

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: P1213460

Luminaire Tested: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213460  
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-LD5-53SL-LN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

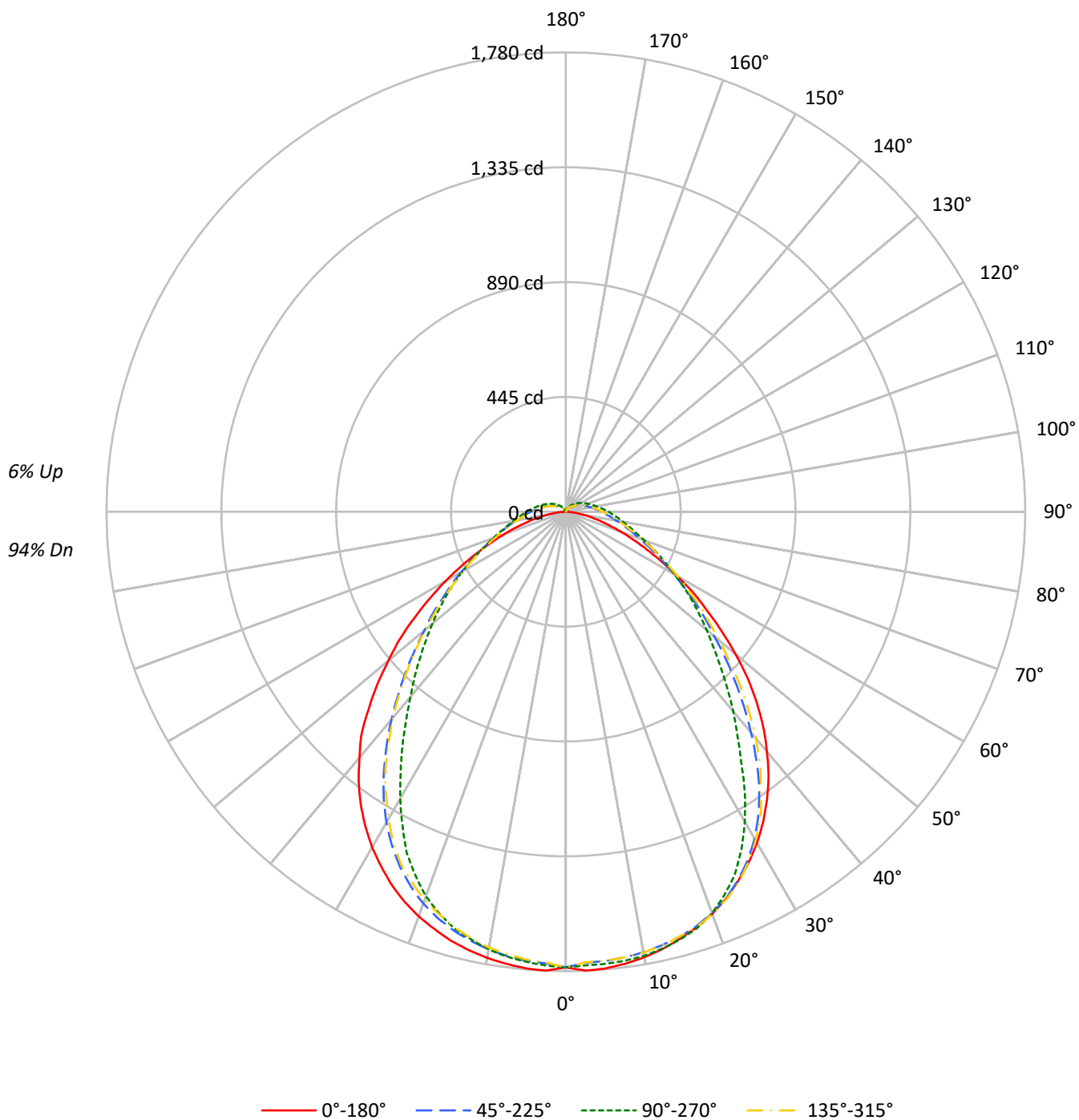
Lumens per Lamp: N/A  
Luminaire Lumens: 4467.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 41  
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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213460

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 94 |    |    |
| 1   | 107 | 103 | 98  | 95  | 104 | 100 | 96  | 92  | 94  | 91  | 88  | 89  | 87  | 85  | 85 | 83 | 81 | 79 |    |    |
| 2   | 98  | 90  | 84  | 78  | 95  | 88  | 82  | 77  | 83  | 78  | 74  | 79  | 75  | 72  | 75 | 72 | 69 | 67 |    |    |
| 3   | 90  | 80  | 72  | 66  | 87  | 78  | 71  | 65  | 74  | 68  | 63  | 71  | 66  | 61  | 67 | 63 | 60 | 57 |    |    |
| 4   | 83  | 72  | 63  | 57  | 80  | 70  | 62  | 56  | 67  | 60  | 55  | 64  | 58  | 53  | 61 | 56 | 52 | 50 |    |    |
| 5   | 77  | 64  | 56  | 50  | 74  | 63  | 55  | 49  | 60  | 53  | 48  | 58  | 52  | 47  | 55 | 50 | 46 | 44 |    |    |
| 6   | 71  | 58  | 50  | 44  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 52  | 46  | 42  | 50 | 45 | 41 | 39 |    |    |
| 7   | 66  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 37  | 46 | 41 | 37 | 35 |    |    |
| 8   | 62  | 49  | 41  | 35  | 60  | 48  | 40  | 35  | 46  | 39  | 34  | 44  | 38  | 34  | 43 | 37 | 33 | 31 |    |    |
| 9   | 58  | 45  | 37  | 32  | 56  | 44  | 37  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 40 | 34 | 30 | 28 |    |    |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 37 | 31 | 27 | 26 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 14264 | 14264 | 14264 | 14264 |
| 5°  | 14366 | 13810 | 14366 | 13748 |
| 10° | 14302 | 13443 | 14325 | 13256 |
| 15° | 14210 | 13041 | 14273 | 12701 |
| 20° | 14100 | 12525 | 14183 | 11996 |
| 25° | 13874 | 11759 | 14028 | 11066 |
| 30° | 13580 | 10632 | 13758 | 9843  |
| 35° | 13122 | 9253  | 13375 | 8616  |
| 40° | 12466 | 8093  | 12795 | 7508  |
| 45° | 11598 | 7035  | 11975 | 6632  |
| 50° | 10414 | 6182  | 10873 | 5869  |
| 55° | 9009  | 5459  | 9663  | 5183  |
| 60° | 7577  | 4792  | 8262  | 4517  |
| 65° | 6211  | 4237  | 6838  | 3929  |
| 70° | 4944  | 3760  | 5536  | 3478  |
| 75° | 3881  | 3472  | 4370  | 3194  |
| 80° | 2803  | 3349  | 3301  | 3061  |
| 85° | 1722  | 3368  | 2323  | 3097  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11975 cd/sqm

TEST NUMBER: P1213460

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.3  | 3.7       |
| 10°-20°   | 479.8  | 10.7      |
| 20°-30°   | 711.1  | 15.9      |
| 30°-40°   | 790.1  | 17.7      |
| 40°-50°   | 716.2  | 16.0      |
| 50°-60°   | 555.0  | 12.4      |
| 60°-70°   | 376.9  | 8.4       |
| 70°-80°   | 239.8  | 5.4       |
| 80°-90°   | 153.3  | 3.4       |
| 90°-100°  | 103.3  | 2.3       |
| 100°-110° | 70.8   | 1.6       |
| 110°-120° | 47.2   | 1.1       |
| 120°-130° | 29.4   | 0.7       |
| 130°-140° | 16.2   | 0.4       |
| 140°-150° | 7.6    | 0.2       |
| 150°-160° | 2.8    | 0.1       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1358.3 | 30.4      |
| 0°-40°    | 2148.4 | 48.1      |
| 0°-60°    | 3419.5 | 76.6      |
| 0°-90°    | 4189.4 | 93.8      |
| 90°-120°  | 221.4  | 5.0       |
| 90°-150°  | 274.6  | 6.1       |
| 90°-180°  | 278.0  | 6.2       |
| 0°-180°   | 4467.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1765 | 1765 | 1765 | 1765 | 1765 |      |
| 5°   | 1776 | 1758 | 1776 | 1750 | 1776 | 169  |
| 15°  | 1713 | 1716 | 1720 | 1671 | 1713 | 483  |
| 25°  | 1579 | 1550 | 1596 | 1458 | 1579 | 727  |
| 35°  | 1359 | 1184 | 1386 | 1103 | 1359 | 848  |
| 45°  | 1047 | 847  | 1081 | 798  | 1047 | 804  |
| 55°  | 668  | 595  | 716  | 565  | 668  | 601  |
| 65°  | 347  | 400  | 382  | 371  | 347  | 348  |
| 75°  | 139  | 267  | 156  | 246  | 139  | 149  |
| 85°  | 25   | 192  | 34   | 177  | 25   | 30   |
| 90°  | 0    | 166  | 2    | 152  | 0    | 1    |
| 95°  | 1    | 142  | 0    | 132  | 1    | 1    |
| 105° | 1    | 104  | 0    | 98   | 1    | 1    |
| 115° | 1    | 79   | 0    | 73   | 1    | 1    |
| 125° | 1    | 58   | 1    | 52   | 1    | 1    |
| 135° | 1    | 41   | 1    | 33   | 1    | 1    |
| 145° | 1    | 26   | 1    | 18   | 1    | 1    |
| 155° | 1    | 15   | 1    | 7    | 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1779.7 | 1777.7 | 1775.8 | 1772.9 | 1775.8 | 1783.5 | 1778.7 | 1768.0 | 1766.1 | 1748.6 | 1756.4 |
| 5°     | 1775.8 | 1772.9 | 1770.9 | 1768.0 | 1771.9 | 1781.6 | 1776.7 | 1767.0 | 1764.1 | 1747.6 | 1756.4 |
| 7.5°   | 1766.1 | 1764.1 | 1761.2 | 1761.2 | 1765.1 | 1774.8 | 1770.9 | 1760.2 | 1758.3 | 1741.8 | 1751.5 |
| 10°    | 1752.5 | 1751.5 | 1749.6 | 1749.6 | 1753.4 | 1765.1 | 1760.2 | 1750.5 | 1748.6 | 1733.1 | 1743.7 |
| 12.5°  | 1735.0 | 1736.0 | 1733.1 | 1733.1 | 1738.9 | 1750.5 | 1746.7 | 1736.0 | 1734.0 | 1720.4 | 1731.1 |
| 15°    | 1712.7 | 1713.6 | 1711.7 | 1712.7 | 1718.5 | 1732.1 | 1727.2 | 1717.5 | 1715.6 | 1704.9 | 1713.6 |
| 17.5°  | 1687.4 | 1688.4 | 1688.4 | 1687.4 | 1694.2 | 1707.8 | 1703.9 | 1695.2 | 1692.3 | 1683.5 | 1694.2 |
| 20°    | 1658.3 | 1658.3 | 1658.3 | 1658.3 | 1666.1 | 1679.7 | 1674.8 | 1668.0 | 1662.2 | 1655.4 | 1664.1 |
| 22.5°  | 1622.4 | 1621.4 | 1622.4 | 1625.3 | 1633.1 | 1643.7 | 1640.8 | 1633.1 | 1624.3 | 1620.4 | 1627.2 |
| 25°    | 1578.7 | 1581.6 | 1582.6 | 1585.5 | 1595.2 | 1603.9 | 1601.0 | 1593.2 | 1579.7 | 1576.7 | 1578.7 |
| 27.5°  | 1533.1 | 1535.0 | 1537.9 | 1536.9 | 1550.5 | 1559.3 | 1553.4 | 1546.6 | 1527.2 | 1524.3 | 1522.4 |
| 30°    | 1481.6 | 1484.5 | 1486.4 | 1485.5 | 1496.2 | 1505.9 | 1500.0 | 1491.3 | 1465.1 | 1463.1 | 1447.6 |
| 32.5°  | 1423.3 | 1426.3 | 1428.2 | 1428.2 | 1443.7 | 1447.6 | 1436.9 | 1424.3 | 1396.2 | 1389.4 | 1375.8 |
| 35°    | 1359.3 | 1362.2 | 1363.1 | 1363.1 | 1378.7 | 1377.7 | 1364.1 | 1346.6 | 1315.6 | 1306.8 | 1283.5 |
| 37.5°  | 1290.3 | 1292.3 | 1293.2 | 1299.1 | 1305.9 | 1300.0 | 1282.6 | 1260.2 | 1236.9 | 1212.7 | 1187.4 |
| 40°    | 1212.7 | 1215.6 | 1217.5 | 1221.4 | 1228.2 | 1221.4 | 1196.2 | 1169.0 | 1143.7 | 1116.5 | 1091.3 |
| 42.5°  | 1133.0 | 1141.8 | 1139.8 | 1138.9 | 1142.8 | 1124.3 | 1104.9 | 1073.8 | 1048.6 | 1020.4 | 995.2  |
| 45°    | 1046.6 | 1045.7 | 1050.5 | 1052.5 | 1051.5 | 1036.0 | 1008.8 | 980.6  | 955.4  | 926.2  | 904.9  |
| 47.5°  | 955.4  | 954.4  | 958.3  | 960.2  | 954.4  | 937.9  | 916.5  | 884.5  | 863.1  | 837.9  | 821.4  |
| 50°    | 859.2  | 859.2  | 865.1  | 859.2  | 856.3  | 839.8  | 822.4  | 790.3  | 773.8  | 751.5  | 741.8  |
| 52.5°  | 763.1  | 771.9  | 766.0  | 764.1  | 761.2  | 744.7  | 731.1  | 704.9  | 691.3  | 681.6  | 669.9  |
| 55°    | 668.0  | 677.7  | 673.8  | 670.9  | 669.9  | 656.3  | 643.7  | 624.3  | 615.6  | 608.8  | 602.0  |
| 57.5°  | 587.4  | 586.4  | 584.5  | 581.6  | 582.5  | 571.9  | 559.2  | 548.6  | 544.7  | 541.8  | 543.7  |
| 60°    | 494.2  | 502.0  | 499.0  | 500.0  | 501.0  | 499.0  | 488.4  | 481.6  | 482.5  | 483.5  | 486.4  |
| 62.5°  | 417.5  | 424.3  | 429.1  | 425.3  | 427.2  | 430.1  | 424.3  | 422.3  | 426.2  | 430.1  | 434.0  |
| 65°    | 346.6  | 353.4  | 358.3  | 357.3  | 363.1  | 368.9  | 368.0  | 369.9  | 378.7  | 383.5  | 388.4  |
| 67.5°  | 282.5  | 289.3  | 296.1  | 297.1  | 305.8  | 314.6  | 318.5  | 325.3  | 335.0  | 341.8  | 347.6  |
| 70°    | 227.2  | 233.0  | 240.8  | 245.6  | 257.3  | 268.9  | 275.7  | 289.3  | 295.2  | 304.9  | 308.7  |
| 72.5°  | 177.7  | 182.5  | 193.2  | 204.9  | 214.6  | 229.1  | 242.7  | 254.4  | 263.1  | 273.8  | 278.6  |
| 75°    | 138.8  | 140.8  | 152.4  | 166.0  | 179.6  | 196.1  | 210.7  | 223.3  | 235.0  | 245.6  | 253.4  |
| 77.5°  | 101.9  | 104.9  | 115.5  | 134.0  | 149.5  | 167.0  | 183.5  | 197.1  | 209.7  | 220.4  | 231.1  |
| 80°    | 70.9   | 76.7   | 88.4   | 106.8  | 124.3  | 143.7  | 159.2  | 174.8  | 188.4  | 199.0  | 209.7  |
| 82.5°  | 45.6   | 50.5   | 67.0   | 85.4   | 103.9  | 123.3  | 139.8  | 155.3  | 169.9  | 181.6  | 191.3  |
| 85°    | 25.2   | 32.0   | 48.5   | 68.0   | 86.4   | 105.8  | 123.3  | 138.8  | 153.4  | 164.1  | 173.8  |
| 87.5°  | 9.7    | 19.4   | 35.0   | 53.4   | 71.8   | 90.3   | 108.7  | 123.3  | 137.9  | 149.5  | 158.3  |
| 90°    | 0.0    | 11.7   | 26.2   | 44.7   | 63.1   | 81.6   | 99.0   | 114.6  | 128.2  | 138.8  | 148.5  |
| 92.5°  | 1.0    | 7.8    | 20.4   | 35.9   | 53.4   | 70.9   | 87.4   | 102.9  | 116.5  | 127.2  | 135.9  |
| 95°    | 1.0    | 5.8    | 16.5   | 31.1   | 46.6   | 63.1   | 78.6   | 93.2   | 105.8  | 116.5  | 125.2  |
| 97.5°  | 1.0    | 3.9    | 13.6   | 27.2   | 40.8   | 57.3   | 71.8   | 85.4   | 97.1   | 107.8  | 114.6  |
| 100°   | 1.0    | 3.9    | 11.7   | 23.3   | 36.9   | 51.5   | 65.1   | 78.6   | 89.3   | 98.1   | 105.8  |
| 102.5° | 1.0    | 2.9    | 9.7    | 20.4   | 33.0   | 45.6   | 59.2   | 71.8   | 81.6   | 90.3   | 98.1   |
| 105°   | 1.0    | 2.9    | 8.7    | 17.5   | 29.1   | 41.7   | 53.4   | 65.1   | 75.7   | 83.5   | 90.3   |
| 107.5° | 1.0    | 1.9    | 7.8    | 14.6   | 25.2   | 37.9   | 49.5   | 59.2   | 68.9   | 76.7   | 83.5   |
| 110°   | 1.0    | 1.9    | 6.8    | 13.6   | 22.3   | 34.0   | 44.7   | 54.4   | 63.1   | 70.9   | 76.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 112.5° | 1.0 | 1.9 | 5.8 | 12.6 | 20.4 | 30.1 | 40.8 | 49.5 | 58.3 | 65.1 | 70.9 |
| 115°   | 1.0 | 1.9 | 5.8 | 11.7 | 18.4 | 26.2 | 35.9 | 45.6 | 52.4 | 60.2 | 65.1 |
| 117.5° | 1.0 | 1.9 | 4.9 | 9.7  | 17.5 | 24.3 | 33.0 | 40.8 | 48.5 | 55.3 | 60.2 |
| 120°   | 1.0 | 1.9 | 4.9 | 8.7  | 15.5 | 22.3 | 29.1 | 36.9 | 44.7 | 49.5 | 54.4 |
| 122.5° | 1.0 | 1.9 | 3.9 | 8.7  | 13.6 | 20.4 | 26.2 | 33.0 | 39.8 | 45.6 | 50.5 |
| 125°   | 1.0 | 1.9 | 3.9 | 7.8  | 12.6 | 18.4 | 24.3 | 29.1 | 35.9 | 40.8 | 45.6 |
| 127.5° | 1.0 | 1.9 | 3.9 | 6.8  | 11.7 | 16.5 | 22.3 | 27.2 | 32.0 | 36.9 | 40.8 |
| 130°   | 1.0 | 1.9 | 2.9 | 5.8  | 10.7 | 14.6 | 19.4 | 25.2 | 29.1 | 33.0 | 36.9 |
| 132.5° | 1.0 | 1.9 | 2.9 | 5.8  | 8.7  | 12.6 | 17.5 | 22.3 | 26.2 | 30.1 | 33.0 |
| 135°   | 1.0 | 1.9 | 2.9 | 4.9  | 7.8  | 11.7 | 14.6 | 19.4 | 23.3 | 27.2 | 30.1 |
| 137.5° | 1.0 | 1.9 | 2.9 | 4.9  | 6.8  | 9.7  | 12.6 | 16.5 | 20.4 | 23.3 | 27.2 |
| 140°   | 1.0 | 1.9 | 2.9 | 3.9  | 5.8  | 8.7  | 11.7 | 13.6 | 17.5 | 20.4 | 23.3 |
| 142.5° | 1.0 | 1.9 | 2.9 | 3.9  | 5.8  | 7.8  | 9.7  | 11.7 | 14.6 | 17.5 | 20.4 |
| 145°   | 1.0 | 1.9 | 2.9 | 3.9  | 4.9  | 6.8  | 8.7  | 10.7 | 11.7 | 14.6 | 16.5 |
| 147.5° | 1.0 | 1.9 | 2.9 | 3.9  | 3.9  | 5.8  | 7.8  | 8.7  | 10.7 | 11.7 | 13.6 |
| 150°   | 1.0 | 1.9 | 2.9 | 2.9  | 3.9  | 4.9  | 6.8  | 7.8  | 8.7  | 10.7 | 11.7 |
| 152.5° | 1.0 | 1.9 | 2.9 | 2.9  | 3.9  | 4.9  | 5.8  | 6.8  | 7.8  | 8.7  | 9.7  |
| 155°   | 1.0 | 1.9 | 2.9 | 2.9  | 2.9  | 3.9  | 4.9  | 5.8  | 6.8  | 7.8  | 8.7  |
| 157.5° | 1.9 | 1.9 | 1.9 | 2.9  | 2.9  | 3.9  | 3.9  | 4.9  | 5.8  | 5.8  | 6.8  |
| 160°   | 1.9 | 1.9 | 1.9 | 2.9  | 2.9  | 2.9  | 3.9  | 3.9  | 4.9  | 4.9  | 5.8  |
| 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  |

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CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1754.4 | 1757.3 | 1766.1 | 1766.1 | 1764.1 | 1762.2 | 1762.2 | 1759.3 | 1761.2 | 1765.1 | 1763.2 |
| 5°     | 1754.4 | 1757.3 | 1766.1 | 1766.1 | 1764.1 | 1762.2 | 1761.2 | 1758.3 | 1761.2 | 1765.1 | 1763.2 |
| 7.5°   | 1748.6 | 1752.5 | 1761.2 | 1761.2 | 1759.3 | 1758.3 | 1756.4 | 1754.4 | 1757.3 | 1761.2 | 1759.3 |
| 10°    | 1740.8 | 1744.7 | 1753.4 | 1753.4 | 1751.5 | 1751.5 | 1748.6 | 1746.7 | 1750.5 | 1753.4 | 1752.5 |
| 12.5°  | 1729.2 | 1734.0 | 1741.8 | 1740.8 | 1738.9 | 1739.9 | 1736.9 | 1733.1 | 1736.9 | 1739.9 | 1740.8 |
| 15°    | 1712.7 | 1718.5 | 1726.3 | 1724.3 | 1721.4 | 1723.3 | 1718.5 | 1715.6 | 1718.5 | 1724.3 | 1723.3 |
| 17.5°  | 1691.3 | 1695.2 | 1701.0 | 1701.0 | 1698.1 | 1696.2 | 1694.2 | 1691.3 | 1693.3 | 1697.1 | 1698.1 |
| 20°    | 1661.2 | 1666.1 | 1669.0 | 1666.1 | 1665.1 | 1662.2 | 1658.3 | 1655.4 | 1659.3 | 1665.1 | 1666.1 |
| 22.5°  | 1621.4 | 1622.4 | 1629.2 | 1622.4 | 1617.5 | 1616.6 | 1612.7 | 1606.8 | 1612.7 | 1617.5 | 1618.5 |
| 25°    | 1571.9 | 1576.7 | 1573.8 | 1562.2 | 1562.2 | 1554.4 | 1552.5 | 1549.6 | 1550.5 | 1559.3 | 1563.2 |
| 27.5°  | 1508.8 | 1510.7 | 1503.0 | 1493.2 | 1484.5 | 1479.7 | 1472.9 | 1473.8 | 1473.8 | 1485.5 | 1489.4 |
| 30°    | 1439.8 | 1429.2 | 1422.4 | 1406.8 | 1400.0 | 1388.4 | 1386.4 | 1386.4 | 1384.5 | 1390.3 | 1407.8 |
| 32.5°  | 1357.3 | 1342.8 | 1332.1 | 1317.5 | 1305.9 | 1294.2 | 1288.4 | 1291.3 | 1290.3 | 1304.9 | 1310.7 |
| 35°    | 1267.0 | 1258.3 | 1236.0 | 1217.5 | 1210.7 | 1193.2 | 1193.2 | 1184.5 | 1190.3 | 1206.8 | 1213.6 |
| 37.5°  | 1171.9 | 1158.3 | 1139.8 | 1119.4 | 1114.6 | 1101.0 | 1096.1 | 1091.3 | 1103.9 | 1106.8 | 1113.6 |
| 40°    | 1074.8 | 1062.2 | 1044.7 | 1025.3 | 1025.3 | 1008.8 | 1008.8 | 1008.8 | 1009.7 | 1015.6 | 1028.2 |
| 42.5°  | 982.6  | 969.0  | 953.4  | 939.8  | 937.9  | 925.3  | 925.3  | 924.3  | 926.2  | 931.1  | 942.7  |
| 45°    | 893.2  | 882.5  | 866.0  | 859.2  | 860.2  | 846.6  | 849.5  | 846.6  | 850.5  | 855.4  | 859.2  |
| 47.5°  | 810.7  | 803.9  | 797.1  | 787.4  | 784.5  | 783.5  | 778.7  | 774.8  | 781.6  | 781.6  | 787.4  |
| 50°    | 734.0  | 730.1  | 726.2  | 720.4  | 721.4  | 717.5  | 711.7  | 711.7  | 716.5  | 717.5  | 721.4  |
| 52.5°  | 667.0  | 662.2  | 657.3  | 658.3  | 659.2  | 657.3  | 654.4  | 651.5  | 654.4  | 656.3  | 661.2  |
| 55°    | 600.0  | 596.1  | 601.0  | 599.0  | 601.0  | 599.0  | 597.1  | 595.2  | 600.0  | 597.1  | 602.0  |
| 57.5°  | 539.8  | 543.7  | 545.6  | 541.8  | 544.7  | 542.7  | 543.7  | 540.8  | 544.7  | 546.6  | 545.6  |
| 60°    | 484.5  | 490.3  | 487.4  | 488.4  | 492.2  | 490.3  | 486.4  | 489.3  | 493.2  | 494.2  | 493.2  |
| 62.5°  | 434.0  | 440.8  | 443.7  | 441.8  | 442.7  | 440.8  | 443.7  | 439.8  | 444.7  | 446.6  | 443.7  |
| 65°    | 388.4  | 396.1  | 398.1  | 398.1  | 398.1  | 396.1  | 399.0  | 400.0  | 402.0  | 402.0  | 400.0  |
| 67.5°  | 349.5  | 356.3  | 358.3  | 360.2  | 358.3  | 356.3  | 356.3  | 357.3  | 361.2  | 363.1  | 361.2  |
| 70°    | 314.6  | 321.4  | 322.3  | 322.3  | 323.3  | 325.3  | 321.4  | 323.3  | 326.2  | 327.2  | 326.2  |
| 72.5°  | 284.5  | 291.3  | 293.2  | 292.2  | 293.2  | 294.2  | 294.2  | 292.2  | 295.2  | 297.1  | 297.1  |
| 75°    | 260.2  | 264.1  | 266.0  | 266.0  | 267.0  | 268.0  | 268.0  | 267.0  | 268.9  | 269.9  | 270.9  |
| 77.5°  | 237.9  | 240.8  | 243.7  | 243.7  | 244.7  | 243.7  | 245.6  | 245.6  | 246.6  | 247.6  | 248.6  |
| 80°    | 215.5  | 219.4  | 221.4  | 222.3  | 224.3  | 225.2  | 225.2  | 225.2  | 226.2  | 227.2  | 227.2  |
| 82.5°  | 198.1  | 201.0  | 203.9  | 206.8  | 206.8  | 207.8  | 207.8  | 207.8  | 208.7  | 208.7  | 209.7  |
| 85°    | 180.6  | 184.5  | 187.4  | 189.3  | 190.3  | 191.3  | 191.3  | 192.2  | 192.2  | 192.2  | 193.2  |
| 87.5°  | 165.1  | 169.9  | 171.8  | 173.8  | 174.8  | 176.7  | 176.7  | 176.7  | 177.7  | 177.7  | 177.7  |
| 90°    | 154.4  | 159.2  | 161.2  | 163.1  | 164.1  | 165.1  | 165.1  | 166.0  | 166.0  | 167.0  | 167.0  |
| 92.5°  | 141.8  | 146.6  | 150.5  | 150.5  | 151.5  | 153.4  | 152.4  | 152.4  | 153.4  | 154.4  | 154.4  |
| 95°    | 132.0  | 135.9  | 138.8  | 139.8  | 140.8  | 140.8  | 140.8  | 141.8  | 140.8  | 141.8  | 141.8  |
| 97.5°  | 120.4  | 124.3  | 127.2  | 129.1  | 130.1  | 130.1  | 130.1  | 131.1  | 130.1  | 131.1  | 131.1  |
| 100°   | 110.7  | 114.6  | 117.5  | 118.4  | 120.4  | 120.4  | 120.4  | 120.4  | 120.4  | 120.4  | 121.4  |
| 102.5° | 102.9  | 106.8  | 108.7  | 109.7  | 110.7  | 111.7  | 111.7  | 111.7  | 111.7  | 112.6  | 112.6  |
| 105°   | 95.1   | 99.0   | 101.0  | 101.9  | 102.9  | 103.9  | 103.9  | 103.9  | 104.9  | 104.9  | 103.9  |
| 107.5° | 88.4   | 91.3   | 93.2   | 95.1   | 96.1   | 96.1   | 97.1   | 97.1   | 97.1   | 97.1   | 97.1   |
| 110°   | 81.6   | 84.5   | 87.4   | 89.3   | 89.3   | 90.3   | 90.3   | 91.3   | 91.3   | 90.3   | 91.3   |



TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 74.8 | 78.6 | 80.6 | 82.5 | 83.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 |
| 115°   | 68.9 | 72.8 | 74.8 | 76.7 | 77.7 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 |
| 117.5° | 64.1 | 68.0 | 69.9 | 70.9 | 71.8 | 72.8 | 73.8 | 73.8 | 73.8 | 73.8 | 72.8 |
| 120°   | 59.2 | 62.1 | 64.1 | 66.0 | 67.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 |
| 122.5° | 54.4 | 57.3 | 59.2 | 61.2 | 62.1 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 |
| 125°   | 49.5 | 52.4 | 54.4 | 56.3 | 57.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 |
| 127.5° | 44.7 | 47.6 | 50.5 | 51.5 | 52.4 | 53.4 | 53.4 | 53.4 | 54.4 | 53.4 | 53.4 |
| 130°   | 39.8 | 42.7 | 45.6 | 46.6 | 47.6 | 48.5 | 49.5 | 49.5 | 49.5 | 49.5 | 48.5 |
| 132.5° | 35.9 | 38.8 | 40.8 | 41.7 | 43.7 | 43.7 | 44.7 | 44.7 | 44.7 | 44.7 | 43.7 |
| 135°   | 33.0 | 35.0 | 36.9 | 37.9 | 39.8 | 39.8 | 39.8 | 40.8 | 40.8 | 39.8 | 38.8 |
| 137.5° | 29.1 | 31.1 | 33.0 | 34.0 | 35.0 | 35.9 | 35.9 | 36.9 | 35.9 | 35.9 | 35.9 |
| 140°   | 27.2 | 28.2 | 30.1 | 31.1 | 32.0 | 32.0 | 32.0 | 33.0 | 33.0 | 32.0 | 32.0 |
| 142.5° | 23.3 | 25.2 | 27.2 | 28.2 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 |
| 145°   | 19.4 | 22.3 | 23.3 | 25.2 | 25.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 25.2 |
| 147.5° | 16.5 | 18.4 | 21.4 | 22.3 | 22.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 22.3 |
| 150°   | 12.6 | 14.6 | 17.5 | 19.4 | 19.4 | 20.4 | 20.4 | 20.4 | 20.4 | 19.4 | 19.4 |
| 152.5° | 10.7 | 12.6 | 13.6 | 15.5 | 16.5 | 16.5 | 16.5 | 17.5 | 16.5 | 16.5 | 16.5 |
| 155°   | 9.7  | 10.7 | 11.7 | 12.6 | 13.6 | 14.6 | 14.6 | 14.6 | 14.6 | 13.6 | 13.6 |
| 157.5° | 7.8  | 8.7  | 9.7  | 10.7 | 11.7 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 11.7 |
| 160°   | 5.8  | 6.8  | 7.8  | 7.8  | 8.7  | 9.7  | 10.7 | 9.7  | 9.7  | 9.7  | 9.7  |
| 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1761.2 | 1760.2 | 1763.2 | 1758.3 | 1743.7 | 1747.6 | 1745.7 | 1754.4 | 1756.4 | 1758.3 | 1767.0 |
| 5°     | 1761.2 | 1760.2 | 1762.2 | 1758.3 | 1742.8 | 1745.7 | 1743.7 | 1752.5 | 1754.4 | 1755.4 | 1764.1 |
| 7.5°   | 1757.3 | 1756.4 | 1759.3 | 1754.4 | 1737.9 | 1741.8 | 1738.9 | 1747.6 | 1748.6 | 1749.6 | 1757.3 |
| 10°    | 1749.6 | 1748.6 | 1750.5 | 1746.7 | 1730.1 | 1734.0 | 1730.1 | 1738.9 | 1738.9 | 1740.8 | 1746.7 |
| 12.5°  | 1737.9 | 1736.0 | 1739.9 | 1735.0 | 1716.6 | 1721.4 | 1719.5 | 1725.3 | 1726.3 | 1727.2 | 1733.1 |
| 15°    | 1721.4 | 1719.5 | 1722.4 | 1719.5 | 1703.0 | 1703.9 | 1701.0 | 1709.8 | 1710.7 | 1708.8 | 1714.6 |
| 17.5°  | 1697.1 | 1695.2 | 1701.0 | 1699.1 | 1682.6 | 1686.5 | 1685.5 | 1687.4 | 1690.3 | 1685.5 | 1693.3 |
| 20°    | 1667.0 | 1669.0 | 1670.9 | 1671.9 | 1659.3 | 1659.3 | 1658.3 | 1662.2 | 1665.1 | 1661.2 | 1667.0 |
| 22.5°  | 1622.4 | 1627.2 | 1633.1 | 1635.0 | 1626.3 | 1625.3 | 1631.1 | 1629.2 | 1632.1 | 1630.1 | 1634.0 |
| 25°    | 1566.1 | 1575.8 | 1581.6 | 1587.4 | 1582.6 | 1584.5 | 1593.2 | 1595.2 | 1595.2 | 1594.2 | 1598.1 |
| 27.5°  | 1496.2 | 1508.8 | 1519.5 | 1532.1 | 1527.2 | 1531.1 | 1545.7 | 1547.6 | 1551.5 | 1547.6 | 1555.4 |
| 30°    | 1412.7 | 1424.3 | 1444.7 | 1463.1 | 1465.1 | 1470.9 | 1491.3 | 1493.2 | 1503.9 | 1500.0 | 1503.0 |
| 32.5°  | 1329.2 | 1335.0 | 1358.3 | 1376.7 | 1388.4 | 1403.0 | 1425.3 | 1429.2 | 1443.7 | 1446.6 | 1446.6 |
| 35°    | 1224.3 | 1240.8 | 1262.2 | 1288.4 | 1302.9 | 1318.5 | 1348.6 | 1354.4 | 1375.8 | 1382.6 | 1390.3 |
| 37.5°  | 1136.0 | 1151.5 | 1165.1 | 1192.3 | 1218.5 | 1236.0 | 1260.2 | 1274.8 | 1297.1 | 1309.7 | 1319.5 |
| 40°    | 1041.8 | 1054.4 | 1069.0 | 1096.1 | 1118.5 | 1144.7 | 1169.0 | 1186.4 | 1214.6 | 1229.2 | 1241.8 |
| 42.5°  | 952.5  | 962.2  | 977.7  | 997.1  | 1020.4 | 1049.5 | 1072.8 | 1093.2 | 1123.3 | 1143.7 | 1158.3 |
| 45°    | 872.8  | 878.7  | 892.3  | 906.8  | 927.2  | 957.3  | 979.6  | 1005.9 | 1030.1 | 1051.5 | 1069.0 |
| 47.5°  | 798.1  | 805.8  | 812.6  | 822.4  | 840.8  | 859.2  | 885.5  | 910.7  | 935.0  | 958.3  | 975.8  |
| 50°    | 729.1  | 729.1  | 739.8  | 746.6  | 759.2  | 775.8  | 796.1  | 813.6  | 843.7  | 860.2  | 882.5  |
| 52.5°  | 662.2  | 666.0  | 671.9  | 675.7  | 685.5  | 696.1  | 712.6  | 727.2  | 752.4  | 768.0  | 789.3  |
| 55°    | 602.9  | 606.8  | 609.7  | 611.7  | 617.5  | 630.1  | 635.9  | 647.6  | 665.1  | 677.7  | 696.1  |
| 57.5°  | 546.6  | 548.6  | 551.5  | 552.4  | 553.4  | 561.2  | 566.0  | 568.9  | 586.4  | 599.0  | 614.6  |
| 60°    | 495.2  | 495.2  | 498.1  | 497.1  | 496.1  | 500.0  | 499.0  | 502.0  | 512.6  | 520.4  | 527.2  |
| 62.5°  | 446.6  | 446.6  | 447.6  | 445.6  | 444.7  | 444.7  | 440.8  | 443.7  | 446.6  | 447.6  | 452.4  |
| 65°    | 402.0  | 406.8  | 402.9  | 403.9  | 398.1  | 396.1  | 394.2  | 388.4  | 387.4  | 383.5  | 385.4  |
| 67.5°  | 362.1  | 366.0  | 362.1  | 362.1  | 357.3  | 353.4  | 348.6  | 338.8  | 335.9  | 328.2  | 326.2  |
| 70°    | 330.1  | 327.2  | 329.1  | 326.2  | 320.4  | 315.5  | 308.7  | 301.0  | 291.3  | 281.6  | 274.8  |
| 72.5°  | 299.0  | 299.0  | 297.1  | 294.2  | 291.3  | 281.6  | 273.8  | 265.1  | 253.4  | 240.8  | 231.1  |
| 75°    | 268.9  | 269.9  | 269.9  | 267.0  | 262.1  | 253.4  | 244.7  | 232.0  | 219.4  | 204.9  | 192.2  |
| 77.5°  | 247.6  | 247.6  | 247.6  | 242.7  | 237.9  | 230.1  | 219.4  | 205.8  | 192.2  | 174.8  | 160.2  |
| 80°    | 227.2  | 226.2  | 226.2  | 220.4  | 215.5  | 206.8  | 196.1  | 182.5  | 168.0  | 149.5  | 133.0  |
| 82.5°  | 210.7  | 209.7  | 207.8  | 202.9  | 196.1  | 187.4  | 176.7  | 162.1  | 146.6  | 130.1  | 109.7  |
| 85°    | 193.2  | 192.2  | 190.3  | 185.4  | 178.6  | 170.9  | 159.2  | 144.7  | 129.1  | 110.7  | 91.3   |
| 87.5°  | 177.7  | 176.7  | 173.8  | 170.9  | 163.1  | 154.4  | 142.7  | 129.1  | 112.6  | 95.1   | 75.7   |
| 90°    | 167.0  | 165.1  | 163.1  | 159.2  | 152.4  | 142.7  | 131.1  | 116.5  | 100.0  | 82.5   | 63.1   |
| 92.5°  | 154.4  | 153.4  | 150.5  | 146.6  | 140.8  | 131.1  | 119.4  | 105.8  | 89.3   | 72.8   | 54.4   |
| 95°    | 141.8  | 140.8  | 138.8  | 135.0  | 129.1  | 120.4  | 109.7  | 96.1   | 80.6   | 64.1   | 47.6   |
| 97.5°  | 130.1  | 130.1  | 127.2  | 124.3  | 117.5  | 110.7  | 100.0  | 87.4   | 72.8   | 58.3   | 42.7   |
| 100°   | 120.4  | 120.4  | 117.5  | 113.6  | 108.7  | 101.9  | 91.3   | 79.6   | 66.0   | 52.4   | 36.9   |
| 102.5° | 111.7  | 110.7  | 108.7  | 104.9  | 100.0  | 93.2   | 83.5   | 72.8   | 60.2   | 46.6   | 33.0   |
| 105°   | 103.9  | 102.9  | 101.0  | 97.1   | 93.2   | 85.4   | 77.7   | 67.0   | 54.4   | 41.7   | 29.1   |
| 107.5° | 96.1   | 95.1   | 94.2   | 90.3   | 85.4   | 78.6   | 70.9   | 60.2   | 49.5   | 37.9   | 26.2   |
| 110°   | 89.3   | 88.4   | 86.4   | 82.5   | 77.7   | 71.8   | 64.1   | 55.3   | 44.7   | 34.0   | 23.3   |

TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 83.5 | 82.5 | 80.6 | 76.7 | 72.8 | 66.0 | 59.2 | 49.5 | 40.8 | 31.1 | 20.4 |
| 115°   | 77.7 | 76.7 | 74.8 | 70.9 | 66.0 | 60.2 | 53.4 | 45.6 | 35.9 | 27.2 | 18.4 |
| 117.5° | 71.8 | 70.9 | 68.9 | 66.0 | 61.2 | 55.3 | 48.5 | 40.8 | 32.0 | 25.2 | 16.5 |
| 120°   | 67.0 | 65.1 | 63.1 | 60.2 | 55.3 | 50.5 | 43.7 | 36.9 | 29.1 | 22.3 | 14.6 |
| 122.5° | 62.1 | 60.2 | 58.3 | 55.3 | 50.5 | 45.6 | 38.8 | 33.0 | 27.2 | 20.4 | 13.6 |
| 125°   | 56.3 | 55.3 | 53.4 | 50.5 | 45.6 | 40.8 | 35.9 | 30.1 | 24.3 | 18.4 | 11.7 |
| 127.5° | 51.5 | 50.5 | 48.5 | 44.7 | 40.8 | 36.9 | 32.0 | 27.2 | 21.4 | 15.5 | 10.7 |
| 130°   | 47.6 | 45.6 | 43.7 | 40.8 | 37.9 | 34.0 | 29.1 | 24.3 | 19.4 | 13.6 | 9.7  |
| 132.5° | 42.7 | 40.8 | 38.8 | 36.9 | 34.0 | 30.1 | 26.2 | 21.4 | 17.5 | 12.6 | 8.7  |
| 135°   | 38.8 | 36.9 | 35.0 | 33.0 | 30.1 | 27.2 | 23.3 | 19.4 | 15.5 | 11.7 | 7.8  |
| 137.5° | 34.0 | 33.0 | 32.0 | 30.1 | 27.2 | 24.3 | 21.4 | 16.5 | 13.6 | 10.7 | 6.8  |
| 140°   | 31.1 | 30.1 | 29.1 | 26.2 | 24.3 | 21.4 | 18.4 | 14.6 | 11.7 | 8.7  | 5.8  |
| 142.5° | 28.2 | 27.2 | 25.2 | 23.3 | 21.4 | 19.4 | 15.5 | 13.6 | 10.7 | 7.8  | 5.8  |
| 145°   | 24.3 | 23.3 | 22.3 | 20.4 | 18.4 | 15.5 | 13.6 | 11.7 | 9.7  | 6.8  | 4.9  |
| 147.5° | 22.3 | 21.4 | 19.4 | 17.5 | 15.5 | 13.6 | 12.6 | 10.7 | 7.8  | 5.8  | 3.9  |
| 150°   | 18.4 | 17.5 | 16.5 | 14.6 | 13.6 | 12.6 | 10.7 | 8.7  | 6.8  | 4.9  | 3.9  |
| 152.5° | 15.5 | 14.6 | 13.6 | 13.6 | 11.7 | 10.7 | 8.7  | 7.8  | 5.8  | 4.9  | 2.9  |
| 155°   | 13.6 | 13.6 | 12.6 | 11.7 | 9.7  | 8.7  | 7.8  | 5.8  | 4.9  | 3.9  | 2.9  |
| 157.5° | 11.7 | 10.7 | 9.7  | 9.7  | 8.7  | 7.8  | 5.8  | 4.9  | 3.9  | 3.9  | 2.9  |
| 160°   | 9.7  | 8.7  | 8.7  | 7.8  | 6.8  | 5.8  | 4.9  | 4.9  | 3.9  | 2.9  | 2.9  |
| 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1768.0 | 1757.3 | 1767.0 | 1779.7 | 1779.7 | 1777.7 | 1775.8 | 1779.7 | 1789.4 | 1785.5 | 1773.8 |
| 5°     | 1765.1 | 1754.4 | 1763.2 | 1775.8 | 1775.8 | 1772.9 | 1770.9 | 1773.8 | 1784.5 | 1779.7 | 1769.0 |
| 7.5°   | 1759.3 | 1749.6 | 1755.4 | 1767.0 | 1767.0 | 1764.1 | 1762.2 | 1766.1 | 1774.8 | 1770.0 | 1758.3 |
| 10°    | 1748.6 | 1737.9 | 1744.7 | 1755.4 | 1754.4 | 1752.5 | 1749.6 | 1754.4 | 1762.2 | 1755.4 | 1741.8 |
| 12.5°  | 1735.0 | 1724.3 | 1730.1 | 1739.9 | 1738.9 | 1735.0 | 1733.1 | 1736.0 | 1742.8 | 1738.9 | 1724.3 |
| 15°    | 1716.6 | 1705.9 | 1710.7 | 1720.4 | 1717.5 | 1714.6 | 1710.7 | 1711.7 | 1720.4 | 1713.6 | 1698.1 |
| 17.5°  | 1694.2 | 1682.6 | 1686.5 | 1695.2 | 1692.3 | 1689.4 | 1684.5 | 1685.5 | 1695.2 | 1685.5 | 1669.0 |
| 20°    | 1667.0 | 1654.4 | 1657.3 | 1668.0 | 1663.2 | 1658.3 | 1653.4 | 1653.4 | 1663.2 | 1652.5 | 1634.0 |
| 22.5°  | 1637.9 | 1625.3 | 1627.2 | 1635.0 | 1631.1 | 1622.4 | 1617.5 | 1620.4 | 1625.3 | 1611.7 | 1592.3 |
| 25°    | 1602.0 | 1585.5 | 1588.4 | 1596.2 | 1593.2 | 1581.6 | 1576.7 | 1578.7 | 1576.7 | 1566.1 | 1545.7 |
| 27.5°  | 1560.2 | 1542.8 | 1544.7 | 1549.6 | 1545.7 | 1535.0 | 1529.2 | 1530.1 | 1526.3 | 1512.7 | 1489.4 |
| 30°    | 1507.8 | 1499.1 | 1498.1 | 1501.0 | 1495.2 | 1484.5 | 1477.7 | 1475.8 | 1474.8 | 1455.4 | 1427.2 |
| 32.5°  | 1454.4 | 1446.6 | 1441.8 | 1445.7 | 1438.9 | 1428.2 | 1416.5 | 1416.5 | 1406.8 | 1388.4 | 1364.1 |
| 35°    | 1400.0 | 1387.4 | 1382.6 | 1385.5 | 1377.7 | 1364.1 | 1354.4 | 1349.6 | 1335.0 | 1311.7 | 1285.5 |
| 37.5°  | 1330.1 | 1321.4 | 1315.6 | 1318.5 | 1309.7 | 1300.0 | 1281.6 | 1276.7 | 1261.2 | 1229.2 | 1196.2 |
| 40°    | 1254.4 | 1247.6 | 1241.8 | 1244.7 | 1235.0 | 1220.4 | 1203.9 | 1196.2 | 1178.7 | 1142.8 | 1116.5 |
| 42.5°  | 1172.8 | 1169.9 | 1163.1 | 1173.8 | 1154.4 | 1139.8 | 1123.3 | 1110.7 | 1093.2 | 1054.4 | 1024.3 |
| 45°    | 1086.4 | 1093.2 | 1077.7 | 1080.6 | 1068.0 | 1055.4 | 1037.9 | 1019.4 | 1002.0 | 965.1  | 931.1  |
| 47.5°  | 995.2  | 1000.0 | 989.3  | 991.3  | 977.7  | 966.0  | 950.5  | 927.2  | 907.8  | 875.8  | 845.7  |
| 50°    | 901.0  | 899.1  | 899.1  | 897.1  | 886.4  | 871.9  | 856.3  | 835.0  | 815.6  | 786.4  | 761.2  |
| 52.5°  | 801.0  | 804.9  | 806.8  | 811.7  | 798.1  | 789.3  | 765.1  | 746.6  | 732.1  | 702.0  | 680.6  |
| 55°    | 704.9  | 718.5  | 714.6  | 716.5  | 701.0  | 694.2  | 674.8  | 660.2  | 638.9  | 621.4  | 607.8  |
| 57.5°  | 617.5  | 620.4  | 622.3  | 625.3  | 618.5  | 604.9  | 589.3  | 577.7  | 561.2  | 546.6  | 536.9  |
| 60°    | 533.0  | 533.0  | 534.0  | 538.9  | 532.1  | 520.4  | 508.8  | 500.0  | 488.4  | 479.6  | 473.8  |
| 62.5°  | 453.4  | 460.2  | 461.2  | 457.3  | 448.6  | 442.7  | 435.0  | 430.1  | 422.3  | 419.4  | 417.5  |
| 65°    | 379.6  | 379.6  | 379.6  | 381.6  | 376.7  | 372.8  | 368.0  | 367.0  | 369.9  | 366.0  | 368.0  |
| 67.5°  | 317.5  | 314.6  | 312.6  | 313.6  | 311.7  | 309.7  | 308.7  | 311.7  | 317.5  | 317.5  | 322.3  |
| 70°    | 264.1  | 258.3  | 254.4  | 254.4  | 254.4  | 255.3  | 258.3  | 264.1  | 273.8  | 277.7  | 284.5  |
| 72.5°  | 220.4  | 207.8  | 201.9  | 201.9  | 202.9  | 206.8  | 215.5  | 226.2  | 235.0  | 242.7  | 251.5  |
| 75°    | 178.6  | 166.0  | 157.3  | 156.3  | 158.3  | 164.1  | 176.7  | 186.4  | 201.0  | 211.7  | 222.3  |
| 77.5°  | 144.7  | 129.1  | 118.4  | 117.5  | 120.4  | 129.1  | 144.7  | 157.3  | 173.8  | 185.4  | 197.1  |
| 80°    | 115.5  | 98.1   | 89.3   | 83.5   | 88.4   | 99.0   | 116.5  | 132.0  | 147.6  | 163.1  | 177.7  |
| 82.5°  | 92.2   | 75.7   | 62.1   | 56.3   | 62.1   | 76.7   | 93.2   | 111.7  | 127.2  | 143.7  | 158.3  |
| 85°    | 72.8   | 55.3   | 39.8   | 34.0   | 40.8   | 56.3   | 74.8   | 93.2   | 110.7  | 127.2  | 141.8  |
| 87.5°  | 57.3   | 39.8   | 24.3   | 16.5   | 25.2   | 41.7   | 59.2   | 77.7   | 96.1   | 112.6  | 127.2  |
| 90°    | 44.7   | 28.2   | 13.6   | 1.9    | 14.6   | 30.1   | 47.6   | 65.1   | 83.5   | 100.0  | 114.6  |
| 92.5°  | 37.9   | 21.4   | 7.8    | 0.0    | 8.7    | 22.3   | 38.8   | 56.3   | 72.8   | 89.3   | 103.9  |
| 95°    | 32.0   | 17.5   | 5.8    | 0.0    | 5.8    | 17.5   | 32.0   | 47.6   | 64.1   | 80.6   | 95.1   |
| 97.5°  | 27.2   | 13.6   | 3.9    | 0.0    | 3.9    | 13.6   | 26.2   | 41.7   | 56.3   | 71.8   | 85.4   |
| 100°   | 23.3   | 11.7   | 2.9    | 0.0    | 2.9    | 10.7   | 22.3   | 35.9   | 50.5   | 65.1   | 77.7   |
| 102.5° | 20.4   | 9.7    | 1.9    | 0.0    | 1.9    | 8.7    | 18.4   | 31.1   | 43.7   | 57.3   | 69.9   |
| 105°   | 17.5   | 7.8    | 1.9    | 0.0    | 1.0    | 6.8    | 15.5   | 27.2   | 38.8   | 51.5   | 63.1   |
| 107.5° | 15.5   | 6.8    | 1.9    | 0.0    | 1.0    | 5.8    | 13.6   | 23.3   | 35.0   | 45.6   | 56.3   |
| 110°   | 13.6   | 5.8    | 1.9    | 0.0    | 1.0    | 3.9    | 11.7   | 20.4   | 30.1   | 40.8   | 51.5   |

TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 11.7 | 4.9  | 1.0  | 0.0  | 0.0  | 2.9  | 9.7  | 17.5 | 26.2 | 36.9 | 45.6 |
| 115°   | 10.7 | 4.9  | 1.0  | 0.0  | 0.0  | 1.9  | 7.8  | 15.5 | 23.3 | 33.0 | 40.8 |
| 117.5° | 9.7  | 3.9  | 1.0  | 0.0  | 1.0  | 1.9  | 6.8  | 13.6 | 20.4 | 28.2 | 36.9 |
| 120°   | 8.7  | 3.9  | 1.0  | 0.0  | 1.0  | 1.0  | 4.9  | 11.7 | 17.5 | 25.2 | 32.0 |
| 122.5° | 7.8  | 3.9  | 1.0  | 0.0  | 1.0  | 1.0  | 3.9  | 9.7  | 15.5 | 22.3 | 28.2 |
| 125°   | 6.8  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 2.9  | 7.8  | 13.6 | 18.4 | 25.2 |
| 127.5° | 6.8  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.9  | 6.8  | 10.7 | 16.5 | 22.3 |
| 130°   | 5.8  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 4.9  | 9.7  | 13.6 | 18.4 |
| 132.5° | 4.9  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 2.9  | 6.8  | 11.7 | 15.5 |
| 135°   | 4.9  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  | 4.9  | 8.7  | 12.6 |
| 137.5° | 3.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 3.9  | 6.8  | 9.7  |
| 140°   | 3.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 2.9  | 4.9  | 7.8  |
| 142.5° | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  | 3.9  | 5.8  |
| 145°   | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  | 3.9  |
| 147.5° | 2.9  | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  | 2.9  |
| 150°   | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  |
| 152.5° | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  |
| 155°   | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  | 1.9  |
| 157.5° | 2.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.9  |
| 160°   | 2.9  | 1.9  | 1.9  | 1.0  | 1.9  | 1.0  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1770.0 | 1751.5 | 1761.2 | 1758.3 | 1762.2 | 1770.0 | 1769.0 | 1767.0 | 1767.0 | 1764.1 | 1760.2 |
| 5°     | 1764.1 | 1746.7 | 1755.4 | 1750.5 | 1755.4 | 1762.2 | 1761.2 | 1758.3 | 1760.2 | 1755.4 | 1750.5 |
| 7.5°   | 1752.5 | 1736.9 | 1744.7 | 1740.8 | 1744.7 | 1751.5 | 1748.6 | 1747.6 | 1749.6 | 1741.8 | 1738.9 |
| 10°    | 1738.9 | 1721.4 | 1730.1 | 1725.3 | 1730.1 | 1735.0 | 1733.1 | 1729.2 | 1733.1 | 1725.3 | 1722.4 |
| 12.5°  | 1717.5 | 1703.0 | 1708.8 | 1706.8 | 1709.8 | 1714.6 | 1710.7 | 1707.8 | 1709.8 | 1703.0 | 1697.1 |
| 15°    | 1694.2 | 1679.7 | 1684.5 | 1681.6 | 1683.5 | 1689.4 | 1682.6 | 1681.6 | 1679.7 | 1672.9 | 1670.9 |
| 17.5°  | 1664.1 | 1650.5 | 1655.4 | 1650.5 | 1653.4 | 1651.5 | 1650.5 | 1645.7 | 1645.7 | 1637.9 | 1632.1 |
| 20°    | 1627.2 | 1615.6 | 1612.7 | 1608.8 | 1612.7 | 1608.8 | 1603.0 | 1599.1 | 1598.1 | 1590.3 | 1585.5 |
| 22.5°  | 1584.5 | 1570.9 | 1572.9 | 1562.2 | 1563.2 | 1557.3 | 1547.6 | 1543.7 | 1539.8 | 1531.1 | 1524.3 |
| 25°    | 1533.1 | 1519.5 | 1509.8 | 1503.0 | 1494.2 | 1493.2 | 1480.6 | 1470.9 | 1469.9 | 1459.3 | 1458.3 |
| 27.5°  | 1474.8 | 1459.3 | 1451.5 | 1435.0 | 1424.3 | 1415.6 | 1404.9 | 1395.2 | 1390.3 | 1378.7 | 1370.9 |
| 30°    | 1407.8 | 1390.3 | 1370.9 | 1359.3 | 1342.8 | 1336.0 | 1317.5 | 1305.9 | 1302.0 | 1289.4 | 1283.5 |
| 32.5°  | 1332.1 | 1313.6 | 1298.1 | 1275.8 | 1257.3 | 1247.6 | 1229.2 | 1217.5 | 1212.7 | 1199.1 | 1191.3 |
| 35°    | 1249.5 | 1229.2 | 1210.7 | 1189.4 | 1174.8 | 1158.3 | 1136.0 | 1124.3 | 1113.6 | 1108.8 | 1102.9 |
| 37.5°  | 1163.1 | 1140.8 | 1119.4 | 1098.1 | 1085.5 | 1066.0 | 1046.6 | 1038.9 | 1026.2 | 1021.4 | 1015.6 |
| 40°    | 1073.8 | 1051.5 | 1031.1 | 1010.7 | 996.1  | 978.7  | 961.2  | 958.3  | 944.7  | 939.8  | 935.9  |
| 42.5°  | 985.5  | 962.2  | 938.9  | 924.3  | 913.6  | 896.1  | 884.5  | 881.6  | 869.9  | 867.0  | 867.0  |
| 45°    | 905.9  | 876.7  | 857.3  | 844.7  | 835.9  | 821.4  | 811.7  | 809.7  | 800.0  | 798.1  | 798.1  |
| 47.5°  | 820.4  | 793.2  | 778.7  | 770.9  | 763.1  | 752.4  | 746.6  | 746.6  | 736.9  | 735.0  | 734.0  |
| 50°    | 740.8  | 715.6  | 704.9  | 697.1  | 696.1  | 688.4  | 683.5  | 681.6  | 681.6  | 674.8  | 675.7  |
| 52.5°  | 665.1  | 652.4  | 643.7  | 638.9  | 633.0  | 628.2  | 624.3  | 624.3  | 621.4  | 616.5  | 618.5  |
| 55°    | 595.2  | 580.6  | 581.6  | 577.7  | 574.8  | 571.9  | 572.8  | 567.0  | 566.0  | 562.2  | 565.1  |
| 57.5°  | 525.3  | 525.3  | 523.3  | 520.4  | 515.5  | 517.5  | 517.5  | 517.5  | 512.6  | 509.7  | 512.6  |
| 60°    | 466.0  | 468.9  | 464.1  | 467.0  | 465.1  | 466.0  | 464.1  | 464.1  | 461.2  | 460.2  | 461.2  |
| 62.5°  | 413.6  | 418.5  | 416.5  | 420.4  | 418.5  | 419.4  | 421.4  | 417.5  | 415.5  | 413.6  | 415.5  |
| 65°    | 367.0  | 372.8  | 371.9  | 374.8  | 375.7  | 376.7  | 377.7  | 375.7  | 373.8  | 371.9  | 370.9  |
| 67.5°  | 326.2  | 332.0  | 335.9  | 336.9  | 337.9  | 340.8  | 339.8  | 337.9  | 335.9  | 333.0  | 332.0  |
| 70°    | 289.3  | 297.1  | 302.0  | 303.9  | 307.8  | 305.8  | 305.8  | 304.9  | 302.9  | 300.0  | 299.0  |
| 72.5°  | 258.3  | 267.0  | 271.9  | 273.8  | 277.7  | 277.7  | 276.7  | 275.7  | 273.8  | 270.9  | 269.9  |
| 75°    | 231.1  | 238.8  | 245.6  | 249.5  | 252.4  | 252.4  | 251.5  | 250.5  | 248.6  | 246.6  | 245.6  |
| 77.5°  | 209.7  | 216.5  | 222.3  | 227.2  | 229.1  | 230.1  | 229.1  | 227.2  | 227.2  | 226.2  | 225.2  |
| 80°    | 188.4  | 196.1  | 201.9  | 206.8  | 209.7  | 209.7  | 208.7  | 209.7  | 207.8  | 206.8  | 205.8  |
| 82.5°  | 169.9  | 178.6  | 185.4  | 190.3  | 192.2  | 193.2  | 192.2  | 193.2  | 191.3  | 191.3  | 191.3  |
| 85°    | 153.4  | 162.1  | 169.9  | 173.8  | 176.7  | 177.7  | 177.7  | 177.7  | 176.7  | 176.7  | 176.7  |
| 87.5°  | 139.8  | 148.5  | 156.3  | 160.2  | 163.1  | 164.1  | 164.1  | 165.1  | 163.1  | 163.1  | 163.1  |
| 90°    | 127.2  | 135.9  | 143.7  | 147.6  | 150.5  | 152.4  | 152.4  | 153.4  | 152.4  | 151.5  | 151.5  |
| 92.5°  | 115.5  | 125.2  | 133.0  | 136.9  | 139.8  | 142.7  | 142.7  | 143.7  | 141.8  | 141.8  | 141.8  |
| 95°    | 105.8  | 115.5  | 122.3  | 127.2  | 130.1  | 132.0  | 133.0  | 133.0  | 132.0  | 132.0  | 132.0  |
| 97.5°  | 97.1   | 105.8  | 112.6  | 117.5  | 120.4  | 121.4  | 122.3  | 123.3  | 122.3  | 122.3  | 122.3  |
| 100°   | 88.4   | 97.1   | 103.9  | 107.8  | 111.7  | 112.6  | 113.6  | 114.6  | 114.6  | 113.6  | 113.6  |
| 102.5° | 80.6   | 89.3   | 95.1   | 100.0  | 102.9  | 104.9  | 105.8  | 105.8  | 105.8  | 105.8  | 105.8  |
| 105°   | 72.8   | 81.6   | 87.4   | 92.2   | 95.1   | 97.1   | 98.1   | 99.0   | 99.0   | 98.1   | 98.1   |
| 107.5° | 66.0   | 73.8   | 80.6   | 84.5   | 88.4   | 90.3   | 91.3   | 91.3   | 92.2   | 91.3   | 91.3   |
| 110°   | 59.2   | 68.0   | 73.8   | 77.7   | 81.6   | 83.5   | 84.5   | 85.4   | 85.4   | 85.4   | 85.4   |

TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 54.4 | 61.2 | 67.0 | 70.9 | 74.8 | 76.7 | 77.7 | 78.6 | 79.6 | 78.6 | 78.6 |
| 115°   | 48.5 | 55.3 | 61.2 | 65.1 | 68.0 | 69.9 | 71.8 | 72.8 | 72.8 | 73.8 | 72.8 |
| 117.5° | 43.7 | 49.5 | 55.3 | 59.2 | 62.1 | 65.1 | 66.0 | 67.0 | 68.0 | 67.0 | 67.0 |
| 120°   | 38.8 | 44.7 | 49.5 | 53.4 | 56.3 | 59.2 | 60.2 | 61.2 | 62.1 | 61.2 | 61.2 |
| 122.5° | 35.0 | 39.8 | 44.7 | 48.5 | 51.5 | 53.4 | 55.3 | 55.3 | 56.3 | 56.3 | 56.3 |
| 125°   | 31.1 | 35.9 | 39.8 | 43.7 | 46.6 | 48.5 | 49.5 | 50.5 | 50.5 | 51.5 | 51.5 |
| 127.5° | 27.2 | 31.1 | 35.9 | 38.8 | 41.7 | 43.7 | 44.7 | 45.6 | 45.6 | 46.6 | 46.6 |
| 130°   | 23.3 | 27.2 | 31.1 | 34.0 | 36.9 | 38.8 | 39.8 | 40.8 | 41.7 | 41.7 | 41.7 |
| 132.5° | 20.4 | 24.3 | 27.2 | 30.1 | 32.0 | 34.0 | 35.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 135°   | 16.5 | 20.4 | 23.3 | 26.2 | 28.2 | 30.1 | 31.1 | 33.0 | 33.0 | 33.0 | 33.0 |
| 137.5° | 13.6 | 17.5 | 20.4 | 22.3 | 24.3 | 26.2 | 27.2 | 28.2 | 29.1 | 29.1 | 29.1 |
| 140°   | 10.7 | 13.6 | 16.5 | 19.4 | 21.4 | 22.3 | 24.3 | 24.3 | 25.2 | 25.2 | 25.2 |
| 142.5° | 7.8  | 10.7 | 12.6 | 15.5 | 17.5 | 19.4 | 20.4 | 21.4 | 21.4 | 21.4 | 21.4 |
| 145°   | 5.8  | 7.8  | 9.7  | 11.7 | 14.6 | 15.5 | 16.5 | 17.5 | 18.4 | 18.4 | 18.4 |
| 147.5° | 3.9  | 5.8  | 6.8  | 8.7  | 10.7 | 12.6 | 13.6 | 14.6 | 15.5 | 15.5 | 15.5 |
| 150°   | 2.9  | 3.9  | 5.8  | 6.8  | 7.8  | 9.7  | 11.7 | 11.7 | 12.6 | 12.6 | 11.7 |
| 152.5° | 1.9  | 2.9  | 3.9  | 4.9  | 5.8  | 6.8  | 8.7  | 8.7  | 9.7  | 9.7  | 9.7  |
| 155°   | 1.9  | 1.9  | 1.9  | 2.9  | 3.9  | 4.9  | 5.8  | 6.8  | 6.8  | 6.8  | 6.8  |
| 157.5° | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 2.9  | 3.9  | 4.9  | 4.9  | 4.9  | 4.9  |
| 160°   | 1.9  | 1.9  | 1.0  | 1.0  | 1.9  | 1.9  | 1.9  | 1.9  | 2.9  | 2.9  | 2.9  |
| 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1763.2 | 1765.1 | 1765.1 | 1763.2 | 1762.2 | 1766.1 | 1761.2 | 1742.8 | 1748.6 | 1750.5 | 1756.4 |
| 5°     | 1754.4 | 1756.4 | 1756.4 | 1756.4 | 1754.4 | 1758.3 | 1753.4 | 1735.0 | 1741.8 | 1744.7 | 1748.6 |
| 7.5°   | 1741.8 | 1742.8 | 1744.7 | 1743.7 | 1741.8 | 1747.6 | 1742.8 | 1724.3 | 1729.2 | 1734.0 | 1738.9 |
| 10°    | 1725.3 | 1725.3 | 1726.3 | 1728.2 | 1726.3 | 1731.1 | 1726.3 | 1709.8 | 1714.6 | 1717.5 | 1723.3 |
| 12.5°  | 1703.0 | 1704.9 | 1705.9 | 1704.9 | 1703.9 | 1707.8 | 1705.9 | 1690.3 | 1692.3 | 1698.1 | 1703.9 |
| 15°    | 1672.9 | 1672.9 | 1677.7 | 1675.8 | 1675.8 | 1679.7 | 1681.6 | 1664.1 | 1667.0 | 1675.8 | 1681.6 |
| 17.5°  | 1636.0 | 1636.9 | 1640.8 | 1642.8 | 1641.8 | 1648.6 | 1649.6 | 1636.0 | 1635.0 | 1645.7 | 1651.5 |
| 20°    | 1588.4 | 1590.3 | 1595.2 | 1599.1 | 1599.1 | 1606.8 | 1609.8 | 1601.0 | 1602.0 | 1613.6 | 1615.6 |
| 22.5°  | 1530.1 | 1530.1 | 1538.9 | 1544.7 | 1549.6 | 1554.4 | 1563.2 | 1555.4 | 1555.4 | 1570.9 | 1579.7 |
| 25°    | 1458.3 | 1465.1 | 1468.0 | 1479.7 | 1486.4 | 1500.0 | 1507.8 | 1508.8 | 1509.8 | 1524.3 | 1530.1 |
| 27.5°  | 1378.7 | 1380.6 | 1389.4 | 1403.0 | 1410.7 | 1423.3 | 1437.9 | 1440.8 | 1445.7 | 1465.1 | 1473.8 |
| 30°    | 1288.4 | 1294.2 | 1298.1 | 1317.5 | 1328.2 | 1344.7 | 1363.1 | 1369.9 | 1373.8 | 1400.0 | 1410.7 |
| 32.5°  | 1196.2 | 1198.1 | 1214.6 | 1225.3 | 1237.9 | 1255.4 | 1276.7 | 1289.4 | 1297.1 | 1324.3 | 1339.8 |
| 35°    | 1103.9 | 1107.8 | 1121.4 | 1135.0 | 1147.6 | 1165.1 | 1187.4 | 1204.9 | 1218.5 | 1242.8 | 1263.1 |
| 37.5°  | 1019.4 | 1029.2 | 1032.1 | 1045.7 | 1055.4 | 1072.8 | 1088.4 | 1113.6 | 1127.2 | 1152.5 | 1178.7 |
| 40°    | 943.7  | 946.6  | 948.6  | 962.2  | 969.0  | 985.5  | 1007.8 | 1024.3 | 1042.7 | 1061.2 | 1092.3 |
| 42.5°  | 869.0  | 870.9  | 873.8  | 881.6  | 889.3  | 901.0  | 917.5  | 934.0  | 953.4  | 980.6  | 1001.0 |
| 45°    | 800.0  | 802.0  | 803.9  | 808.8  | 815.6  | 826.2  | 836.9  | 848.6  | 868.0  | 891.3  | 912.6  |
| 47.5°  | 735.9  | 739.8  | 739.8  | 740.8  | 745.7  | 754.4  | 762.2  | 776.7  | 787.4  | 800.0  | 824.3  |
| 50°    | 674.8  | 677.7  | 678.7  | 678.7  | 681.6  | 687.4  | 689.3  | 699.0  | 708.8  | 720.4  | 737.9  |
| 52.5°  | 617.5  | 617.5  | 616.5  | 620.4  | 620.4  | 624.3  | 625.3  | 631.1  | 637.9  | 650.5  | 658.3  |
| 55°    | 563.1  | 563.1  | 566.0  | 564.1  | 564.1  | 566.0  | 565.1  | 566.0  | 571.9  | 579.6  | 586.4  |
| 57.5°  | 510.7  | 509.7  | 512.6  | 510.7  | 509.7  | 511.7  | 513.6  | 509.7  | 510.7  | 518.5  | 518.5  |
| 60°    | 458.3  | 459.2  | 462.1  | 460.2  | 460.2  | 460.2  | 458.3  | 456.3  | 454.4  | 459.2  | 461.2  |
| 62.5°  | 416.5  | 413.6  | 416.5  | 413.6  | 415.5  | 414.6  | 412.6  | 408.7  | 409.7  | 407.8  | 405.8  |
| 65°    | 372.8  | 372.8  | 373.8  | 370.9  | 372.8  | 372.8  | 369.9  | 368.9  | 363.1  | 361.2  | 356.3  |
| 67.5°  | 335.0  | 335.0  | 335.9  | 334.0  | 334.0  | 335.0  | 332.0  | 329.1  | 323.3  | 320.4  | 313.6  |
| 70°    | 302.0  | 302.0  | 302.0  | 301.0  | 301.0  | 301.0  | 299.0  | 295.2  | 289.3  | 284.5  | 275.7  |
| 72.5°  | 271.9  | 272.8  | 271.9  | 271.9  | 274.8  | 271.9  | 268.9  | 265.1  | 260.2  | 250.5  | 242.7  |
| 75°    | 247.6  | 248.6  | 247.6  | 247.6  | 247.6  | 246.6  | 245.6  | 239.8  | 234.0  | 226.2  | 214.6  |
| 77.5°  | 226.2  | 226.2  | 227.2  | 226.2  | 226.2  | 225.2  | 222.3  | 217.5  | 210.7  | 203.9  | 190.3  |
| 80°    | 205.8  | 206.8  | 207.8  | 208.7  | 206.8  | 205.8  | 202.9  | 199.0  | 190.3  | 182.5  | 168.9  |
| 82.5°  | 191.3  | 190.3  | 191.3  | 192.2  | 190.3  | 189.3  | 186.4  | 181.6  | 174.8  | 164.1  | 150.5  |
| 85°    | 176.7  | 175.7  | 175.7  | 176.7  | 175.7  | 173.8  | 170.9  | 166.0  | 159.2  | 148.5  | 135.0  |
| 87.5°  | 162.1  | 163.1  | 164.1  | 163.1  | 162.1  | 160.2  | 157.3  | 152.4  | 144.7  | 135.9  | 121.4  |
| 90°    | 151.5  | 151.5  | 151.5  | 151.5  | 150.5  | 148.5  | 145.6  | 139.8  | 133.0  | 122.3  | 109.7  |
| 92.5°  | 141.8  | 141.8  | 141.8  | 141.8  | 140.8  | 137.9  | 135.0  | 130.1  | 122.3  | 111.7  | 100.0  |
| 95°    | 132.0  | 133.0  | 132.0  | 132.0  | 130.1  | 129.1  | 124.3  | 119.4  | 112.6  | 101.9  | 89.3   |
| 97.5°  | 121.4  | 122.3  | 121.4  | 121.4  | 120.4  | 118.4  | 115.5  | 109.7  | 102.9  | 93.2   | 81.6   |
| 100°   | 113.6  | 113.6  | 112.6  | 112.6  | 111.7  | 109.7  | 105.8  | 101.0  | 94.2   | 84.5   | 72.8   |
| 102.5° | 104.9  | 105.8  | 104.9  | 104.9  | 102.9  | 101.0  | 98.1   | 93.2   | 86.4   | 76.7   | 66.0   |
| 105°   | 98.1   | 98.1   | 97.1   | 97.1   | 95.1   | 93.2   | 90.3   | 84.5   | 78.6   | 69.9   | 59.2   |
| 107.5° | 91.3   | 91.3   | 90.3   | 90.3   | 88.4   | 86.4   | 82.5   | 77.7   | 71.8   | 63.1   | 53.4   |
| 110°   | 84.5   | 84.5   | 84.5   | 83.5   | 81.6   | 78.6   | 75.7   | 70.9   | 65.1   | 57.3   | 47.6   |

TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 79.6 | 78.6 | 77.7 | 76.7 | 74.8 | 72.8 | 68.9 | 64.1 | 58.3 | 51.5 | 42.7 |
| 115°   | 72.8 | 72.8 | 71.8 | 70.9 | 68.9 | 66.0 | 63.1 | 59.2 | 53.4 | 45.6 | 37.9 |
| 117.5° | 67.0 | 67.0 | 66.0 | 65.1 | 63.1 | 60.2 | 57.3 | 53.4 | 47.6 | 40.8 | 34.0 |
| 120°   | 61.2 | 61.2 | 60.2 | 59.2 | 57.3 | 54.4 | 52.4 | 47.6 | 42.7 | 35.9 | 30.1 |
| 122.5° | 56.3 | 55.3 | 55.3 | 53.4 | 52.4 | 49.5 | 46.6 | 42.7 | 37.9 | 32.0 | 26.2 |
| 125°   | 50.5 | 50.5 | 49.5 | 48.5 | 47.6 | 44.7 | 41.7 | 37.9 | 33.0 | 28.2 | 23.3 |
| 127.5° | 45.6 | 45.6 | 44.7 | 43.7 | 42.7 | 39.8 | 36.9 | 34.0 | 29.1 | 24.3 | 19.4 |
| 130°   | 40.8 | 40.8 | 39.8 | 38.8 | 37.9 | 35.0 | 33.0 | 29.1 | 25.2 | 21.4 | 16.5 |
| 132.5° | 36.9 | 36.9 | 35.9 | 35.0 | 33.0 | 31.1 | 29.1 | 25.2 | 22.3 | 18.4 | 14.6 |
| 135°   | 33.0 | 32.0 | 32.0 | 31.1 | 29.1 | 27.2 | 25.2 | 22.3 | 18.4 | 15.5 | 11.7 |
| 137.5° | 29.1 | 28.2 | 27.2 | 26.2 | 25.2 | 23.3 | 21.4 | 19.4 | 16.5 | 12.6 | 9.7  |
| 140°   | 25.2 | 24.3 | 24.3 | 23.3 | 21.4 | 20.4 | 18.4 | 15.5 | 13.6 | 10.7 | 7.8  |
| 142.5° | 21.4 | 21.4 | 20.4 | 19.4 | 18.4 | 17.5 | 15.5 | 13.6 | 10.7 | 8.7  | 5.8  |
| 145°   | 18.4 | 17.5 | 17.5 | 16.5 | 15.5 | 13.6 | 12.6 | 10.7 | 8.7  | 6.8  | 4.9  |
| 147.5° | 14.6 | 14.6 | 14.6 | 13.6 | 12.6 | 11.7 | 10.7 | 8.7  | 6.8  | 4.9  | 2.9  |
| 150°   | 11.7 | 11.7 | 11.7 | 10.7 | 9.7  | 8.7  | 7.8  | 6.8  | 4.9  | 2.9  | 1.9  |
| 152.5° | 9.7  | 9.7  | 8.7  | 8.7  | 7.8  | 6.8  | 5.8  | 4.9  | 2.9  | 1.9  | 1.9  |
| 155°   | 6.8  | 6.8  | 6.8  | 5.8  | 5.8  | 4.9  | 3.9  | 2.9  | 1.9  | 1.9  | 1.9  |
| 157.5° | 4.9  | 4.9  | 4.9  | 3.9  | 3.9  | 2.9  | 2.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 160°   | 2.9  | 2.9  | 2.9  | 2.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 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: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 | 1765.1 |
| 2.5°   | 1753.4 | 1752.5 | 1760.2 | 1760.2 | 1751.5 | 1765.1 | 1779.7 |
| 5°     | 1747.6 | 1746.7 | 1754.4 | 1754.4 | 1746.7 | 1760.2 | 1775.8 |
| 7.5°   | 1736.0 | 1736.9 | 1744.7 | 1746.7 | 1736.9 | 1749.6 | 1766.1 |
| 10°    | 1723.3 | 1722.4 | 1731.1 | 1733.1 | 1725.3 | 1736.9 | 1752.5 |
| 12.5°  | 1703.0 | 1703.0 | 1711.7 | 1714.6 | 1706.8 | 1720.4 | 1735.0 |
| 15°    | 1681.6 | 1681.6 | 1687.4 | 1692.3 | 1685.5 | 1698.1 | 1712.7 |
| 17.5°  | 1654.4 | 1653.4 | 1659.3 | 1665.1 | 1658.3 | 1671.9 | 1687.4 |
| 20°    | 1619.5 | 1619.5 | 1626.3 | 1633.1 | 1628.2 | 1640.8 | 1658.3 |
| 22.5°  | 1582.6 | 1578.7 | 1590.3 | 1595.2 | 1592.3 | 1604.9 | 1622.4 |
| 25°    | 1536.0 | 1535.0 | 1546.6 | 1553.4 | 1549.6 | 1563.2 | 1578.7 |
| 27.5°  | 1485.5 | 1484.5 | 1496.2 | 1504.9 | 1503.0 | 1515.6 | 1533.1 |
| 30°    | 1424.3 | 1429.2 | 1439.8 | 1454.4 | 1449.6 | 1463.1 | 1481.6 |
| 32.5°  | 1360.2 | 1365.1 | 1377.7 | 1393.2 | 1394.2 | 1404.9 | 1423.3 |
| 35°    | 1283.5 | 1296.2 | 1304.9 | 1325.3 | 1329.2 | 1339.8 | 1359.3 |
| 37.5°  | 1202.9 | 1217.5 | 1236.0 | 1251.5 | 1259.3 | 1268.0 | 1290.3 |
| 40°    | 1112.7 | 1134.0 | 1154.4 | 1172.8 | 1182.6 | 1191.3 | 1212.7 |
| 42.5°  | 1031.1 | 1047.6 | 1067.0 | 1085.5 | 1102.9 | 1110.7 | 1133.0 |
| 45°    | 938.9  | 958.3  | 975.8  | 998.1  | 1015.6 | 1024.3 | 1046.6 |
| 47.5°  | 848.6  | 868.0  | 891.3  | 906.8  | 925.3  | 934.0  | 955.4  |
| 50°    | 762.2  | 779.6  | 799.1  | 817.5  | 833.0  | 840.8  | 859.2  |
| 52.5°  | 676.7  | 695.2  | 713.6  | 725.3  | 741.8  | 747.6  | 763.1  |
| 55°    | 601.0  | 613.6  | 630.1  | 636.9  | 653.4  | 657.3  | 668.0  |
| 57.5°  | 528.2  | 536.9  | 542.7  | 554.4  | 566.0  | 574.8  | 587.4  |
| 60°    | 462.1  | 466.0  | 469.9  | 476.7  | 486.4  | 489.3  | 494.2  |
| 62.5°  | 402.9  | 402.0  | 409.7  | 411.7  | 412.6  | 422.3  | 417.5  |
| 65°    | 350.5  | 351.5  | 344.7  | 341.8  | 345.6  | 348.6  | 346.6  |
| 67.5°  | 306.8  | 301.0  | 295.2  | 288.4  | 282.5  | 285.4  | 282.5  |
| 70°    | 264.1  | 259.2  | 249.5  | 239.8  | 235.9  | 230.1  | 227.2  |
| 72.5°  | 230.1  | 218.5  | 208.7  | 196.1  | 189.3  | 182.5  | 177.7  |
| 75°    | 203.9  | 187.4  | 173.8  | 160.2  | 150.5  | 140.8  | 138.8  |
| 77.5°  | 176.7  | 161.2  | 145.6  | 131.1  | 116.5  | 105.8  | 101.9  |
| 80°    | 155.3  | 140.8  | 122.3  | 104.9  | 89.3   | 75.7   | 70.9   |
| 82.5°  | 135.9  | 120.4  | 101.9  | 83.5   | 66.0   | 51.5   | 45.6   |
| 85°    | 119.4  | 102.9  | 84.5   | 66.0   | 48.5   | 33.0   | 25.2   |
| 87.5°  | 106.8  | 88.4   | 69.9   | 52.4   | 34.0   | 18.4   | 9.7    |
| 90°    | 95.1   | 77.7   | 60.2   | 41.7   | 24.3   | 9.7    | 0.0    |
| 92.5°  | 84.5   | 68.0   | 50.5   | 34.0   | 18.4   | 5.8    | 1.0    |
| 95°    | 74.8   | 60.2   | 42.7   | 27.2   | 13.6   | 3.9    | 1.0    |
| 97.5°  | 67.0   | 52.4   | 36.9   | 22.3   | 10.7   | 2.9    | 1.0    |
| 100°   | 60.2   | 45.6   | 32.0   | 18.4   | 8.7    | 1.9    | 1.0    |
| 102.5° | 53.4   | 40.8   | 27.2   | 15.5   | 6.8    | 1.0    | 1.0    |
| 105°   | 47.6   | 35.9   | 23.3   | 13.6   | 5.8    | 1.0    | 1.0    |
| 107.5° | 42.7   | 32.0   | 20.4   | 11.7   | 3.9    | 1.0    | 1.0    |
| 110°   | 37.9   | 27.2   | 17.5   | 9.7    | 2.9    | 1.0    | 1.0    |

TEST NUMBER: P1213460

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 34.0 | 24.3 | 15.5 | 7.8  | 1.9  | 1.0  | 1.0  |
| 115°   | 30.1 | 21.4 | 13.6 | 6.8  | 1.9  | 1.0  | 1.0  |
| 117.5° | 26.2 | 18.4 | 11.7 | 4.9  | 1.0  | 1.0  | 1.0  |
| 120°   | 23.3 | 16.5 | 9.7  | 3.9  | 1.0  | 1.0  | 1.0  |
| 122.5° | 20.4 | 13.6 | 7.8  | 2.9  | 1.0  | 1.0  | 1.0  |
| 125°   | 17.5 | 11.7 | 6.8  | 1.9  | 1.0  | 1.0  | 1.0  |
| 127.5° | 14.6 | 9.7  | 4.9  | 1.9  | 1.0  | 1.0  | 1.0  |
| 130°   | 12.6 | 7.8  | 3.9  | 1.0  | 1.0  | 1.0  | 1.0  |
| 132.5° | 10.7 | 5.8  | 2.9  | 1.0  | 1.0  | 1.0  | 1.0  |
| 135°   | 8.7  | 4.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  |
| 137.5° | 6.8  | 3.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  |
| 140°   | 4.9  | 2.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 142.5° | 3.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 145°   | 2.9  | 1.9  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 147.5° | 1.9  | 1.9  | 1.9  | 1.9  | 1.0  | 1.0  | 1.0  |
| 150°   | 1.9  | 1.9  | 1.0  | 1.0  | 1.9  | 1.0  | 1.0  |
| 152.5° | 1.9  | 1.0  | 1.0  | 1.0  | 1.9  | 1.0  | 1.0  |
| 155°   | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.0  |
| 157.5° | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 160°   | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 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)