

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213445

Luminaire Tested: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

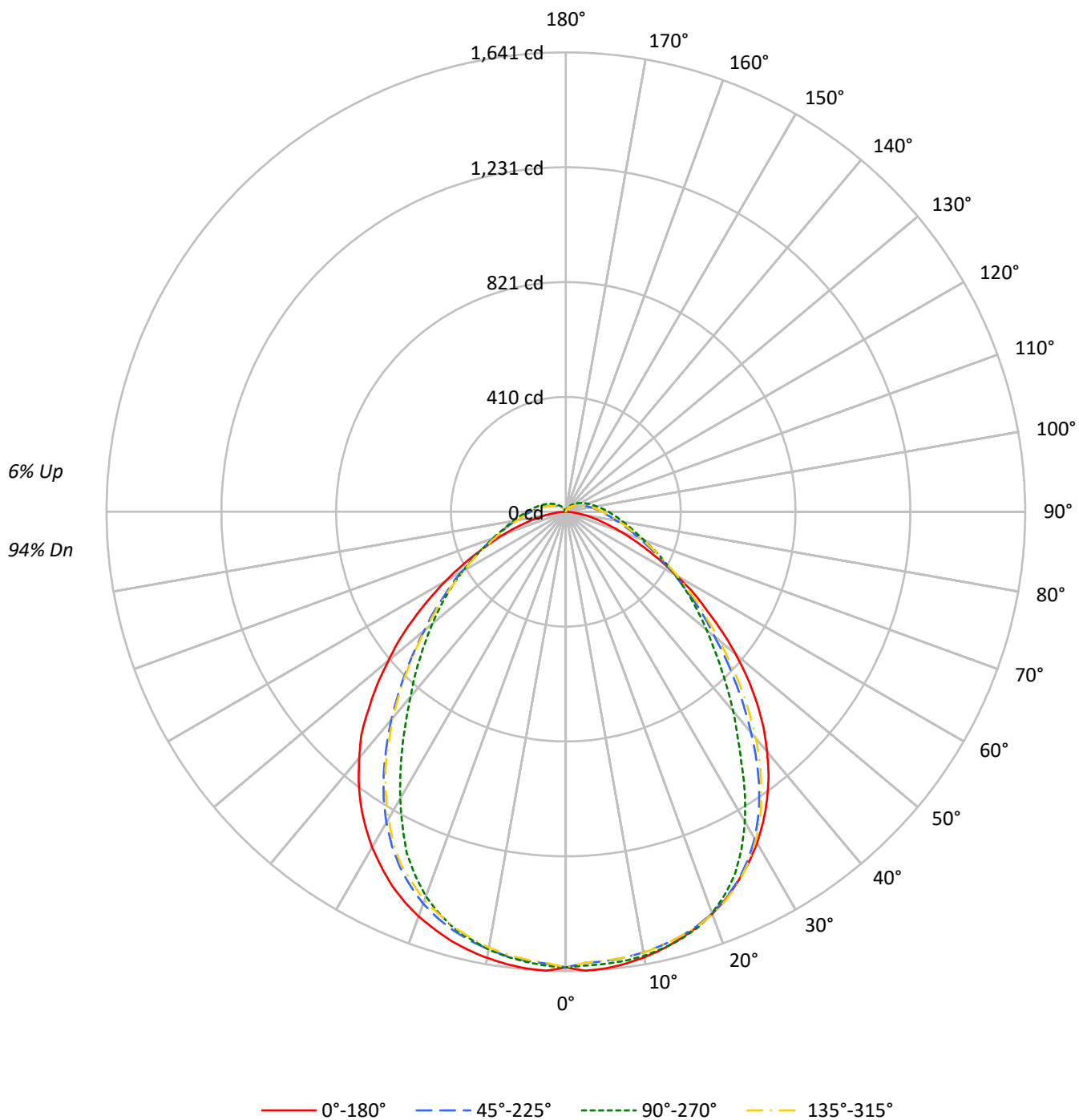
Lumens per Lamp: N/A  
Luminaire Lumens: 4119.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213445

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 |
| 1   | 107 | 103 | 98  | 95  | 104 | 100 | 96  | 92  | 94  | 91  | 88  | 89  | 87  | 85  | 85 | 83 | 81 |
| 2   | 98  | 90  | 84  | 78  | 95  | 88  | 82  | 77  | 83  | 78  | 74  | 79  | 75  | 72  | 75 | 72 | 69 |
| 3   | 90  | 80  | 72  | 66  | 87  | 78  | 71  | 65  | 74  | 68  | 63  | 71  | 66  | 61  | 67 | 63 | 60 |
| 4   | 83  | 72  | 63  | 57  | 80  | 70  | 62  | 56  | 67  | 60  | 55  | 64  | 58  | 53  | 61 | 56 | 52 |
| 5   | 77  | 64  | 56  | 50  | 74  | 63  | 55  | 49  | 60  | 53  | 48  | 58  | 52  | 47  | 55 | 50 | 46 |
| 6   | 71  | 58  | 50  | 44  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 52  | 46  | 42  | 50 | 45 | 41 |
| 7   | 66  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 37  | 46 | 41 | 37 |
| 8   | 62  | 49  | 41  | 35  | 60  | 48  | 40  | 35  | 46  | 39  | 34  | 44  | 38  | 34  | 43 | 37 | 33 |
| 9   | 58  | 45  | 37  | 32  | 56  | 44  | 37  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 40 | 34 | 30 |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 37 | 31 | 27 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 13153 | 13153 | 13153 | 13153 |
| 5°  | 13246 | 12734 | 13246 | 12678 |
| 10° | 13188 | 12396 | 13209 | 12223 |
| 15° | 13102 | 12025 | 13162 | 11712 |
| 20° | 13002 | 11549 | 13078 | 11061 |
| 25° | 12793 | 10842 | 12935 | 10204 |
| 30° | 12522 | 9804  | 12686 | 9076  |
| 35° | 12100 | 8532  | 12333 | 7945  |
| 40° | 11495 | 7462  | 11798 | 6923  |
| 45° | 10695 | 6487  | 11042 | 6115  |
| 50° | 9603  | 5700  | 10026 | 5412  |
| 55° | 8307  | 5034  | 8911  | 4779  |
| 60° | 6987  | 4419  | 7619  | 4165  |
| 65° | 5727  | 3907  | 6304  | 3623  |
| 70° | 4559  | 3467  | 5105  | 3207  |
| 75° | 3579  | 3202  | 4029  | 2946  |
| 80° | 2585  | 3089  | 3044  | 2823  |
| 85° | 1592  | 3107  | 2138  | 2855  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

TEST NUMBER: P1213445

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 154.3  | 3.7       |
| 10°-20°   | 442.5  | 10.7      |
| 20°-30°   | 655.7  | 15.9      |
| 30°-40°   | 728.5  | 17.7      |
| 40°-50°   | 660.4  | 16.0      |
| 50°-60°   | 511.7  | 12.4      |
| 60°-70°   | 347.5  | 8.4       |
| 70°-80°   | 221.1  | 5.4       |
| 80°-90°   | 141.3  | 3.4       |
| 90°-100°  | 95.3   | 2.3       |
| 100°-110° | 65.3   | 1.6       |
| 110°-120° | 43.5   | 1.1       |
| 120°-130° | 27.1   | 0.7       |
| 130°-140° | 15.0   | 0.4       |
| 140°-150° | 7.0    | 0.2       |
| 150°-160° | 2.6    | 0.1       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1252.5 | 30.4      |
| 0°-40°    | 1981.0 | 48.1      |
| 0°-60°    | 3153.1 | 76.6      |
| 0°-90°    | 3863.1 | 93.8      |
| 90°-120°  | 204.1  | 5.0       |
| 90°-150°  | 253.2  | 6.1       |
| 90°-180°  | 256.0  | 6.2       |
| 0°-180°   | 4119.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1628 | 1628 | 1628 | 1628 | 1628 |      |
| 5°   | 1637 | 1621 | 1637 | 1614 | 1637 | 156  |
| 15°  | 1579 | 1582 | 1586 | 1541 | 1579 | 446  |
| 25°  | 1456 | 1429 | 1472 | 1345 | 1456 | 670  |
| 35°  | 1253 | 1092 | 1278 | 1017 | 1253 | 782  |
| 45°  | 965  | 781  | 996  | 736  | 965  | 741  |
| 55°  | 616  | 549  | 661  | 521  | 616  | 555  |
| 65°  | 320  | 369  | 352  | 342  | 320  | 320  |
| 75°  | 128  | 246  | 144  | 226  | 128  | 138  |
| 85°  | 23   | 177  | 31   | 163  | 23   | 28   |
| 90°  | 0    | 153  | 2    | 140  | 0    | 1    |
| 95°  | 1    | 131  | 0    | 122  | 1    | 1    |
| 105° | 1    | 96   | 0    | 90   | 1    | 1    |
| 115° | 1    | 72   | 0    | 67   | 1    | 1    |
| 125° | 1    | 54   | 1    | 47   | 1    | 1    |
| 135° | 1    | 38   | 1    | 30   | 1    | 1    |
| 145° | 1    | 24   | 1    | 17   | 1    | 1    |
| 155° | 1    | 13   | 1    | 6    | 1    | 1    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1641.0 | 1639.2 | 1637.4 | 1634.8 | 1637.4 | 1644.6 | 1640.1 | 1630.3 | 1628.5 | 1612.4 | 1619.5 |
| 5°     | 1637.4 | 1634.8 | 1633.0 | 1630.3 | 1633.9 | 1642.8 | 1638.3 | 1629.4 | 1626.7 | 1611.5 | 1619.5 |
| 7.5°   | 1628.5 | 1626.7 | 1624.0 | 1624.0 | 1627.6 | 1636.5 | 1633.0 | 1623.1 | 1621.3 | 1606.1 | 1615.1 |
| 10°    | 1616.0 | 1615.1 | 1613.3 | 1613.3 | 1616.8 | 1627.6 | 1623.1 | 1614.2 | 1612.4 | 1598.0 | 1607.9 |
| 12.5°  | 1599.8 | 1600.7 | 1598.0 | 1598.0 | 1603.4 | 1614.2 | 1610.6 | 1600.7 | 1598.9 | 1586.4 | 1596.3 |
| 15°    | 1579.2 | 1580.1 | 1578.3 | 1579.2 | 1584.6 | 1597.2 | 1592.7 | 1583.7 | 1581.9 | 1572.1 | 1580.1 |
| 17.5°  | 1556.0 | 1556.9 | 1556.9 | 1556.0 | 1562.2 | 1574.8 | 1571.2 | 1563.1 | 1560.4 | 1552.4 | 1562.2 |
| 20°    | 1529.1 | 1529.1 | 1529.1 | 1529.1 | 1536.3 | 1548.8 | 1544.3 | 1538.1 | 1532.7 | 1526.4 | 1534.5 |
| 22.5°  | 1496.0 | 1495.1 | 1496.0 | 1498.7 | 1505.8 | 1515.7 | 1513.0 | 1505.8 | 1497.8 | 1494.2 | 1500.5 |
| 25°    | 1455.7 | 1458.4 | 1459.3 | 1462.0 | 1470.9 | 1479.0 | 1476.3 | 1469.1 | 1456.6 | 1453.9 | 1455.7 |
| 27.5°  | 1413.6 | 1415.4 | 1418.1 | 1417.2 | 1429.7 | 1437.8 | 1432.4 | 1426.2 | 1408.2 | 1405.6 | 1403.8 |
| 30°    | 1366.2 | 1368.9 | 1370.6 | 1369.8 | 1379.6 | 1388.6 | 1383.2 | 1375.1 | 1351.0 | 1349.2 | 1334.8 |
| 32.5°  | 1312.5 | 1315.1 | 1316.9 | 1316.9 | 1331.3 | 1334.8 | 1325.0 | 1313.4 | 1287.4 | 1281.1 | 1268.6 |
| 35°    | 1253.4 | 1256.1 | 1257.0 | 1257.0 | 1271.3 | 1270.4 | 1257.8 | 1241.7 | 1213.1 | 1205.0 | 1183.5 |
| 37.5°  | 1189.8 | 1191.6 | 1192.5 | 1197.9 | 1204.1 | 1198.8 | 1182.6 | 1162.1 | 1140.6 | 1118.2 | 1094.9 |
| 40°    | 1118.2 | 1120.9 | 1122.7 | 1126.2 | 1132.5 | 1126.2 | 1103.0 | 1077.9 | 1054.6 | 1029.6 | 1006.3 |
| 42.5°  | 1044.8 | 1052.8 | 1051.0 | 1050.1 | 1053.7 | 1036.7 | 1018.8 | 990.2  | 966.9  | 940.9  | 917.6  |
| 45°    | 965.1  | 964.2  | 968.7  | 970.5  | 969.6  | 955.2  | 930.2  | 904.2  | 880.9  | 854.1  | 834.4  |
| 47.5°  | 880.9  | 880.0  | 883.6  | 885.4  | 880.0  | 864.8  | 845.1  | 815.6  | 795.9  | 772.6  | 757.4  |
| 50°    | 792.3  | 792.3  | 797.7  | 792.3  | 789.6  | 774.4  | 758.3  | 728.7  | 713.5  | 692.9  | 684.0  |
| 52.5°  | 703.7  | 711.7  | 706.4  | 704.6  | 701.9  | 686.7  | 674.1  | 650.0  | 637.4  | 628.5  | 617.7  |
| 55°    | 615.9  | 624.9  | 621.3  | 618.6  | 617.7  | 605.2  | 593.6  | 575.7  | 567.6  | 561.3  | 555.1  |
| 57.5°  | 541.6  | 540.7  | 538.9  | 536.3  | 537.2  | 527.3  | 515.7  | 505.8  | 502.2  | 499.6  | 501.3  |
| 60°    | 455.7  | 462.9  | 460.2  | 461.1  | 462.0  | 460.2  | 450.3  | 444.1  | 444.9  | 445.8  | 448.5  |
| 62.5°  | 385.0  | 391.2  | 395.7  | 392.1  | 393.9  | 396.6  | 391.2  | 389.4  | 393.0  | 396.6  | 400.2  |
| 65°    | 319.6  | 325.9  | 330.4  | 329.5  | 334.8  | 340.2  | 339.3  | 341.1  | 349.2  | 353.6  | 358.1  |
| 67.5°  | 260.5  | 266.8  | 273.1  | 274.0  | 282.0  | 290.1  | 293.6  | 299.9  | 308.9  | 315.1  | 320.5  |
| 70°    | 209.5  | 214.9  | 222.0  | 226.5  | 237.2  | 248.0  | 254.3  | 266.8  | 272.2  | 281.1  | 284.7  |
| 72.5°  | 163.8  | 168.3  | 178.2  | 188.9  | 197.9  | 211.3  | 223.8  | 234.6  | 242.6  | 252.5  | 256.9  |
| 75°    | 128.0  | 129.8  | 140.6  | 153.1  | 165.6  | 180.8  | 194.3  | 205.9  | 216.7  | 226.5  | 233.7  |
| 77.5°  | 94.0   | 96.7   | 106.5  | 123.5  | 137.9  | 154.0  | 169.2  | 181.7  | 193.4  | 203.2  | 213.1  |
| 80°    | 65.4   | 70.7   | 81.5   | 98.5   | 114.6  | 132.5  | 146.8  | 161.1  | 173.7  | 183.5  | 193.4  |
| 82.5°  | 42.1   | 46.6   | 61.8   | 78.8   | 95.8   | 113.7  | 128.9  | 143.2  | 156.7  | 167.4  | 176.4  |
| 85°    | 23.3   | 29.5   | 44.8   | 62.7   | 79.7   | 97.6   | 113.7  | 128.0  | 141.5  | 151.3  | 160.3  |
| 87.5°  | 9.0    | 17.9   | 32.2   | 49.2   | 66.2   | 83.3   | 100.3  | 113.7  | 127.1  | 137.9  | 145.9  |
| 90°    | 0.0    | 10.7   | 24.2   | 41.2   | 58.2   | 75.2   | 91.3   | 105.6  | 118.2  | 128.0  | 137.0  |
| 92.5°  | 0.9    | 7.2    | 18.8   | 33.1   | 49.2   | 65.4   | 80.6   | 94.9   | 107.4  | 117.3  | 125.3  |
| 95°    | 0.9    | 5.4    | 15.2   | 28.6   | 43.0   | 58.2   | 72.5   | 85.9   | 97.6   | 107.4  | 115.5  |
| 97.5°  | 0.9    | 3.6    | 12.5   | 25.1   | 37.6   | 52.8   | 66.2   | 78.8   | 89.5   | 99.4   | 105.6  |
| 100°   | 0.9    | 3.6    | 10.7   | 21.5   | 34.0   | 47.4   | 60.0   | 72.5   | 82.4   | 90.4   | 97.6   |
| 102.5° | 0.9    | 2.7    | 9.0    | 18.8   | 30.4   | 42.1   | 54.6   | 66.2   | 75.2   | 83.3   | 90.4   |
| 105°   | 0.9    | 2.7    | 8.1    | 16.1   | 26.9   | 38.5   | 49.2   | 60.0   | 69.8   | 77.0   | 83.3   |
| 107.5° | 0.9    | 1.8    | 7.2    | 13.4   | 23.3   | 34.9   | 45.7   | 54.6   | 63.6   | 70.7   | 77.0   |
| 110°   | 0.9    | 1.8    | 6.3    | 12.5   | 20.6   | 31.3   | 41.2   | 50.1   | 58.2   | 65.4   | 70.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 112.5° | 0.9 | 1.8 | 5.4 | 11.6 | 18.8 | 27.8 | 37.6 | 45.7 | 53.7 | 60.0 | 65.4 |
| 115°   | 0.9 | 1.8 | 5.4 | 10.7 | 17.0 | 24.2 | 33.1 | 42.1 | 48.3 | 55.5 | 60.0 |
| 117.5° | 0.9 | 1.8 | 4.5 | 9.0  | 16.1 | 22.4 | 30.4 | 37.6 | 44.8 | 51.0 | 55.5 |
| 120°   | 0.9 | 1.8 | 4.5 | 8.1  | 14.3 | 20.6 | 26.9 | 34.0 | 41.2 | 45.7 | 50.1 |
| 122.5° | 0.9 | 1.8 | 3.6 | 8.1  | 12.5 | 18.8 | 24.2 | 30.4 | 36.7 | 42.1 | 46.6 |
| 125°   | 0.9 | 1.8 | 3.6 | 7.2  | 11.6 | 17.0 | 22.4 | 26.9 | 33.1 | 37.6 | 42.1 |
| 127.5° | 0.9 | 1.8 | 3.6 | 6.3  | 10.7 | 15.2 | 20.6 | 25.1 | 29.5 | 34.0 | 37.6 |
| 130°   | 0.9 | 1.8 | 2.7 | 5.4  | 9.8  | 13.4 | 17.9 | 23.3 | 26.9 | 30.4 | 34.0 |
| 132.5° | 0.9 | 1.8 | 2.7 | 5.4  | 8.1  | 11.6 | 16.1 | 20.6 | 24.2 | 27.8 | 30.4 |
| 135°   | 0.9 | 1.8 | 2.7 | 4.5  | 7.2  | 10.7 | 13.4 | 17.9 | 21.5 | 25.1 | 27.8 |
| 137.5° | 0.9 | 1.8 | 2.7 | 4.5  | 6.3  | 9.0  | 11.6 | 15.2 | 18.8 | 21.5 | 25.1 |
| 140°   | 0.9 | 1.8 | 2.7 | 3.6  | 5.4  | 8.1  | 10.7 | 12.5 | 16.1 | 18.8 | 21.5 |
| 142.5° | 0.9 | 1.8 | 2.7 | 3.6  | 5.4  | 7.2  | 9.0  | 10.7 | 13.4 | 16.1 | 18.8 |
| 145°   | 0.9 | 1.8 | 2.7 | 3.6  | 4.5  | 6.3  | 8.1  | 9.8  | 10.7 | 13.4 | 15.2 |
| 147.5° | 0.9 | 1.8 | 2.7 | 3.6  | 3.6  | 5.4  | 7.2  | 8.1  | 9.8  | 10.7 | 12.5 |
| 150°   | 0.9 | 1.8 | 2.7 | 2.7  | 3.6  | 4.5  | 6.3  | 7.2  | 8.1  | 9.8  | 10.7 |
| 152.5° | 0.9 | 1.8 | 2.7 | 2.7  | 3.6  | 4.5  | 5.4  | 6.3  | 7.2  | 8.1  | 9.0  |
| 155°   | 0.9 | 1.8 | 2.7 | 2.7  | 2.7  | 3.6  | 4.5  | 5.4  | 6.3  | 7.2  | 8.1  |
| 157.5° | 1.8 | 1.8 | 1.8 | 2.7  | 2.7  | 3.6  | 3.6  | 4.5  | 5.4  | 5.4  | 6.3  |
| 160°   | 1.8 | 1.8 | 1.8 | 2.7  | 2.7  | 2.7  | 3.6  | 3.6  | 4.5  | 4.5  | 5.4  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1617.7 | 1620.4 | 1628.5 | 1628.5 | 1626.7 | 1624.9 | 1624.9 | 1622.2 | 1624.0 | 1627.6 | 1625.8 |
| 5°     | 1617.7 | 1620.4 | 1628.5 | 1628.5 | 1626.7 | 1624.9 | 1624.0 | 1621.3 | 1624.0 | 1627.6 | 1625.8 |
| 7.5°   | 1612.4 | 1616.0 | 1624.0 | 1624.0 | 1622.2 | 1621.3 | 1619.5 | 1617.7 | 1620.4 | 1624.0 | 1622.2 |
| 10°    | 1605.2 | 1608.8 | 1616.8 | 1616.8 | 1615.1 | 1615.1 | 1612.4 | 1610.6 | 1614.2 | 1616.8 | 1616.0 |
| 12.5°  | 1594.5 | 1598.9 | 1606.1 | 1605.2 | 1603.4 | 1604.3 | 1601.6 | 1598.0 | 1601.6 | 1604.3 | 1605.2 |
| 15°    | 1579.2 | 1584.6 | 1591.8 | 1590.0 | 1587.3 | 1589.1 | 1584.6 | 1581.9 | 1584.6 | 1590.0 | 1589.1 |
| 17.5°  | 1559.5 | 1563.1 | 1568.5 | 1568.5 | 1565.8 | 1564.0 | 1562.2 | 1559.5 | 1561.3 | 1564.9 | 1565.8 |
| 20°    | 1531.8 | 1536.3 | 1539.0 | 1536.3 | 1535.4 | 1532.7 | 1529.1 | 1526.4 | 1530.0 | 1535.4 | 1536.3 |
| 22.5°  | 1495.1 | 1496.0 | 1502.3 | 1496.0 | 1491.5 | 1490.6 | 1487.0 | 1481.7 | 1487.0 | 1491.5 | 1492.4 |
| 25°    | 1449.4 | 1453.9 | 1451.2 | 1440.5 | 1440.5 | 1433.3 | 1431.5 | 1428.8 | 1429.7 | 1437.8 | 1441.4 |
| 27.5°  | 1391.2 | 1393.0 | 1385.9 | 1376.9 | 1368.9 | 1364.4 | 1358.1 | 1359.0 | 1359.0 | 1369.8 | 1373.3 |
| 30°    | 1327.7 | 1317.8 | 1311.6 | 1297.2 | 1291.0 | 1280.2 | 1278.4 | 1278.4 | 1276.6 | 1282.0 | 1298.1 |
| 32.5°  | 1251.6 | 1238.1 | 1228.3 | 1214.9 | 1204.1 | 1193.4 | 1188.0 | 1190.7 | 1189.8 | 1203.2 | 1208.6 |
| 35°    | 1168.3 | 1160.3 | 1139.7 | 1122.7 | 1116.4 | 1100.3 | 1100.3 | 1092.2 | 1097.6 | 1112.8 | 1119.1 |
| 37.5°  | 1080.6 | 1068.0 | 1051.0 | 1032.2 | 1027.8 | 1015.2 | 1010.8 | 1006.3 | 1017.9 | 1020.6 | 1026.9 |
| 40°    | 991.1  | 979.4  | 963.3  | 945.4  | 945.4  | 930.2  | 930.2  | 930.2  | 931.1  | 936.4  | 948.1  |
| 42.5°  | 906.0  | 893.5  | 879.1  | 866.6  | 864.8  | 853.2  | 853.2  | 852.3  | 854.1  | 858.6  | 869.3  |
| 45°    | 823.6  | 813.8  | 798.6  | 792.3  | 793.2  | 780.7  | 783.4  | 780.7  | 784.3  | 788.7  | 792.3  |
| 47.5°  | 747.5  | 741.3  | 735.0  | 726.1  | 723.4  | 722.5  | 718.0  | 714.4  | 720.7  | 720.7  | 726.1  |
| 50°    | 676.8  | 673.2  | 669.7  | 664.3  | 665.2  | 661.6  | 656.2  | 656.2  | 660.7  | 661.6  | 665.2  |
| 52.5°  | 615.0  | 610.6  | 606.1  | 607.0  | 607.9  | 606.1  | 603.4  | 600.7  | 603.4  | 605.2  | 609.7  |
| 55°    | 553.3  | 549.7  | 554.2  | 552.4  | 554.2  | 552.4  | 550.6  | 548.8  | 553.3  | 550.6  | 555.1  |
| 57.5°  | 497.8  | 501.3  | 503.1  | 499.6  | 502.2  | 500.5  | 501.3  | 498.7  | 502.2  | 504.0  | 503.1  |
| 60°    | 446.7  | 452.1  | 449.4  | 450.3  | 453.9  | 452.1  | 448.5  | 451.2  | 454.8  | 455.7  | 454.8  |
| 62.5°  | 400.2  | 406.4  | 409.1  | 407.3  | 408.2  | 406.4  | 409.1  | 405.6  | 410.0  | 411.8  | 409.1  |
| 65°    | 358.1  | 365.3  | 367.1  | 367.1  | 367.1  | 365.3  | 368.0  | 368.8  | 370.6  | 370.6  | 368.8  |
| 67.5°  | 322.3  | 328.6  | 330.4  | 332.1  | 330.4  | 328.6  | 328.6  | 329.5  | 333.0  | 334.8  | 333.0  |
| 70°    | 290.1  | 296.3  | 297.2  | 297.2  | 298.1  | 299.9  | 296.3  | 298.1  | 300.8  | 301.7  | 300.8  |
| 72.5°  | 262.3  | 268.6  | 270.4  | 269.5  | 270.4  | 271.3  | 271.3  | 269.5  | 272.2  | 274.0  | 274.0  |
| 75°    | 239.9  | 243.5  | 245.3  | 245.3  | 246.2  | 247.1  | 247.1  | 246.2  | 248.0  | 248.9  | 249.8  |
| 77.5°  | 219.3  | 222.0  | 224.7  | 224.7  | 225.6  | 224.7  | 226.5  | 226.5  | 227.4  | 228.3  | 229.2  |
| 80°    | 198.7  | 202.3  | 204.1  | 205.0  | 206.8  | 207.7  | 207.7  | 207.7  | 208.6  | 209.5  | 209.5  |
| 82.5°  | 182.6  | 185.3  | 188.0  | 190.7  | 190.7  | 191.6  | 191.6  | 191.6  | 192.5  | 192.5  | 193.4  |
| 85°    | 166.5  | 170.1  | 172.8  | 174.6  | 175.5  | 176.4  | 176.4  | 177.3  | 177.3  | 177.3  | 178.2  |
| 87.5°  | 152.2  | 156.7  | 158.5  | 160.3  | 161.1  | 162.9  | 162.9  | 162.9  | 163.8  | 163.8  | 163.8  |
| 90°    | 142.3  | 146.8  | 148.6  | 150.4  | 151.3  | 152.2  | 152.2  | 153.1  | 153.1  | 154.0  | 154.0  |
| 92.5°  | 130.7  | 135.2  | 138.8  | 138.8  | 139.7  | 141.5  | 140.6  | 140.6  | 141.5  | 142.3  | 142.3  |
| 95°    | 121.8  | 125.3  | 128.0  | 128.9  | 129.8  | 129.8  | 129.8  | 130.7  | 129.8  | 130.7  | 130.7  |
| 97.5°  | 111.0  | 114.6  | 117.3  | 119.1  | 120.0  | 120.0  | 120.0  | 120.9  | 120.0  | 120.9  | 120.9  |
| 100°   | 102.1  | 105.6  | 108.3  | 109.2  | 111.0  | 111.0  | 111.0  | 111.0  | 111.0  | 111.0  | 111.9  |
| 102.5° | 94.9   | 98.5   | 100.3  | 101.2  | 102.1  | 103.0  | 103.0  | 103.0  | 103.0  | 103.9  | 103.9  |
| 105°   | 87.7   | 91.3   | 93.1   | 94.0   | 94.9   | 95.8   | 95.8   | 95.8   | 96.7   | 96.7   | 95.8   |
| 107.5° | 81.5   | 84.2   | 85.9   | 87.7   | 88.6   | 88.6   | 89.5   | 89.5   | 89.5   | 89.5   | 89.5   |
| 110°   | 75.2   | 77.9   | 80.6   | 82.4   | 82.4   | 83.3   | 83.3   | 84.2   | 84.2   | 83.3   | 84.2   |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 68.9 | 72.5 | 74.3 | 76.1 | 77.0 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 115°   | 63.6 | 67.1 | 68.9 | 70.7 | 71.6 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 |
| 117.5° | 59.1 | 62.7 | 64.5 | 65.4 | 66.2 | 67.1 | 68.0 | 68.0 | 68.0 | 68.0 | 67.1 |
| 120°   | 54.6 | 57.3 | 59.1 | 60.9 | 61.8 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 |
| 122.5° | 50.1 | 52.8 | 54.6 | 56.4 | 57.3 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 |
| 125°   | 45.7 | 48.3 | 50.1 | 51.9 | 52.8 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 |
| 127.5° | 41.2 | 43.9 | 46.6 | 47.4 | 48.3 | 49.2 | 49.2 | 49.2 | 50.1 | 49.2 | 49.2 |
| 130°   | 36.7 | 39.4 | 42.1 | 43.0 | 43.9 | 44.8 | 45.7 | 45.7 | 45.7 | 45.7 | 44.8 |
| 132.5° | 33.1 | 35.8 | 37.6 | 38.5 | 40.3 | 40.3 | 41.2 | 41.2 | 41.2 | 41.2 | 40.3 |
| 135°   | 30.4 | 32.2 | 34.0 | 34.9 | 36.7 | 36.7 | 36.7 | 37.6 | 37.6 | 36.7 | 35.8 |
| 137.5° | 26.9 | 28.6 | 30.4 | 31.3 | 32.2 | 33.1 | 33.1 | 34.0 | 33.1 | 33.1 | 33.1 |
| 140°   | 25.1 | 26.0 | 27.8 | 28.6 | 29.5 | 29.5 | 29.5 | 30.4 | 30.4 | 29.5 | 29.5 |
| 142.5° | 21.5 | 23.3 | 25.1 | 26.0 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 |
| 145°   | 17.9 | 20.6 | 21.5 | 23.3 | 23.3 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 23.3 |
| 147.5° | 15.2 | 17.0 | 19.7 | 20.6 | 20.6 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 20.6 |
| 150°   | 11.6 | 13.4 | 16.1 | 17.9 | 17.9 | 18.8 | 18.8 | 18.8 | 18.8 | 17.9 | 17.9 |
| 152.5° | 9.8  | 11.6 | 12.5 | 14.3 | 15.2 | 15.2 | 15.2 | 16.1 | 15.2 | 15.2 | 15.2 |
| 155°   | 9.0  | 9.8  | 10.7 | 11.6 | 12.5 | 13.4 | 13.4 | 13.4 | 13.4 | 12.5 | 12.5 |
| 157.5° | 7.2  | 8.1  | 9.0  | 9.8  | 10.7 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 10.7 |
| 160°   | 5.4  | 6.3  | 7.2  | 7.2  | 8.1  | 9.0  | 9.8  | 9.0  | 9.0  | 9.0  | 9.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1624.0 | 1623.1 | 1625.8 | 1621.3 | 1607.9 | 1611.5 | 1609.7 | 1617.7 | 1619.5 | 1621.3 | 1629.4 |
| 5°     | 1624.0 | 1623.1 | 1624.9 | 1621.3 | 1607.0 | 1609.7 | 1607.9 | 1616.0 | 1617.7 | 1618.6 | 1626.7 |
| 7.5°   | 1620.4 | 1619.5 | 1622.2 | 1617.7 | 1602.5 | 1606.1 | 1603.4 | 1611.5 | 1612.4 | 1613.3 | 1620.4 |
| 10°    | 1613.3 | 1612.4 | 1614.2 | 1610.6 | 1595.4 | 1598.9 | 1595.4 | 1603.4 | 1603.4 | 1605.2 | 1610.6 |
| 12.5°  | 1602.5 | 1600.7 | 1604.3 | 1599.8 | 1582.8 | 1587.3 | 1585.5 | 1590.9 | 1591.8 | 1592.7 | 1598.0 |
| 15°    | 1587.3 | 1585.5 | 1588.2 | 1585.5 | 1570.3 | 1571.2 | 1568.5 | 1576.6 | 1577.5 | 1575.7 | 1581.0 |
| 17.5°  | 1564.9 | 1563.1 | 1568.5 | 1566.7 | 1551.5 | 1555.1 | 1554.2 | 1556.0 | 1558.7 | 1554.2 | 1561.3 |
| 20°    | 1537.2 | 1539.0 | 1540.7 | 1541.6 | 1530.0 | 1530.0 | 1529.1 | 1532.7 | 1535.4 | 1531.8 | 1537.2 |
| 22.5°  | 1496.0 | 1500.5 | 1505.8 | 1507.6 | 1499.6 | 1498.7 | 1504.0 | 1502.3 | 1504.9 | 1503.1 | 1506.7 |
| 25°    | 1444.1 | 1453.0 | 1458.4 | 1463.8 | 1459.3 | 1461.1 | 1469.1 | 1470.9 | 1470.9 | 1470.0 | 1473.6 |
| 27.5°  | 1379.6 | 1391.2 | 1401.1 | 1412.7 | 1408.2 | 1411.8 | 1425.3 | 1427.1 | 1430.6 | 1427.1 | 1434.2 |
| 30°    | 1302.6 | 1313.4 | 1332.2 | 1349.2 | 1351.0 | 1356.3 | 1375.1 | 1376.9 | 1386.8 | 1383.2 | 1385.9 |
| 32.5°  | 1225.6 | 1231.0 | 1252.5 | 1269.5 | 1280.2 | 1293.7 | 1314.2 | 1317.8 | 1331.3 | 1333.9 | 1333.9 |
| 35°    | 1128.9 | 1144.1 | 1163.8 | 1188.0 | 1201.4 | 1215.8 | 1243.5 | 1248.9 | 1268.6 | 1274.9 | 1282.0 |
| 37.5°  | 1047.5 | 1061.8 | 1074.3 | 1099.4 | 1123.6 | 1139.7 | 1162.1 | 1175.5 | 1196.1 | 1207.7 | 1216.7 |
| 40°    | 960.6  | 972.3  | 985.7  | 1010.8 | 1031.3 | 1055.5 | 1077.9 | 1094.0 | 1120.0 | 1133.4 | 1145.0 |
| 42.5°  | 878.3  | 887.2  | 901.5  | 919.4  | 940.9  | 967.8  | 989.3  | 1008.1 | 1035.8 | 1054.6 | 1068.0 |
| 45°    | 804.8  | 810.2  | 822.7  | 836.2  | 855.0  | 882.7  | 903.3  | 927.5  | 949.9  | 969.6  | 985.7  |
| 47.5°  | 735.9  | 743.1  | 749.3  | 758.3  | 775.3  | 792.3  | 816.5  | 839.8  | 862.1  | 883.6  | 899.7  |
| 50°    | 672.3  | 672.3  | 682.2  | 688.5  | 700.1  | 715.3  | 734.1  | 750.2  | 778.0  | 793.2  | 813.8  |
| 52.5°  | 610.6  | 614.2  | 619.5  | 623.1  | 632.1  | 641.9  | 657.1  | 670.6  | 693.8  | 708.2  | 727.8  |
| 55°    | 556.0  | 559.5  | 562.2  | 564.0  | 569.4  | 581.0  | 586.4  | 597.1  | 613.3  | 624.9  | 641.9  |
| 57.5°  | 504.0  | 505.8  | 508.5  | 509.4  | 510.3  | 517.5  | 521.9  | 524.6  | 540.7  | 552.4  | 566.7  |
| 60°    | 456.6  | 456.6  | 459.3  | 458.4  | 457.5  | 461.1  | 460.2  | 462.9  | 472.7  | 479.9  | 486.1  |
| 62.5°  | 411.8  | 411.8  | 412.7  | 410.9  | 410.0  | 410.0  | 406.4  | 409.1  | 411.8  | 412.7  | 417.2  |
| 65°    | 370.6  | 375.1  | 371.5  | 372.4  | 367.1  | 365.3  | 363.5  | 358.1  | 357.2  | 353.6  | 355.4  |
| 67.5°  | 333.9  | 337.5  | 333.9  | 333.9  | 329.5  | 325.9  | 321.4  | 312.4  | 309.8  | 302.6  | 300.8  |
| 70°    | 304.4  | 301.7  | 303.5  | 300.8  | 295.4  | 291.0  | 284.7  | 277.5  | 268.6  | 259.6  | 253.4  |
| 72.5°  | 275.7  | 275.7  | 274.0  | 271.3  | 268.6  | 259.6  | 252.5  | 244.4  | 233.7  | 222.0  | 213.1  |
| 75°    | 248.0  | 248.9  | 248.9  | 246.2  | 241.7  | 233.7  | 225.6  | 214.0  | 202.3  | 188.9  | 177.3  |
| 77.5°  | 228.3  | 228.3  | 228.3  | 223.8  | 219.3  | 212.2  | 202.3  | 189.8  | 177.3  | 161.1  | 147.7  |
| 80°    | 209.5  | 208.6  | 208.6  | 203.2  | 198.7  | 190.7  | 180.8  | 168.3  | 154.9  | 137.9  | 122.7  |
| 82.5°  | 194.3  | 193.4  | 191.6  | 187.1  | 180.8  | 172.8  | 162.9  | 149.5  | 135.2  | 120.0  | 101.2  |
| 85°    | 178.2  | 177.3  | 175.5  | 171.0  | 164.7  | 157.6  | 146.8  | 133.4  | 119.1  | 102.1  | 84.2   |
| 87.5°  | 163.8  | 162.9  | 160.3  | 157.6  | 150.4  | 142.3  | 131.6  | 119.1  | 103.9  | 87.7   | 69.8   |
| 90°    | 154.0  | 152.2  | 150.4  | 146.8  | 140.6  | 131.6  | 120.9  | 107.4  | 92.2   | 76.1   | 58.2   |
| 92.5°  | 142.3  | 141.5  | 138.8  | 135.2  | 129.8  | 120.9  | 110.1  | 97.6   | 82.4   | 67.1   | 50.1   |
| 95°    | 130.7  | 129.8  | 128.0  | 124.4  | 119.1  | 111.0  | 101.2  | 88.6   | 74.3   | 59.1   | 43.9   |
| 97.5°  | 120.0  | 120.0  | 117.3  | 114.6  | 108.3  | 102.1  | 92.2   | 80.6   | 67.1   | 53.7   | 39.4   |
| 100°   | 111.0  | 111.0  | 108.3  | 104.7  | 100.3  | 94.0   | 84.2   | 73.4   | 60.9   | 48.3   | 34.0   |
| 102.5° | 103.0  | 102.1  | 100.3  | 96.7   | 92.2   | 85.9   | 77.0   | 67.1   | 55.5   | 43.0   | 30.4   |
| 105°   | 95.8   | 94.9   | 93.1   | 89.5   | 85.9   | 78.8   | 71.6   | 61.8   | 50.1   | 38.5   | 26.9   |
| 107.5° | 88.6   | 87.7   | 86.8   | 83.3   | 78.8   | 72.5   | 65.4   | 55.5   | 45.7   | 34.9   | 24.2   |
| 110°   | 82.4   | 81.5   | 79.7   | 76.1   | 71.6   | 66.2   | 59.1   | 51.0   | 41.2   | 31.3   | 21.5   |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 77.0 | 76.1 | 74.3 | 70.7 | 67.1 | 60.9 | 54.6 | 45.7 | 37.6 | 28.6 | 18.8 |
| 115°   | 71.6 | 70.7 | 68.9 | 65.4 | 60.9 | 55.5 | 49.2 | 42.1 | 33.1 | 25.1 | 17.0 |
| 117.5° | 66.2 | 65.4 | 63.6 | 60.9 | 56.4 | 51.0 | 44.8 | 37.6 | 29.5 | 23.3 | 15.2 |
| 120°   | 61.8 | 60.0 | 58.2 | 55.5 | 51.0 | 46.6 | 40.3 | 34.0 | 26.9 | 20.6 | 13.4 |
| 122.5° | 57.3 | 55.5 | 53.7 | 51.0 | 46.6 | 42.1 | 35.8 | 30.4 | 25.1 | 18.8 | 12.5 |
| 125°   | 51.9 | 51.0 | 49.2 | 46.6 | 42.1 | 37.6 | 33.1 | 27.8 | 22.4 | 17.0 | 10.7 |
| 127.5° | 47.4 | 46.6 | 44.8 | 41.2 | 37.6 | 34.0 | 29.5 | 25.1 | 19.7 | 14.3 | 9.8  |
| 130°   | 43.9 | 42.1 | 40.3 | 37.6 | 34.9 | 31.3 | 26.9 | 22.4 | 17.9 | 12.5 | 9.0  |
| 132.5° | 39.4 | 37.6 | 35.8 | 34.0 | 31.3 | 27.8 | 24.2 | 19.7 | 16.1 | 11.6 | 8.1  |
| 135°   | 35.8 | 34.0 | 32.2 | 30.4 | 27.8 | 25.1 | 21.5 | 17.9 | 14.3 | 10.7 | 7.2  |
| 137.5° | 31.3 | 30.4 | 29.5 | 27.8 | 25.1 | 22.4 | 19.7 | 15.2 | 12.5 | 9.8  | 6.3  |
| 140°   | 28.6 | 27.8 | 26.9 | 24.2 | 22.4 | 19.7 | 17.0 | 13.4 | 10.7 | 8.1  | 5.4  |
| 142.5° | 26.0 | 25.1 | 23.3 | 21.5 | 19.7 | 17.9 | 14.3 | 12.5 | 9.8  | 7.2  | 5.4  |
| 145°   | 22.4 | 21.5 | 20.6 | 18.8 | 17.0 | 14.3 | 12.5 | 10.7 | 9.0  | 6.3  | 4.5  |
| 147.5° | 20.6 | 19.7 | 17.9 | 16.1 | 14.3 | 12.5 | 11.6 | 9.8  | 7.2  | 5.4  | 3.6  |
| 150°   | 17.0 | 16.1 | 15.2 | 13.4 | 12.5 | 11.6 | 9.8  | 8.1  | 6.3  | 4.5  | 3.6  |
| 152.5° | 14.3 | 13.4 | 12.5 | 12.5 | 10.7 | 9.8  | 8.1  | 7.2  | 5.4  | 4.5  | 2.7  |
| 155°   | 12.5 | 12.5 | 11.6 | 10.7 | 9.0  | 8.1  | 7.2  | 5.4  | 4.5  | 3.6  | 2.7  |
| 157.5° | 10.7 | 9.8  | 9.0  | 9.0  | 8.1  | 7.2  | 5.4  | 4.5  | 3.6  | 3.6  | 2.7  |
| 160°   | 9.0  | 8.1  | 8.1  | 7.2  | 6.3  | 5.4  | 4.5  | 4.5  | 3.6  | 2.7  | 2.7  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1630.3 | 1620.4 | 1629.4 | 1641.0 | 1641.0 | 1639.2 | 1637.4 | 1641.0 | 1650.0 | 1646.4 | 1635.6 |
| 5°     | 1627.6 | 1617.7 | 1625.8 | 1637.4 | 1637.4 | 1634.8 | 1633.0 | 1635.6 | 1645.5 | 1641.0 | 1631.2 |
| 7.5°   | 1622.2 | 1613.3 | 1618.6 | 1629.4 | 1629.4 | 1626.7 | 1624.9 | 1628.5 | 1636.5 | 1632.1 | 1621.3 |
| 10°    | 1612.4 | 1602.5 | 1608.8 | 1618.6 | 1617.7 | 1616.0 | 1613.3 | 1617.7 | 1624.9 | 1618.6 | 1606.1 |
| 12.5°  | 1599.8 | 1590.0 | 1595.4 | 1604.3 | 1603.4 | 1599.8 | 1598.0 | 1600.7 | 1607.0 | 1603.4 | 1590.0 |
| 15°    | 1582.8 | 1573.0 | 1577.5 | 1586.4 | 1583.7 | 1581.0 | 1577.5 | 1578.3 | 1586.4 | 1580.1 | 1565.8 |
| 17.5°  | 1562.2 | 1551.5 | 1555.1 | 1563.1 | 1560.4 | 1557.8 | 1553.3 | 1554.2 | 1563.1 | 1554.2 | 1539.0 |
| 20°    | 1537.2 | 1525.5 | 1528.2 | 1538.1 | 1533.6 | 1529.1 | 1524.6 | 1524.6 | 1533.6 | 1523.7 | 1506.7 |
| 22.5°  | 1510.3 | 1498.7 | 1500.5 | 1507.6 | 1504.0 | 1496.0 | 1491.5 | 1494.2 | 1498.7 | 1486.1 | 1468.2 |
| 25°    | 1477.2 | 1462.0 | 1464.7 | 1471.8 | 1469.1 | 1458.4 | 1453.9 | 1455.7 | 1453.9 | 1444.1 | 1425.3 |
| 27.5°  | 1438.7 | 1422.6 | 1424.4 | 1428.8 | 1425.3 | 1415.4 | 1410.0 | 1410.9 | 1407.4 | 1394.8 | 1373.3 |
| 30°    | 1390.3 | 1382.3 | 1381.4 | 1384.1 | 1378.7 | 1368.9 | 1362.6 | 1360.8 | 1359.9 | 1342.0 | 1316.0 |
| 32.5°  | 1341.1 | 1333.9 | 1329.5 | 1333.0 | 1326.8 | 1316.9 | 1306.2 | 1306.2 | 1297.2 | 1280.2 | 1257.8 |
| 35°    | 1291.0 | 1279.3 | 1274.9 | 1277.5 | 1270.4 | 1257.8 | 1248.9 | 1244.4 | 1231.0 | 1209.5 | 1185.3 |
| 37.5°  | 1226.5 | 1218.5 | 1213.1 | 1215.8 | 1207.7 | 1198.8 | 1181.7 | 1177.3 | 1162.9 | 1133.4 | 1103.0 |
| 40°    | 1156.7 | 1150.4 | 1145.0 | 1147.7 | 1138.8 | 1125.3 | 1110.1 | 1103.0 | 1086.8 | 1053.7 | 1029.6 |
| 42.5°  | 1081.5 | 1078.8 | 1072.5 | 1082.4 | 1064.5 | 1051.0 | 1035.8 | 1024.2 | 1008.1 | 972.3  | 944.5  |
| 45°    | 1001.8 | 1008.1 | 993.7  | 996.4  | 984.8  | 973.2  | 957.0  | 940.0  | 923.9  | 889.9  | 858.6  |
| 47.5°  | 917.6  | 922.1  | 912.3  | 914.1  | 901.5  | 890.8  | 876.5  | 855.0  | 837.1  | 807.5  | 779.8  |
| 50°    | 830.8  | 829.0  | 829.0  | 827.2  | 817.4  | 803.9  | 789.6  | 769.9  | 752.0  | 725.2  | 701.9  |
| 52.5°  | 738.6  | 742.2  | 744.0  | 748.4  | 735.9  | 727.8  | 705.5  | 688.5  | 675.0  | 647.3  | 627.6  |
| 55°    | 650.0  | 662.5  | 658.9  | 660.7  | 646.4  | 640.1  | 622.2  | 608.8  | 589.1  | 573.0  | 560.4  |
| 57.5°  | 569.4  | 572.1  | 573.9  | 576.5  | 570.3  | 557.7  | 543.4  | 532.7  | 517.5  | 504.0  | 495.1  |
| 60°    | 491.5  | 491.5  | 492.4  | 496.9  | 490.6  | 479.9  | 469.1  | 461.1  | 450.3  | 442.3  | 436.9  |
| 62.5°  | 418.1  | 424.4  | 425.3  | 421.7  | 413.6  | 408.2  | 401.1  | 396.6  | 389.4  | 386.8  | 385.0  |
| 65°    | 350.0  | 350.0  | 350.0  | 351.8  | 347.4  | 343.8  | 339.3  | 338.4  | 341.1  | 337.5  | 339.3  |
| 67.5°  | 292.8  | 290.1  | 288.3  | 289.2  | 287.4  | 285.6  | 284.7  | 287.4  | 292.8  | 292.8  | 297.2  |
| 70°    | 243.5  | 238.1  | 234.6  | 234.6  | 234.6  | 235.5  | 238.1  | 243.5  | 252.5  | 256.0  | 262.3  |
| 72.5°  | 203.2  | 191.6  | 186.2  | 186.2  | 187.1  | 190.7  | 198.7  | 208.6  | 216.7  | 223.8  | 231.9  |
| 75°    | 164.7  | 153.1  | 145.0  | 144.1  | 145.9  | 151.3  | 162.9  | 171.9  | 185.3  | 195.2  | 205.0  |
| 77.5°  | 133.4  | 119.1  | 109.2  | 108.3  | 111.0  | 119.1  | 133.4  | 145.0  | 160.3  | 171.0  | 181.7  |
| 80°    | 106.5  | 90.4   | 82.4   | 77.0   | 81.5   | 91.3   | 107.4  | 121.8  | 136.1  | 150.4  | 163.8  |
| 82.5°  | 85.1   | 69.8   | 57.3   | 51.9   | 57.3   | 70.7   | 85.9   | 103.0  | 117.3  | 132.5  | 145.9  |
| 85°    | 67.1   | 51.0   | 36.7   | 31.3   | 37.6   | 51.9   | 68.9   | 85.9   | 102.1  | 117.3  | 130.7  |
| 87.5°  | 52.8   | 36.7   | 22.4   | 15.2   | 23.3   | 38.5   | 54.6   | 71.6   | 88.6   | 103.9  | 117.3  |
| 90°    | 41.2   | 26.0   | 12.5   | 1.8    | 13.4   | 27.8   | 43.9   | 60.0   | 77.0   | 92.2   | 105.6  |
| 92.5°  | 34.9   | 19.7   | 7.2    | 0.0    | 8.1    | 20.6   | 35.8   | 51.9   | 67.1   | 82.4   | 95.8   |
| 95°    | 29.5   | 16.1   | 5.4    | 0.0    | 5.4    | 16.1   | 29.5   | 43.9   | 59.1   | 74.3   | 87.7   |
| 97.5°  | 25.1   | 12.5   | 3.6    | 0.0    | 3.6    | 12.5   | 24.2   | 38.5   | 51.9   | 66.2   | 78.8   |
| 100°   | 21.5   | 10.7   | 2.7    | 0.0    | 2.7    | 9.8    | 20.6   | 33.1   | 46.6   | 60.0   | 71.6   |
| 102.5° | 18.8   | 9.0    | 1.8    | 0.0    | 1.8    | 8.1    | 17.0   | 28.6   | 40.3   | 52.8   | 64.5   |
| 105°   | 16.1   | 7.2    | 1.8    | 0.0    | 0.9    | 6.3    | 14.3   | 25.1   | 35.8   | 47.4   | 58.2   |
| 107.5° | 14.3   | 6.3    | 1.8    | 0.0    | 0.9    | 5.4    | 12.5   | 21.5   | 32.2   | 42.1   | 51.9   |
| 110°   | 12.5   | 5.4    | 1.8    | 0.0    | 0.9    | 3.6    | 10.7   | 18.8   | 27.8   | 37.6   | 47.4   |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 10.7 | 4.5  | 0.9  | 0.0  | 0.0  | 2.7  | 9.0  | 16.1 | 24.2 | 34.0 | 42.1 |
| 115°   | 9.8  | 4.5  | 0.9  | 0.0  | 0.0  | 1.8  | 7.2  | 14.3 | 21.5 | 30.4 | 37.6 |
| 117.5° | 9.0  | 3.6  | 0.9  | 0.0  | 0.9  | 1.8  | 6.3  | 12.5 | 18.8 | 26.0 | 34.0 |
| 120°   | 8.1  | 3.6  | 0.9  | 0.0  | 0.9  | 0.9  | 4.5  | 10.7 | 16.1 | 23.3 | 29.5 |
| 122.5° | 7.2  | 3.6  | 0.9  | 0.0  | 0.9  | 0.9  | 3.6  | 9.0  | 14.3 | 20.6 | 26.0 |
| 125°   | 6.3  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 2.7  | 7.2  | 12.5 | 17.0 | 23.3 |
| 127.5° | 6.3  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 1.8  | 6.3  | 9.8  | 15.2 | 20.6 |
| 130°   | 5.4  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 4.5  | 9.0  | 12.5 | 17.0 |
| 132.5° | 4.5  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 2.7  | 6.3  | 10.7 | 14.3 |
| 135°   | 4.5  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 4.5  | 8.1  | 11.6 |
| 137.5° | 3.6  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 3.6  | 6.3  | 9.0  |
| 140°   | 3.6  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 2.7  | 4.5  | 7.2  |
| 142.5° | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 3.6  | 5.4  |
| 145°   | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 3.6  |
| 147.5° | 2.7  | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 2.7  |
| 150°   | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  |
| 152.5° | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  |
| 155°   | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  |
| 157.5° | 2.7  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  |
| 160°   | 2.7  | 1.8  | 1.8  | 0.9  | 1.8  | 0.9  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1632.1 | 1615.1 | 1624.0 | 1621.3 | 1624.9 | 1632.1 | 1631.2 | 1629.4 | 1629.4 | 1626.7 | 1623.1 |
| 5°     | 1626.7 | 1610.6 | 1618.6 | 1614.2 | 1618.6 | 1624.9 | 1624.0 | 1621.3 | 1623.1 | 1618.6 | 1614.2 |
| 7.5°   | 1616.0 | 1601.6 | 1608.8 | 1605.2 | 1608.8 | 1615.1 | 1612.4 | 1611.5 | 1613.3 | 1606.1 | 1603.4 |
| 10°    | 1603.4 | 1587.3 | 1595.4 | 1590.9 | 1595.4 | 1599.8 | 1598.0 | 1594.5 | 1598.0 | 1590.9 | 1588.2 |
| 12.5°  | 1583.7 | 1570.3 | 1575.7 | 1573.9 | 1576.6 | 1581.0 | 1577.5 | 1574.8 | 1576.6 | 1570.3 | 1564.9 |
| 15°    | 1562.2 | 1548.8 | 1553.3 | 1550.6 | 1552.4 | 1557.8 | 1551.5 | 1550.6 | 1548.8 | 1542.5 | 1540.7 |
| 17.5°  | 1534.5 | 1521.9 | 1526.4 | 1521.9 | 1524.6 | 1522.8 | 1521.9 | 1517.5 | 1517.5 | 1510.3 | 1504.9 |
| 20°    | 1500.5 | 1489.7 | 1487.0 | 1483.5 | 1487.0 | 1483.5 | 1478.1 | 1474.5 | 1473.6 | 1466.4 | 1462.0 |
| 22.5°  | 1461.1 | 1448.5 | 1450.3 | 1440.5 | 1441.4 | 1436.0 | 1427.1 | 1423.5 | 1419.9 | 1411.8 | 1405.6 |
| 25°    | 1413.6 | 1401.1 | 1392.1 | 1385.9 | 1377.8 | 1376.9 | 1365.3 | 1356.3 | 1355.4 | 1345.6 | 1344.7 |
| 27.5°  | 1359.9 | 1345.6 | 1338.4 | 1323.2 | 1313.4 | 1305.3 | 1295.4 | 1286.5 | 1282.0 | 1271.3 | 1264.1 |
| 30°    | 1298.1 | 1282.0 | 1264.1 | 1253.4 | 1238.1 | 1231.9 | 1214.9 | 1204.1 | 1200.5 | 1188.9 | 1183.5 |
| 32.5°  | 1228.3 | 1211.3 | 1197.0 | 1176.4 | 1159.4 | 1150.4 | 1133.4 | 1122.7 | 1118.2 | 1105.7 | 1098.5 |
| 35°    | 1152.2 | 1133.4 | 1116.4 | 1096.7 | 1083.3 | 1068.0 | 1047.5 | 1036.7 | 1026.9 | 1022.4 | 1017.0 |
| 37.5°  | 1072.5 | 1051.9 | 1032.2 | 1012.5 | 1000.9 | 983.0  | 965.1  | 957.9  | 946.3  | 941.8  | 936.4  |
| 40°    | 990.2  | 969.6  | 950.8  | 932.0  | 918.5  | 902.4  | 886.3  | 883.6  | 871.1  | 866.6  | 863.0  |
| 42.5°  | 908.7  | 887.2  | 865.7  | 852.3  | 842.4  | 826.3  | 815.6  | 812.9  | 802.2  | 799.5  | 799.5  |
| 45°    | 835.3  | 808.4  | 790.5  | 778.9  | 770.8  | 757.4  | 748.4  | 746.6  | 737.7  | 735.9  | 735.9  |
| 47.5°  | 756.5  | 731.4  | 718.0  | 710.8  | 703.7  | 693.8  | 688.5  | 688.5  | 679.5  | 677.7  | 676.8  |
| 50°    | 683.1  | 659.8  | 650.0  | 642.8  | 641.9  | 634.7  | 630.3  | 628.5  | 628.5  | 622.2  | 623.1  |
| 52.5°  | 613.3  | 601.6  | 593.6  | 589.1  | 583.7  | 579.2  | 575.7  | 575.7  | 573.0  | 568.5  | 570.3  |
| 55°    | 548.8  | 535.4  | 536.3  | 532.7  | 530.0  | 527.3  | 528.2  | 522.8  | 521.9  | 518.4  | 521.0  |
| 57.5°  | 484.3  | 484.3  | 482.5  | 479.9  | 475.4  | 477.2  | 477.2  | 477.2  | 472.7  | 470.0  | 472.7  |
| 60°    | 429.7  | 432.4  | 427.9  | 430.6  | 428.8  | 429.7  | 427.9  | 427.9  | 425.3  | 424.4  | 425.3  |
| 62.5°  | 381.4  | 385.9  | 384.1  | 387.6  | 385.9  | 386.8  | 388.5  | 385.0  | 383.2  | 381.4  | 383.2  |
| 65°    | 338.4  | 343.8  | 342.9  | 345.6  | 346.5  | 347.4  | 348.3  | 346.5  | 344.7  | 342.9  | 342.0  |
| 67.5°  | 300.8  | 306.2  | 309.8  | 310.7  | 311.6  | 314.2  | 313.3  | 311.6  | 309.8  | 307.1  | 306.2  |
| 70°    | 266.8  | 274.0  | 278.4  | 280.2  | 283.8  | 282.0  | 282.0  | 281.1  | 279.3  | 276.6  | 275.7  |
| 72.5°  | 238.1  | 246.2  | 250.7  | 252.5  | 256.0  | 256.0  | 255.2  | 254.3  | 252.5  | 249.8  | 248.9  |
| 75°    | 213.1  | 220.2  | 226.5  | 230.1  | 232.8  | 232.8  | 231.9  | 231.0  | 229.2  | 227.4  | 226.5  |
| 77.5°  | 193.4  | 199.6  | 205.0  | 209.5  | 211.3  | 212.2  | 211.3  | 209.5  | 209.5  | 208.6  | 207.7  |
| 80°    | 173.7  | 180.8  | 186.2  | 190.7  | 193.4  | 193.4  | 192.5  | 193.4  | 191.6  | 190.7  | 189.8  |
| 82.5°  | 156.7  | 164.7  | 171.0  | 175.5  | 177.3  | 178.2  | 177.3  | 178.2  | 176.4  | 176.4  | 176.4  |
| 85°    | 141.5  | 149.5  | 156.7  | 160.3  | 162.9  | 163.8  | 163.8  | 163.8  | 162.9  | 162.9  | 162.9  |
| 87.5°  | 128.9  | 137.0  | 144.1  | 147.7  | 150.4  | 151.3  | 151.3  | 152.2  | 150.4  | 150.4  | 150.4  |
| 90°    | 117.3  | 125.3  | 132.5  | 136.1  | 138.8  | 140.6  | 140.6  | 141.5  | 140.6  | 139.7  | 139.7  |
| 92.5°  | 106.5  | 115.5  | 122.7  | 126.2  | 128.9  | 131.6  | 131.6  | 132.5  | 130.7  | 130.7  | 130.7  |
| 95°    | 97.6   | 106.5  | 112.8  | 117.3  | 120.0  | 121.8  | 122.7  | 122.7  | 121.8  | 121.8  | 121.8  |
| 97.5°  | 89.5   | 97.6   | 103.9  | 108.3  | 111.0  | 111.9  | 112.8  | 113.7  | 112.8  | 112.8  | 112.8  |
| 100°   | 81.5   | 89.5   | 95.8   | 99.4   | 103.0  | 103.9  | 104.7  | 105.6  | 105.6  | 104.7  | 104.7  |
| 102.5° | 74.3   | 82.4   | 87.7   | 92.2   | 94.9   | 96.7   | 97.6   | 97.6   | 97.6   | 97.6   | 97.6   |
| 105°   | 67.1   | 75.2   | 80.6   | 85.1   | 87.7   | 89.5   | 90.4   | 91.3   | 91.3   | 90.4   | 90.4   |
| 107.5° | 60.9   | 68.0   | 74.3   | 77.9   | 81.5   | 83.3   | 84.2   | 84.2   | 85.1   | 84.2   | 84.2   |
| 110°   | 54.6   | 62.7   | 68.0   | 71.6   | 75.2   | 77.0   | 77.9   | 78.8   | 78.8   | 78.8   | 78.8   |



TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 50.1 | 56.4 | 61.8 | 65.4 | 68.9 | 70.7 | 71.6 | 72.5 | 73.4 | 72.5 | 72.5 |
| 115°   | 44.8 | 51.0 | 56.4 | 60.0 | 62.7 | 64.5 | 66.2 | 67.1 | 67.1 | 68.0 | 67.1 |
| 117.5° | 40.3 | 45.7 | 51.0 | 54.6 | 57.3 | 60.0 | 60.9 | 61.8 | 62.7 | 61.8 | 61.8 |
| 120°   | 35.8 | 41.2 | 45.7 | 49.2 | 51.9 | 54.6 | 55.5 | 56.4 | 57.3 | 56.4 | 56.4 |
| 122.5° | 32.2 | 36.7 | 41.2 | 44.8 | 47.4 | 49.2 | 51.0 | 51.0 | 51.9 | 51.9 | 51.9 |
| 125°   | 28.6 | 33.1 | 36.7 | 40.3 | 43.0 | 44.8 | 45.7 | 46.6 | 46.6 | 47.4 | 47.4 |
| 127.5° | 25.1 | 28.6 | 33.1 | 35.8 | 38.5 | 40.3 | 41.2 | 42.1 | 42.1 | 43.0 | 43.0 |
| 130°   | 21.5 | 25.1 | 28.6 | 31.3 | 34.0 | 35.8 | 36.7 | 37.6 | 38.5 | 38.5 | 38.5 |
| 132.5° | 18.8 | 22.4 | 25.1 | 27.8 | 29.5 | 31.3 | 33.1 | 34.0 | 34.0 | 34.0 | 34.0 |
| 135°   | 15.2 | 18.8 | 21.5 | 24.2 | 26.0 | 27.8 | 28.6 | 30.4 | 30.4 | 30.4 | 30.4 |
| 137.5° | 12.5 | 16.1 | 18.8 | 20.6 | 22.4 | 24.2 | 25.1 | 26.0 | 26.9 | 26.9 | 26.9 |
| 140°   | 9.8  | 12.5 | 15.2 | 17.9 | 19.7 | 20.6 | 22.4 | 22.4 | 23.3 | 23.3 | 23.3 |
| 142.5° | 7.2  | 9.8  | 11.6 | 14.3 | 16.1 | 17.9 | 18.8 | 19.7 | 19.7 | 19.7 | 19.7 |
| 145°   | 5.4  | 7.2  | 9.0  | 10.7 | 13.4 | 14.3 | 15.2 | 16.1 | 17.0 | 17.0 | 17.0 |
| 147.5° | 3.6  | 5.4  | 6.3  | 8.1  | 9.8  | 11.6 | 12.5 | 13.4 | 14.3 | 14.3 | 14.3 |
| 150°   | 2.7  | 3.6  | 5.4  | 6.3  | 7.2  | 9.0  | 10.7 | 10.7 | 11.6 | 11.6 | 10.7 |
| 152.5° | 1.8  | 2.7  | 3.6  | 4.5  | 5.4  | 6.3  | 8.1  | 8.1  | 9.0  | 9.0  | 9.0  |
| 155°   | 1.8  | 1.8  | 1.8  | 2.7  | 3.6  | 4.5  | 5.4  | 6.3  | 6.3  | 6.3  | 6.3  |
| 157.5° | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 2.7  | 3.6  | 4.5  | 4.5  | 4.5  | 4.5  |
| 160°   | 1.8  | 1.8  | 0.9  | 0.9  | 1.8  | 1.8  | 1.8  | 1.8  | 2.7  | 2.7  | 2.7  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1625.8 | 1627.6 | 1627.6 | 1625.8 | 1624.9 | 1628.5 | 1624.0 | 1607.0 | 1612.4 | 1614.2 | 1619.5 |
| 5°     | 1617.7 | 1619.5 | 1619.5 | 1619.5 | 1617.7 | 1621.3 | 1616.8 | 1599.8 | 1606.1 | 1608.8 | 1612.4 |
| 7.5°   | 1606.1 | 1607.0 | 1608.8 | 1607.9 | 1606.1 | 1611.5 | 1607.0 | 1590.0 | 1594.5 | 1598.9 | 1603.4 |
| 10°    | 1590.9 | 1590.9 | 1591.8 | 1593.6 | 1591.8 | 1596.3 | 1591.8 | 1576.6 | 1581.0 | 1583.7 | 1589.1 |
| 12.5°  | 1570.3 | 1572.1 | 1573.0 | 1572.1 | 1571.2 | 1574.8 | 1573.0 | 1558.7 | 1560.4 | 1565.8 | 1571.2 |
| 15°    | 1542.5 | 1542.5 | 1547.0 | 1545.2 | 1545.2 | 1548.8 | 1550.6 | 1534.5 | 1537.2 | 1545.2 | 1550.6 |
| 17.5°  | 1508.5 | 1509.4 | 1513.0 | 1514.8 | 1513.9 | 1520.2 | 1521.1 | 1508.5 | 1507.6 | 1517.5 | 1522.8 |
| 20°    | 1464.7 | 1466.4 | 1470.9 | 1474.5 | 1474.5 | 1481.7 | 1484.3 | 1476.3 | 1477.2 | 1487.9 | 1489.7 |
| 22.5°  | 1410.9 | 1410.9 | 1419.0 | 1424.4 | 1428.8 | 1433.3 | 1441.4 | 1434.2 | 1434.2 | 1448.5 | 1456.6 |
| 25°    | 1344.7 | 1351.0 | 1353.6 | 1364.4 | 1370.6 | 1383.2 | 1390.3 | 1391.2 | 1392.1 | 1405.6 | 1410.9 |
| 27.5°  | 1271.3 | 1273.1 | 1281.1 | 1293.7 | 1300.8 | 1312.5 | 1325.9 | 1328.6 | 1333.0 | 1351.0 | 1359.0 |
| 30°    | 1188.0 | 1193.4 | 1197.0 | 1214.9 | 1224.7 | 1239.9 | 1257.0 | 1263.2 | 1266.8 | 1291.0 | 1300.8 |
| 32.5°  | 1103.0 | 1104.8 | 1120.0 | 1129.8 | 1141.5 | 1157.6 | 1177.3 | 1188.9 | 1196.1 | 1221.1 | 1235.5 |
| 35°    | 1017.9 | 1021.5 | 1034.0 | 1046.6 | 1058.2 | 1074.3 | 1094.9 | 1111.0 | 1123.6 | 1145.9 | 1164.7 |
| 37.5°  | 940.0  | 949.0  | 951.7  | 964.2  | 973.2  | 989.3  | 1003.6 | 1026.9 | 1039.4 | 1062.7 | 1086.8 |
| 40°    | 870.2  | 872.9  | 874.7  | 887.2  | 893.5  | 908.7  | 929.3  | 944.5  | 961.5  | 978.5  | 1007.2 |
| 42.5°  | 801.3  | 803.1  | 805.7  | 812.9  | 820.1  | 830.8  | 846.0  | 861.2  | 879.1  | 904.2  | 923.0  |
| 45°    | 737.7  | 739.5  | 741.3  | 745.8  | 752.0  | 761.9  | 771.7  | 782.5  | 800.4  | 821.9  | 841.5  |
| 47.5°  | 678.6  | 682.2  | 682.2  | 683.1  | 687.6  | 695.6  | 702.8  | 716.2  | 726.1  | 737.7  | 760.1  |
| 50°    | 622.2  | 624.9  | 625.8  | 625.8  | 628.5  | 633.8  | 635.6  | 644.6  | 653.5  | 664.3  | 680.4  |
| 52.5°  | 569.4  | 569.4  | 568.5  | 572.1  | 572.1  | 575.7  | 576.5  | 581.9  | 588.2  | 599.8  | 607.0  |
| 55°    | 519.3  | 519.3  | 521.9  | 520.1  | 520.1  | 521.9  | 521.0  | 521.9  | 527.3  | 534.5  | 540.7  |
| 57.5°  | 470.9  | 470.0  | 472.7  | 470.9  | 470.0  | 471.8  | 473.6  | 470.0  | 470.9  | 478.1  | 478.1  |
| 60°    | 422.6  | 423.5  | 426.1  | 424.4  | 424.4  | 424.4  | 422.6  | 420.8  | 419.0  | 423.5  | 425.3  |
| 62.5°  | 384.1  | 381.4  | 384.1  | 381.4  | 383.2  | 382.3  | 380.5  | 376.9  | 377.8  | 376.0  | 374.2  |
| 65°    | 343.8  | 343.8  | 344.7  | 342.0  | 343.8  | 343.8  | 341.1  | 340.2  | 334.8  | 333.0  | 328.6  |
| 67.5°  | 308.9  | 308.9  | 309.8  | 308.0  | 308.0  | 308.9  | 306.2  | 303.5  | 298.1  | 295.4  | 289.2  |
| 70°    | 278.4  | 278.4  | 278.4  | 277.5  | 277.5  | 277.5  | 275.7  | 272.2  | 266.8  | 262.3  | 254.3  |
| 72.5°  | 250.7  | 251.6  | 250.7  | 250.7  | 253.4  | 250.7  | 248.0  | 244.4  | 239.9  | 231.0  | 223.8  |
| 75°    | 228.3  | 229.2  | 228.3  | 228.3  | 228.3  | 227.4  | 226.5  | 221.1  | 215.8  | 208.6  | 197.9  |
| 77.5°  | 208.6  | 208.6  | 209.5  | 208.6  | 208.6  | 207.7  | 205.0  | 200.5  | 194.3  | 188.0  | 175.5  |
| 80°    | 189.8  | 190.7  | 191.6  | 192.5  | 190.7  | 189.8  | 187.1  | 183.5  | 175.5  | 168.3  | 155.8  |
| 82.5°  | 176.4  | 175.5  | 176.4  | 177.3  | 175.5  | 174.6  | 171.9  | 167.4  | 161.1  | 151.3  | 138.8  |
| 85°    | 162.9  | 162.0  | 162.0  | 162.9  | 162.0  | 160.3  | 157.6  | 153.1  | 146.8  | 137.0  | 124.4  |
| 87.5°  | 149.5  | 150.4  | 151.3  | 150.4  | 149.5  | 147.7  | 145.0  | 140.6  | 133.4  | 125.3  | 111.9  |
| 90°    | 139.7  | 139.7  | 139.7  | 139.7  | 138.8  | 137.0  | 134.3  | 128.9  | 122.7  | 112.8  | 101.2  |
| 92.5°  | 130.7  | 130.7  | 130.7  | 130.7  | 129.8  | 127.1  | 124.4  | 120.0  | 112.8  | 103.0  | 92.2   |
| 95°    | 121.8  | 122.7  | 121.8  | 121.8  | 120.0  | 119.1  | 114.6  | 110.1  | 103.9  | 94.0   | 82.4   |
| 97.5°  | 111.9  | 112.8  | 111.9  | 111.9  | 111.0  | 109.2  | 106.5  | 101.2  | 94.9   | 85.9   | 75.2   |
| 100°   | 104.7  | 104.7  | 103.9  | 103.9  | 103.0  | 101.2  | 97.6   | 93.1   | 86.8   | 77.9   | 67.1   |
| 102.5° | 96.7   | 97.6   | 96.7   | 96.7   | 94.9   | 93.1   | 90.4   | 85.9   | 79.7   | 70.7   | 60.9   |
| 105°   | 90.4   | 90.4   | 89.5   | 89.5   | 87.7   | 85.9   | 83.3   | 77.9   | 72.5   | 64.5   | 54.6   |
| 107.5° | 84.2   | 84.2   | 83.3   | 83.3   | 81.5   | 79.7   | 76.1   | 71.6   | 66.2   | 58.2   | 49.2   |
| 110°   | 77.9   | 77.9   | 77.9   | 77.0   | 75.2   | 72.5   | 69.8   | 65.4   | 60.0   | 52.8   | 43.9   |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 73.4 | 72.5 | 71.6 | 70.7 | 68.9 | 67.1 | 63.6 | 59.1 | 53.7 | 47.4 | 39.4 |
| 115°   | 67.1 | 67.1 | 66.2 | 65.4 | 63.6 | 60.9 | 58.2 | 54.6 | 49.2 | 42.1 | 34.9 |
| 117.5° | 61.8 | 61.8 | 60.9 | 60.0 | 58.2 | 55.5 | 52.8 | 49.2 | 43.9 | 37.6 | 31.3 |
| 120°   | 56.4 | 56.4 | 55.5 | 54.6 | 52.8 | 50.1 | 48.3 | 43.9 | 39.4 | 33.1 | 27.8 |
| 122.5° | 51.9 | 51.0 | 51.0 | 49.2 | 48.3 | 45.7 | 43.0 | 39.4 | 34.9 | 29.5 | 24.2 |
| 125°   | 46.6 | 46.6 | 45.7 | 44.8 | 43.9 | 41.2 | 38.5 | 34.9 | 30.4 | 26.0 | 21.5 |
| 127.5° | 42.1 | 42.1 | 41.2 | 40.3 | 39.4 | 36.7 | 34.0 | 31.3 | 26.9 | 22.4 | 17.9 |
| 130°   | 37.6 | 37.6 | 36.7 | 35.8 | 34.9 | 32.2 | 30.4 | 26.9 | 23.3 | 19.7 | 15.2 |
| 132.5° | 34.0 | 34.0 | 33.1 | 32.2 | 30.4 | 28.6 | 26.9 | 23.3 | 20.6 | 17.0 | 13.4 |
| 135°   | 30.4 | 29.5 | 29.5 | 28.6 | 26.9 | 25.1 | 23.3 | 20.6 | 17.0 | 14.3 | 10.7 |
| 137.5° | 26.9 | 26.0 | 25.1 | 24.2 | 23.3 | 21.5 | 19.7 | 17.9 | 15.2 | 11.6 | 9.0  |
| 140°   | 23.3 | 22.4 | 22.4 | 21.5 | 19.7 | 18.8 | 17.0 | 14.3 | 12.5 | 9.8  | 7.2  |
| 142.5° | 19.7 | 19.7 | 18.8 | 17.9 | 17.0 | 16.1 | 14.3 | 12.5 | 9.8  | 8.1  | 5.4  |
| 145°   | 17.0 | 16.1 | 16.1 | 15.2 | 14.3 | 12.5 | 11.6 | 9.8  | 8.1  | 6.3  | 4.5  |
| 147.5° | 13.4 | 13.4 | 13.4 | 12.5 | 11.6 | 10.7 | 9.8  | 8.1  | 6.3  | 4.5  | 2.7  |
| 150°   | 10.7 | 10.7 | 10.7 | 9.8  | 9.0  | 8.1  | 7.2  | 6.3  | 4.5  | 2.7  | 1.8  |
| 152.5° | 9.0  | 9.0  | 8.1  | 8.1  | 7.2  | 6.3  | 5.4  | 4.5  | 2.7  | 1.8  | 1.8  |
| 155°   | 6.3  | 6.3  | 6.3  | 5.4  | 5.4  | 4.5  | 3.6  | 2.7  | 1.8  | 1.8  | 1.8  |
| 157.5° | 4.5  | 4.5  | 4.5  | 3.6  | 3.6  | 2.7  | 2.7  | 1.8  | 1.8  | 1.8  | 1.8  |
| 160°   | 2.7  | 2.7  | 2.7  | 2.7  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 | 1627.6 |
| 2.5°   | 1616.8 | 1616.0 | 1623.1 | 1623.1 | 1615.1 | 1627.6 | 1641.0 |
| 5°     | 1611.5 | 1610.6 | 1617.7 | 1617.7 | 1610.6 | 1623.1 | 1637.4 |
| 7.5°   | 1600.7 | 1601.6 | 1608.8 | 1610.6 | 1601.6 | 1613.3 | 1628.5 |
| 10°    | 1589.1 | 1588.2 | 1596.3 | 1598.0 | 1590.9 | 1601.6 | 1616.0 |
| 12.5°  | 1570.3 | 1570.3 | 1578.3 | 1581.0 | 1573.9 | 1586.4 | 1599.8 |
| 15°    | 1550.6 | 1550.6 | 1556.0 | 1560.4 | 1554.2 | 1565.8 | 1579.2 |
| 17.5°  | 1525.5 | 1524.6 | 1530.0 | 1535.4 | 1529.1 | 1541.6 | 1556.0 |
| 20°    | 1493.3 | 1493.3 | 1499.6 | 1505.8 | 1501.4 | 1513.0 | 1529.1 |
| 22.5°  | 1459.3 | 1455.7 | 1466.4 | 1470.9 | 1468.2 | 1479.9 | 1496.0 |
| 25°    | 1416.3 | 1415.4 | 1426.2 | 1432.4 | 1428.8 | 1441.4 | 1455.7 |
| 27.5°  | 1369.8 | 1368.9 | 1379.6 | 1387.7 | 1385.9 | 1397.5 | 1413.6 |
| 30°    | 1313.4 | 1317.8 | 1327.7 | 1341.1 | 1336.6 | 1349.2 | 1366.2 |
| 32.5°  | 1254.3 | 1258.7 | 1270.4 | 1284.7 | 1285.6 | 1295.4 | 1312.5 |
| 35°    | 1183.5 | 1195.2 | 1203.2 | 1222.0 | 1225.6 | 1235.5 | 1253.4 |
| 37.5°  | 1109.2 | 1122.7 | 1139.7 | 1154.0 | 1161.2 | 1169.2 | 1189.8 |
| 40°    | 1026.0 | 1045.7 | 1064.5 | 1081.5 | 1090.4 | 1098.5 | 1118.2 |
| 42.5°  | 950.8  | 966.0  | 983.9  | 1000.9 | 1017.0 | 1024.2 | 1044.8 |
| 45°    | 865.7  | 883.6  | 899.7  | 920.3  | 936.4  | 944.5  | 965.1  |
| 47.5°  | 782.5  | 800.4  | 821.9  | 836.2  | 853.2  | 861.2  | 880.9  |
| 50°    | 702.8  | 718.9  | 736.8  | 753.8  | 768.1  | 775.3  | 792.3  |
| 52.5°  | 624.0  | 641.0  | 658.0  | 668.8  | 684.0  | 689.4  | 703.7  |
| 55°    | 554.2  | 565.8  | 581.0  | 587.3  | 602.5  | 606.1  | 615.9  |
| 57.5°  | 487.0  | 495.1  | 500.5  | 511.2  | 521.9  | 530.0  | 541.6  |
| 60°    | 426.1  | 429.7  | 433.3  | 439.6  | 448.5  | 451.2  | 455.7  |
| 62.5°  | 371.5  | 370.6  | 377.8  | 379.6  | 380.5  | 389.4  | 385.0  |
| 65°    | 323.2  | 324.1  | 317.8  | 315.1  | 318.7  | 321.4  | 319.6  |
| 67.5°  | 282.9  | 277.5  | 272.2  | 265.9  | 260.5  | 263.2  | 260.5  |
| 70°    | 243.5  | 239.0  | 230.1  | 221.1  | 217.5  | 212.2  | 209.5  |
| 72.5°  | 212.2  | 201.4  | 192.5  | 180.8  | 174.6  | 168.3  | 163.8  |
| 75°    | 188.0  | 172.8  | 160.3  | 147.7  | 138.8  | 129.8  | 128.0  |
| 77.5°  | 162.9  | 148.6  | 134.3  | 120.9  | 107.4  | 97.6   | 94.0   |
| 80°    | 143.2  | 129.8  | 112.8  | 96.7   | 82.4   | 69.8   | 65.4   |
| 82.5°  | 125.3  | 111.0  | 94.0   | 77.0   | 60.9   | 47.4   | 42.1   |
| 85°    | 110.1  | 94.9   | 77.9   | 60.9   | 44.8   | 30.4   | 23.3   |
| 87.5°  | 98.5   | 81.5   | 64.5   | 48.3   | 31.3   | 17.0   | 9.0    |
| 90°    | 87.7   | 71.6   | 55.5   | 38.5   | 22.4   | 9.0    | 0.0    |
| 92.5°  | 77.9   | 62.7   | 46.6   | 31.3   | 17.0   | 5.4    | 0.9    |
| 95°    | 68.9   | 55.5   | 39.4   | 25.1   | 12.5   | 3.6    | 0.9    |
| 97.5°  | 61.8   | 48.3   | 34.0   | 20.6   | 9.8    | 2.7    | 0.9    |
| 100°   | 55.5   | 42.1   | 29.5   | 17.0   | 8.1    | 1.8    | 0.9    |
| 102.5° | 49.2   | 37.6   | 25.1   | 14.3   | 6.3    | 0.9    | 0.9    |
| 105°   | 43.9   | 33.1   | 21.5   | 12.5   | 5.4    | 0.9    | 0.9    |
| 107.5° | 39.4   | 29.5   | 18.8   | 10.7   | 3.6    | 0.9    | 0.9    |
| 110°   | 34.9   | 25.1   | 16.1   | 9.0    | 2.7    | 0.9    | 0.9    |



TEST NUMBER: P1213445

CATALOG NUMBER: 4SNLED-LD5-49SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 31.3 | 22.4 | 14.3 | 7.2  | 1.8  | 0.9  | 0.9  |
| 115°   | 27.8 | 19.7 | 12.5 | 6.3  | 1.8  | 0.9  | 0.9  |
| 117.5° | 24.2 | 17.0 | 10.7 | 4.5  | 0.9  | 0.9  | 0.9  |
| 120°   | 21.5 | 15.2 | 9.0  | 3.6  | 0.9  | 0.9  | 0.9  |
| 122.5° | 18.8 | 12.5 | 7.2  | 2.7  | 0.9  | 0.9  | 0.9  |
| 125°   | 16.1 | 10.7 | 6.3  | 1.8  | 0.9  | 0.9  | 0.9  |
| 127.5° | 13.4 | 9.0  | 4.5  | 1.8  | 0.9  | 0.9  | 0.9  |
| 130°   | 11.6 | 7.2  | 3.6  | 0.9  | 0.9  | 0.9  | 0.9  |
| 132.5° | 9.8  | 5.4  | 2.7  | 0.9  | 0.9  | 0.9  | 0.9  |
| 135°   | 8.1  | 4.5  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  |
| 137.5° | 6.3  | 3.6  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  |
| 140°   | 4.5  | 2.7  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 142.5° | 3.6  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 145°   | 2.7  | 1.8  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 147.5° | 1.8  | 1.8  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  |
| 150°   | 1.8  | 1.8  | 0.9  | 0.9  | 1.8  | 0.9  | 0.9  |
| 152.5° | 1.8  | 0.9  | 0.9  | 0.9  | 1.8  | 0.9  | 0.9  |
| 155°   | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 0.9  |
| 157.5° | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  |
| 160°   | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)