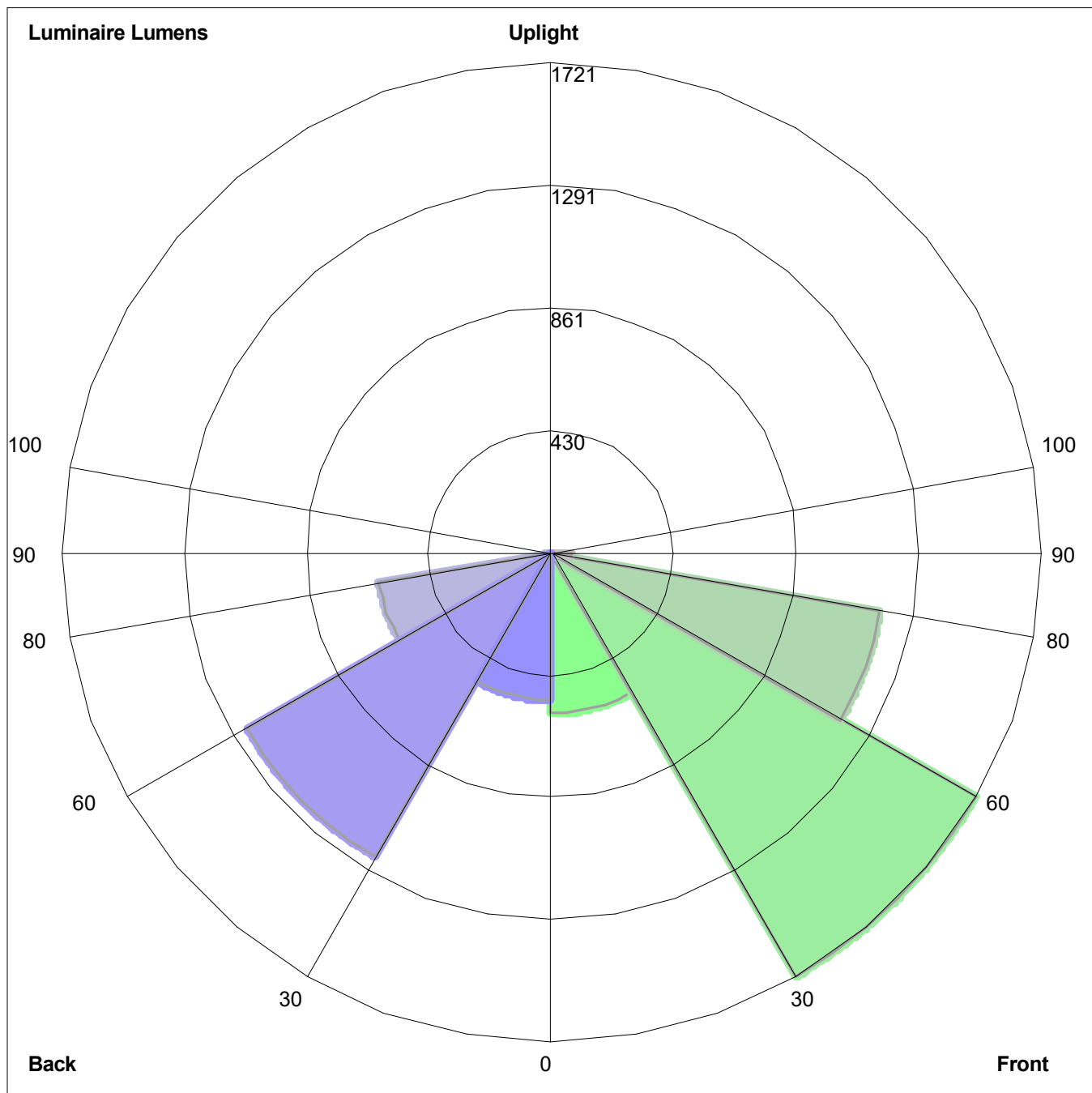
Maximum Candela = 2881 Located At Horizontal Angle = 57.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=566.6, Medium=1721.2, High= 1176.0, Very High=71.4  
Back: Low=520.0, Medium=1234.8, High=615.0, Very High=24.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2