



IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-06L-3-UNV-DIM-30.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-30
[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 | 5755 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 122 |
| Total Luminaire Watts | 47 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 2796 |
| Maximum Candela Angle | 57.5H 72.5V |
| Maximum Candela (<90 Degrees Vertical) | 2796 |
| 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 | 1419 (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) | 549.9 | N.A. | 9.6 |
| FM - Front-Medium (30-60) | 1670.4 | N.A. | 29.0 |
| FH - Front-High (60-80) | 1141.4 | N.A. | 19.8 |
| FVH - Front-Very High (80-90) | 69.2 | N.A. | 1.2 |
| BL - Back-Low (0-30) | 504.6 | N.A. | 8.8 |
| BM - Back-Medium (30-60) | 1198.4 | N.A. | 20.8 |
| BH - Back-High (60-80) | 596.9 | N.A. | 10.4 |
| BVH - Back-Very High (80-90) | 24.1 | 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 | 5754.9 | 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 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 |
| 2.5 | 1203 | 1204 | 1215 | 1220 | 1230 | 1238 | 1241 | 1243 | 1251 | 1255 |
| 5.0 | 1216 | 1216 | 1227 | 1232 | 1241 | 1249 | 1249 | 1251 | 1257 | 1260 |
| 7.5 | 1229 | 1230 | 1240 | 1245 | 1253 | 1258 | 1258 | 1260 | 1264 | 1265 |
| 10.0 | 1243 | 1245 | 1254 | 1259 | 1264 | 1270 | 1268 | 1268 | 1271 | 1270 |
| 12.5 | 1257 | 1258 | 1268 | 1272 | 1276 | 1281 | 1277 | 1278 | 1280 | 1276 |
| 15.0 | 1271 | 1272 | 1281 | 1285 | 1288 | 1292 | 1287 | 1288 | 1289 | 1285 |
| 17.5 | 1284 | 1285 | 1295 | 1297 | 1301 | 1304 | 1299 | 1300 | 1299 | 1295 |
| 20.0 | 1293 | 1295 | 1305 | 1308 | 1312 | 1318 | 1312 | 1312 | 1312 | 1306 |
| 22.5 | 1302 | 1302 | 1312 | 1317 | 1323 | 1330 | 1326 | 1327 | 1327 | 1320 |
| 25.0 | 1303 | 1305 | 1317 | 1324 | 1333 | 1343 | 1341 | 1343 | 1345 | 1338 |
| 27.5 | 1302 | 1304 | 1318 | 1328 | 1340 | 1357 | 1361 | 1362 | 1365 | 1358 |
| 30.0 | 1299 | 1301 | 1317 | 1330 | 1348 | 1370 | 1380 | 1383 | 1389 | 1380 |
| 32.5 | 1294 | 1296 | 1314 | 1331 | 1356 | 1385 | 1401 | 1406 | 1414 | 1406 |
| 35.0 | 1287 | 1289 | 1311 | 1333 | 1364 | 1404 | 1425 | 1433 | 1442 | 1434 |
| 37.5 | 1281 | 1283 | 1308 | 1334 | 1375 | 1423 | 1454 | 1462 | 1476 | 1469 |
| 40.0 | 1273 | 1275 | 1302 | 1335 | 1385 | 1447 | 1489 | 1499 | 1514 | 1506 |
| 42.5 | 1264 | 1266 | 1296 | 1335 | 1397 | 1474 | 1529 | 1541 | 1557 | 1548 |
| 45.0 | 1245 | 1247 | 1284 | 1333 | 1408 | 1502 | 1572 | 1587 | 1608 | 1594 |
| 47.5 | 1217 | 1218 | 1260 | 1325 | 1418 | 1530 | 1618 | 1637 | 1663 | 1648 |
| 50.0 | 1168 | 1173 | 1222 | 1308 | 1425 | 1555 | 1666 | 1689 | 1719 | 1702 |
| 52.5 | 1111 | 1118 | 1173 | 1279 | 1430 | 1581 | 1705 | 1732 | 1776 | 1759 |
| 55.0 | 1054 | 1057 | 1119 | 1241 | 1433 | 1609 | 1732 | 1760 | 1822 | 1818 |
| 57.5 | 988 | 992 | 1058 | 1196 | 1430 | 1641 | 1738 | 1764 | 1842 | 1880 |
| 60.0 | 896 | 900 | 961 | 1120 | 1416 | 1687 | 1734 | 1748 | 1828 | 1941 |
| 62.5 | 774 | 778 | 830 | 979 | 1346 | 1771 | 1760 | 1745 | 1784 | 1980 |
| 65.0 | 650 | 653 | 694 | 793 | 1155 | 1863 | 1884 | 1814 | 1726 | 1986 |
| 67.5 | 461 | 454 | 519 | 627 | 835 | 1764 | 2160 | 2010 | 1653 | 1941 |
| 70.0 | 295 | 292 | 319 | 420 | 575 | 1353 | 2583 | 2431 | 1599 | 1803 |
| 72.5 | 153 | 161 | 190 | 283 | 381 | 950 | 2787 | 2796 | 1565 | 1496 |
| 75.0 | 103 | 103 | 119 | 166 | 248 | 631 | 2113 | 2343 | 1354 | 1034 |
| 77.5 | 71 | 72 | 80 | 105 | 159 | 396 | 1096 | 1151 | 1212 | 602 |
| 80.0 | 51 | 51 | 56 | 72 | 109 | 236 | 473 | 506 | 1132 | 381 |
| 82.5 | 32 | 30 | 29 | 34 | 64 | 145 | 227 | 284 | 732 | 185 |
| 85.0 | 6 | 6 | 6 | 9 | 16 | 47 | 124 | 192 | 363 | 70 |
| 87.5 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 33 | 76 | 23 |
| 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 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 | 1228 |
| 2.5 | 1260 | 1252 | 1255 | 1253 | 1248 | 1235 | 1229 | 1220 | 1211 | 1200 |
| 5.0 | 1262 | 1254 | 1256 | 1252 | 1246 | 1233 | 1224 | 1216 | 1206 | 1193 |
| 7.5 | 1265 | 1256 | 1257 | 1251 | 1244 | 1230 | 1220 | 1211 | 1201 | 1189 |
| 10.0 | 1269 | 1259 | 1258 | 1251 | 1242 | 1227 | 1218 | 1208 | 1197 | 1185 |
| 12.5 | 1273 | 1262 | 1261 | 1251 | 1242 | 1225 | 1215 | 1204 | 1193 | 1181 |
| 15.0 | 1279 | 1267 | 1265 | 1253 | 1242 | 1224 | 1212 | 1200 | 1188 | 1175 |
| 17.5 | 1286 | 1273 | 1268 | 1256 | 1243 | 1223 | 1209 | 1195 | 1181 | 1166 |
| 20.0 | 1295 | 1281 | 1274 | 1260 | 1245 | 1223 | 1205 | 1188 | 1169 | 1151 |
| 22.5 | 1307 | 1291 | 1283 | 1266 | 1249 | 1222 | 1201 | 1177 | 1152 | 1130 |
| 25.0 | 1322 | 1303 | 1295 | 1275 | 1254 | 1221 | 1192 | 1160 | 1128 | 1100 |
| 27.5 | 1339 | 1319 | 1309 | 1285 | 1259 | 1219 | 1181 | 1137 | 1097 | 1065 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|
| 30.0 | 1359 | 1337 | 1325 | 1297 | 1264 | 1214 | 1163 | 1108 | 1061 | 1025 |
| 32.5 | 1381 | 1358 | 1342 | 1308 | 1268 | 1204 | 1139 | 1074 | 1022 | 984 |
| 35.0 | 1407 | 1381 | 1362 | 1321 | 1269 | 1188 | 1109 | 1036 | 982 | 942 |
| 37.5 | 1438 | 1407 | 1385 | 1335 | 1269 | 1168 | 1074 | 996 | 944 | 907 |
| 40.0 | 1470 | 1437 | 1409 | 1349 | 1265 | 1142 | 1038 | 959 | 909 | 876 |
| 42.5 | 1510 | 1471 | 1437 | 1365 | 1258 | 1113 | 1003 | 927 | 879 | 849 |
| 45.0 | 1550 | 1506 | 1466 | 1379 | 1244 | 1080 | 966 | 896 | 853 | 824 |
| 47.5 | 1592 | 1542 | 1496 | 1391 | 1224 | 1043 | 935 | 869 | 828 | 797 |
| 50.0 | 1637 | 1579 | 1526 | 1398 | 1198 | 1007 | 904 | 843 | 801 | 771 |
| 52.5 | 1687 | 1620 | 1557 | 1394 | 1156 | 966 | 873 | 814 | 773 | 742 |
| 55.0 | 1744 | 1667 | 1589 | 1379 | 1103 | 917 | 836 | 784 | 742 | 714 |
| 57.5 | 1814 | 1726 | 1623 | 1347 | 1042 | 858 | 789 | 748 | 712 | 689 |
| 60.0 | 1908 | 1802 | 1667 | 1308 | 978 | 798 | 735 | 707 | 682 | 665 |
| 62.5 | 2037 | 1913 | 1723 | 1271 | 910 | 729 | 673 | 663 | 643 | 632 |
| 65.0 | 2169 | 2036 | 1800 | 1225 | 826 | 656 | 603 | 606 | 597 | 590 |
| 67.5 | 2266 | 2143 | 1859 | 1144 | 727 | 589 | 532 | 542 | 523 | 401 |
| 70.0 | 2208 | 2102 | 1800 | 1004 | 622 | 508 | 470 | 437 | 347 | 218 |
| 72.5 | 1861 | 1715 | 1487 | 828 | 496 | 404 | 382 | 291 | 201 | 153 |
| 75.0 | 1649 | 1358 | 1042 | 612 | 389 | 309 | 236 | 193 | 143 | 80 |
| 77.5 | 1929 | 1492 | 770 | 378 | 287 | 186 | 165 | 126 | 82 | 50 |
| 80.0 | 1419 | 1068 | 468 | 228 | 178 | 106 | 120 | 83 | 40 | 33 |
| 82.5 | 423 | 290 | 200 | 137 | 61 | 51 | 59 | 33 | 20 | 17 |
| 85.0 | 106 | 93 | 80 | 46 | 28 | 23 | 17 | 8 | 4 | 2 |
| 87.5 | 29 | 26 | 26 | 11 | 6 | 3 | 1 | 1 | 1 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Angles **Horizontal Angles**

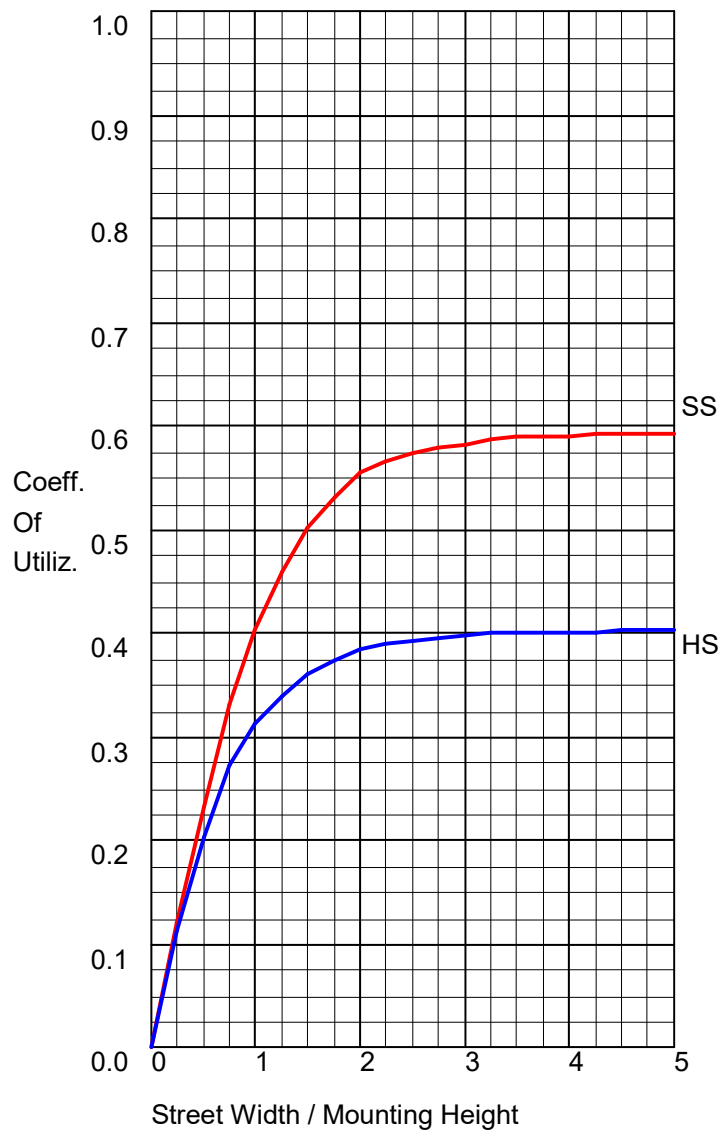
| | <u>175.0</u> | <u>180.0</u> |
|------|--------------|--------------|
| 0.0 | 1228 | 1228 |
| 2.5 | 1184 | 1193 |
| 5.0 | 1178 | 1187 |
| 7.5 | 1174 | 1181 |
| 10.0 | 1170 | 1177 |
| 12.5 | 1166 | 1172 |
| 15.0 | 1160 | 1165 |
| 17.5 | 1151 | 1154 |
| 20.0 | 1135 | 1138 |
| 22.5 | 1111 | 1114 |
| 25.0 | 1080 | 1079 |
| 27.5 | 1041 | 1041 |
| 30.0 | 1000 | 998 |
| 32.5 | 958 | 956 |
| 35.0 | 920 | 916 |
| 37.5 | 885 | 882 |
| 40.0 | 856 | 854 |
| 42.5 | 830 | 828 |
| 45.0 | 805 | 804 |
| 47.5 | 780 | 780 |
| 50.0 | 753 | 754 |
| 52.5 | 722 | 723 |
| 55.0 | 696 | 698 |
| 57.5 | 675 | 677 |
| 60.0 | 655 | 655 |
| 62.5 | 627 | 624 |
| 65.0 | 568 | 559 |

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CANDELA TABULATION - (Cont.)

| | | |
|-------------|-----|-----|
| 67.5 | 343 | 333 |
| 70.0 | 191 | 189 |
| 72.5 | 138 | 138 |
| 75.0 | 71 | 71 |
| 77.5 | 48 | 48 |
| 80.0 | 32 | 32 |
| 82.5 | 16 | 16 |
| 85.0 | 2 | 2 |
| 87.5 | 0 | 0 |
| 90.0 | 0 | 0 |

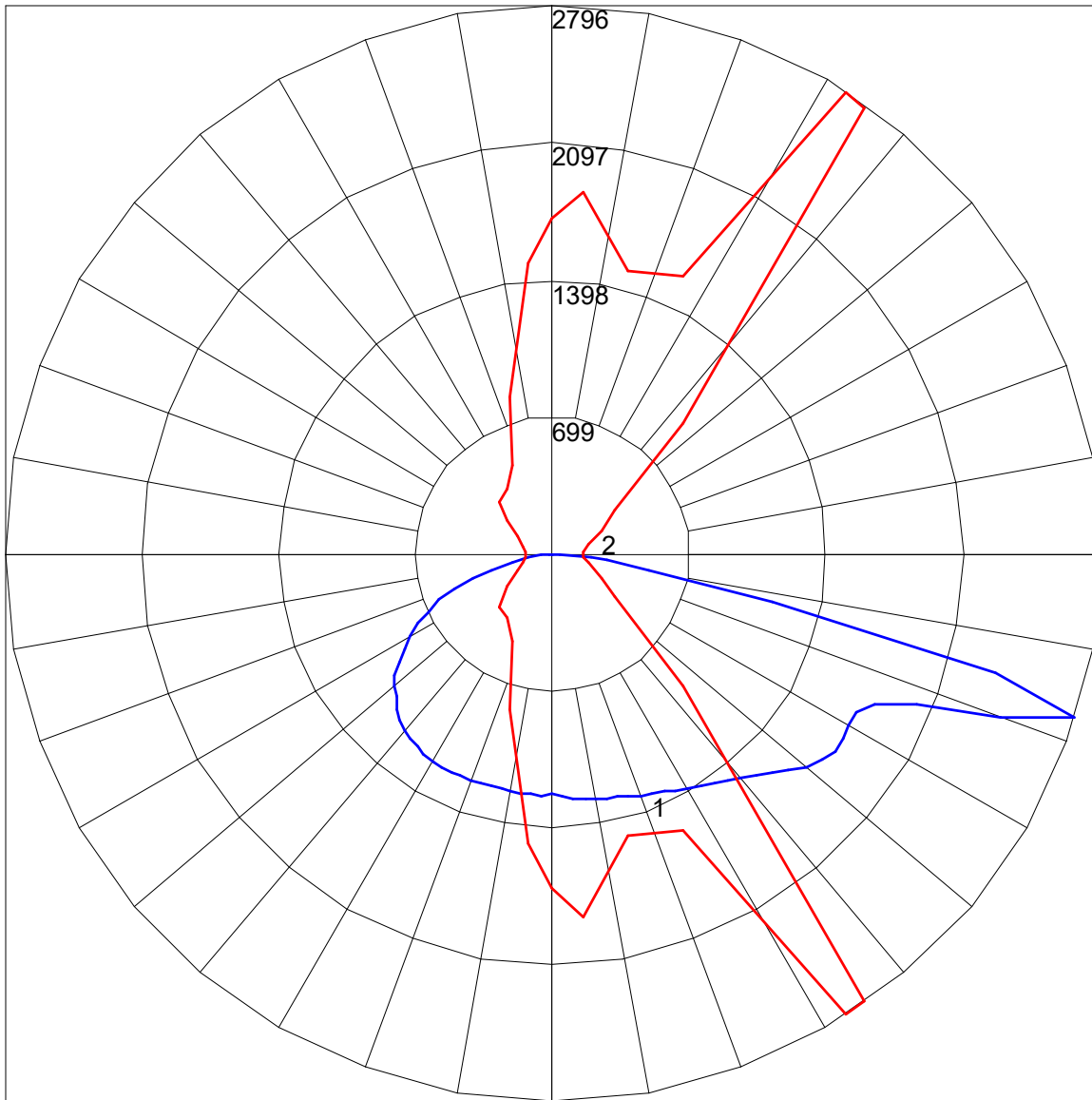
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

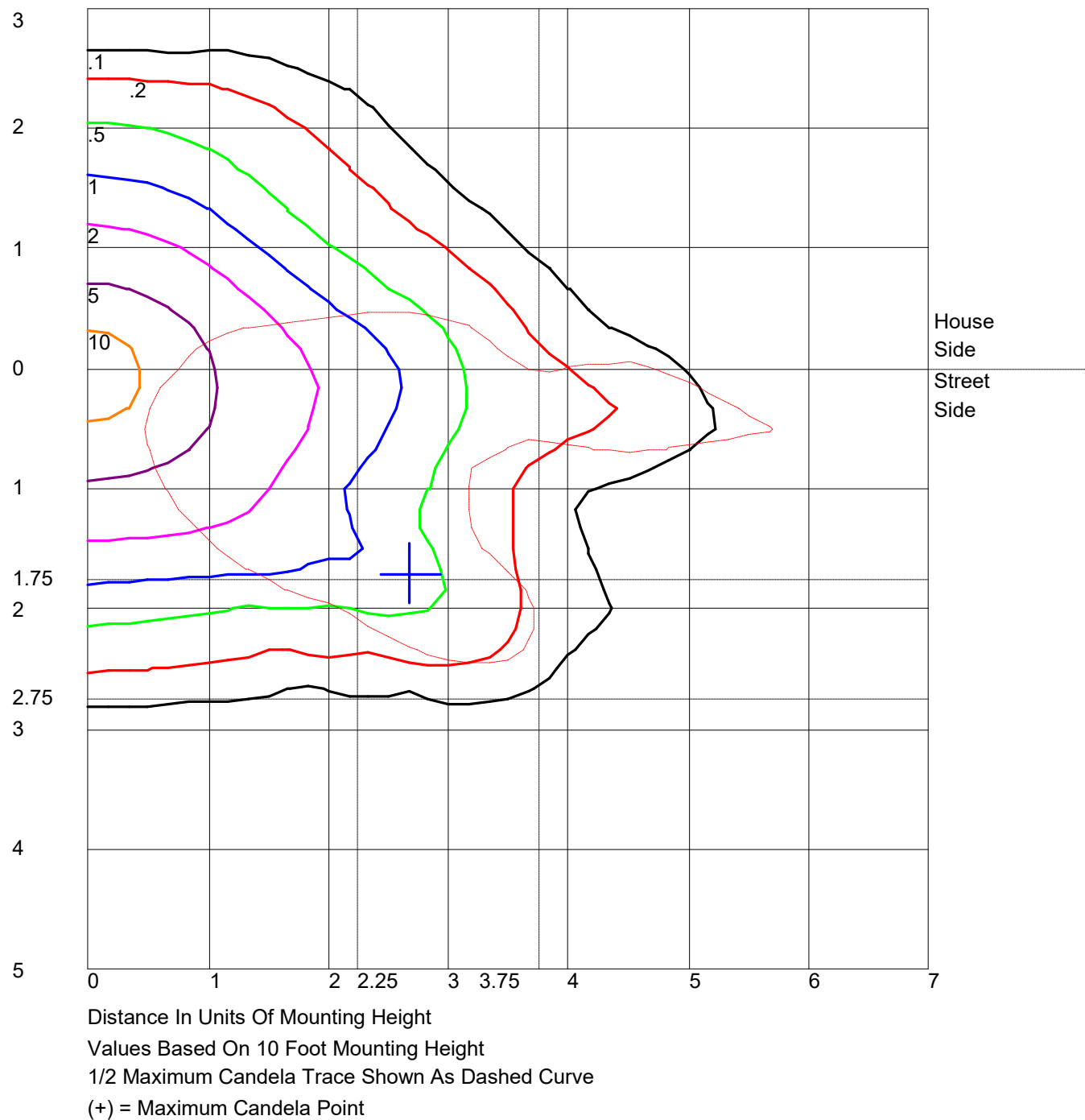
| | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 3430.9 | 59.6 |
| Downward House Side | 2324.1 | 40.4 |
| Downward Total | 5755.0 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 5755.0 | 100.0 |

POLAR GRAPH

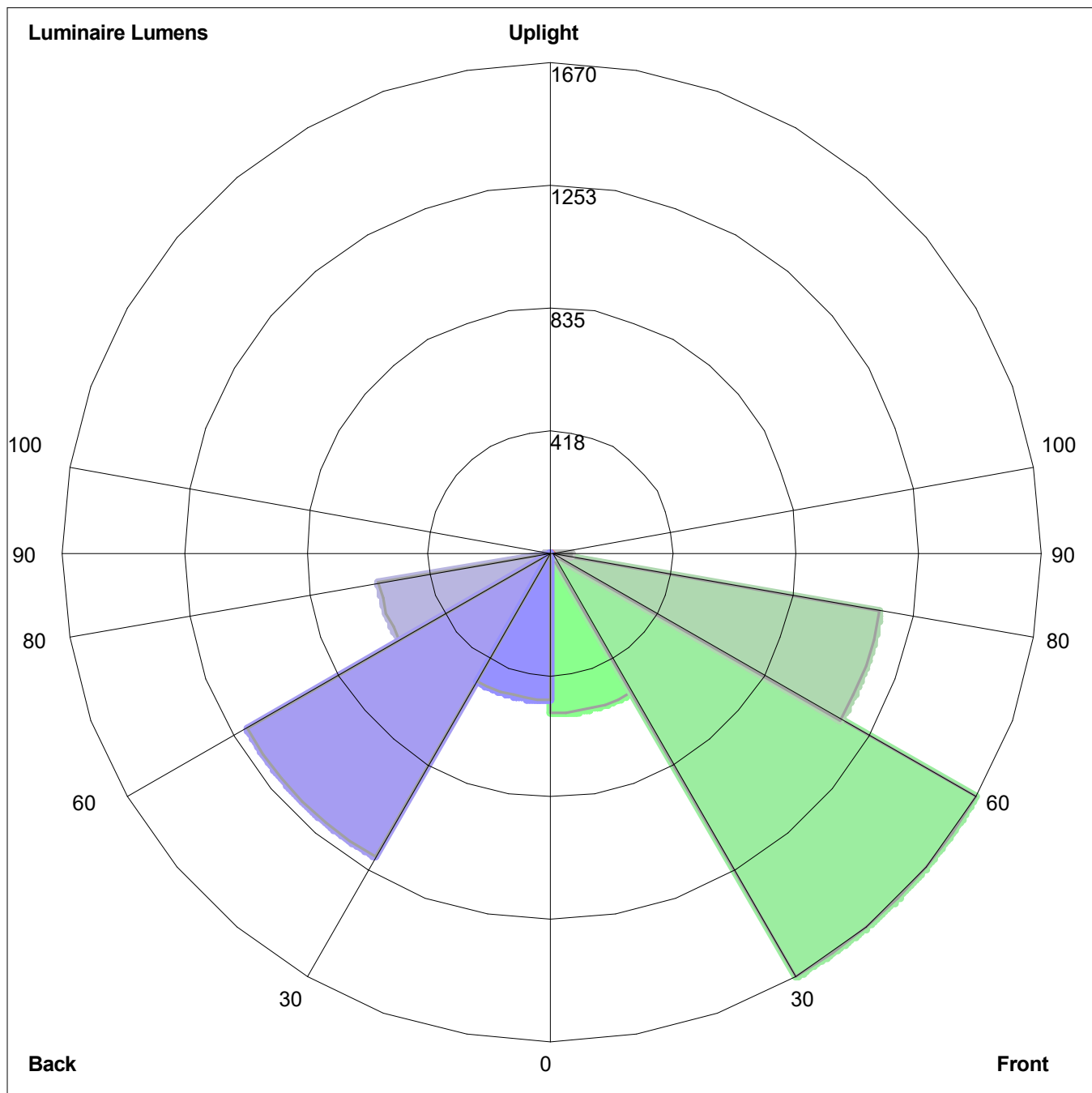


Maximum Candela = 2796 Located At Horizontal Angle = 57.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=549.9, Medium=1670.4, High=1141.4, Very High=69.2
Back: Low=504.6, Medium=1198.4, High=596.9, Very High=24.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2