

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: P1213843

Luminaire Tested: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213843  
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-LD5-61SL-LN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

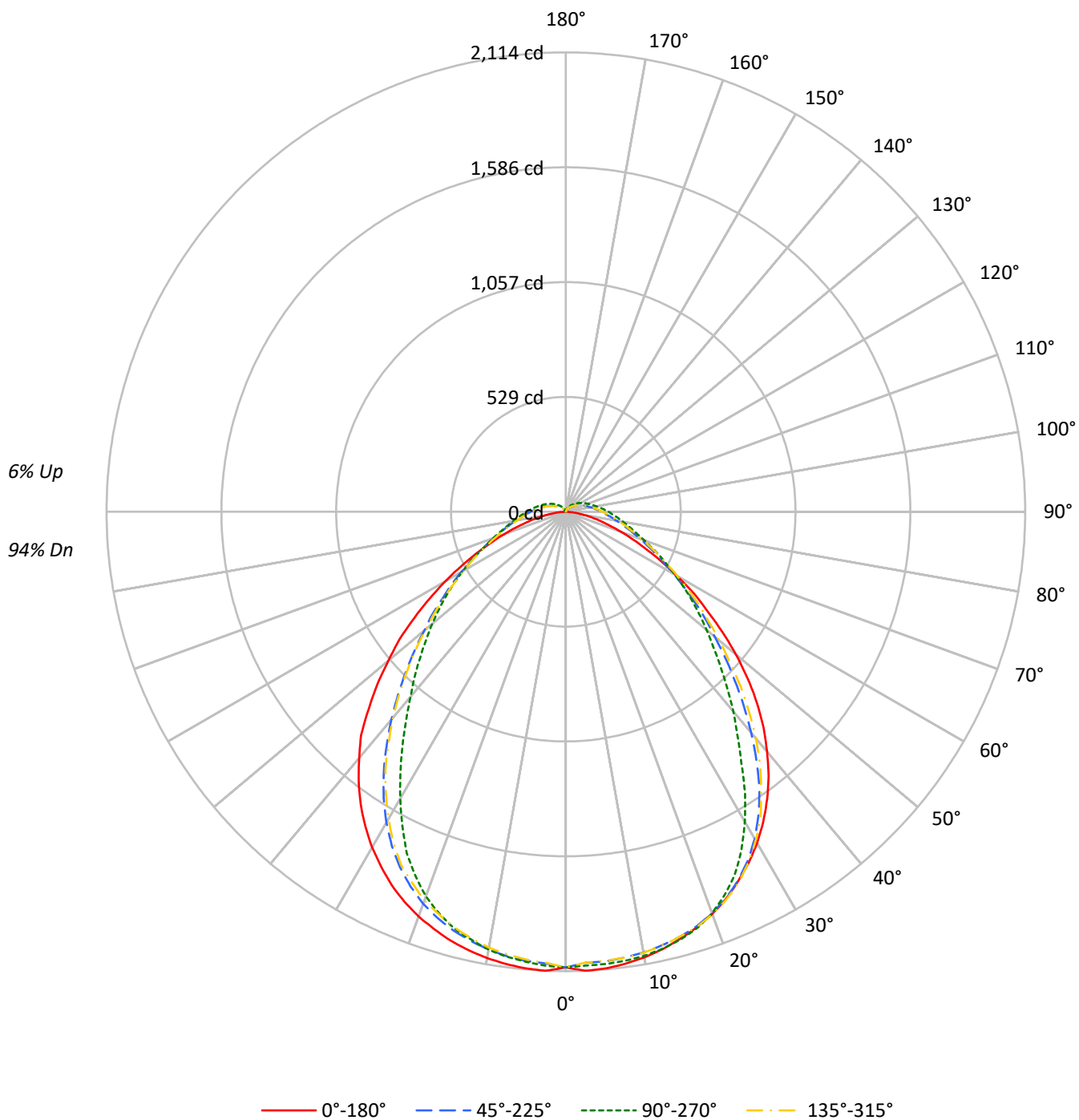
Lumens per Lamp: N/A  
Luminaire Lumens: 5307.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 52  
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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**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°  | 16946 | 16946 | 16946 | 16946 |
| 5°  | 17067 | 16406 | 17067 | 16334 |
| 10° | 16991 | 15971 | 17019 | 15749 |
| 15° | 16881 | 15493 | 16958 | 15090 |
| 20° | 16752 | 14880 | 16850 | 14251 |
| 25° | 16483 | 13969 | 16665 | 13147 |
| 30° | 16134 | 12633 | 16345 | 11695 |
| 35° | 15590 | 10993 | 15890 | 10236 |
| 40° | 14810 | 9615  | 15201 | 8920  |
| 45° | 13779 | 8357  | 14227 | 7879  |
| 50° | 12373 | 7344  | 12918 | 6973  |
| 55° | 10703 | 6485  | 11481 | 6157  |
| 60° | 9002  | 5694  | 9816  | 5366  |
| 65° | 7380  | 5034  | 8123  | 4668  |
| 70° | 5873  | 4468  | 6576  | 4133  |
| 75° | 4611  | 4125  | 5192  | 3795  |
| 80° | 3328  | 3980  | 3921  | 3637  |
| 85° | 2050  | 4003  | 2760  | 3679  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 14227 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 198.8  | 3.7       |
| 10°-20°   | 570.1  | 10.7      |
| 20°-30°   | 844.9  | 15.9      |
| 30°-40°   | 938.6  | 17.7      |
| 40°-50°   | 850.9  | 16.0      |
| 50°-60°   | 659.3  | 12.4      |
| 60°-70°   | 447.7  | 8.4       |
| 70°-80°   | 284.8  | 5.4       |
| 80°-90°   | 182.1  | 3.4       |
| 90°-100°  | 122.8  | 2.3       |
| 100°-110° | 84.1   | 1.6       |
| 110°-120° | 56.1   | 1.1       |
| 120°-130° | 34.9   | 0.7       |
| 130°-140° | 19.3   | 0.4       |
| 140°-150° | 9.1    | 0.2       |
| 150°-160° | 3.3    | 0.1       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1613.8 | 30.4      |
| 0°-40°    | 2552.4 | 48.1      |
| 0°-60°    | 4062.6 | 76.6      |
| 0°-90°    | 4977.2 | 93.8      |
| 90°-120°  | 263.0  | 5.0       |
| 90°-150°  | 326.2  | 6.1       |
| 90°-180°  | 330.0  | 6.2       |
| 0°-180°   | 5307.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2097 | 2097 | 2097 | 2097 | 2097 |      |
| 5°   | 2110 | 2089 | 2110 | 2080 | 2110 | 200  |
| 15°  | 2035 | 2038 | 2044 | 1985 | 2035 | 574  |
| 25°  | 1876 | 1841 | 1896 | 1732 | 1876 | 864  |
| 35°  | 1615 | 1407 | 1646 | 1310 | 1615 | 1007 |
| 45°  | 1243 | 1006 | 1284 | 948  | 1243 | 955  |
| 55°  | 794  | 707  | 851  | 671  | 794  | 715  |
| 65°  | 412  | 475  | 453  | 441  | 412  | 413  |
| 75°  | 165  | 317  | 186  | 292  | 165  | 178  |
| 85°  | 30   | 228  | 40   | 210  | 30   | 36   |
| 90°  | 0    | 197  | 2    | 180  | 0    | 2    |
| 95°  | 1    | 168  | 0    | 157  | 1    | 1    |
| 105° | 1    | 123  | 0    | 116  | 1    | 1    |
| 115° | 1    | 93   | 0    | 86   | 1    | 1    |
| 125° | 1    | 69   | 1    | 61   | 1    | 1    |
| 135° | 1    | 48   | 1    | 39   | 1    | 1    |
| 145° | 1    | 31   | 1    | 22   | 1    | 1    |
| 155° | 1    | 17   | 1    | 8    | 1    | 1    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    |

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CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2114.3 | 2112.0 | 2109.7 | 2106.2 | 2109.7 | 2118.9 | 2113.2 | 2100.5 | 2098.2 | 2077.4 | 2086.6 |
| 5°     | 2109.7 | 2106.2 | 2103.9 | 2100.5 | 2105.1 | 2116.6 | 2110.9 | 2099.3 | 2095.9 | 2076.3 | 2086.6 |
| 7.5°   | 2098.2 | 2095.9 | 2092.4 | 2092.4 | 2097.0 | 2108.6 | 2103.9 | 2091.3 | 2088.9 | 2069.3 | 2080.9 |
| 10°    | 2082.0 | 2080.9 | 2078.6 | 2078.6 | 2083.2 | 2097.0 | 2091.3 | 2079.7 | 2077.4 | 2059.0 | 2071.6 |
| 12.5°  | 2061.3 | 2062.4 | 2059.0 | 2059.0 | 2065.9 | 2079.7 | 2075.1 | 2062.4 | 2060.1 | 2044.0 | 2056.6 |
| 15°    | 2034.7 | 2035.9 | 2033.6 | 2034.7 | 2041.7 | 2057.8 | 2052.0 | 2040.5 | 2038.2 | 2025.5 | 2035.9 |
| 17.5°  | 2004.7 | 2005.9 | 2005.9 | 2004.7 | 2012.8 | 2029.0 | 2024.3 | 2014.0 | 2010.5 | 2000.1 | 2012.8 |
| 20°    | 1970.1 | 1970.1 | 1970.1 | 1970.1 | 1979.4 | 1995.5 | 1989.7 | 1981.7 | 1974.7 | 1966.7 | 1977.1 |
| 22.5°  | 1927.5 | 1926.3 | 1927.5 | 1930.9 | 1940.1 | 1952.8 | 1949.4 | 1940.1 | 1929.8 | 1925.1 | 1933.2 |
| 25°    | 1875.6 | 1879.0 | 1880.2 | 1883.6 | 1895.2 | 1905.5 | 1902.1 | 1892.9 | 1876.7 | 1873.2 | 1875.6 |
| 27.5°  | 1821.3 | 1823.6 | 1827.1 | 1826.0 | 1842.1 | 1852.5 | 1845.6 | 1837.5 | 1814.4 | 1811.0 | 1808.6 |
| 30°    | 1760.2 | 1763.7 | 1766.0 | 1764.8 | 1777.5 | 1789.0 | 1782.1 | 1771.7 | 1740.6 | 1738.3 | 1719.8 |
| 32.5°  | 1691.0 | 1694.5 | 1696.8 | 1696.8 | 1715.2 | 1719.8 | 1707.1 | 1692.1 | 1658.7 | 1650.6 | 1634.5 |
| 35°    | 1614.9 | 1618.3 | 1619.5 | 1619.5 | 1637.9 | 1636.8 | 1620.6 | 1599.9 | 1563.0 | 1552.6 | 1524.9 |
| 37.5°  | 1533.0 | 1535.3 | 1536.4 | 1543.3 | 1551.4 | 1544.5 | 1523.7 | 1497.2 | 1469.5 | 1440.7 | 1410.7 |
| 40°    | 1440.7 | 1444.2 | 1446.5 | 1451.1 | 1459.1 | 1451.1 | 1421.1 | 1388.8 | 1358.8 | 1326.5 | 1296.5 |
| 42.5°  | 1346.1 | 1356.5 | 1354.2 | 1353.0 | 1357.6 | 1335.7 | 1312.7 | 1275.7 | 1245.8 | 1212.3 | 1182.3 |
| 45°    | 1243.4 | 1242.3 | 1248.1 | 1250.4 | 1249.2 | 1230.8 | 1198.5 | 1165.0 | 1135.0 | 1100.4 | 1075.0 |
| 47.5°  | 1135.0 | 1133.9 | 1138.5 | 1140.8 | 1133.9 | 1114.3 | 1088.9 | 1050.8 | 1025.4 | 995.4  | 975.8  |
| 50°    | 1020.8 | 1020.8 | 1027.7 | 1020.8 | 1017.4 | 997.8  | 977.0  | 938.9  | 919.3  | 892.8  | 881.3  |
| 52.5°  | 906.6  | 917.0  | 910.1  | 907.8  | 904.3  | 884.7  | 868.6  | 837.4  | 821.3  | 809.7  | 795.9  |
| 55°    | 793.6  | 805.1  | 800.5  | 797.1  | 795.9  | 779.7  | 764.8  | 741.7  | 731.3  | 723.2  | 715.2  |
| 57.5°  | 697.9  | 696.7  | 694.4  | 690.9  | 692.1  | 679.4  | 664.4  | 651.7  | 647.1  | 643.6  | 645.9  |
| 60°    | 587.1  | 596.3  | 592.9  | 594.0  | 595.2  | 592.9  | 580.2  | 572.1  | 573.3  | 574.4  | 577.9  |
| 62.5°  | 496.0  | 504.1  | 509.8  | 505.2  | 507.5  | 511.0  | 504.1  | 501.8  | 506.4  | 511.0  | 515.6  |
| 65°    | 411.8  | 419.9  | 425.6  | 424.5  | 431.4  | 438.3  | 437.2  | 439.5  | 449.9  | 455.6  | 461.4  |
| 67.5°  | 335.7  | 343.7  | 351.8  | 353.0  | 363.3  | 373.7  | 378.3  | 386.4  | 397.9  | 406.0  | 412.9  |
| 70°    | 269.9  | 276.8  | 286.1  | 291.8  | 305.7  | 319.5  | 327.6  | 343.7  | 350.7  | 362.2  | 366.8  |
| 72.5°  | 211.1  | 216.9  | 229.5  | 243.4  | 254.9  | 272.2  | 288.4  | 302.2  | 312.6  | 325.3  | 331.0  |
| 75°    | 164.9  | 167.3  | 181.1  | 197.2  | 213.4  | 233.0  | 250.3  | 265.3  | 279.1  | 291.8  | 301.1  |
| 77.5°  | 121.1  | 124.6  | 137.3  | 159.2  | 177.6  | 198.4  | 218.0  | 234.2  | 249.2  | 261.8  | 274.5  |
| 80°    | 84.2   | 91.1   | 105.0  | 126.9  | 147.6  | 170.7  | 189.2  | 207.6  | 223.8  | 236.5  | 249.2  |
| 82.5°  | 54.2   | 60.0   | 79.6   | 101.5  | 123.4  | 146.5  | 166.1  | 184.6  | 201.9  | 215.7  | 227.2  |
| 85°    | 30.0   | 38.1   | 57.7   | 80.7   | 102.7  | 125.7  | 146.5  | 164.9  | 182.2  | 194.9  | 206.5  |
| 87.5°  | 11.5   | 23.1   | 41.5   | 63.4   | 85.4   | 107.3  | 129.2  | 146.5  | 163.8  | 177.6  | 188.0  |
| 90°    | 0.0    | 13.8   | 31.1   | 53.1   | 75.0   | 96.9   | 117.7  | 136.1  | 152.3  | 164.9  | 176.5  |
| 92.5°  | 1.2    | 9.2    | 24.2   | 42.7   | 63.4   | 84.2   | 103.8  | 122.3  | 138.4  | 151.1  | 161.5  |
| 95°    | 1.2    | 6.9    | 19.6   | 36.9   | 55.4   | 75.0   | 93.4   | 110.7  | 125.7  | 138.4  | 148.8  |
| 97.5°  | 1.2    | 4.6    | 16.1   | 32.3   | 48.4   | 68.1   | 85.4   | 101.5  | 115.3  | 128.0  | 136.1  |
| 100°   | 1.2    | 4.6    | 13.8   | 27.7   | 43.8   | 61.1   | 77.3   | 93.4   | 106.1  | 116.5  | 125.7  |
| 102.5° | 1.2    | 3.5    | 11.5   | 24.2   | 39.2   | 54.2   | 70.4   | 85.4   | 96.9   | 107.3  | 116.5  |
| 105°   | 1.2    | 3.5    | 10.4   | 20.8   | 34.6   | 49.6   | 63.4   | 77.3   | 90.0   | 99.2   | 107.3  |
| 107.5° | 1.2    | 2.3    | 9.2    | 17.3   | 30.0   | 45.0   | 58.8   | 70.4   | 81.9   | 91.1   | 99.2   |
| 110°   | 1.2    | 2.3    | 8.1    | 16.1   | 26.5   | 40.4   | 53.1   | 64.6   | 75.0   | 84.2   | 91.1   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 112.5° | 1.2 | 2.3 | 6.9 | 15.0 | 24.2 | 35.8 | 48.4 | 58.8 | 69.2 | 77.3 | 84.2 |
| 115°   | 1.2 | 2.3 | 6.9 | 13.8 | 21.9 | 31.1 | 42.7 | 54.2 | 62.3 | 71.5 | 77.3 |
| 117.5° | 1.2 | 2.3 | 5.8 | 11.5 | 20.8 | 28.8 | 39.2 | 48.4 | 57.7 | 65.7 | 71.5 |
| 120°   | 1.2 | 2.3 | 5.8 | 10.4 | 18.5 | 26.5 | 34.6 | 43.8 | 53.1 | 58.8 | 64.6 |
| 122.5° | 1.2 | 2.3 | 4.6 | 10.4 | 16.1 | 24.2 | 31.1 | 39.2 | 47.3 | 54.2 | 60.0 |
| 125°   | 1.2 | 2.3 | 4.6 | 9.2  | 15.0 | 21.9 | 28.8 | 34.6 | 42.7 | 48.4 | 54.2 |
| 127.5° | 1.2 | 2.3 | 4.6 | 8.1  | 13.8 | 19.6 | 26.5 | 32.3 | 38.1 | 43.8 | 48.4 |
| 130°   | 1.2 | 2.3 | 3.5 | 6.9  | 12.7 | 17.3 | 23.1 | 30.0 | 34.6 | 39.2 | 43.8 |
| 132.5° | 1.2 | 2.3 | 3.5 | 6.9  | 10.4 | 15.0 | 20.8 | 26.5 | 31.1 | 35.8 | 39.2 |
| 135°   | 1.2 | 2.3 | 3.5 | 5.8  | 9.2  | 13.8 | 17.3 | 23.1 | 27.7 | 32.3 | 35.8 |
| 137.5° | 1.2 | 2.3 | 3.5 | 5.8  | 8.1  | 11.5 | 15.0 | 19.6 | 24.2 | 27.7 | 32.3 |
| 140°   | 1.2 | 2.3 | 3.5 | 4.6  | 6.9  | 10.4 | 13.8 | 16.1 | 20.8 | 24.2 | 27.7 |
| 142.5° | 1.2 | 2.3 | 3.5 | 4.6  | 6.9  | 9.2  | 11.5 | 13.8 | 17.3 | 20.8 | 24.2 |
| 145°   | 1.2 | 2.3 | 3.5 | 4.6  | 5.8  | 8.1  | 10.4 | 12.7 | 13.8 | 17.3 | 19.6 |
| 147.5° | 1.2 | 2.3 | 3.5 | 4.6  | 4.6  | 6.9  | 9.2  | 10.4 | 12.7 | 13.8 | 16.1 |
| 150°   | 1.2 | 2.3 | 3.5 | 3.5  | 4.6  | 5.8  | 8.1  | 9.2  | 10.4 | 12.7 | 13.8 |
| 152.5° | 1.2 | 2.3 | 3.5 | 3.5  | 4.6  | 5.8  | 6.9  | 8.1  | 9.2  | 10.4 | 11.5 |
| 155°   | 1.2 | 2.3 | 3.5 | 3.5  | 3.5  | 4.6  | 5.8  | 6.9  | 8.1  | 9.2  | 10.4 |
| 157.5° | 2.3 | 2.3 | 2.3 | 3.5  | 3.5  | 4.6  | 4.6  | 5.8  | 6.9  | 6.9  | 8.1  |
| 160°   | 2.3 | 2.3 | 2.3 | 3.5  | 3.5  | 3.5  | 4.6  | 4.6  | 5.8  | 5.8  | 6.9  |
| 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  |

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CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2084.3 | 2087.8 | 2098.2 | 2098.2 | 2095.9 | 2093.6 | 2093.6 | 2090.1 | 2092.4 | 2097.0 | 2094.7 |
| 5°     | 2084.3 | 2087.8 | 2098.2 | 2098.2 | 2095.9 | 2093.6 | 2092.4 | 2088.9 | 2092.4 | 2097.0 | 2094.7 |
| 7.5°   | 2077.4 | 2082.0 | 2092.4 | 2092.4 | 2090.1 | 2088.9 | 2086.6 | 2084.3 | 2087.8 | 2092.4 | 2090.1 |
| 10°    | 2068.2 | 2072.8 | 2083.2 | 2083.2 | 2080.9 | 2080.9 | 2077.4 | 2075.1 | 2079.7 | 2083.2 | 2082.0 |
| 12.5°  | 2054.3 | 2060.1 | 2069.3 | 2068.2 | 2065.9 | 2067.0 | 2063.6 | 2059.0 | 2063.6 | 2067.0 | 2068.2 |
| 15°    | 2034.7 | 2041.7 | 2050.9 | 2048.6 | 2045.1 | 2047.4 | 2041.7 | 2038.2 | 2041.7 | 2048.6 | 2047.4 |
| 17.5°  | 2009.4 | 2014.0 | 2020.9 | 2020.9 | 2017.4 | 2015.1 | 2012.8 | 2009.4 | 2011.7 | 2016.3 | 2017.4 |
| 20°    | 1973.6 | 1979.4 | 1982.8 | 1979.4 | 1978.2 | 1974.7 | 1970.1 | 1966.7 | 1971.3 | 1978.2 | 1979.4 |
| 22.5°  | 1926.3 | 1927.5 | 1935.5 | 1927.5 | 1921.7 | 1920.5 | 1915.9 | 1909.0 | 1915.9 | 1921.7 | 1922.8 |
| 25°    | 1867.5 | 1873.2 | 1869.8 | 1855.9 | 1855.9 | 1846.7 | 1844.4 | 1840.9 | 1842.1 | 1852.5 | 1857.1 |
| 27.5°  | 1792.5 | 1794.8 | 1785.6 | 1774.0 | 1763.7 | 1757.9 | 1749.8 | 1751.0 | 1751.0 | 1764.8 | 1769.4 |
| 30°    | 1710.6 | 1697.9 | 1689.8 | 1671.4 | 1663.3 | 1649.5 | 1647.2 | 1647.2 | 1644.9 | 1651.8 | 1672.5 |
| 32.5°  | 1612.6 | 1595.3 | 1582.6 | 1565.3 | 1551.4 | 1537.6 | 1530.7 | 1534.1 | 1533.0 | 1550.3 | 1557.2 |
| 35°    | 1505.3 | 1494.9 | 1468.4 | 1446.5 | 1438.4 | 1417.6 | 1417.6 | 1407.2 | 1414.2 | 1433.8 | 1441.8 |
| 37.5°  | 1392.2 | 1376.1 | 1354.2 | 1330.0 | 1324.2 | 1308.0 | 1302.3 | 1296.5 | 1311.5 | 1315.0 | 1323.0 |
| 40°    | 1276.9 | 1261.9 | 1241.1 | 1218.1 | 1218.1 | 1198.5 | 1198.5 | 1198.5 | 1199.6 | 1206.5 | 1221.5 |
| 42.5°  | 1167.3 | 1151.2 | 1132.7 | 1116.6 | 1114.3 | 1099.3 | 1099.3 | 1098.1 | 1100.4 | 1106.2 | 1120.0 |
| 45°    | 1061.2 | 1048.5 | 1028.9 | 1020.8 | 1022.0 | 1005.8 | 1009.3 | 1005.8 | 1010.4 | 1016.2 | 1020.8 |
| 47.5°  | 963.2  | 955.1  | 947.0  | 935.5  | 932.0  | 930.9  | 925.1  | 920.5  | 928.5  | 928.5  | 935.5  |
| 50°    | 872.0  | 867.4  | 862.8  | 855.9  | 857.0  | 852.4  | 845.5  | 845.5  | 851.3  | 852.4  | 857.0  |
| 52.5°  | 792.4  | 786.7  | 780.9  | 782.1  | 783.2  | 780.9  | 777.4  | 774.0  | 777.4  | 779.7  | 785.5  |
| 55°    | 712.8  | 708.2  | 714.0  | 711.7  | 714.0  | 711.7  | 709.4  | 707.1  | 712.8  | 709.4  | 715.2  |
| 57.5°  | 641.3  | 645.9  | 648.3  | 643.6  | 647.1  | 644.8  | 645.9  | 642.5  | 647.1  | 649.4  | 648.3  |
| 60°    | 575.6  | 582.5  | 579.0  | 580.2  | 584.8  | 582.5  | 577.9  | 581.4  | 586.0  | 587.1  | 586.0  |
| 62.5°  | 515.6  | 523.7  | 527.1  | 524.8  | 526.0  | 523.7  | 527.1  | 522.5  | 528.3  | 530.6  | 527.1  |
| 65°    | 461.4  | 470.6  | 472.9  | 472.9  | 472.9  | 470.6  | 474.1  | 475.2  | 477.5  | 477.5  | 475.2  |
| 67.5°  | 415.3  | 423.3  | 425.6  | 427.9  | 425.6  | 423.3  | 423.3  | 424.5  | 429.1  | 431.4  | 429.1  |
| 70°    | 373.7  | 381.8  | 383.0  | 383.0  | 384.1  | 386.4  | 381.8  | 384.1  | 387.6  | 388.7  | 387.6  |
| 72.5°  | 338.0  | 346.0  | 348.3  | 347.2  | 348.3  | 349.5  | 349.5  | 347.2  | 350.7  | 353.0  | 353.0  |
| 75°    | 309.1  | 313.7  | 316.1  | 316.1  | 317.2  | 318.4  | 318.4  | 317.2  | 319.5  | 320.7  | 321.8  |
| 77.5°  | 282.6  | 286.1  | 289.5  | 289.5  | 290.7  | 289.5  | 291.8  | 291.8  | 293.0  | 294.1  | 295.3  |
| 80°    | 256.1  | 260.7  | 263.0  | 264.1  | 266.5  | 267.6  | 267.6  | 267.6  | 268.8  | 269.9  | 269.9  |
| 82.5°  | 235.3  | 238.8  | 242.2  | 245.7  | 245.7  | 246.8  | 246.8  | 246.8  | 248.0  | 248.0  | 249.2  |
| 85°    | 214.5  | 219.2  | 222.6  | 224.9  | 226.1  | 227.2  | 227.2  | 228.4  | 228.4  | 228.4  | 229.5  |
| 87.5°  | 196.1  | 201.9  | 204.2  | 206.5  | 207.6  | 209.9  | 209.9  | 209.9  | 211.1  | 211.1  | 211.1  |
| 90°    | 183.4  | 189.2  | 191.5  | 193.8  | 194.9  | 196.1  | 196.1  | 197.2  | 197.2  | 198.4  | 198.4  |
| 92.5°  | 168.4  | 174.2  | 178.8  | 178.8  | 179.9  | 182.2  | 181.1  | 181.1  | 182.2  | 183.4  | 183.4  |
| 95°    | 156.9  | 161.5  | 164.9  | 166.1  | 167.3  | 167.3  | 167.3  | 168.4  | 167.3  | 168.4  | 168.4  |
| 97.5°  | 143.0  | 147.6  | 151.1  | 153.4  | 154.6  | 154.6  | 154.6  | 155.7  | 154.6  | 155.7  | 155.7  |
| 100°   | 131.5  | 136.1  | 139.6  | 140.7  | 143.0  | 143.0  | 143.0  | 143.0  | 143.0  | 143.0  | 144.2  |
| 102.5° | 122.3  | 126.9  | 129.2  | 130.3  | 131.5  | 132.6  | 132.6  | 132.6  | 132.6  | 133.8  | 133.8  |
| 105°   | 113.0  | 117.7  | 120.0  | 121.1  | 122.3  | 123.4  | 123.4  | 123.4  | 124.6  | 124.6  | 123.4  |
| 107.5° | 105.0  | 108.4  | 110.7  | 113.0  | 114.2  | 114.2  | 115.3  | 115.3  | 115.3  | 115.3  | 115.3  |
| 110°   | 96.9   | 100.4  | 103.8  | 106.1  | 106.1  | 107.3  | 107.3  | 108.4  | 108.4  | 107.3  | 108.4  |

TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 112.5° | 88.8 | 93.4 | 95.7 | 98.0 | 99.2 | 100.4 | 100.4 | 100.4 | 100.4 | 100.4 | 100.4 |
| 115°   | 81.9 | 86.5 | 88.8 | 91.1 | 92.3 | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  |
| 117.5° | 76.1 | 80.7 | 83.1 | 84.2 | 85.4 | 86.5  | 87.7  | 87.7  | 87.7  | 87.7  | 86.5  |
| 120°   | 70.4 | 73.8 | 76.1 | 78.4 | 79.6 | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  |
| 122.5° | 64.6 | 68.1 | 70.4 | 72.7 | 73.8 | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  |
| 125°   | 58.8 | 62.3 | 64.6 | 66.9 | 68.1 | 69.2  | 69.2  | 69.2  | 69.2  | 69.2  | 69.2  |
| 127.5° | 53.1 | 56.5 | 60.0 | 61.1 | 62.3 | 63.4  | 63.4  | 63.4  | 64.6  | 63.4  | 63.4  |
| 130°   | 47.3 | 50.8 | 54.2 | 55.4 | 56.5 | 57.7  | 58.8  | 58.8  | 58.8  | 58.8  | 57.7  |
| 132.5° | 42.7 | 46.1 | 48.4 | 49.6 | 51.9 | 51.9  | 53.1  | 53.1  | 53.1  | 53.1  | 51.9  |
| 135°   | 39.2 | 41.5 | 43.8 | 45.0 | 47.3 | 47.3  | 47.3  | 48.4  | 48.4  | 47.3  | 46.1  |
| 137.5° | 34.6 | 36.9 | 39.2 | 40.4 | 41.5 | 42.7  | 42.7  | 43.8  | 42.7  | 42.7  | 42.7  |
| 140°   | 32.3 | 33.5 | 35.8 | 36.9 | 38.1 | 38.1  | 38.1  | 39.2  | 39.2  | 38.1  | 38.1  |
| 142.5° | 27.7 | 30.0 | 32.3 | 33.5 | 34.6 | 34.6  | 34.6  | 34.6  | 34.6  | 34.6  | 34.6  |
| 145°   | 23.1 | 26.5 | 27.7 | 30.0 | 30.0 | 31.1  | 31.1  | 31.1  | 31.1  | 31.1  | 30.0  |
| 147.5° | 19.6 | 21.9 | 25.4 | 26.5 | 26.5 | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 26.5  |
| 150°   | 15.0 | 17.3 | 20.8 | 23.1 | 23.1 | 24.2  | 24.2  | 24.2  | 24.2  | 23.1  | 23.1  |
| 152.5° | 12.7 | 15.0 | 16.1 | 18.5 | 19.6 | 19.6  | 19.6  | 20.8  | 19.6  | 19.6  | 19.6  |
| 155°   | 11.5 | 12.7 | 13.8 | 15.0 | 16.1 | 17.3  | 17.3  | 17.3  | 17.3  | 16.1  | 16.1  |
| 157.5° | 9.2  | 10.4 | 11.5 | 12.7 | 13.8 | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  | 13.8  |
| 160°   | 6.9  | 8.1  | 9.2  | 9.2  | 10.4 | 11.5  | 12.7  | 11.5  | 11.5  | 11.5  | 11.5  |
| 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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2092.4 | 2091.3 | 2094.7 | 2088.9 | 2071.6 | 2076.3 | 2073.9 | 2084.3 | 2086.6 | 2088.9 | 2099.3 |
| 5°     | 2092.4 | 2091.3 | 2093.6 | 2088.9 | 2070.5 | 2073.9 | 2071.6 | 2082.0 | 2084.3 | 2085.5 | 2095.9 |
| 7.5°   | 2087.8 | 2086.6 | 2090.1 | 2084.3 | 2064.7 | 2069.3 | 2065.9 | 2076.3 | 2077.4 | 2078.6 | 2087.8 |
| 10°    | 2078.6 | 2077.4 | 2079.7 | 2075.1 | 2055.5 | 2060.1 | 2055.5 | 2065.9 | 2065.9 | 2068.2 | 2075.1 |
| 12.5°  | 2064.7 | 2062.4 | 2067.0 | 2061.3 | 2039.3 | 2045.1 | 2042.8 | 2049.7 | 2050.9 | 2052.0 | 2059.0 |
| 15°    | 2045.1 | 2042.8 | 2046.3 | 2042.8 | 2023.2 | 2024.3 | 2020.9 | 2031.3 | 2032.4 | 2030.1 | 2037.0 |
| 17.5°  | 2016.3 | 2014.0 | 2020.9 | 2018.6 | 1999.0 | 2003.6 | 2002.4 | 2004.7 | 2008.2 | 2002.4 | 2011.7 |
| 20°    | 1980.5 | 1982.8 | 1985.1 | 1986.3 | 1971.3 | 1971.3 | 1970.1 | 1974.7 | 1978.2 | 1973.6 | 1980.5 |
| 22.5°  | 1927.5 | 1933.2 | 1940.1 | 1942.5 | 1932.1 | 1930.9 | 1937.8 | 1935.5 | 1939.0 | 1936.7 | 1941.3 |
| 25°    | 1860.6 | 1872.1 | 1879.0 | 1885.9 | 1880.2 | 1882.5 | 1892.9 | 1895.2 | 1895.2 | 1894.0 | 1898.6 |
| 27.5°  | 1777.5 | 1792.5 | 1805.2 | 1820.2 | 1814.4 | 1819.0 | 1836.3 | 1838.6 | 1843.3 | 1838.6 | 1847.9 |
| 30°    | 1678.3 | 1692.1 | 1716.4 | 1738.3 | 1740.6 | 1747.5 | 1771.7 | 1774.0 | 1786.7 | 1782.1 | 1785.6 |
| 32.5°  | 1579.1 | 1586.0 | 1613.7 | 1635.6 | 1649.5 | 1666.8 | 1693.3 | 1697.9 | 1715.2 | 1718.7 | 1718.7 |
| 35°    | 1454.5 | 1474.1 | 1499.5 | 1530.7 | 1548.0 | 1566.4 | 1602.2 | 1609.1 | 1634.5 | 1642.5 | 1651.8 |
| 37.5°  | 1349.6 | 1368.0 | 1384.2 | 1416.5 | 1447.6 | 1468.4 | 1497.2 | 1514.5 | 1541.0 | 1556.0 | 1567.6 |
| 40°    | 1237.7 | 1252.7 | 1270.0 | 1302.3 | 1328.8 | 1359.9 | 1388.8 | 1409.5 | 1443.0 | 1460.3 | 1475.3 |
| 42.5°  | 1131.6 | 1143.1 | 1161.5 | 1184.6 | 1212.3 | 1246.9 | 1274.6 | 1298.8 | 1334.6 | 1358.8 | 1376.1 |
| 45°    | 1037.0 | 1043.9 | 1060.0 | 1077.3 | 1101.6 | 1137.3 | 1163.9 | 1195.0 | 1223.8 | 1249.2 | 1270.0 |
| 47.5°  | 948.2  | 957.4  | 965.5  | 977.0  | 998.9  | 1020.8 | 1052.0 | 1082.0 | 1110.8 | 1138.5 | 1159.2 |
| 50°    | 866.3  | 866.3  | 878.9  | 887.0  | 902.0  | 921.6  | 945.8  | 966.6  | 1002.4 | 1022.0 | 1048.5 |
| 52.5°  | 786.7  | 791.3  | 798.2  | 802.8  | 814.4  | 827.0  | 846.7  | 864.0  | 893.9  | 912.4  | 937.8  |
| 55°    | 716.3  | 720.9  | 724.4  | 726.7  | 733.6  | 748.6  | 755.5  | 769.4  | 790.1  | 805.1  | 827.0  |
| 57.5°  | 649.4  | 651.7  | 655.2  | 656.3  | 657.5  | 666.7  | 672.5  | 675.9  | 696.7  | 711.7  | 730.1  |
| 60°    | 588.3  | 588.3  | 591.7  | 590.6  | 589.4  | 594.0  | 592.9  | 596.3  | 609.0  | 618.3  | 626.3  |
| 62.5°  | 530.6  | 530.6  | 531.8  | 529.4  | 528.3  | 528.3  | 523.7  | 527.1  | 530.6  | 531.8  | 537.5  |
| 65°    | 477.5  | 483.3  | 478.7  | 479.8  | 472.9  | 470.6  | 468.3  | 461.4  | 460.2  | 455.6  | 457.9  |
| 67.5°  | 430.2  | 434.9  | 430.2  | 430.2  | 424.5  | 419.9  | 414.1  | 402.6  | 399.1  | 389.9  | 387.6  |
| 70°    | 392.2  | 388.7  | 391.0  | 387.6  | 380.6  | 374.9  | 366.8  | 357.6  | 346.0  | 334.5  | 326.4  |
| 72.5°  | 355.3  | 355.3  | 353.0  | 349.5  | 346.0  | 334.5  | 325.3  | 314.9  | 301.1  | 286.1  | 274.5  |
| 75°    | 319.5  | 320.7  | 320.7  | 317.2  | 311.4  | 301.1  | 290.7  | 275.7  | 260.7  | 243.4  | 228.4  |
| 77.5°  | 294.1  | 294.1  | 294.1  | 288.4  | 282.6  | 273.4  | 260.7  | 244.5  | 228.4  | 207.6  | 190.3  |
| 80°    | 269.9  | 268.8  | 268.8  | 261.8  | 256.1  | 245.7  | 233.0  | 216.9  | 199.6  | 177.6  | 158.0  |
| 82.5°  | 250.3  | 249.2  | 246.8  | 241.1  | 233.0  | 222.6  | 209.9  | 192.6  | 174.2  | 154.6  | 130.3  |
| 85°    | 229.5  | 228.4  | 226.1  | 220.3  | 212.2  | 203.0  | 189.2  | 171.9  | 153.4  | 131.5  | 108.4  |
| 87.5°  | 211.1  | 209.9  | 206.5  | 203.0  | 193.8  | 183.4  | 169.6  | 153.4  | 133.8  | 113.0  | 90.0   |
| 90°    | 198.4  | 196.1  | 193.8  | 189.2  | 181.1  | 169.6  | 155.7  | 138.4  | 118.8  | 98.0   | 75.0   |
| 92.5°  | 183.4  | 182.2  | 178.8  | 174.2  | 167.3  | 155.7  | 141.9  | 125.7  | 106.1  | 86.5   | 64.6   |
| 95°    | 168.4  | 167.3  | 164.9  | 160.3  | 153.4  | 143.0  | 130.3  | 114.2  | 95.7   | 76.1   | 56.5   |
| 97.5°  | 154.6  | 154.6  | 151.1  | 147.6  | 139.6  | 131.5  | 118.8  | 103.8  | 86.5   | 69.2   | 50.8   |
| 100°   | 143.0  | 143.0  | 139.6  | 135.0  | 129.2  | 121.1  | 108.4  | 94.6   | 78.4   | 62.3   | 43.8   |
| 102.5° | 132.6  | 131.5  | 129.2  | 124.6  | 118.8  | 110.7  | 99.2   | 86.5   | 71.5   | 55.4   | 39.2   |
| 105°   | 123.4  | 122.3  | 120.0  | 115.3  | 110.7  | 101.5  | 92.3   | 79.6   | 64.6   | 49.6   | 34.6   |
| 107.5° | 114.2  | 113.0  | 111.9  | 107.3  | 101.5  | 93.4   | 84.2   | 71.5   | 58.8   | 45.0   | 31.1   |
| 110°   | 106.1  | 105.0  | 102.7  | 98.0   | 92.3   | 85.4   | 76.1   | 65.7   | 53.1   | 40.4   | 27.7   |

TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 99.2 | 98.0 | 95.7 | 91.1 | 86.5 | 78.4 | 70.4 | 58.8 | 48.4 | 36.9 | 24.2 |
| 115°   | 92.3 | 91.1 | 88.8 | 84.2 | 78.4 | 71.5 | 63.4 | 54.2 | 42.7 | 32.3 | 21.9 |
| 117.5° | 85.4 | 84.2 | 81.9 | 78.4 | 72.7 | 65.7 | 57.7 | 48.4 | 38.1 | 30.0 | 19.6 |
| 120°   | 79.6 | 77.3 | 75.0 | 71.5 | 65.7 | 60.0 | 51.9 | 43.8 | 34.6 | 26.5 | 17.3 |
| 122.5° | 73.8 | 71.5 | 69.2 | 65.7 | 60.0 | 54.2 | 46.1 | 39.2 | 32.3 | 24.2 | 16.1 |
| 125°   | 66.9 | 65.7 | 63.4 | 60.0 | 54.2 | 48.4 | 42.7 | 35.8 | 28.8 | 21.9 | 13.8 |
| 127.5° | 61.1 | 60.0 | 57.7 | 53.1 | 48.4 | 43.8 | 38.1 | 32.3 | 25.4 | 18.5 | 12.7 |
| 130°   | 56.5 | 54.2 | 51.9 | 48.4 | 45.0 | 40.4 | 34.6 | 28.8 | 23.1 | 16.1 | 11.5 |
| 132.5° | 50.8 | 48.4 | 46.1 | 43.8 | 40.4 | 35.8 | 31.1 | 25.4 | 20.8 | 15.0 | 10.4 |
| 135°   | 46.1 | 43.8 | 41.5 | 39.2 | 35.8 | 32.3 | 27.7 | 23.1 | 18.5 | 13.8 | 9.2  |
| 137.5° | 40.4 | 39.2 | 38.1 | 35.8 | 32.3 | 28.8 | 25.4 | 19.6 | 16.1 | 12.7 | 8.1  |
| 140°   | 36.9 | 35.8 | 34.6 | 31.1 | 28.8 | 25.4 | 21.9 | 17.3 | 13.8 | 10.4 | 6.9  |
| 142.5° | 33.5 | 32.3 | 30.0 | 27.7 | 25.4 | 23.1 | 18.5 | 16.1 | 12.7 | 9.2  | 6.9  |
| 145°   | 28.8 | 27.7 | 26.5 | 24.2 | 21.9 | 18.5 | 16.1 | 13.8 | 11.5 | 8.1  | 5.8  |
| 147.5° | 26.5 | 25.4 | 23.1 | 20.8 | 18.5 | 16.1 | 15.0 | 12.7 | 9.2  | 6.9  | 4.6  |
| 150°   | 21.9 | 20.8 | 19.6 | 17.3 | 16.1 | 15.0 | 12.7 | 10.4 | 8.1  | 5.8  | 4.6  |
| 152.5° | 18.5 | 17.3 | 16.1 | 16.1 | 13.8 | 12.7 | 10.4 | 9.2  | 6.9  | 5.8  | 3.5  |
| 155°   | 16.1 | 16.1 | 15.0 | 13.8 | 11.5 | 10.4 | 9.2  | 6.9  | 5.8  | 4.6  | 3.5  |
| 157.5° | 13.8 | 12.7 | 11.5 | 11.5 | 10.4 | 9.2  | 6.9  | 5.8  | 4.6  | 4.6  | 3.5  |
| 160°   | 11.5 | 10.4 | 10.4 | 9.2  | 8.1  | 6.9  | 5.8  | 5.8  | 4.6  | 3.5  | 3.5  |
| 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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2100.5 | 2087.8 | 2099.3 | 2114.3 | 2114.3 | 2112.0 | 2109.7 | 2114.3 | 2125.9 | 2121.2 | 2107.4 |
| 5°     | 2097.0 | 2084.3 | 2094.7 | 2109.7 | 2109.7 | 2106.2 | 2103.9 | 2107.4 | 2120.1 | 2114.3 | 2101.6 |
| 7.5°   | 2090.1 | 2078.6 | 2085.5 | 2099.3 | 2099.3 | 2095.9 | 2093.6 | 2098.2 | 2108.6 | 2102.8 | 2088.9 |
| 10°    | 2077.4 | 2064.7 | 2072.8 | 2085.5 | 2084.3 | 2082.0 | 2078.6 | 2084.3 | 2093.6 | 2085.5 | 2069.3 |
| 12.5°  | 2061.3 | 2048.6 | 2055.5 | 2067.0 | 2065.9 | 2061.3 | 2059.0 | 2062.4 | 2070.5 | 2065.9 | 2048.6 |
| 15°    | 2039.3 | 2026.7 | 2032.4 | 2044.0 | 2040.5 | 2037.0 | 2032.4 | 2033.6 | 2044.0 | 2035.9 | 2017.4 |
| 17.5°  | 2012.8 | 1999.0 | 2003.6 | 2014.0 | 2010.5 | 2007.0 | 2001.3 | 2002.4 | 2014.0 | 2002.4 | 1982.8 |
| 20°    | 1980.5 | 1965.5 | 1969.0 | 1981.7 | 1975.9 | 1970.1 | 1964.4 | 1964.4 | 1975.9 | 1963.2 | 1941.3 |
| 22.5°  | 1945.9 | 1930.9 | 1933.2 | 1942.5 | 1937.8 | 1927.5 | 1921.7 | 1925.1 | 1930.9 | 1914.8 | 1891.7 |
| 25°    | 1903.2 | 1883.6 | 1887.1 | 1896.3 | 1892.9 | 1879.0 | 1873.2 | 1875.6 | 1873.2 | 1860.6 | 1836.3 |
| 27.5°  | 1853.6 | 1832.9 | 1835.2 | 1840.9 | 1836.3 | 1823.6 | 1816.7 | 1817.9 | 1813.3 | 1797.1 | 1769.4 |
| 30°    | 1791.3 | 1781.0 | 1779.8 | 1783.3 | 1776.4 | 1763.7 | 1755.6 | 1753.3 | 1752.1 | 1729.1 | 1695.6 |
| 32.5°  | 1727.9 | 1718.7 | 1712.9 | 1717.5 | 1709.4 | 1696.8 | 1682.9 | 1682.9 | 1671.4 | 1649.5 | 1620.6 |
| 35°    | 1663.3 | 1648.3 | 1642.5 | 1646.0 | 1636.8 | 1620.6 | 1609.1 | 1603.3 | 1586.0 | 1558.3 | 1527.2 |
| 37.5°  | 1580.3 | 1569.9 | 1563.0 | 1566.4 | 1556.0 | 1544.5 | 1522.6 | 1516.8 | 1498.4 | 1460.3 | 1421.1 |
| 40°    | 1490.3 | 1482.2 | 1475.3 | 1478.8 | 1467.2 | 1449.9 | 1430.3 | 1421.1 | 1400.3 | 1357.6 | 1326.5 |
| 42.5°  | 1393.4 | 1389.9 | 1381.9 | 1394.6 | 1371.5 | 1354.2 | 1334.6 | 1319.6 | 1298.8 | 1252.7 | 1216.9 |
| 45°    | 1290.7 | 1298.8 | 1280.4 | 1283.8 | 1268.8 | 1253.8 | 1233.1 | 1211.1 | 1190.4 | 1146.6 | 1106.2 |
| 47.5°  | 1182.3 | 1188.1 | 1175.4 | 1177.7 | 1161.5 | 1147.7 | 1129.3 | 1101.6 | 1078.5 | 1040.4 | 1004.7 |
| 50°    | 1070.4 | 1068.1 | 1068.1 | 1065.8 | 1053.1 | 1035.8 | 1017.4 | 992.0  | 968.9  | 934.3  | 904.3  |
| 52.5°  | 951.6  | 956.2  | 958.5  | 964.3  | 948.2  | 937.8  | 908.9  | 887.0  | 869.7  | 834.0  | 808.6  |
| 55°    | 837.4  | 853.6  | 849.0  | 851.3  | 832.8  | 824.7  | 801.7  | 784.4  | 759.0  | 738.2  | 722.1  |
| 57.5°  | 733.6  | 737.1  | 739.4  | 742.8  | 734.8  | 718.6  | 700.2  | 686.3  | 666.7  | 649.4  | 637.9  |
| 60°    | 633.3  | 633.3  | 634.4  | 640.2  | 632.1  | 618.3  | 604.4  | 594.0  | 580.2  | 569.8  | 562.9  |
| 62.5°  | 538.7  | 546.7  | 547.9  | 543.3  | 532.9  | 526.0  | 516.8  | 511.0  | 501.8  | 498.3  | 496.0  |
| 65°    | 451.0  | 451.0  | 451.0  | 453.3  | 447.5  | 442.9  | 437.2  | 436.0  | 439.5  | 434.9  | 437.2  |
| 67.5°  | 377.2  | 373.7  | 371.4  | 372.6  | 370.3  | 368.0  | 366.8  | 370.3  | 377.2  | 377.2  | 383.0  |
| 70°    | 313.7  | 306.8  | 302.2  | 302.2  | 302.2  | 303.4  | 306.8  | 313.7  | 325.3  | 329.9  | 338.0  |
| 72.5°  | 261.8  | 246.8  | 239.9  | 239.9  | 241.1  | 245.7  | 256.1  | 268.8  | 279.1  | 288.4  | 298.8  |
| 75°    | 212.2  | 197.2  | 186.9  | 185.7  | 188.0  | 194.9  | 209.9  | 221.5  | 238.8  | 251.5  | 264.1  |
| 77.5°  | 171.9  | 153.4  | 140.7  | 139.6  | 143.0  | 153.4  | 171.9  | 186.9  | 206.5  | 220.3  | 234.2  |
| 80°    | 137.3  | 116.5  | 106.1  | 99.2   | 105.0  | 117.7  | 138.4  | 156.9  | 175.3  | 193.8  | 211.1  |
| 82.5°  | 109.6  | 90.0   | 73.8   | 66.9   | 73.8   | 91.1   | 110.7  | 132.6  | 151.1  | 170.7  | 188.0  |
| 85°    | 86.5   | 65.7   | 47.3   | 40.4   | 48.4   | 66.9   | 88.8   | 110.7  | 131.5  | 151.1  | 168.4  |
| 87.5°  | 68.1   | 47.3   | 28.8   | 19.6   | 30.0   | 49.6   | 70.4   | 92.3   | 114.2  | 133.8  | 151.1  |
| 90°    | 53.1   | 33.5   | 16.1   | 2.3    | 17.3   | 35.8   | 56.5   | 77.3   | 99.2   | 118.8  | 136.1  |
| 92.5°  | 45.0   | 25.4   | 9.2    | 0.0    | 10.4   | 26.5   | 46.1   | 66.9   | 86.5   | 106.1  | 123.4  |
| 95°    | 38.1   | 20.8   | 6.9    | 0.0    | 6.9    | 20.8   | 38.1   | 56.5   | 76.1   | 95.7   | 113.0  |
| 97.5°  | 32.3   | 16.1   | 4.6    | 0.0    | 4.6    | 16.1   | 31.1   | 49.6   | 66.9   | 85.4   | 101.5  |
| 100°   | 27.7   | 13.8   | 3.5    | 0.0    | 3.5    | 12.7   | 26.5   | 42.7   | 60.0   | 77.3   | 92.3   |
| 102.5° | 24.2   | 11.5   | 2.3    | 0.0    | 2.3    | 10.4   | 21.9   | 36.9   | 51.9   | 68.1   | 83.1   |
| 105°   | 20.8   | 9.2    | 2.3    | 0.0    | 1.2    | 8.1    | 18.5   | 32.3   | 46.1   | 61.1   | 75.0   |
| 107.5° | 18.5   | 8.1    | 2.3    | 0.0    | 1.2    | 6.9    | 16.1   | 27.7   | 41.5   | 54.2   | 66.9   |
| 110°   | 16.1   | 6.9    | 2.3    | 0.0    | 1.2    | 4.6    | 13.8   | 24.2   | 35.8   | 48.4   | 61.1   |

TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 13.8 | 5.8  | 1.2  | 0.0  | 0.0  | 3.5  | 11.5 | 20.8 | 31.1 | 43.8 | 54.2 |
| 115°   | 12.7 | 5.8  | 1.2  | 0.0  | 0.0  | 2.3  | 9.2  | 18.5 | 27.7 | 39.2 | 48.4 |
| 117.5° | 11.5 | 4.6  | 1.2  | 0.0  | 1.2  | 2.3  | 8.1  | 16.1 | 24.2 | 33.5 | 43.8 |
| 120°   | 10.4 | 4.6  | 1.2  | 0.0  | 1.2  | 1.2  | 5.8  | 13.8 | 20.8 | 30.0 | 38.1 |
| 122.5° | 9.2  | 4.6  | 1.2  | 0.0  | 1.2  | 1.2  | 4.6  | 11.5 | 18.5 | 26.5 | 33.5 |
| 125°   | 8.1  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 3.5  | 9.2  | 16.1 | 21.9 | 30.0 |
| 127.5° | 8.1  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 2.3  | 8.1  | 12.7 | 19.6 | 26.5 |
| 130°   | 6.9  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 5.8  | 11.5 | 16.1 | 21.9 |
| 132.5° | 5.8  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 3.5  | 8.1  | 13.8 | 18.5 |
| 135°   | 5.8  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  | 5.8  | 10.4 | 15.0 |
| 137.5° | 4.6  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 4.6  | 8.1  | 11.5 |
| 140°   | 4.6  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 3.5  | 5.8  | 9.2  |
| 142.5° | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  | 4.6  | 6.9  |
| 145°   | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  | 4.6  |
| 147.5° | 3.5  | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  | 3.5  |
| 150°   | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  |
| 152.5° | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  |
| 155°   | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  | 2.3  |
| 157.5° | 3.5  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 2.3  |
| 160°   | 3.5  | 2.3  | 2.3  | 1.2  | 2.3  | 1.2  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
| 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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2102.8 | 2080.9 | 2092.4 | 2088.9 | 2093.6 | 2102.8 | 2101.6 | 2099.3 | 2099.3 | 2095.9 | 2091.3 |
| 5°     | 2095.9 | 2075.1 | 2085.5 | 2079.7 | 2085.5 | 2093.6 | 2092.4 | 2088.9 | 2091.3 | 2085.5 | 2079.7 |
| 7.5°   | 2082.0 | 2063.6 | 2072.8 | 2068.2 | 2072.8 | 2080.9 | 2077.4 | 2076.3 | 2078.6 | 2069.3 | 2065.9 |
| 10°    | 2065.9 | 2045.1 | 2055.5 | 2049.7 | 2055.5 | 2061.3 | 2059.0 | 2054.3 | 2059.0 | 2049.7 | 2046.3 |
| 12.5°  | 2040.5 | 2023.2 | 2030.1 | 2027.8 | 2031.3 | 2037.0 | 2032.4 | 2029.0 | 2031.3 | 2023.2 | 2016.3 |
| 15°    | 2012.8 | 1995.5 | 2001.3 | 1997.8 | 2000.1 | 2007.0 | 1999.0 | 1997.8 | 1995.5 | 1987.4 | 1985.1 |
| 17.5°  | 1977.1 | 1960.9 | 1966.7 | 1960.9 | 1964.4 | 1962.1 | 1960.9 | 1955.1 | 1955.1 | 1945.9 | 1939.0 |
| 20°    | 1933.2 | 1919.4 | 1915.9 | 1911.3 | 1915.9 | 1911.3 | 1904.4 | 1899.8 | 1898.6 | 1889.4 | 1883.6 |
| 22.5°  | 1882.5 | 1866.3 | 1868.6 | 1855.9 | 1857.1 | 1850.2 | 1838.6 | 1834.0 | 1829.4 | 1819.0 | 1811.0 |
| 25°    | 1821.3 | 1805.2 | 1793.7 | 1785.6 | 1775.2 | 1774.0 | 1759.0 | 1747.5 | 1746.4 | 1733.7 | 1732.5 |
| 27.5°  | 1752.1 | 1733.7 | 1724.4 | 1704.8 | 1692.1 | 1681.8 | 1669.1 | 1657.5 | 1651.8 | 1637.9 | 1628.7 |
| 30°    | 1672.5 | 1651.8 | 1628.7 | 1614.9 | 1595.3 | 1587.2 | 1565.3 | 1551.4 | 1546.8 | 1531.8 | 1524.9 |
| 32.5°  | 1582.6 | 1560.7 | 1542.2 | 1515.7 | 1493.8 | 1482.2 | 1460.3 | 1446.5 | 1440.7 | 1424.5 | 1415.3 |
| 35°    | 1484.5 | 1460.3 | 1438.4 | 1413.0 | 1395.7 | 1376.1 | 1349.6 | 1335.7 | 1323.0 | 1317.3 | 1310.3 |
| 37.5°  | 1381.9 | 1355.3 | 1330.0 | 1304.6 | 1289.6 | 1266.5 | 1243.4 | 1234.2 | 1219.2 | 1213.5 | 1206.5 |
| 40°    | 1275.7 | 1249.2 | 1225.0 | 1200.8 | 1183.5 | 1162.7 | 1141.9 | 1138.5 | 1122.3 | 1116.6 | 1111.9 |
| 42.5°  | 1170.8 | 1143.1 | 1115.4 | 1098.1 | 1085.4 | 1064.7 | 1050.8 | 1047.4 | 1033.5 | 1030.1 | 1030.1 |
| 45°    | 1076.2 | 1041.6 | 1018.5 | 1003.5 | 993.1  | 975.8  | 964.3  | 962.0  | 950.5  | 948.2  | 948.2  |
| 47.5°  | 974.7  | 942.4  | 925.1  | 915.9  | 906.6  | 893.9  | 887.0  | 887.0  | 875.5  | 873.2  | 872.0  |
| 50°    | 880.1  | 850.1  | 837.4  | 828.2  | 827.0  | 817.8  | 812.0  | 809.7  | 809.7  | 801.7  | 802.8  |
| 52.5°  | 790.1  | 775.1  | 764.8  | 759.0  | 752.1  | 746.3  | 741.7  | 741.7  | 738.2  | 732.5  | 734.8  |
| 55°    | 707.1  | 689.8  | 690.9  | 686.3  | 682.9  | 679.4  | 680.6  | 673.6  | 672.5  | 667.9  | 671.3  |
| 57.5°  | 624.0  | 624.0  | 621.7  | 618.3  | 612.5  | 614.8  | 614.8  | 614.8  | 609.0  | 605.6  | 609.0  |
| 60°    | 553.7  | 557.1  | 551.4  | 554.8  | 552.5  | 553.7  | 551.4  | 551.4  | 547.9  | 546.7  | 547.9  |
| 62.5°  | 491.4  | 497.1  | 494.8  | 499.5  | 497.1  | 498.3  | 500.6  | 496.0  | 493.7  | 491.4  | 493.7  |
| 65°    | 436.0  | 442.9  | 441.8  | 445.2  | 446.4  | 447.5  | 448.7  | 446.4  | 444.1  | 441.8  | 440.6  |
| 67.5°  | 387.6  | 394.5  | 399.1  | 400.3  | 401.4  | 404.9  | 403.7  | 401.4  | 399.1  | 395.6  | 394.5  |
| 70°    | 343.7  | 353.0  | 358.7  | 361.0  | 365.7  | 363.3  | 363.3  | 362.2  | 359.9  | 356.4  | 355.3  |
| 72.5°  | 306.8  | 317.2  | 323.0  | 325.3  | 329.9  | 329.9  | 328.7  | 327.6  | 325.3  | 321.8  | 320.7  |
| 75°    | 274.5  | 283.8  | 291.8  | 296.4  | 299.9  | 299.9  | 298.8  | 297.6  | 295.3  | 293.0  | 291.8  |
| 77.5°  | 249.2  | 257.2  | 264.1  | 269.9  | 272.2  | 273.4  | 272.2  | 269.9  | 269.9  | 268.8  | 267.6  |
| 80°    | 223.8  | 233.0  | 239.9  | 245.7  | 249.2  | 249.2  | 248.0  | 249.2  | 246.8  | 245.7  | 244.5  |
| 82.5°  | 201.9  | 212.2  | 220.3  | 226.1  | 228.4  | 229.5  | 228.4  | 229.5  | 227.2  | 227.2  | 227.2  |
| 85°    | 182.2  | 192.6  | 201.9  | 206.5  | 209.9  | 211.1  | 211.1  | 211.1  | 209.9  | 209.9  | 209.9  |
| 87.5°  | 166.1  | 176.5  | 185.7  | 190.3  | 193.8  | 194.9  | 194.9  | 196.1  | 193.8  | 193.8  | 193.8  |
| 90°    | 151.1  | 161.5  | 170.7  | 175.3  | 178.8  | 181.1  | 181.1  | 182.2  | 181.1  | 179.9  | 179.9  |
| 92.5°  | 137.3  | 148.8  | 158.0  | 162.6  | 166.1  | 169.6  | 169.6  | 170.7  | 168.4  | 168.4  | 168.4  |
| 95°    | 125.7  | 137.3  | 145.3  | 151.1  | 154.6  | 156.9  | 158.0  | 158.0  | 156.9  | 156.9  | 156.9  |
| 97.5°  | 115.3  | 125.7  | 133.8  | 139.6  | 143.0  | 144.2  | 145.3  | 146.5  | 145.3  | 145.3  | 145.3  |
| 100°   | 105.0  | 115.3  | 123.4  | 128.0  | 132.6  | 133.8  | 135.0  | 136.1  | 136.1  | 135.0  | 135.0  |
| 102.5° | 95.7   | 106.1  | 113.0  | 118.8  | 122.3  | 124.6  | 125.7  | 125.7  | 125.7  | 125.7  | 125.7  |
| 105°   | 86.5   | 96.9   | 103.8  | 109.6  | 113.0  | 115.3  | 116.5  | 117.7  | 117.7  | 116.5  | 116.5  |
| 107.5° | 78.4   | 87.7   | 95.7   | 100.4  | 105.0  | 107.3  | 108.4  | 108.4  | 109.6  | 108.4  | 108.4  |
| 110°   | 70.4   | 80.7   | 87.7   | 92.3   | 96.9   | 99.2   | 100.4  | 101.5  | 101.5  | 101.5  | 101.5  |



TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 64.6 | 72.7 | 79.6 | 84.2 | 88.8 | 91.1 | 92.3 | 93.4 | 94.6 | 93.4 | 93.4 |
| 115°   | 57.7 | 65.7 | 72.7 | 77.3 | 80.7 | 83.1 | 85.4 | 86.5 | 86.5 | 87.7 | 86.5 |
| 117.5° | 51.9 | 58.8 | 65.7 | 70.4 | 73.8 | 77.3 | 78.4 | 79.6 | 80.7 | 79.6 | 79.6 |
| 120°   | 46.1 | 53.1 | 58.8 | 63.4 | 66.9 | 70.4 | 71.5 | 72.7 | 73.8 | 72.7 | 72.7 |
| 122.5° | 41.5 | 47.3 | 53.1 | 57.7 | 61.1 | 63.4 | 65.7 | 65.7 | 66.9 | 66.9 | 66.9 |
| 125°   | 36.9 | 42.7 | 47.3 | 51.9 | 55.4 | 57.7 | 58.8 | 60.0 | 60.0 | 61.1 | 61.1 |
| 127.5° | 32.3 | 36.9 | 42.7 | 46.1 | 49.6 | 51.9 | 53.1 | 54.2 | 54.2 | 55.4 | 55.4 |
| 130°   | 27.7 | 32.3 | 36.9 | 40.4 | 43.8 | 46.1 | 47.3 | 48.4 | 49.6 | 49.6 | 49.6 |
| 132.5° | 24.2 | 28.8 | 32.3 | 35.8 | 38.1 | 40.4 | 42.7 | 43.8 | 43.8 | 43.8 | 43.8 |
| 135°   | 19.6 | 24.2 | 27.7 | 31.1 | 33.5 | 35.8 | 36.9 | 39.2 | 39.2 | 39.2 | 39.2 |
| 137.5° | 16.1 | 20.8 | 24.2 | 26.5 | 28.8 | 31.1 | 32.3 | 33.5 | 34.6 | 34.6 | 34.6 |
| 140°   | 12.7 | 16.1 | 19.6 | 23.1 | 25.4 | 26.5 | 28.8 | 28.8 | 30.0 | 30.0 | 30.0 |
| 142.5° | 9.2  | 12.7 | 15.0 | 18.5 | 20.8 | 23.1 | 24.2 | 25.4 | 25.4 | 25.4 | 25.4 |
| 145°   | 6.9  | 9.2  | 11.5 | 13.8 | 17.3 | 18.5 | 19.6 | 20.8 | 21.9 | 21.9 | 21.9 |
| 147.5° | 4.6  | 6.9  | 8.1  | 10.4 | 12.7 | 15.0 | 16.1 | 17.3 | 18.5 | 18.5 | 18.5 |
| 150°   | 3.5  | 4.6  | 6.9  | 8.1  | 9.2  | 11.5 | 13.8 | 13.8 | 15.0 | 15.0 | 13.8 |
| 152.5° | 2.3  | 3.5  | 4.6  | 5.8  | 6.9  | 8.1  | 10.4 | 10.4 | 11.5 | 11.5 | 11.5 |
| 155°   | 2.3  | 2.3  | 2.3  | 3.5  | 4.6  | 5.8  | 6.9  | 8.1  | 8.1  | 8.1  | 8.1  |
| 157.5° | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 3.5  | 4.6  | 5.8  | 5.8  | 5.8  | 5.8  |
| 160°   | 2.3  | 2.3  | 1.2  | 1.2  | 2.3  | 2.3  | 2.3  | 2.3  | 3.5  | 3.5  | 3.5  |
| 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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2094.7 | 2097.0 | 2097.0 | 2094.7 | 2093.6 | 2098.2 | 2092.4 | 2070.5 | 2077.4 | 2079.7 | 2086.6 |
| 5°     | 2084.3 | 2086.6 | 2086.6 | 2086.6 | 2084.3 | 2088.9 | 2083.2 | 2061.3 | 2069.3 | 2072.8 | 2077.4 |
| 7.5°   | 2069.3 | 2070.5 | 2072.8 | 2071.6 | 2069.3 | 2076.3 | 2070.5 | 2048.6 | 2054.3 | 2060.1 | 2065.9 |
| 10°    | 2049.7 | 2049.7 | 2050.9 | 2053.2 | 2050.9 | 2056.6 | 2050.9 | 2031.3 | 2037.0 | 2040.5 | 2047.4 |
| 12.5°  | 2023.2 | 2025.5 | 2026.7 | 2025.5 | 2024.3 | 2029.0 | 2026.7 | 2008.2 | 2010.5 | 2017.4 | 2024.3 |
| 15°    | 1987.4 | 1987.4 | 1993.2 | 1990.9 | 1990.9 | 1995.5 | 1997.8 | 1977.1 | 1980.5 | 1990.9 | 1997.8 |
| 17.5°  | 1943.6 | 1944.8 | 1949.4 | 1951.7 | 1950.5 | 1958.6 | 1959.8 | 1943.6 | 1942.5 | 1955.1 | 1962.1 |
| 20°    | 1887.1 | 1889.4 | 1895.2 | 1899.8 | 1899.8 | 1909.0 | 1912.5 | 1902.1 | 1903.2 | 1917.1 | 1919.4 |
| 22.5°  | 1817.9 | 1817.9 | 1828.3 | 1835.2 | 1840.9 | 1846.7 | 1857.1 | 1847.9 | 1847.9 | 1866.3 | 1876.7 |
| 25°    | 1732.5 | 1740.6 | 1744.1 | 1757.9 | 1766.0 | 1782.1 | 1791.3 | 1792.5 | 1793.7 | 1811.0 | 1817.9 |
| 27.5°  | 1637.9 | 1640.2 | 1650.6 | 1666.8 | 1676.0 | 1691.0 | 1708.3 | 1711.8 | 1717.5 | 1740.6 | 1751.0 |
| 30°    | 1530.7 | 1537.6 | 1542.2 | 1565.3 | 1578.0 | 1597.6 | 1619.5 | 1627.6 | 1632.2 | 1663.3 | 1676.0 |
| 32.5°  | 1421.1 | 1423.4 | 1443.0 | 1455.7 | 1470.7 | 1491.4 | 1516.8 | 1531.8 | 1541.0 | 1573.3 | 1591.8 |
| 35°    | 1311.5 | 1316.1 | 1332.3 | 1348.4 | 1363.4 | 1384.2 | 1410.7 | 1431.5 | 1447.6 | 1476.4 | 1500.7 |
| 37.5°  | 1211.1 | 1222.7 | 1226.1 | 1242.3 | 1253.8 | 1274.6 | 1293.0 | 1323.0 | 1339.2 | 1369.2 | 1400.3 |
| 40°    | 1121.2 | 1124.6 | 1126.9 | 1143.1 | 1151.2 | 1170.8 | 1197.3 | 1216.9 | 1238.8 | 1260.7 | 1297.7 |
| 42.5°  | 1032.4 | 1034.7 | 1038.1 | 1047.4 | 1056.6 | 1070.4 | 1090.0 | 1109.6 | 1132.7 | 1165.0 | 1189.2 |
| 45°    | 950.5  | 952.8  | 955.1  | 960.8  | 968.9  | 981.6  | 994.3  | 1008.1 | 1031.2 | 1058.9 | 1084.3 |
| 47.5°  | 874.3  | 878.9  | 878.9  | 880.1  | 885.9  | 896.3  | 905.5  | 922.8  | 935.5  | 950.5  | 979.3  |
| 50°    | 801.7  | 805.1  | 806.3  | 806.3  | 809.7  | 816.7  | 819.0  | 830.5  | 842.0  | 855.9  | 876.6  |
| 52.5°  | 733.6  | 733.6  | 732.5  | 737.1  | 737.1  | 741.7  | 742.8  | 749.8  | 757.8  | 772.8  | 782.1  |
| 55°    | 669.0  | 669.0  | 672.5  | 670.2  | 670.2  | 672.5  | 671.3  | 672.5  | 679.4  | 688.6  | 696.7  |
| 57.5°  | 606.7  | 605.6  | 609.0  | 606.7  | 605.6  | 607.9  | 610.2  | 605.6  | 606.7  | 616.0  | 616.0  |
| 60°    | 544.4  | 545.6  | 549.1  | 546.7  | 546.7  | 546.7  | 544.4  | 542.1  | 539.8  | 545.6  | 547.9  |
| 62.5°  | 494.8  | 491.4  | 494.8  | 491.4  | 493.7  | 492.5  | 490.2  | 485.6  | 486.8  | 484.5  | 482.2  |
| 65°    | 442.9  | 442.9  | 444.1  | 440.6  | 442.9  | 442.9  | 439.5  | 438.3  | 431.4  | 429.1  | 423.3  |
| 67.5°  | 397.9  | 397.9  | 399.1  | 396.8  | 396.8  | 397.9  | 394.5  | 391.0  | 384.1  | 380.6  | 372.6  |
| 70°    | 358.7  | 358.7  | 358.7  | 357.6  | 357.6  | 357.6  | 355.3  | 350.7  | 343.7  | 338.0  | 327.6  |
| 72.5°  | 323.0  | 324.1  | 323.0  | 323.0  | 326.4  | 323.0  | 319.5  | 314.9  | 309.1  | 297.6  | 288.4  |
| 75°    | 294.1  | 295.3  | 294.1  | 294.1  | 294.1  | 293.0  | 291.8  | 284.9  | 278.0  | 268.8  | 254.9  |
| 77.5°  | 268.8  | 268.8  | 269.9  | 268.8  | 268.8  | 267.6  | 264.1  | 258.4  | 250.3  | 242.2  | 226.1  |
| 80°    | 244.5  | 245.7  | 246.8  | 248.0  | 245.7  | 244.5  | 241.1  | 236.5  | 226.1  | 216.9  | 200.7  |
| 82.5°  | 227.2  | 226.1  | 227.2  | 228.4  | 226.1  | 224.9  | 221.5  | 215.7  | 207.6  | 194.9  | 178.8  |
| 85°    | 209.9  | 208.8  | 208.8  | 209.9  | 208.8  | 206.5  | 203.0  | 197.2  | 189.2  | 176.5  | 160.3  |
| 87.5°  | 192.6  | 193.8  | 194.9  | 193.8  | 192.6  | 190.3  | 186.9  | 181.1  | 171.9  | 161.5  | 144.2  |
| 90°    | 179.9  | 179.9  | 179.9  | 179.9  | 178.8  | 176.5  | 173.0  | 166.1  | 158.0  | 145.3  | 130.3  |
| 92.5°  | 168.4  | 168.4  | 168.4  | 168.4  | 167.3  | 163.8  | 160.3  | 154.6  | 145.3  | 132.6  | 118.8  |
| 95°    | 156.9  | 158.0  | 156.9  | 156.9  | 154.6  | 153.4  | 147.6  | 141.9  | 133.8  | 121.1  | 106.1  |
| 97.5°  | 144.2  | 145.3  | 144.2  | 144.2  | 143.0  | 140.7  | 137.3  | 130.3  | 122.3  | 110.7  | 96.9   |
| 100°   | 135.0  | 135.0  | 133.8  | 133.8  | 132.6  | 130.3  | 125.7  | 120.0  | 111.9  | 100.4  | 86.5   |
| 102.5° | 124.6  | 125.7  | 124.6  | 124.6  | 122.3  | 120.0  | 116.5  | 110.7  | 102.7  | 91.1   | 78.4   |
| 105°   | 116.5  | 116.5  | 115.3  | 115.3  | 113.0  | 110.7  | 107.3  | 100.4  | 93.4   | 83.1   | 70.4   |
| 107.5° | 108.4  | 108.4  | 107.3  | 107.3  | 105.0  | 102.7  | 98.0   | 92.3   | 85.4   | 75.0   | 63.4   |
| 110°   | 100.4  | 100.4  | 100.4  | 99.2   | 96.9   | 93.4   | 90.0   | 84.2   | 77.3   | 68.1   | 56.5   |

TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 94.6 | 93.4 | 92.3 | 91.1 | 88.8 | 86.5 | 81.9 | 76.1 | 69.2 | 61.1 | 50.8 |
| 115°   | 86.5 | 86.5 | 85.4 | 84.2 | 81.9 | 78.4 | 75.0 | 70.4 | 63.4 | 54.2 | 45.0 |
| 117.5° | 79.6 | 79.6 | 78.4 | 77.3 | 75.0 | 71.5 | 68.1 | 63.4 | 56.5 | 48.4 | 40.4 |
| 120°   | 72.7 | 72.7 | 71.5 | 70.4 | 68.1 | 64.6 | 62.3 | 56.5 | 50.8 | 42.7 | 35.8 |
| 122.5° | 66.9 | 65.7 | 65.7 | 63.4 | 62.3 | 58.8 | 55.4 | 50.8 | 45.0 | 38.1 | 31.1 |
| 125°   | 60.0 | 60.0 | 58.8 | 57.7 | 56.5 | 53.1 | 49.6 | 45.0 | 39.2 | 33.5 | 27.7 |
| 127.5° | 54.2 | 54.2 | 53.1 | 51.9 | 50.8 | 47.3 | 43.8 | 40.4 | 34.6 | 28.8 | 23.1 |
| 130°   | 48.4 | 48.4 | 47.3 | 46.1 | 45.0 | 41.5 | 39.2 | 34.6 | 30.0 | 25.4 | 19.6 |
| 132.5° | 43.8 | 43.8 | 42.7 | 41.5 | 39.2 | 36.9 | 34.6 | 30.0 | 26.5 | 21.9 | 17.3 |
| 135°   | 39.2 | 38.1 | 38.1 | 36.9 | 34.6 | 32.3 | 30.0 | 26.5 | 21.9 | 18.5 | 13.8 |
| 137.5° | 34.6 | 33.5 | 32.3 | 31.1 | 30.0 | 27.7 | 25.4 | 23.1 | 19.6 | 15.0 | 11.5 |
| 140°   | 30.0 | 28.8 | 28.8 | 27.7 | 25.4 | 24.2 | 21.9 | 18.5 | 16.1 | 12.7 | 9.2  |
| 142.5° | 25.4 | 25.4 | 24.2 | 23.1 | 21.9 | 20.8 | 18.5 | 16.1 | 12.7 | 10.4 | 6.9  |
| 145°   | 21.9 | 20.8 | 20.8 | 19.6 | 18.5 | 16.1 | 15.0 | 12.7 | 10.4 | 8.1  | 5.8  |
| 147.5° | 17.3 | 17.3 | 17.3 | 16.1 | 15.0 | 13.8 | 12.7 | 10.4 | 8.1  | 5.8  | 3.5  |
| 150°   | 13.8 | 13.8 | 13.8 | 12.7 | 11.5 | 10.4 | 9.2  | 8.1  | 5.8  | 3.5  | 2.3  |
| 152.5° | 11.5 | 11.5 | 10.4 | 10.4 | 9.2  | 8.1  | 6.9  | 5.8  | 3.5  | 2.3  | 2.3  |
| 155°   | 8.1  | 8.1  | 8.1  | 6.9  | 6.9  | 5.8  | 4.6  | 3.5  | 2.3  | 2.3  | 2.3  |
| 157.5° | 5.8  | 5.8  | 5.8  | 4.6  | 4.6  | 3.5  | 3.5  | 2.3  | 2.3  | 2.3  | 2.3  |
| 160°   | 3.5  | 3.5  | 3.5  | 3.5  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
| 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: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 | 2097.0 |
| 2.5°   | 2083.2 | 2082.0 | 2091.3 | 2091.3 | 2080.9 | 2097.0 | 2114.3 |
| 5°     | 2076.3 | 2075.1 | 2084.3 | 2084.3 | 2075.1 | 2091.3 | 2109.7 |
| 7.5°   | 2062.4 | 2063.6 | 2072.8 | 2075.1 | 2063.6 | 2078.6 | 2098.2 |
| 10°    | 2047.4 | 2046.3 | 2056.6 | 2059.0 | 2049.7 | 2063.6 | 2082.0 |
| 12.5°  | 2023.2 | 2023.2 | 2033.6 | 2037.0 | 2027.8 | 2044.0 | 2061.3 |
| 15°    | 1997.8 | 1997.8 | 2004.7 | 2010.5 | 2002.4 | 2017.4 | 2034.7 |
| 17.5°  | 1965.5 | 1964.4 | 1971.3 | 1978.2 | 1970.1 | 1986.3 | 2004.7 |
| 20°    | 1924.0 | 1924.0 | 1932.1 | 1940.1 | 1934.4 | 1949.4 | 1970.1 |
| 22.5°  | 1880.2 | 1875.6 | 1889.4 | 1895.2 | 1891.7 | 1906.7 | 1927.5 |
| 25°    | 1824.8 | 1823.6 | 1837.5 | 1845.6 | 1840.9 | 1857.1 | 1875.6 |
| 27.5°  | 1764.8 | 1763.7 | 1777.5 | 1787.9 | 1785.6 | 1800.6 | 1821.3 |
| 30°    | 1692.1 | 1697.9 | 1710.6 | 1727.9 | 1722.1 | 1738.3 | 1760.2 |
| 32.5°  | 1616.0 | 1621.8 | 1636.8 | 1655.2 | 1656.4 | 1669.1 | 1691.0 |
| 35°    | 1524.9 | 1539.9 | 1550.3 | 1574.5 | 1579.1 | 1591.8 | 1614.9 |
| 37.5°  | 1429.2 | 1446.5 | 1468.4 | 1486.8 | 1496.1 | 1506.4 | 1533.0 |
| 40°    | 1321.9 | 1347.3 | 1371.5 | 1393.4 | 1404.9 | 1415.3 | 1440.7 |
| 42.5°  | 1225.0 | 1244.6 | 1267.7 | 1289.6 | 1310.3 | 1319.6 | 1346.1 |
| 45°    | 1115.4 | 1138.5 | 1159.2 | 1185.8 | 1206.5 | 1216.9 | 1243.4 |
| 47.5°  | 1008.1 | 1031.2 | 1058.9 | 1077.3 | 1099.3 | 1109.6 | 1135.0 |
| 50°    | 905.5  | 926.2  | 949.3  | 971.2  | 989.7  | 998.9  | 1020.8 |
| 52.5°  | 804.0  | 825.9  | 847.8  | 861.6  | 881.3  | 888.2  | 906.6  |
| 55°    | 714.0  | 729.0  | 748.6  | 756.7  | 776.3  | 780.9  | 793.6  |
| 57.5°  | 627.5  | 637.9  | 644.8  | 658.6  | 672.5  | 682.9  | 697.9  |
| 60°    | 549.1  | 553.7  | 558.3  | 566.4  | 577.9  | 581.4  | 587.1  |
| 62.5°  | 478.7  | 477.5  | 486.8  | 489.1  | 490.2  | 501.8  | 496.0  |
| 65°    | 416.4  | 417.6  | 409.5  | 406.0  | 410.6  | 414.1  | 411.8  |
| 67.5°  | 364.5  | 357.6  | 350.7  | 342.6  | 335.7  | 339.1  | 335.7  |
| 70°    | 313.7  | 308.0  | 296.4  | 284.9  | 280.3  | 273.4  | 269.9  |
| 72.5°  | 273.4  | 259.5  | 248.0  | 233.0  | 224.9  | 216.9  | 211.1  |
| 75°    | 242.2  | 222.6  | 206.5  | 190.3  | 178.8  | 167.3  | 164.9  |
| 77.5°  | 209.9  | 191.5  | 173.0  | 155.7  | 138.4  | 125.7  | 121.1  |
| 80°    | 184.6  | 167.3  | 145.3  | 124.6  | 106.1  | 90.0   | 84.2   |
| 82.5°  | 161.5  | 143.0  | 121.1  | 99.2   | 78.4   | 61.1   | 54.2   |
| 85°    | 141.9  | 122.3  | 100.4  | 78.4   | 57.7   | 39.2   | 30.0   |
| 87.5°  | 126.9  | 105.0  | 83.1   | 62.3   | 40.4   | 21.9   | 11.5   |
| 90°    | 113.0  | 92.3   | 71.5   | 49.6   | 28.8   | 11.5   | 0.0    |
| 92.5°  | 100.4  | 80.7   | 60.0   | 40.4   | 21.9   | 6.9    | 1.2    |
| 95°    | 88.8   | 71.5   | 50.8   | 32.3   | 16.1   | 4.6    | 1.2    |
| 97.5°  | 79.6   | 62.3   | 43.8   | 26.5   | 12.7   | 3.5    | 1.2    |
| 100°   | 71.5   | 54.2   | 38.1   | 21.9   | 10.4   | 2.3    | 1.2    |
| 102.5° | 63.4   | 48.4   | 32.3   | 18.5   | 8.1    | 1.2    | 1.2    |
| 105°   | 56.5   | 42.7   | 27.7   | 16.1   | 6.9    | 1.2    | 1.2    |
| 107.5° | 50.8   | 38.1   | 24.2   | 13.8   | 4.6    | 1.2    | 1.2    |
| 110°   | 45.0   | 32.3   | 20.8   | 11.5   | 3.5    | 1.2    | 1.2    |



TEST NUMBER: P1213843

CATALOG NUMBER: 4SNLED-LD5-61SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 40.4 | 28.8 | 18.5 | 9.2  | 2.3  | 1.2  | 1.2  |
| 115°   | 35.8 | 25.4 | 16.1 | 8.1  | 2.3  | 1.2  | 1.2  |
| 117.5° | 31.1 | 21.9 | 13.8 | 5.8  | 1.2  | 1.2  | 1.2  |
| 120°   | 27.7 | 19.6 | 11.5 | 4.6  | 1.2  | 1.2  | 1.2  |
| 122.5° | 24.2 | 16.1 | 9.2  | 3.5  | 1.2  | 1.2  | 1.2  |
| 125°   | 20.8 | 13.8 | 8.1  | 2.3  | 1.2  | 1.2  | 1.2  |
| 127.5° | 17.3 | 11.5 | 5.8  | 2.3  | 1.2  | 1.2  | 1.2  |
| 130°   | 15.0 | 9.2  | 4.6  | 1.2  | 1.2  | 1.2  | 1.2  |
| 132.5° | 12.7 | 6.9  | 3.5  | 1.2  | 1.2  | 1.2  | 1.2  |
| 135°   | 10.4 | 5.8  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  |
| 137.5° | 8.1  | 4.6  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  |
| 140°   | 5.8  | 3.5  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  |
| 142.5° | 4.6  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  |
| 145°   | 3.5  | 2.3  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  |
| 147.5° | 2.3  | 2.3  | 2.3  | 2.3  | 1.2  | 1.2  | 1.2  |
| 150°   | 2.3  | 2.3  | 1.2  | 1.2  | 2.3  | 1.2  | 1.2  |
| 152.5° | 2.3  | 1.2  | 1.2  | 1.2  | 2.3  | 1.2  | 1.2  |
| 155°   | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 1.2  |
| 157.5° | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
| 160°   | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
| 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)