

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1384906

Luminaire Tested: **VAL-T-SB1D-727-U-SLR**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been  
influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
 Report Number: P1384906  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 02/18/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: VAL-T-SB1D-727-U-SLR  
 Description: GALLEON II WALL SLIM HIGH DENSITY LED ARRAYS 15 SQUARE 76W 70CRI  
 2700K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC  
 Light Source: (26) 2700K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER  
 Luminaire Equipment:

| <u>Sample No.</u> | <u>Condition</u> | <u>Description</u> |
|-------------------|------------------|--------------------|
| a                 | good             | reflector          |
| b                 | good             | lens               |
| c                 | good             | housing            |
| d                 | good             | cord               |

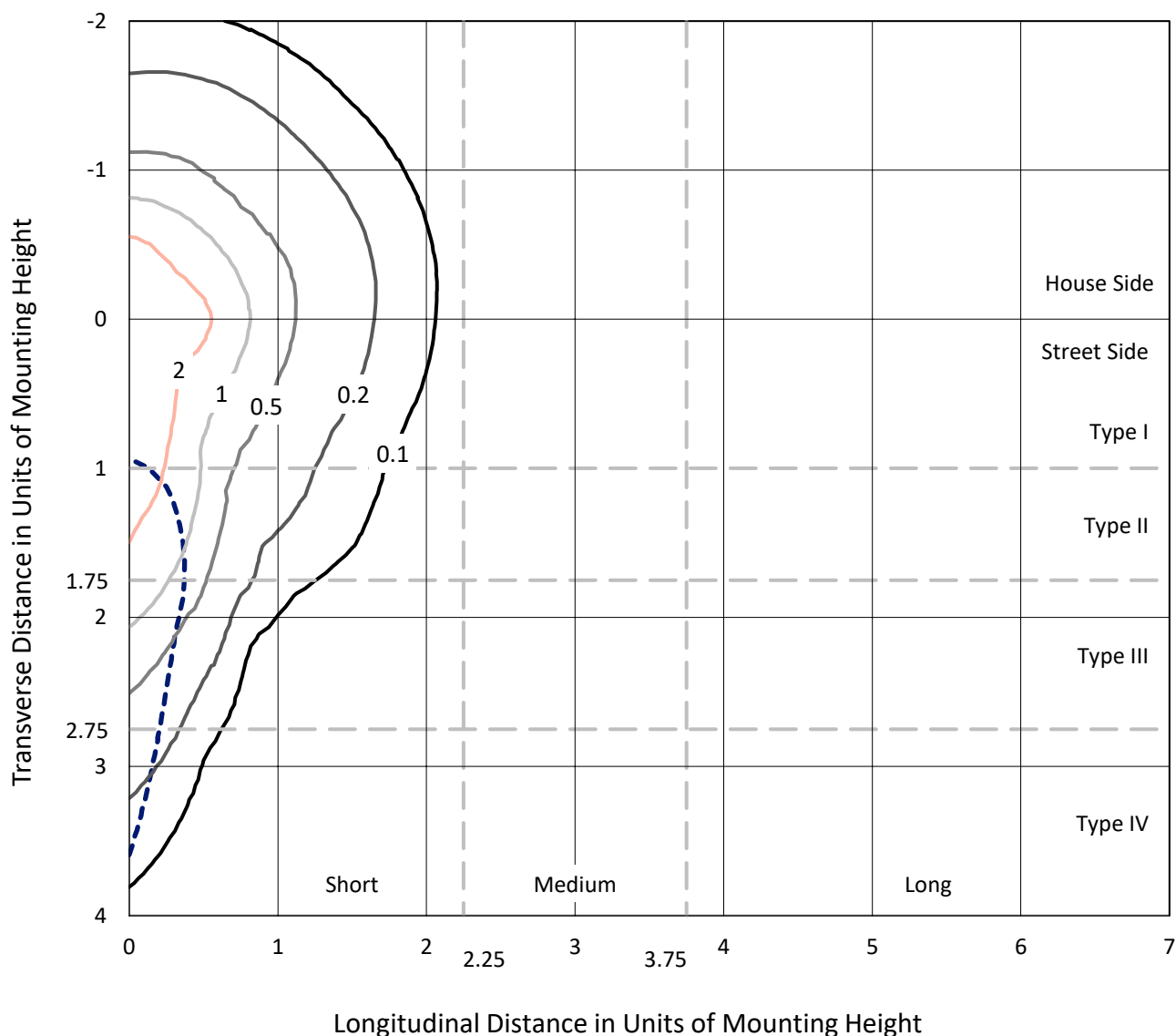
**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 8188.9 lumens  
 Efficiency: N/A  
 Efficacy: 107.7 lumens/watt  
 Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
 IES Classification: Type IV - Short  
 BUG Rating: B2 - U0 - G2  
  
 Input Watts (W): 76  
 Input Voltage (V): 120  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: 0.98  
 Total Harmonic Distortion (THDi): 6.7%  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 28.75 FT

REPORT NUMBER: P1384906  
 CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

## Iso-Footcandle Lines of Horizontal Illumination

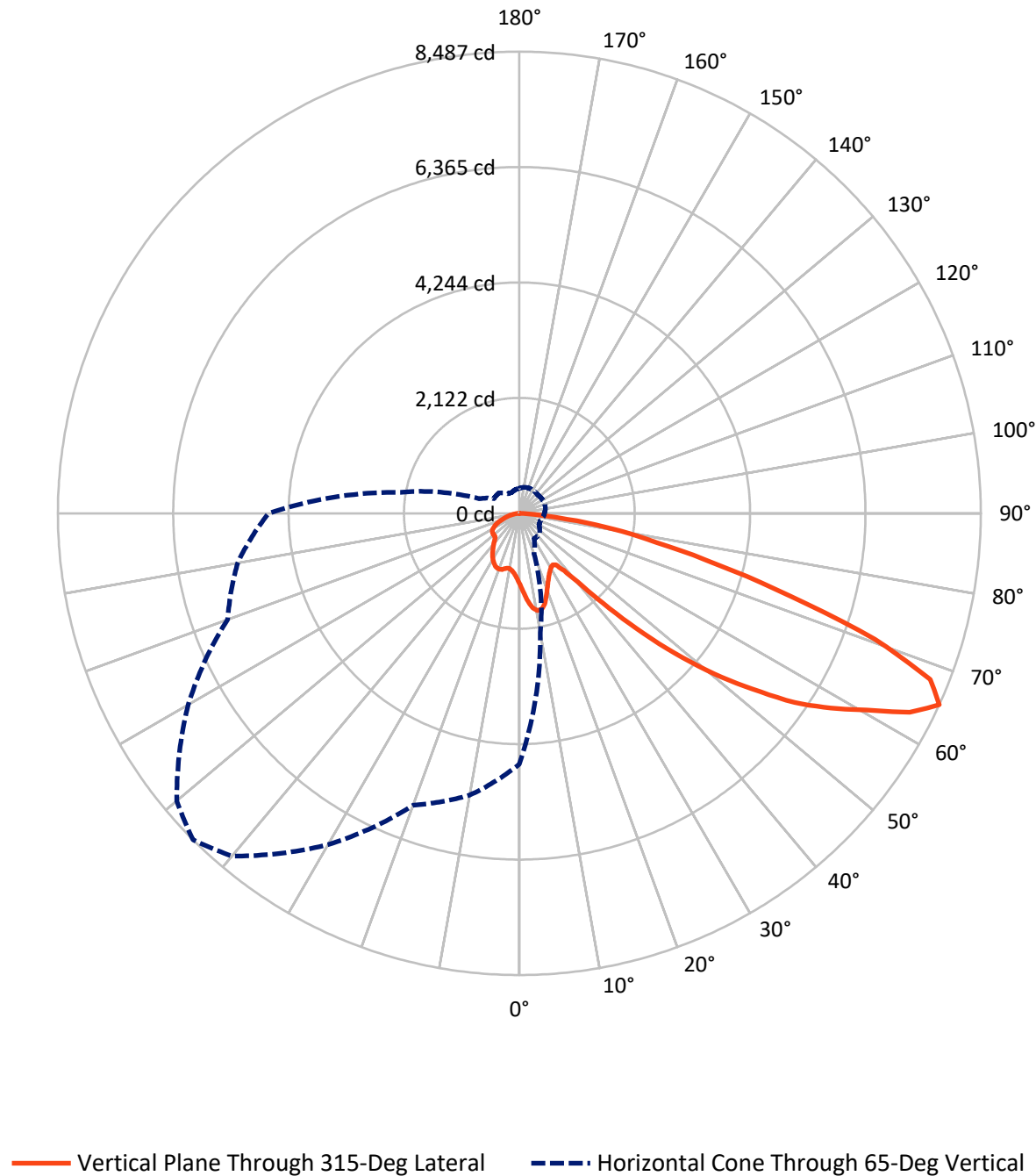
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P1384906  
CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

## Luminous Intensity Polar Plot



REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

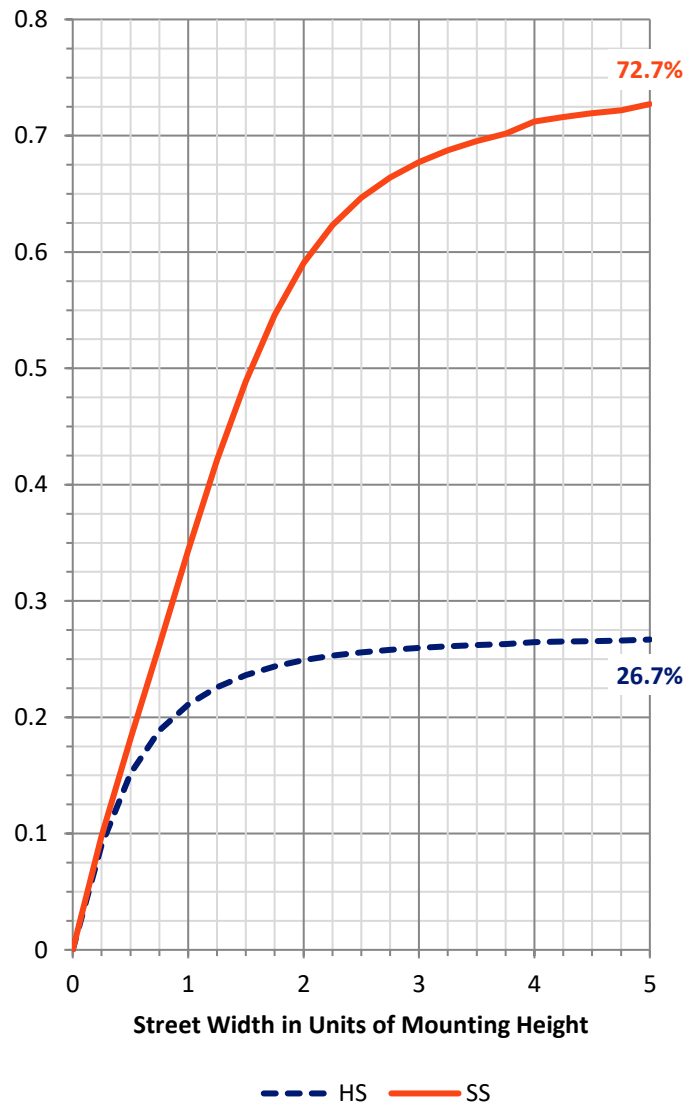
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2203.0   | 0.0    | 2203.0 |
|                    | % Fixture | 26.9     | 0.0    | 26.9   |
| <b>Street Side</b> | Lumens    | 5985.9   | 0.0    | 5985.9 |
|                    | % Fixture | 73.1     | 0.0    | 73.1   |
| <b>Total</b>       | Lumens    | 8188.9   | 0.0    | 8188.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.9  | 1.6       |
| 10°-20°   | 395.1  | 4.8       |
| 20°-30°   | 611.5  | 7.5       |
| 30°-40°   | 758.7  | 9.3       |
| 40°-50°   | 1109.4 | 13.5      |
| 50°-60°   | 1737.8 | 21.2      |
| 60°-70°   | 2062.0 | 25.2      |
| 70°-80°   | 1202.6 | 14.7      |
| 80°-90°   | 183.0  | 2.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 8188.9 | 100.0     |
| 0°-180°   | 8188.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1384906

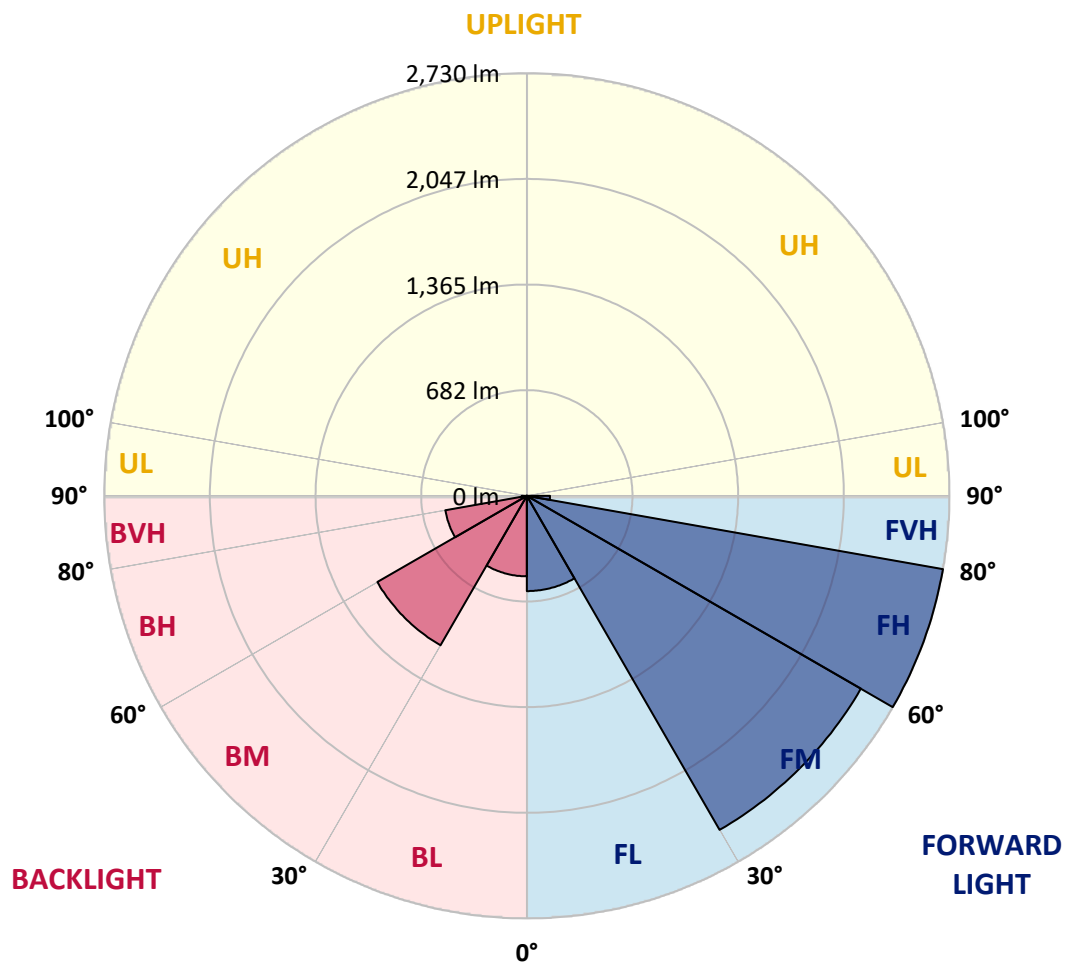
CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 615.5  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 2491.2 | 30.4      |                         |      |         |
| FH   | (60°-80°)   | 2729.6 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 149.6  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 520.1  | 6.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1114.6 | 13.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 535.0  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 33.3   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1410.9 | 1398.1 | 1385.5 | 1373.8 | 1362.2 | 1350.6 | 1338.8 | 1327.6 | 1316.2 | 1304.7 | 1294.7 |
| 5°    | 1507.0 | 1484.4 | 1462.0 | 1438.3 | 1414.9 | 1391.9 | 1368.8 | 1347.0 | 1325.4 | 1302.7 | 1283.3 |
| 7.5°  | 1604.1 | 1566.1 | 1528.0 | 1492.2 | 1456.3 | 1424.3 | 1392.3 | 1363.6 | 1334.8 | 1304.7 | 1281.3 |
| 10°   | 1665.2 | 1619.8 | 1574.1 | 1529.6 | 1485.0 | 1445.5 | 1405.9 | 1372.8 | 1339.8 | 1307.7 | 1282.7 |
| 12.5° | 1696.3 | 1651.0 | 1605.7 | 1555.9 | 1506.0 | 1461.8 | 1417.5 | 1381.0 | 1344.8 | 1309.8 | 1285.3 |
| 15°   | 1711.3 | 1665.4 | 1619.8 | 1569.1 | 1518.4 | 1470.8 | 1422.9 | 1381.8 | 1340.8 | 1301.7 | 1280.1 |
| 17.5° | 1715.3 | 1672.4 | 1629.8 | 1575.7 | 1521.6 | 1467.2 | 1412.9 | 1365.0 | 1317.4 | 1271.7 | 1253.3 |
| 20°   | 1728.3 | 1685.1 | 1641.8 | 1583.7 | 1525.6 | 1461.8 | 1397.9 | 1335.0 | 1272.1 | 1211.6 | 1200.0 |
| 22.5° | 1742.3 | 1702.7 | 1663.2 | 1599.3 | 1535.7 | 1457.5 | 1379.4 | 1300.5 | 1221.6 | 1149.5 | 1138.5 |
| 25°   | 1764.4 | 1730.1 | 1695.9 | 1626.2 | 1556.5 | 1457.1 | 1357.8 | 1259.5 | 1161.2 | 1078.4 | 1077.4 |
| 27.5° | 1796.4 | 1770.2 | 1743.9 | 1665.4 | 1587.1 | 1461.0 | 1334.8 | 1217.4 | 1099.9 | 1015.4 | 1020.4 |
| 30°   | 1841.5 | 1820.8 | 1800.4 | 1711.9 | 1623.2 | 1469.2 | 1315.4 | 1180.8 | 1046.4 | 964.3  | 969.7  |
| 32.5° | 1896.5 | 1883.7 | 1870.9 | 1766.6 | 1662.2 | 1478.4 | 1294.7 | 1148.7 | 1002.9 | 927.2  | 927.2  |
| 35°   | 1989.7 | 1973.6 | 1957.6 | 1824.6 | 1691.9 | 1476.2 | 1260.7 | 1112.3 | 963.7  | 905.2  | 892.8  |
| 37.5° | 2107.8 | 2088.8 | 2069.8 | 1895.5 | 1721.3 | 1470.0 | 1218.6 | 1071.8 | 925.2  | 879.2  | 855.5  |
| 40°   | 2282.0 | 2244.6 | 2206.9 | 1976.6 | 1746.3 | 1455.9 | 1165.6 | 1023.6 | 881.6  | 845.1  | 815.5  |
| 42.5° | 2526.4 | 2447.1 | 2367.6 | 2066.4 | 1764.8 | 1431.7 | 1098.5 | 966.1  | 833.5  | 808.1  | 771.4  |
| 45°   | 2829.8 | 2702.6 | 2575.4 | 2188.1 | 1800.8 | 1415.1 | 1029.4 | 907.6  | 786.1  | 763.0  | 726.6  |
| 47.5° | 3120.2 | 2959.2 | 2798.1 | 2313.3 | 1828.4 | 1395.7 | 962.9  | 849.5  | 736.6  | 709.9  | 675.9  |
| 50°   | 3456.6 | 3238.3 | 3020.0 | 2422.4 | 1824.8 | 1362.6 | 900.2  | 797.9  | 695.3  | 658.9  | 625.2  |
| 52.5° | 3888.2 | 3541.5 | 3194.7 | 2474.1 | 1753.3 | 1294.9 | 836.7  | 751.4  | 666.5  | 619.8  | 583.8  |
| 55°   | 4403.9 | 3846.1 | 3288.4 | 2460.5 | 1632.6 | 1205.2 | 777.4  | 712.6  | 647.3  | 600.8  | 558.3  |
| 57.5° | 4929.6 | 4101.9 | 3274.4 | 2386.2 | 1498.0 | 1111.3 | 724.6  | 679.7  | 634.8  | 595.8  | 543.7  |
| 60°   | 5324.1 | 4216.4 | 3108.6 | 2208.2 | 1307.7 | 992.5  | 677.3  | 645.9  | 614.4  | 583.8  | 531.7  |
| 62.5° | 5160.9 | 3962.3 | 2763.7 | 1916.4 | 1069.0 | 841.9  | 614.8  | 597.2  | 579.8  | 566.8  | 517.1  |
| 65°   | 4610.2 | 3417.6 | 2225.0 | 1503.2 | 781.4  | 661.7  | 541.7  | 537.9  | 534.3  | 530.7  | 489.7  |
| 67.5° | 4093.5 | 2935.1 | 1776.8 | 1169.8 | 562.8  | 505.9  | 449.0  | 459.6  | 470.2  | 475.6  | 447.6  |
| 70°   | 3598.8 | 2493.5 | 1388.3 | 896.4  | 404.5  | 384.5  | 364.5  | 380.3  | 396.1  | 394.5  | 380.9  |
| 72.5° | 3089.1 | 2070.6 | 1051.8 | 673.9  | 296.0  | 295.6  | 295.4  | 307.4  | 319.4  | 303.4  | 312.0  |
| 75°   | 2529.4 | 1653.2 | 777.0  | 499.5  | 221.9  | 220.5  | 219.3  | 233.5  | 247.9  | 254.3  | 259.9  |
| 77.5° | 1682.2 | 1084.6 | 487.1  | 322.8  | 158.6  | 159.8  | 160.6  | 176.2  | 191.9  | 210.3  | 211.3  |
| 80°   | 987.3  | 621.8  | 256.3  | 178.4  | 100.5  | 101.7  | 102.5  | 119.0  | 135.2  | 161.2  | 160.2  |
| 82.5° | 493.7  | 311.6  | 129.8  | 95.9   | 62.1   | 62.3   | 62.5   | 70.5   | 78.5   | 93.1   | 97.1   |
| 85°   | 112.1  | 74.1   | 36.0   | 30.4   | 25.0   | 26.2   | 27.6   | 32.8   | 38.1   | 46.1   | 48.5   |
| 87.5° | 9.0    | 8.8    | 8.4    | 8.2    | 8.0    | 8.4    | 9.0    | 10.0   | 11.0   | 12.0   | 14.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1283.9 | 1273.3 | 1264.9 | 1256.7 | 1249.5 | 1242.1 | 1233.4 | 1224.6 | 1218.4 | 1212.0 | 1207.8 |
| 5°    | 1264.1 | 1245.3 | 1229.6 | 1214.0 | 1201.2 | 1188.0 | 1176.4 | 1164.6 | 1155.3 | 1145.9 | 1138.3 |
| 7.5°  | 1257.9 | 1234.6 | 1214.4 | 1194.0 | 1176.8 | 1159.5 | 1145.1 | 1130.5 | 1116.7 | 1103.1 | 1094.3 |
| 10°   | 1258.1 | 1233.6 | 1212.8 | 1192.0 | 1173.8 | 1155.5 | 1136.5 | 1117.5 | 1102.3 | 1087.1 | 1073.8 |
| 12.5° | 1264.9 | 1244.7 | 1230.0 | 1215.6 | 1198.8 | 1182.0 | 1159.3 | 1136.5 | 1115.9 | 1095.5 | 1079.2 |
| 15°   | 1266.9 | 1253.7 | 1252.5 | 1251.3 | 1245.5 | 1239.7 | 1218.6 | 1197.6 | 1169.2 | 1140.5 | 1117.3 |
| 17.5° | 1251.5 | 1249.7 | 1269.5 | 1289.3 | 1300.7 | 1312.2 | 1297.5 | 1282.7 | 1242.7 | 1202.6 | 1168.0 |
| 20°   | 1211.4 | 1222.6 | 1261.5 | 1300.1 | 1331.0 | 1361.8 | 1360.2 | 1358.8 | 1306.5 | 1254.1 | 1208.6 |
| 22.5° | 1155.3 | 1172.0 | 1222.6 | 1273.3 | 1317.8 | 1362.2 | 1373.6 | 1384.9 | 1333.6 | 1282.1 | 1226.0 |
| 25°   | 1095.7 | 1113.9 | 1160.8 | 1207.6 | 1255.5 | 1303.3 | 1324.6 | 1345.8 | 1303.5 | 1261.3 | 1206.8 |
| 27.5° | 1037.8 | 1055.4 | 1090.3 | 1125.1 | 1163.6 | 1202.0 | 1225.8 | 1249.7 | 1223.8 | 1198.0 | 1153.9 |
| 30°   | 983.3  | 996.9  | 1022.2 | 1047.4 | 1073.4 | 1099.5 | 1118.5 | 1137.5 | 1120.5 | 1103.5 | 1071.8 |
| 32.5° | 933.0  | 938.9  | 955.3  | 971.7  | 991.1  | 1010.4 | 1021.0 | 1031.4 | 1018.2 | 1004.9 | 984.1  |
| 35°   | 888.0  | 883.2  | 894.0  | 904.8  | 920.4  | 936.3  | 944.3  | 952.3  | 941.3  | 930.2  | 911.6  |
| 37.5° | 842.7  | 829.5  | 834.7  | 839.5  | 852.9  | 866.2  | 877.6  | 889.2  | 881.2  | 873.2  | 857.3  |
| 40°   | 796.3  | 777.0  | 776.6  | 776.0  | 788.9  | 801.5  | 815.9  | 830.1  | 828.7  | 827.1  | 812.1  |
| 42.5° | 747.0  | 722.6  | 720.0  | 717.4  | 730.0  | 742.6  | 757.8  | 773.0  | 776.0  | 779.0  | 766.6  |
| 45°   | 701.3  | 676.5  | 672.5  | 668.5  | 679.3  | 690.5  | 707.1  | 724.0  | 731.0  | 738.0  | 726.8  |
| 47.5° | 654.5  | 632.8  | 630.4  | 627.8  | 639.3  | 650.9  | 669.3  | 687.9  | 695.3  | 702.9  | 695.3  |
| 50°   | 607.6  | 589.8  | 592.8  | 595.8  | 608.4  | 620.8  | 635.2  | 649.9  | 663.7  | 677.3  | 675.9  |
| 52.5° | 570.6  | 557.1  | 566.6  | 575.8  | 587.2  | 598.8  | 613.8  | 628.8  | 643.3  | 657.9  | 660.1  |
| 55°   | 543.5  | 528.7  | 541.9  | 555.1  | 569.0  | 582.8  | 596.8  | 610.8  | 624.4  | 637.9  | 640.9  |
| 57.5° | 522.9  | 502.3  | 515.5  | 528.7  | 543.7  | 558.7  | 572.8  | 586.8  | 602.6  | 618.4  | 620.8  |
| 60°   | 505.7  | 479.6  | 488.5  | 497.1  | 512.5  | 527.7  | 542.3  | 556.7  | 572.8  | 588.8  | 592.0  |
| 62.5° | 483.0  | 449.0  | 450.2  | 451.0  | 468.4  | 485.6  | 497.7  | 509.7  | 524.9  | 540.3  | 544.9  |
| 65°   | 453.0  | 416.6  | 412.6  | 408.5  | 425.0  | 441.6  | 451.0  | 460.6  | 473.8  | 487.1  | 491.7  |
| 67.5° | 415.4  | 382.9  | 374.7  | 366.5  | 381.7  | 396.9  | 404.7  | 412.6  | 421.6  | 430.6  | 435.8  |
| 70°   | 361.7  | 342.5  | 337.3  | 332.0  | 344.5  | 356.9  | 363.7  | 370.5  | 377.7  | 384.9  | 387.7  |
| 72.5° | 307.6  | 303.4  | 299.6  | 296.0  | 305.4  | 314.8  | 320.6  | 326.4  | 333.2  | 340.1  | 341.7  |
| 75°   | 257.5  | 255.3  | 252.5  | 249.9  | 257.1  | 264.4  | 268.8  | 273.4  | 280.4  | 287.4  | 290.4  |
| 77.5° | 206.1  | 200.7  | 197.9  | 194.7  | 201.3  | 207.9  | 212.1  | 216.3  | 222.1  | 227.9  | 228.7  |
| 80°   | 153.8  | 147.2  | 145.0  | 142.6  | 147.4  | 152.2  | 153.8  | 155.2  | 160.0  | 164.6  | 164.6  |
| 82.5° | 97.1   | 97.1   | 95.7   | 94.1   | 93.1   | 92.1   | 90.1   | 88.1   | 92.9   | 97.7   | 99.3   |
| 85°   | 48.9   | 49.1   | 46.9   | 44.5   | 41.7   | 38.5   | 37.9   | 37.0   | 36.8   | 36.4   | 37.9   |
| 87.5° | 15.2   | 16.4   | 17.6   | 18.4   | 19.6   | 20.4   | 19.8   | 19.0   | 18.2   | 17.6   | 16.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1203.6 | 1201.6 | 1199.6 | 1198.0 | 1196.6 | 1195.6 | 1196.6 | 1198.0 | 1199.6 | 1201.6 | 1203.6 |
| 5°    | 1130.5 | 1127.3 | 1123.9 | 1121.7 | 1119.5 | 1117.5 | 1119.5 | 1121.7 | 1123.9 | 1127.3 | 1130.5 |
| 7.5°  | 1085.5 | 1080.2 | 1075.0 | 1071.2 | 1067.4 | 1065.4 | 1067.4 | 1071.2 | 1075.0 | 1080.2 | 1085.5 |
| 10°   | 1061.0 | 1053.6 | 1046.4 | 1042.4 | 1038.4 | 1035.4 | 1038.4 | 1042.4 | 1046.4 | 1053.6 | 1061.0 |
| 12.5° | 1063.0 | 1053.8 | 1045.0 | 1039.0 | 1033.0 | 1029.4 | 1033.0 | 1039.0 | 1045.0 | 1053.8 | 1063.0 |
| 15°   | 1093.9 | 1081.0 | 1067.8 | 1060.4 | 1053.0 | 1047.4 | 1053.0 | 1060.4 | 1067.8 | 1081.0 | 1093.9 |
| 17.5° | 1133.5 | 1114.7 | 1095.9 | 1089.3 | 1082.4 | 1079.4 | 1082.4 | 1089.3 | 1095.9 | 1114.7 | 1133.5 |
| 20°   | 1163.2 | 1137.9 | 1113.1 | 1103.1 | 1093.1 | 1089.5 | 1093.1 | 1103.1 | 1113.1 | 1137.9 | 1163.2 |
| 22.5° | 1170.0 | 1140.3 | 1110.5 | 1101.1 | 1091.5 | 1087.5 | 1091.5 | 1101.1 | 1110.5 | 1140.3 | 1170.0 |
| 25°   | 1152.5 | 1121.3 | 1089.9 | 1080.2 | 1070.4 | 1067.4 | 1070.4 | 1080.2 | 1089.9 | 1121.3 | 1152.5 |
| 27.5° | 1109.9 | 1082.2 | 1054.4 | 1044.2 | 1033.8 | 1027.4 | 1033.8 | 1044.2 | 1054.4 | 1082.2 | 1109.9 |
| 30°   | 1040.4 | 1019.8 | 999.3  | 992.9  | 986.3  | 983.3  | 986.3  | 992.9  | 999.3  | 1019.8 | 1040.4 |
| 32.5° | 963.3  | 950.5  | 937.7  | 933.4  | 929.2  | 927.2  | 929.2  | 933.4  | 937.7  | 950.5  | 963.3  |
| 35°   | 893.2  | 884.0  | 874.8  | 871.4  | 868.2  | 865.2  | 868.2  | 871.4  | 874.8  | 884.0  | 893.2  |
| 37.5° | 841.5  | 830.7  | 819.5  | 813.5  | 807.5  | 803.1  | 807.5  | 813.5  | 819.5  | 830.7  | 841.5  |
| 40°   | 797.1  | 781.4  | 766.0  | 757.8  | 749.4  | 745.0  | 749.4  | 757.8  | 766.0  | 781.4  | 797.1  |
| 42.5° | 754.0  | 736.0  | 718.0  | 705.3  | 692.9  | 684.9  | 692.9  | 705.3  | 718.0  | 736.0  | 754.0  |
| 45°   | 715.4  | 695.1  | 674.9  | 659.9  | 644.9  | 634.8  | 644.9  | 659.9  | 674.9  | 695.1  | 715.4  |
| 47.5° | 687.9  | 670.5  | 652.9  | 639.7  | 626.4  | 616.8  | 626.4  | 639.7  | 652.9  | 670.5  | 687.9  |
| 50°   | 674.5  | 660.7  | 646.9  | 634.4  | 621.8  | 612.8  | 621.8  | 634.4  | 646.9  | 660.7  | 674.5  |
| 52.5° | 662.5  | 652.5  | 642.5  | 631.6  | 620.8  | 612.8  | 620.8  | 631.6  | 642.5  | 652.5  | 662.5  |
| 55°   | 643.9  | 636.7  | 629.2  | 621.2  | 613.2  | 606.8  | 613.2  | 621.2  | 629.2  | 636.7  | 643.9  |
| 57.5° | 623.2  | 615.6  | 607.8  | 601.8  | 595.8  | 592.8  | 595.8  | 601.8  | 607.8  | 615.6  | 623.2  |
| 60°   | 595.2  | 589.2  | 583.2  | 577.6  | 571.8  | 566.8  | 571.8  | 577.6  | 583.2  | 589.2  | 595.2  |
| 62.5° | 549.7  | 546.9  | 544.3  | 537.9  | 531.7  | 524.7  | 531.7  | 537.9  | 544.3  | 546.9  | 549.7  |
| 65°   | 496.3  | 494.9  | 493.7  | 489.1  | 484.6  | 476.6  | 484.6  | 489.1  | 493.7  | 494.9  | 496.3  |
| 67.5° | 441.0  | 438.4  | 435.6  | 430.8  | 426.2  | 424.6  | 426.2  | 430.8  | 435.6  | 438.4  | 441.0  |
| 70°   | 390.5  | 386.5  | 382.5  | 371.7  | 360.9  | 348.5  | 360.9  | 371.7  | 382.5  | 386.5  | 390.5  |
| 72.5° | 343.5  | 337.3  | 330.8  | 318.2  | 305.4  | 292.4  | 305.4  | 318.2  | 330.8  | 337.3  | 343.5  |
| 75°   | 293.4  | 284.6  | 276.0  | 262.6  | 249.3  | 240.3  | 249.3  | 262.6  | 276.0  | 284.6  | 293.4  |
| 77.5° | 229.9  | 222.3  | 214.7  | 206.7  | 198.7  | 194.3  | 198.7  | 206.7  | 214.7  | 222.3  | 229.9  |
| 80°   | 164.6  | 159.0  | 153.2  | 149.2  | 145.2  | 142.2  | 145.2  | 149.2  | 153.2  | 159.0  | 164.6  |
| 82.5° | 101.1  | 98.5   | 96.1   | 91.7   | 87.1   | 84.1   | 87.1   | 91.7   | 96.1   | 98.5   | 101.1  |
| 85°   | 39.1   | 38.5   | 38.1   | 36.4   | 35.0   | 34.0   | 35.0   | 36.4   | 38.1   | 38.5   | 39.1   |
| 87.5° | 14.4   | 13.2   | 12.0   | 11.2   | 10.4   | 10.0   | 10.4   | 11.2   | 12.0   | 13.2   | 14.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1207.8 | 1212.0 | 1218.4 | 1224.6 | 1233.4 | 1242.1 | 1249.5 | 1256.7 | 1264.9 | 1273.3 | 1283.9 |
| 5°    | 1138.3 | 1145.9 | 1155.3 | 1164.6 | 1176.4 | 1188.0 | 1201.2 | 1214.0 | 1229.6 | 1245.3 | 1264.1 |
| 7.5°  | 1094.3 | 1103.1 | 1116.7 | 1130.5 | 1145.1 | 1159.5 | 1176.8 | 1194.0 | 1214.4 | 1234.6 | 1257.9 |
| 10°   | 1073.8 | 1087.1 | 1102.3 | 1117.5 | 1136.5 | 1155.5 | 1173.8 | 1192.0 | 1212.8 | 1233.6 | 1258.1 |
| 12.5° | 1079.2 | 1095.5 | 1115.9 | 1136.5 | 1159.3 | 1182.0 | 1198.8 | 1215.6 | 1230.0 | 1244.7 | 1264.9 |
| 15°   | 1117.3 | 1140.5 | 1169.2 | 1197.6 | 1218.6 | 1239.7 | 1245.5 | 1251.3 | 1252.5 | 1253.7 | 1266.9 |
| 17.5° | 1168.0 | 1202.6 | 1242.7 | 1282.7 | 1297.5 | 1312.2 | 1300.7 | 1289.3 | 1269.5 | 1249.7 | 1251.5 |
| 20°   | 1208.6 | 1254.1 | 1306.5 | 1358.8 | 1360.2 | 1361.8 | 1331.0 | 1300.1 | 1261.5 | 1222.6 | 1211.4 |
| 22.5° | 1226.0 | 1282.1 | 1333.6 | 1384.9 | 1373.6 | 1362.2 | 1317.8 | 1273.3 | 1222.6 | 1172.0 | 1155.3 |
| 25°   | 1206.8 | 1261.3 | 1303.5 | 1345.8 | 1324.6 | 1303.3 | 1255.5 | 1207.6 | 1160.8 | 1113.9 | 1095.7 |
| 27.5° | 1153.9 | 1198.0 | 1223.8 | 1249.7 | 1225.8 | 1202.0 | 1163.6 | 1125.1 | 1090.3 | 1055.4 | 1037.8 |
| 30°   | 1071.8 | 1103.5 | 1120.5 | 1137.5 | 1118.5 | 1099.5 | 1073.4 | 1047.4 | 1022.2 | 996.9  | 983.3  |
| 32.5° | 984.1  | 1004.9 | 1018.2 | 1031.4 | 1021.0 | 1010.4 | 991.1  | 971.7  | 955.3  | 938.9  | 933.0  |
| 35°   | 911.6  | 930.2  | 941.3  | 952.3  | 944.3  | 936.3  | 920.4  | 904.8  | 894.0  | 883.2  | 888.0  |
| 37.5° | 857.3  | 873.2  | 881.2  | 889.2  | 877.6  | 866.2  | 852.9  | 839.5  | 834.7  | 829.5  | 842.7  |
| 40°   | 812.1  | 827.1  | 828.7  | 830.1  | 815.9  | 801.5  | 788.9  | 776.0  | 776.6  | 777.0  | 796.3  |
| 42.5° | 766.6  | 779.0  | 776.0  | 773.0  | 757.8  | 742.6  | 730.0  | 717.4  | 720.0  | 722.6  | 747.0  |
| 45°   | 726.8  | 738.0  | 731.0  | 724.0  | 707.1  | 690.5  | 679.3  | 668.5  | 672.5  | 676.5  | 701.3  |
| 47.5° | 695.3  | 702.9  | 695.3  | 687.9  | 669.3  | 650.9  | 639.3  | 627.8  | 630.4  | 632.8  | 654.5  |
| 50°   | 675.9  | 677.3  | 663.7  | 649.9  | 635.2  | 620.8  | 608.4  | 595.8  | 592.8  | 589.8  | 607.6  |
| 52.5° | 660.1  | 657.9  | 643.3  | 628.8  | 613.8  | 598.8  | 587.2  | 575.8  | 566.6  | 557.1  | 570.6  |
| 55°   | 640.9  | 637.9  | 624.4  | 610.8  | 596.8  | 582.8  | 569.0  | 555.1  | 541.9  | 528.7  | 543.5  |
| 57.5° | 620.8  | 618.4  | 602.6  | 586.8  | 572.8  | 558.7  | 543.7  | 528.7  | 515.5  | 502.3  | 522.9  |
| 60°   | 592.0  | 588.8  | 572.8  | 556.7  | 542.3  | 527.7  | 512.5  | 497.1  | 488.5  | 479.6  | 505.7  |
| 62.5° | 544.9  | 540.3  | 524.9  | 509.7  | 497.7  | 485.6  | 468.4  | 451.0  | 450.2  | 449.0  | 483.0  |
| 65°   | 491.7  | 487.1  | 473.8  | 460.6  | 451.0  | 441.6  | 425.0  | 408.5  | 412.6  | 416.6  | 453.0  |
| 67.5° | 435.8  | 430.6  | 421.6  | 412.6  | 404.7  | 396.9  | 381.7  | 366.5  | 374.7  | 382.9  | 415.4  |
| 70°   | 387.7  | 384.9  | 377.7  | 370.5  | 363.7  | 356.9  | 344.5  | 332.0  | 337.3  | 342.5  | 361.7  |
| 72.5° | 341.7  | 340.1  | 333.2  | 326.4  | 320.6  | 314.8  | 305.4  | 296.0  | 299.6  | 303.4  | 307.6  |
| 75°   | 290.4  | 287.4  | 280.4  | 273.4  | 268.8  | 264.4  | 257.1  | 249.9  | 252.5  | 255.3  | 257.5  |
| 77.5° | 228.7  | 227.9  | 222.1  | 216.3  | 212.1  | 207.9  | 201.3  | 194.7  | 197.9  | 200.7  | 206.1  |
| 80°   | 164.6  | 164.6  | 160.0  | 155.2  | 153.8  | 152.2  | 147.4  | 142.6  | 145.0  | 147.2  | 153.8  |
| 82.5° | 99.3   | 97.7   | 92.9   | 88.1   | 90.1   | 92.1   | 93.1   | 94.1   | 95.7   | 97.1   | 97.1   |
| 85°   | 37.9   | 36.4   | 36.8   | 37.0   | 37.9   | 38.5   | 41.7   | 44.5   | 46.9   | 49.1   | 48.9   |
| 87.5° | 16.0   | 17.6   | 18.2   | 19.0   | 19.8   | 20.4   | 19.6   | 18.4   | 17.6   | 16.4   | 15.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1294.7 | 1304.7 | 1316.2 | 1327.6 | 1338.8 | 1350.6 | 1362.2 | 1373.8 | 1385.5 | 1398.1 | 1410.9 |
| 5°    | 1283.3 | 1302.7 | 1325.4 | 1347.0 | 1368.8 | 1391.9 | 1414.9 | 1438.3 | 1462.0 | 1484.4 | 1507.0 |
| 7.5°  | 1281.3 | 1304.7 | 1334.8 | 1363.6 | 1392.3 | 1424.3 | 1456.3 | 1492.2 | 1528.0 | 1566.1 | 1604.1 |
| 10°   | 1282.7 | 1307.7 | 1339.8 | 1372.8 | 1405.9 | 1445.5 | 1485.0 | 1529.6 | 1574.1 | 1619.8 | 1665.2 |
| 12.5° | 1285.3 | 1309.8 | 1344.8 | 1381.0 | 1417.5 | 1461.8 | 1506.0 | 1555.9 | 1605.7 | 1651.0 | 1696.3 |
| 15°   | 1280.1 | 1301.7 | 1340.8 | 1381.8 | 1422.9 | 1470.8 | 1518.4 | 1569.1 | 1619.8 | 1665.4 | 1711.3 |
| 17.5° | 1253.3 | 1271.7 | 1317.4 | 1365.0 | 1412.9 | 1467.2 | 1521.6 | 1575.7 | 1629.8 | 1672.4 | 1715.3 |
| 20°   | 1200.0 | 1211.6 | 1272.1 | 1335.0 | 1397.9 | 1461.8 | 1525.6 | 1583.7 | 1641.8 | 1685.1 | 1728.3 |
| 22.5° | 1138.5 | 1149.5 | 1221.6 | 1300.5 | 1379.4 | 1457.5 | 1535.7 | 1599.3 | 1663.2 | 1702.7 | 1742.3 |
| 25°   | 1077.4 | 1078.4 | 1161.2 | 1259.5 | 1357.8 | 1457.1 | 1556.5 | 1626.2 | 1695.9 | 1730.1 | 1764.4 |
| 27.5° | 1020.4 | 1015.4 | 1099.9 | 1217.4 | 1334.8 | 1461.0 | 1587.1 | 1665.4 | 1743.9 | 1770.2 | 1796.4 |
| 30°   | 969.7  | 964.3  | 1046.4 | 1180.8 | 1315.4 | 1469.2 | 1623.2 | 1711.9 | 1800.4 | 1820.8 | 1841.5 |
| 32.5° | 927.2  | 927.2  | 1002.9 | 1148.7 | 1294.7 | 1478.4 | 1662.2 | 1766.6 | 1870.9 | 1883.7 | 1896.5 |
| 35°   | 892.8  | 905.2  | 963.7  | 1112.3 | 1260.7 | 1476.2 | 1691.9 | 1824.6 | 1957.6 | 1973.6 | 1989.7 |
| 37.5° | 855.5  | 879.2  | 925.2  | 1071.8 | 1218.6 | 1470.0 | 1721.3 | 1895.5 | 2069.8 | 2088.8 | 2107.8 |
| 40°   | 815.5  | 845.1  | 881.6  | 1023.6 | 1165.6 | 1455.9 | 1746.3 | 1976.6 | 2206.9 | 2244.6 | 2282.0 |
| 42.5° | 771.4  | 808.1  | 833.5  | 966.1  | 1098.5 | 1431.7 | 1764.8 | 2066.4 | 2367.6 | 2447.1 | 2526.4 |
| 45°   | 726.6  | 763.0  | 786.1  | 907.6  | 1029.4 | 1415.1 | 1800.8 | 2188.1 | 2575.4 | 2702.6 | 2829.8 |
| 47.5° | 675.9  | 709.9  | 736.6  | 849.5  | 962.9  | 1395.7 | 1828.4 | 2313.3 | 2798.1 | 2959.2 | 3120.2 |
| 50°   | 625.2  | 658.9  | 695.3  | 797.9  | 900.2  | 1362.6 | 1824.8 | 2422.4 | 3020.0 | 3238.3 | 3456.6 |
| 52.5° | 583.8  | 619.8  | 666.5  | 751.4  | 836.7  | 1294.9 | 1753.3 | 2474.1 | 3194.7 | 3541.5 | 3888.2 |
| 55°   | 558.3  | 600.8  | 647.3  | 712.6  | 777.4  | 1205.2 | 1632.6 | 2460.5 | 3288.4 | 3846.1 | 4403.9 |
| 57.5° | 543.7  | 595.8  | 634.8  | 679.7  | 724.6  | 1111.3 | 1498.0 | 2386.2 | 3274.4 | 4101.9 | 4929.6 |
| 60°   | 531.7  | 583.8  | 614.4  | 645.9  | 677.3  | 992.5  | 1307.7 | 2208.2 | 3108.6 | 4216.4 | 5324.1 |
| 62.5° | 517.1  | 566.8  | 579.8  | 597.2  | 614.8  | 841.9  | 1069.0 | 1916.4 | 2763.7 | 3962.3 | 5160.9 |
| 65°   | 489.7  | 530.7  | 534.3  | 537.9  | 541.7  | 661.7  | 781.4  | 1503.2 | 2225.0 | 3417.6 | 4610.2 |
| 67.5° | 447.6  | 475.6  | 470.2  | 459.6  | 449.0  | 505.9  | 562.8  | 1169.8 | 1776.8 | 2935.1 | 4093.5 |
| 70°   | 380.9  | 394.5  | 396.1  | 380.3  | 364.5  | 384.5  | 404.5  | 896.4  | 1388.3 | 2493.5 | 3598.8 |
| 72.5° | 312.0  | 303.4  | 319.4  | 307.4  | 295.4  | 295.6  | 296.0  | 673.9  | 1051.8 | 2070.6 | 3089.1 |
| 75°   | 259.9  | 254.3  | 247.9  | 233.5  | 219.3  | 220.5  | 221.9  | 499.5  | 777.0  | 1653.2 | 2529.4 |
| 77.5° | 211.3  | 210.3  | 191.9  | 176.2  | 160.6  | 159.8  | 158.6  | 322.8  | 487.1  | 1084.6 | 1682.2 |
| 80°   | 160.2  | 161.2  | 135.2  | 119.0  | 102.5  | 101.7  | 100.5  | 178.4  | 256.3  | 621.8  | 987.3  |
| 82.5° | 97.1   | 93.1   | 78.5   | 70.5   | 62.5   | 62.3   | 62.1   | 95.9   | 129.8  | 311.6  | 493.7  |
| 85°   | 48.5   | 46.1   | 38.1   | 32.8   | 27.6   | 26.2   | 25.0   | 30.4   | 36.0   | 74.1   | 112.1  |
| 87.5° | 14.0   | 12.0   | 11.0   | 10.0   | 9.0    | 8.4    | 8.0    | 8.2    | 8.4    | 8.8    | 9.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1415.9 | 1420.9 | 1426.3 | 1431.9 | 1435.1 | 1438.3 | 1441.7 | 1444.9 | 1447.9 | 1444.9 | 1441.7 |
| 5°    | 1529.6 | 1552.1 | 1567.3 | 1582.5 | 1594.1 | 1605.7 | 1612.4 | 1619.2 | 1620.2 | 1619.2 | 1612.4 |
| 7.5°  | 1631.0 | 1657.8 | 1681.0 | 1704.3 | 1719.1 | 1733.9 | 1742.5 | 1751.3 | 1754.3 | 1751.3 | 1742.5 |
| 10°   | 1696.7 | 1728.3 | 1750.7 | 1773.4 | 1787.2 | 1800.8 | 1807.6 | 1814.4 | 1816.4 | 1814.4 | 1807.6 |
| 12.5° | 1726.5 | 1756.7 | 1774.2 | 1791.4 | 1800.2 | 1808.8 | 1812.0 | 1814.8 | 1812.4 | 1814.8 | 1812.0 |
| 15°   | 1729.1 | 1746.7 | 1754.1 | 1761.4 | 1757.1 | 1752.7 | 1746.5 | 1740.3 | 1736.3 | 1740.3 | 1746.5 |
| 17.5° | 1721.5 | 1727.9 | 1714.5 | 1701.3 | 1677.2 | 1653.2 | 1635.2 | 1617.2 | 1604.1 | 1617.2 | 1635.2 |
| 20°   | 1718.3 | 1708.3 | 1672.6 | 1637.2 | 1592.1 | 1547.1 | 1516.8 | 1486.4 | 1468.0 | 1486.4 | 1516.8 |
| 22.5° | 1714.1 | 1685.9 | 1626.0 | 1566.1 | 1504.4 | 1442.9 | 1408.1 | 1373.4 | 1353.8 | 1373.4 | 1408.1 |
| 25°   | 1715.9 | 1667.2 | 1586.3 | 1505.6 | 1433.1 | 1360.8 | 1323.0 | 1285.3 | 1263.7 | 1285.3 | 1323.0 |
| 27.5° | 1722.3 | 1648.2 | 1548.1 | 1447.9 | 1369.4 | 1290.7 | 1254.7 | 1218.6 | 1199.6 | 1218.6 | 1254.7 |
| 30°   | 1743.1 | 1644.6 | 1524.8 | 1404.9 | 1322.8 | 1240.7 | 1205.4 | 1170.0 | 1149.5 | 1170.0 | 1205.4 |
| 32.5° | 1772.4 | 1648.2 | 1514.0 | 1379.8 | 1296.1 | 1212.6 | 1178.8 | 1145.1 | 1127.5 | 1145.1 | 1178.8 |
| 35°   | 1832.4 | 1675.2 | 1526.4 | 1377.8 | 1300.1 | 1222.6 | 1197.8 | 1173.2 | 1163.6 | 1173.2 | 1197.8 |
| 37.5° | 1924.2 | 1740.3 | 1587.1 | 1433.9 | 1381.0 | 1328.2 | 1328.2 | 1328.2 | 1335.8 | 1328.2 | 1328.2 |
| 40°   | 2075.8 | 1869.5 | 1724.5 | 1579.7 | 1576.5 | 1573.7 | 1607.3 | 1641.2 | 1656.2 | 1641.2 | 1607.3 |
| 42.5° | 2308.3 | 2090.4 | 1973.4 | 1856.5 | 1926.6 | 1996.7 | 2094.0 | 2191.3 | 2255.0 | 2191.3 | 2094.0 |
| 45°   | 2617.5 | 2405.2 | 2323.5 | 2242.0 | 2398.0 | 2553.8 | 2725.8 | 2897.9 | 3020.0 | 2897.9 | 2725.8 |
| 47.5° | 2941.5 | 2762.7 | 2716.0 | 2669.6 | 2928.9 | 3188.3 | 3440.4 | 3692.5 | 3841.1 | 3692.5 | 3440.4 |
| 50°   | 3296.0 | 3135.2 | 3126.2 | 3117.2 | 3462.6 | 3808.1 | 4133.5 | 4459.0 | 4640.2 | 4459.0 | 4133.5 |
| 52.5° | 3711.8 | 3535.1 | 3542.3 | 3549.1 | 3959.5 | 4369.8 | 4763.4 | 5156.9 | 5361.2 | 5156.9 | 4763.4 |
| 55°   | 4182.6 | 3961.3 | 3960.1 | 3958.9 | 4430.3 | 4902.2 | 5385.6 | 5869.4 | 6142.2 | 5869.4 | 5385.6 |
| 57.5° | 4722.3 | 4515.0 | 4465.8 | 4416.3 | 4909.4 | 5402.2 | 5936.1 | 6470.2 | 6757.0 | 6470.2 | 5936.1 |
| 60°   | 5210.0 | 5095.8 | 5016.9 | 4938.2 | 5444.5 | 5951.0 | 6502.5 | 7053.8 | 7339.8 | 7053.8 | 6502.5 |
| 62.5° | 5365.0 | 5569.0 | 5563.2 | 5557.4 | 6104.0 | 6650.5 | 7224.1 | 7798.0 | 8054.8 | 7798.0 | 7224.1 |
| 65°   | 4935.6 | 5261.0 | 5484.9 | 5708.6 | 6369.3 | 7029.8 | 7627.4 | 8225.0 | 8487.3 | 8225.0 | 7627.4 |
| 67.5° | 4380.3 | 4667.2 | 4850.5 | 5033.7 | 5778.1 | 6522.7 | 7200.8 | 7878.9 | 8148.9 | 7878.9 | 7200.8 |
| 70°   | 3916.4 | 4234.1 | 4365.0 | 4496.0 | 5128.5 | 5760.7 | 6297.2 | 6833.5 | 6939.3 | 6833.5 | 6297.2 |
| 72.5° | 3466.8 | 3844.7 | 3900.2 | 3955.7 | 4415.9 | 4876.1 | 5161.9 | 5447.7 | 5217.0 | 5447.7 | 5161.9 |
| 75°   | 2955.5 | 3381.5 | 3418.6 | 3455.6 | 3599.0 | 3742.6 | 3815.3 | 3888.2 | 3757.0 | 3888.2 | 3815.3 |
| 77.5° | 2051.1 | 2420.2 | 2503.3 | 2586.5 | 2682.0 | 2777.7 | 2772.7 | 2767.7 | 2583.5 | 2767.7 | 2772.7 |
| 80°   | 1275.9 | 1564.5 | 1575.3 | 1586.1 | 1657.8 | 1729.3 | 1802.4 | 1875.5 | 1758.3 | 1875.5 | 1802.4 |
| 82.5° | 652.1  | 810.7  | 835.1  | 859.5  | 903.4  | 947.3  | 967.7  | 988.3  | 889.2  | 988.3  | 967.7  |
| 85°   | 153.4  | 194.7  | 234.5  | 274.4  | 320.4  | 366.5  | 361.3  | 356.1  | 300.4  | 356.1  | 361.3  |
| 87.5° | 9.2    | 9.6    | 9.8    | 10.0   | 10.2   | 10.4   | 11.0   | 11.6   | 12.0   | 11.6   | 11.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P1384906

CATALOG NUMBER: VAL-T-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 | 1305.7 |
| 2.5°  | 1438.3 | 1435.1 | 1431.9 | 1426.3 | 1420.9 | 1415.9 | 1410.9 |
| 5°    | 1605.7 | 1594.1 | 1582.5 | 1567.3 | 1552.1 | 1529.6 | 1507.0 |
| 7.5°  | 1733.9 | 1719.1 | 1704.3 | 1681.0 | 1657.8 | 1631.0 | 1604.1 |
| 10°   | 1800.8 | 1787.2 | 1773.4 | 1750.7 | 1728.3 | 1696.7 | 1665.2 |
| 12.5° | 1808.8 | 1800.2 | 1791.4 | 1774.2 | 1756.7 | 1726.5 | 1696.3 |
| 15°   | 1752.7 | 1757.1 | 1761.4 | 1754.1 | 1746.7 | 1729.1 | 1711.3 |
| 17.5° | 1653.2 | 1677.2 | 1701.3 | 1714.5 | 1727.9 | 1721.5 | 1715.3 |
| 20°   | 1547.1 | 1592.1 | 1637.2 | 1672.6 | 1708.3 | 1718.3 | 1728.3 |
| 22.5° | 1442.9 | 1504.4 | 1566.1 | 1626.0 | 1685.9 | 1714.1 | 1742.3 |
| 25°   | 1360.8 | 1433.1 | 1505.6 | 1586.3 | 1667.2 | 1715.9 | 1764.4 |
| 27.5° | 1290.7 | 1369.4 | 1447.9 | 1548.1 | 1648.2 | 1722.3 | 1796.4 |
| 30°   | 1240.7 | 1322.8 | 1404.9 | 1524.8 | 1644.6 | 1743.1 | 1841.5 |
| 32.5° | 1212.6 | 1296.1 | 1379.8 | 1514.0 | 1648.2 | 1772.4 | 1896.5 |
| 35°   | 1222.6 | 1300.1 | 1377.8 | 1526.4 | 1675.2 | 1832.4 | 1989.7 |
| 37.5° | 1328.2 | 1381.0 | 1433.9 | 1587.1 | 1740.3 | 1924.2 | 2107.8 |
| 40°   | 1573.7 | 1576.5 | 1579.7 | 1724.5 | 1869.5 | 2075.8 | 2282.0 |
| 42.5° | 1996.7 | 1926.6 | 1856.5 | 1973.4 | 2090.4 | 2308.3 | 2526.4 |
| 45°   | 2553.8 | 2398.0 | 2242.0 | 2323.5 | 2405.2 | 2617.5 | 2829.8 |
| 47.5° | 3188.3 | 2928.9 | 2669.6 | 2716.0 | 2762.7 | 2941.5 | 3120.2 |
| 50°   | 3808.1 | 3462.6 | 3117.2 | 3126.2 | 3135.2 | 3296.0 | 3456.6 |
| 52.5° | 4369.8 | 3959.5 | 3549.1 | 3542.3 | 3535.1 | 3711.8 | 3888.2 |
| 55°   | 4902.2 | 4430.3 | 3958.9 | 3960.1 | 3961.3 | 4182.6 | 4403.9 |
| 57.5° | 5402.2 | 4909.4 | 4416.3 | 4465.8 | 4515.0 | 4722.3 | 4929.6 |
| 60°   | 5951.0 | 5444.5 | 4938.2 | 5016.9 | 5095.8 | 5210.0 | 5324.1 |
| 62.5° | 6650.5 | 6104.0 | 5557.4 | 5563.2 | 5569.0 | 5365.0 | 5160.9 |
| 65°   | 7029.8 | 6369.3 | 5708.6 | 5484.9 | 5261.0 | 4935.6 | 4610.2 |
| 67.5° | 6522.7 | 5778.1 | 5033.7 | 4850.5 | 4667.2 | 4380.3 | 4093.5 |
| 70°   | 5760.7 | 5128.5 | 4496.0 | 4365.0 | 4234.1 | 3916.4 | 3598.8 |
| 72.5° | 4876.1 | 4415.9 | 3955.7 | 3900.2 | 3844.7 | 3466.8 | 3089.1 |
| 75°   | 3742.6 | 3599.0 | 3455.6 | 3418.6 | 3381.5 | 2955.5 | 2529.4 |
| 77.5° | 2777.7 | 2682.0 | 2586.5 | 2503.3 | 2420.2 | 2051.1 | 1682.2 |
| 80°   | 1729.3 | 1657.8 | 1586.1 | 1575.3 | 1564.5 | 1275.9 | 987.3  |
| 82.5° | 947.3  | 903.4  | 859.5  | 835.1  | 810.7  | 652.1  | 493.7  |
| 85°   | 366.5  | 320.4  | 274.4  | 234.5  | 194.7  | 153.4  | 112.1  |
| 87.5° | 10.4   | 10.2   | 10.0   | 9.8    | 9.6    | 9.2    | 9.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

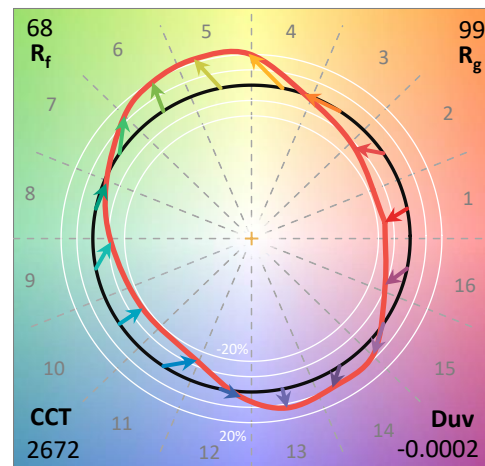
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-727-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2672     | CRI (Ra): | 71.1 |      |       |
| CIE u':                   | 0.2638   | R1:       | 68.3 | R9:  | -27.8 |
| CIE v':                   | 0.5276   | R2:       | 79.8 | R10: | 54.4  |
| Duv:                      | -0.0002  | R3:       | 91.2 | R11: | 65.8  |
| CIE x:                    | 0.4619   | R4:       | 69.4 | R12: | 45.6  |
| CIE y:                    | 0.4106   | R5:       | 66.5 | R13: | 69.8  |
| CIE z:                    | 0.1275   | R6:       | 72.6 | R14: | 94.5  |
| Peak Wavelength (nm):     | 601      | R7:       | 77.0 | R15: | 60.1  |
| Dominant Wavelength (nm): | 584      | R8:       | 44.1 |      |       |
| Purity:                   | 61.88407 |           |      |      |       |
| Rf:                       | 67.9     |           |      |      |       |
| Rg:                       | 98.6     |           |      |      |       |



### Test Conditions

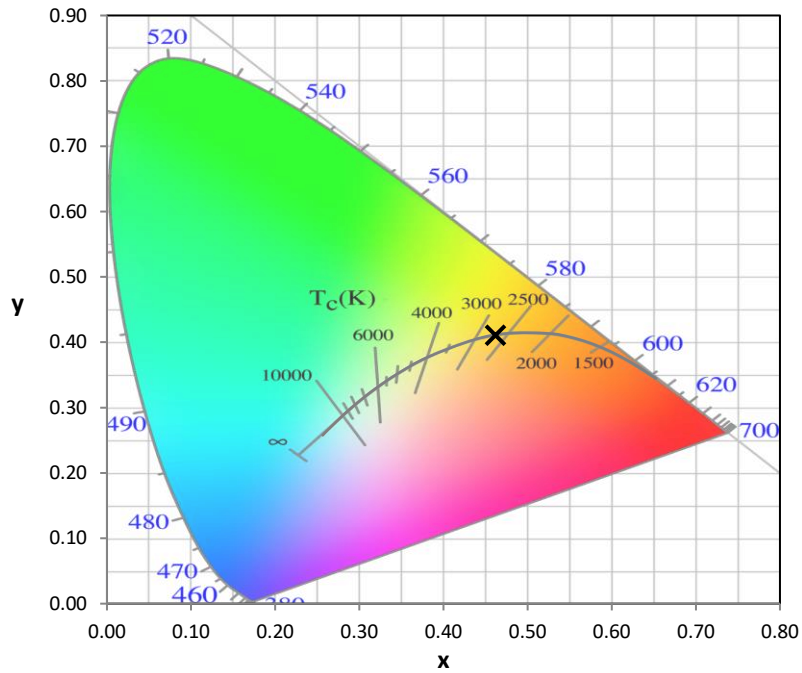
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

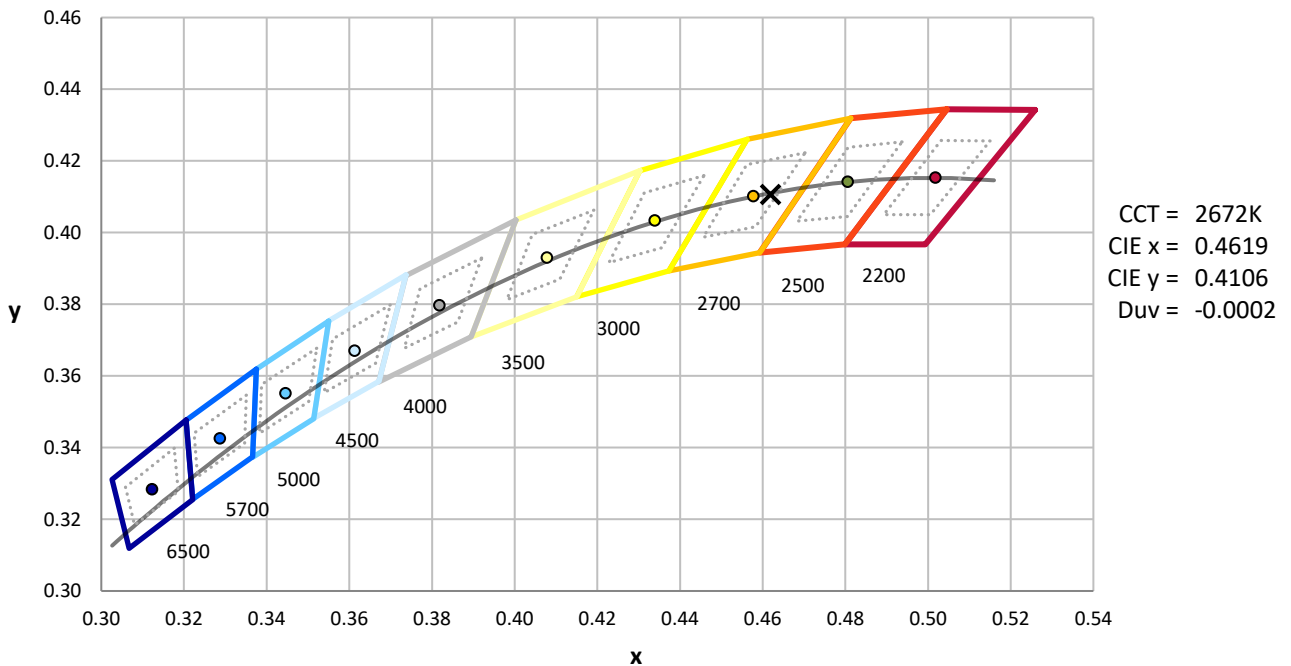
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |

REPORT NUMBER: SP1-2407-184-3

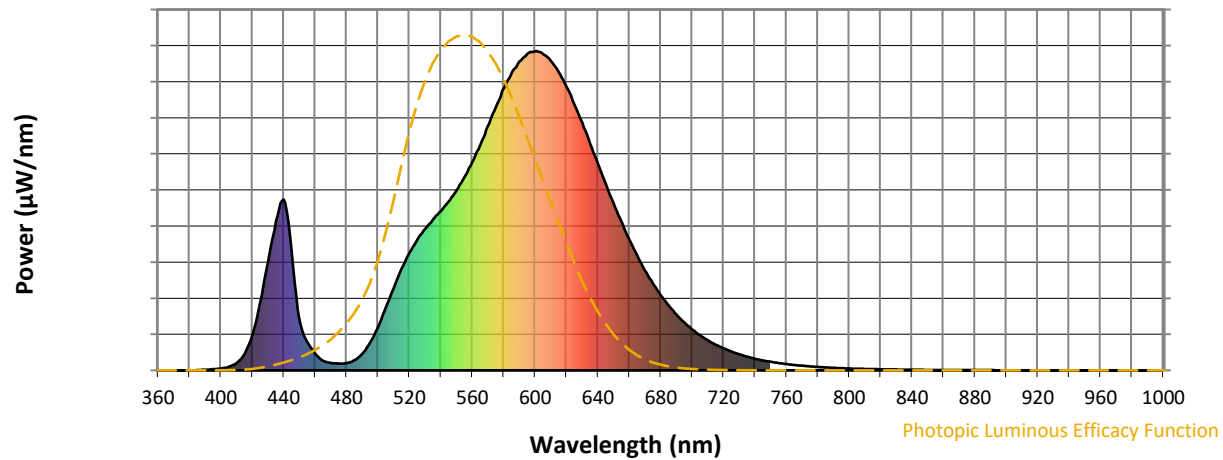
**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



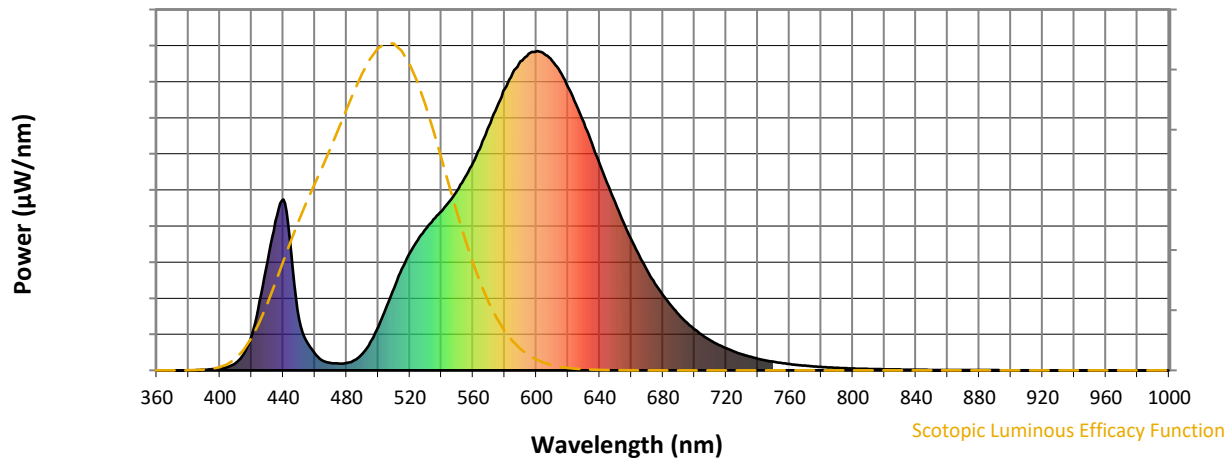
REPORT NUMBER: SP1-2407-184-3

**Photopic Flux vs. Wavelength**

**Photopic Lumens: NR**

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 52                            | NR                             | 620               | 888                           | NR                             | 750               | 27                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 87                            | NR                             | 625               | 834                           | NR                             | 755               | 23                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 135                           | NR                             | 630               | 776                           | NR                             | 760               | 20                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 196                           | NR                             | 635               | 712                           | NR                             | 765               | 17                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 258                           | NR                             | 640               | 648                           | NR                             | 770               | 15                            | NR                             | 900               | 0                             | NR                             |
| 385               | 1                             | NR                             | 515               | 317                           | NR                             | 645               | 583                           | NR                             | 775               | 12                            | NR                             | 905               | 0                             | NR                             |
| 390               | 2                             | NR                             | 520               | 368                           | NR                             | 650               | 523                           | NR                             | 780               | 11                            | NR                             | 910               | 0                             | NR                             |
| 395               | 4                             | NR                             | 525               | 408                           | NR                             | 655               | 465                           | NR                             | 785               | 9                             | NR                             | 915               | 0                             | NR                             |
| 400               | 6                             | NR                             | 530               | 443                           | NR                             | 660               | 410                           | NR                             | 790               | 8                             | NR                             | 920               | 0                             | NR                             |
| 405               | 11                            | NR                             | 535               | 473                           | NR                             | 665               | 360                           | NR                             | 795               | 7                             | NR                             | 925               | 0                             | NR                             |
| 410               | 23                            | NR                             | 540               | 498                           | NR                             | 670               | 313                           | NR                             | 800               | 6                             | NR                             | 930               | 0                             | NR                             |
| 415               | 51                            | NR                             | 545               | 530                           | NR                             | 675               | 272                           | NR                             | 805               | 5                             | NR                             | 935               | 0                             | NR                             |
| 420               | 111                           | NR                             | 550               | 563                           | NR                             | 680               | 236                           | NR                             | 810               | 4                             | NR                             | 940               | 0                             | NR                             |
| 425               | 214                           | NR                             | 555               | 605                           | NR                             | 685               | 203                           | NR                             | 815               | 4                             | NR                             | 945               | 0                             | NR                             |
| 430               | 339                           | NR                             | 560               | 651                           | NR                             | 690               | 175                           | NR                             | 820               | 3                             | NR                             | 950               | 0                             | NR                             |
| 435               | 467                           | NR                             | 565               | 705                           | NR                             | 695               | 150                           | NR                             | 825               | 3                             | NR                             | 955               | 0                             | NR                             |
| 440               | 535                           | NR                             | 570               | 765                           | NR                             | 700               | 128                           | NR                             | 830               | 3                             | NR                             | 960               | 0                             | NR                             |
| 445               | 372                           | NR                             | 575               | 824                           | NR                             | 705               | 110                           | NR                             | 835               | 2                             | NR                             | 965               | 0                             | NR                             |
| 450               | 160                           | NR                             | 580               | 882                           | NR                             | 710               | 94                            | NR                             | 840               | 2                             | NR                             | 970               | 0                             | NR                             |
| 455               | 89                            | NR                             | 585               | 930                           | NR                             | 715               | 80                            | NR                             | 845               | 2                             | NR                             | 975               | 0                             | NR                             |
| 460               | 53                            | NR                             | 590               | 968                           | NR                             | 720               | 69                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 31                            | NR                             | 595               | 991                           | NR                             | 725               | 59                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 23                            | NR                             | 600               | 999                           | NR                             | 730               | 50                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 21                            | NR                             | 605               | 992                           | NR                             | 735               | 43                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 23                            | NR                             | 610               | 969                           | NR                             | 740               | 36                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 32                            | NR                             | 615               | 935                           | NR                             | 745               | 31                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength



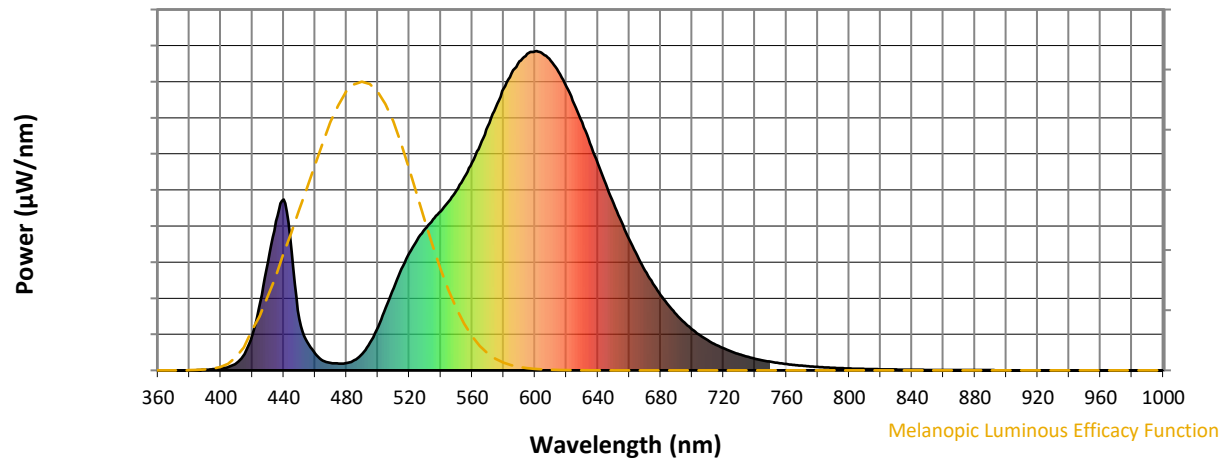
Scotopic Lumens: NR

S/P: 1.02

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-3

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

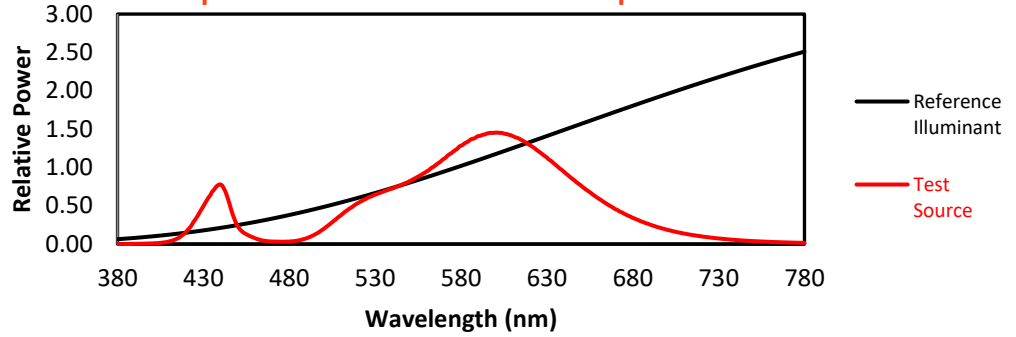
REPORT NUMBER: SP1-2407-184-3

TM-30-18

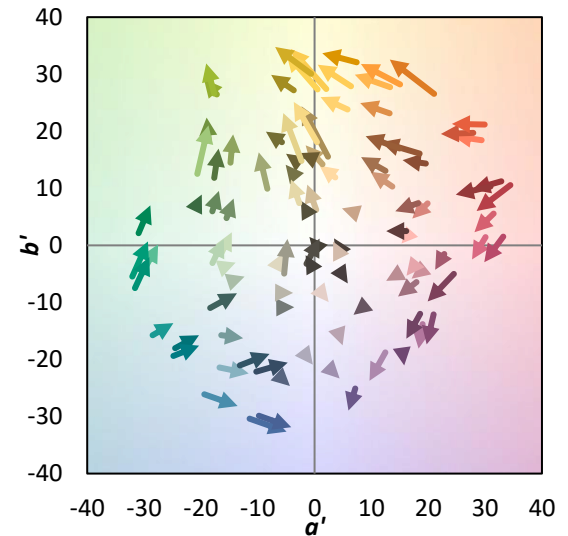
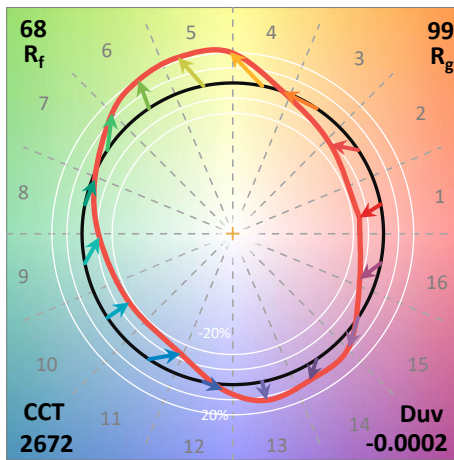
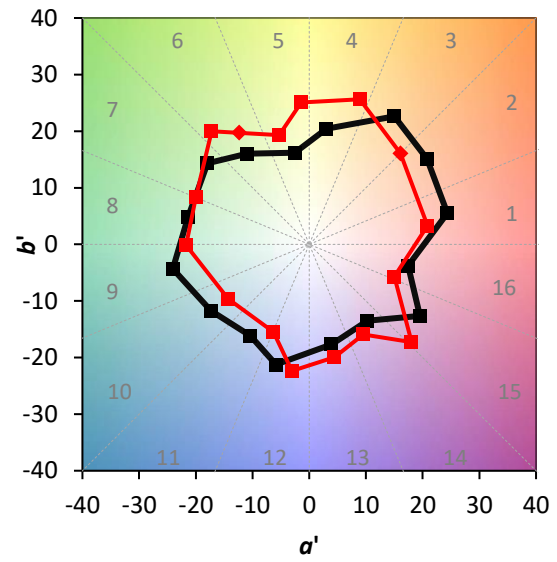
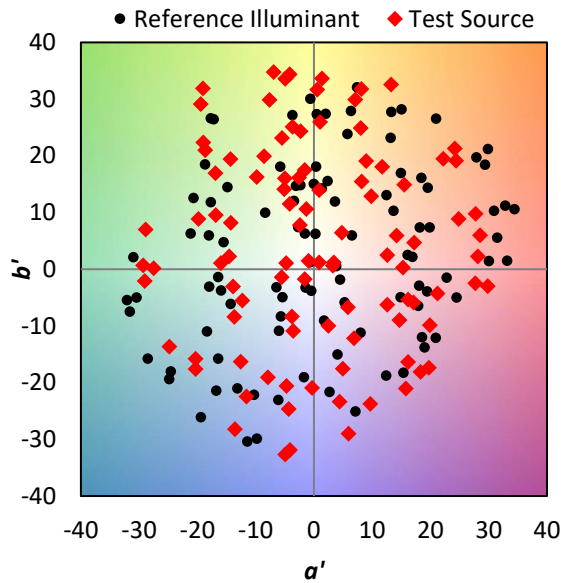
### Summary

$R_f = 67.9$   
 $R_g = 98.6$   
 $CIE\ R_a = 71.1$   
 $R_g = -27.8$

### Spectral Power Distribution Comparison

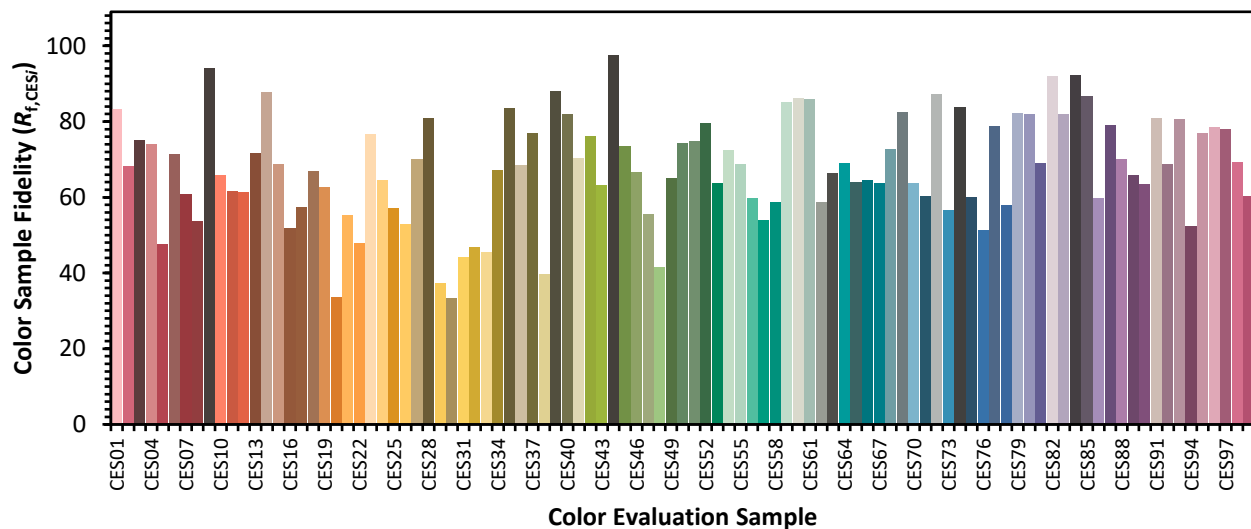


### Color Vector Graphics

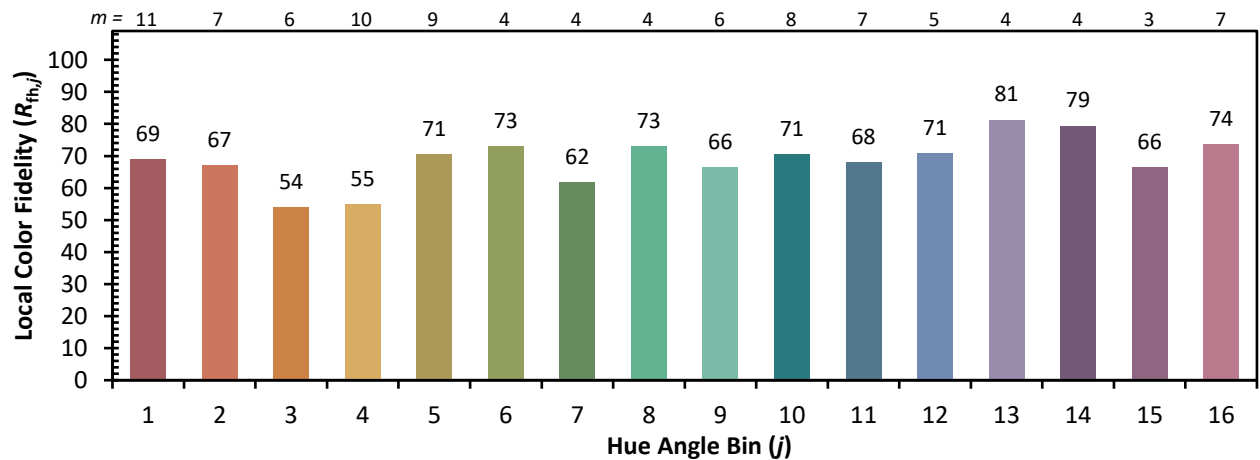
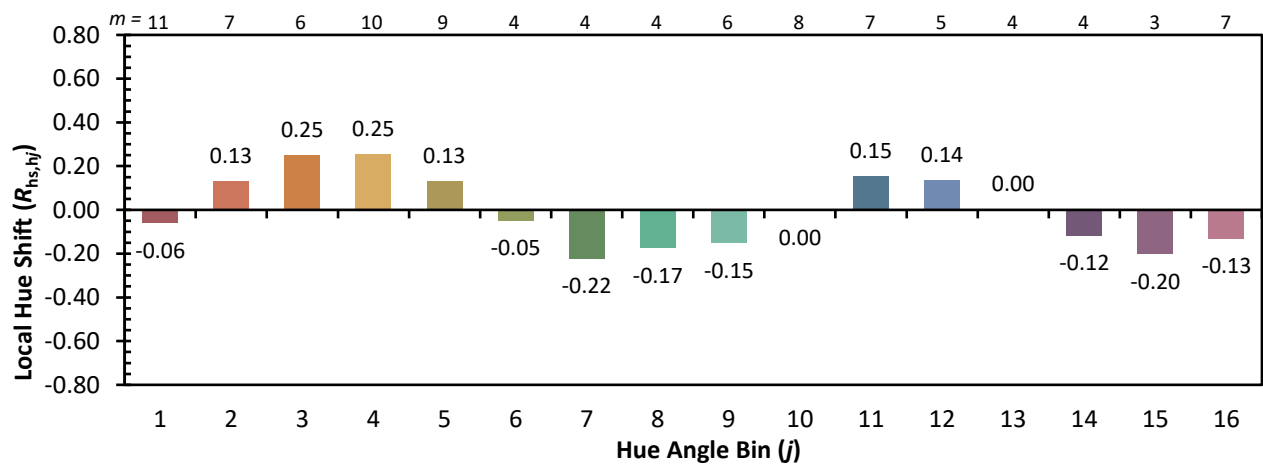
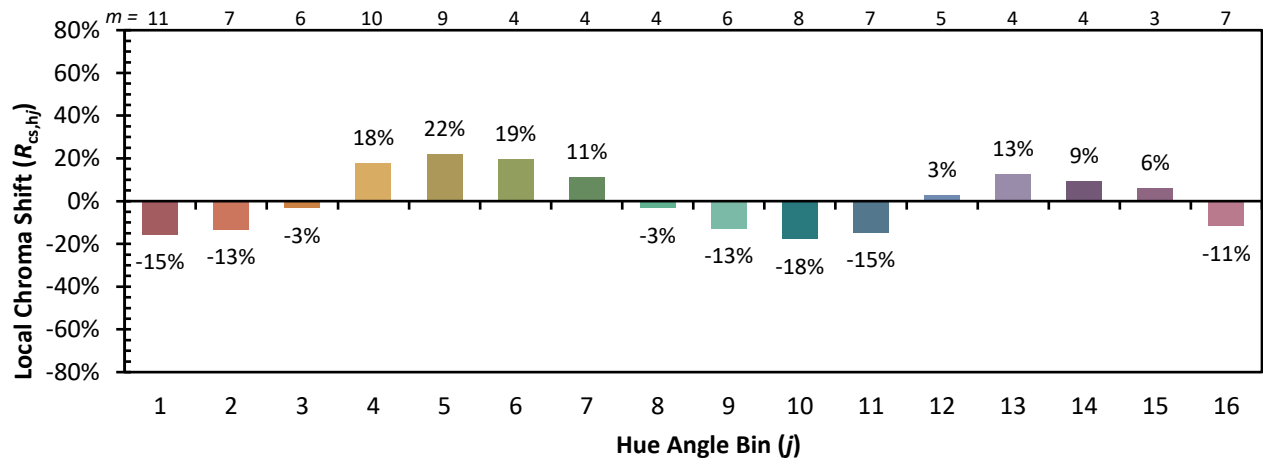


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

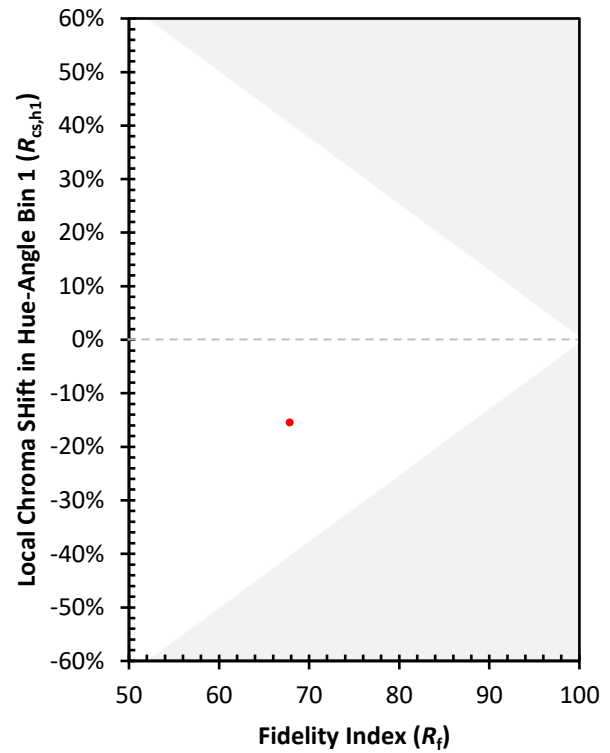
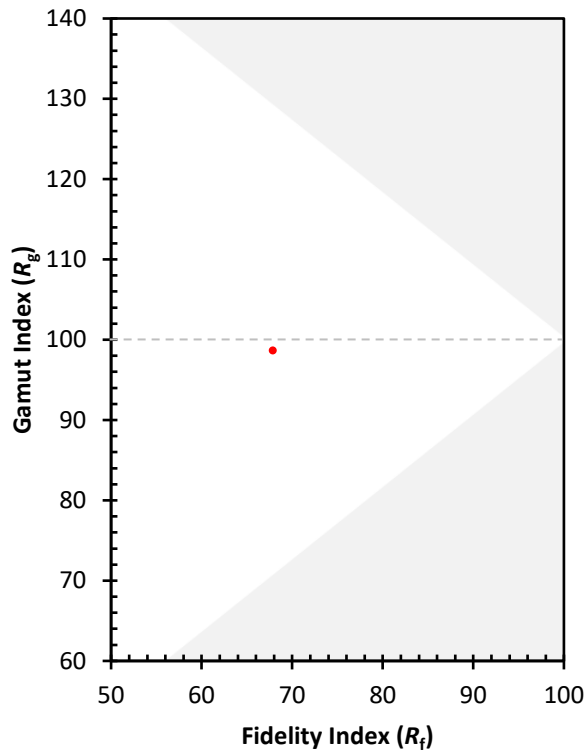
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)