

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: P1214236

Luminaire Tested: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1214236  
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-LD5-78SL-LN-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

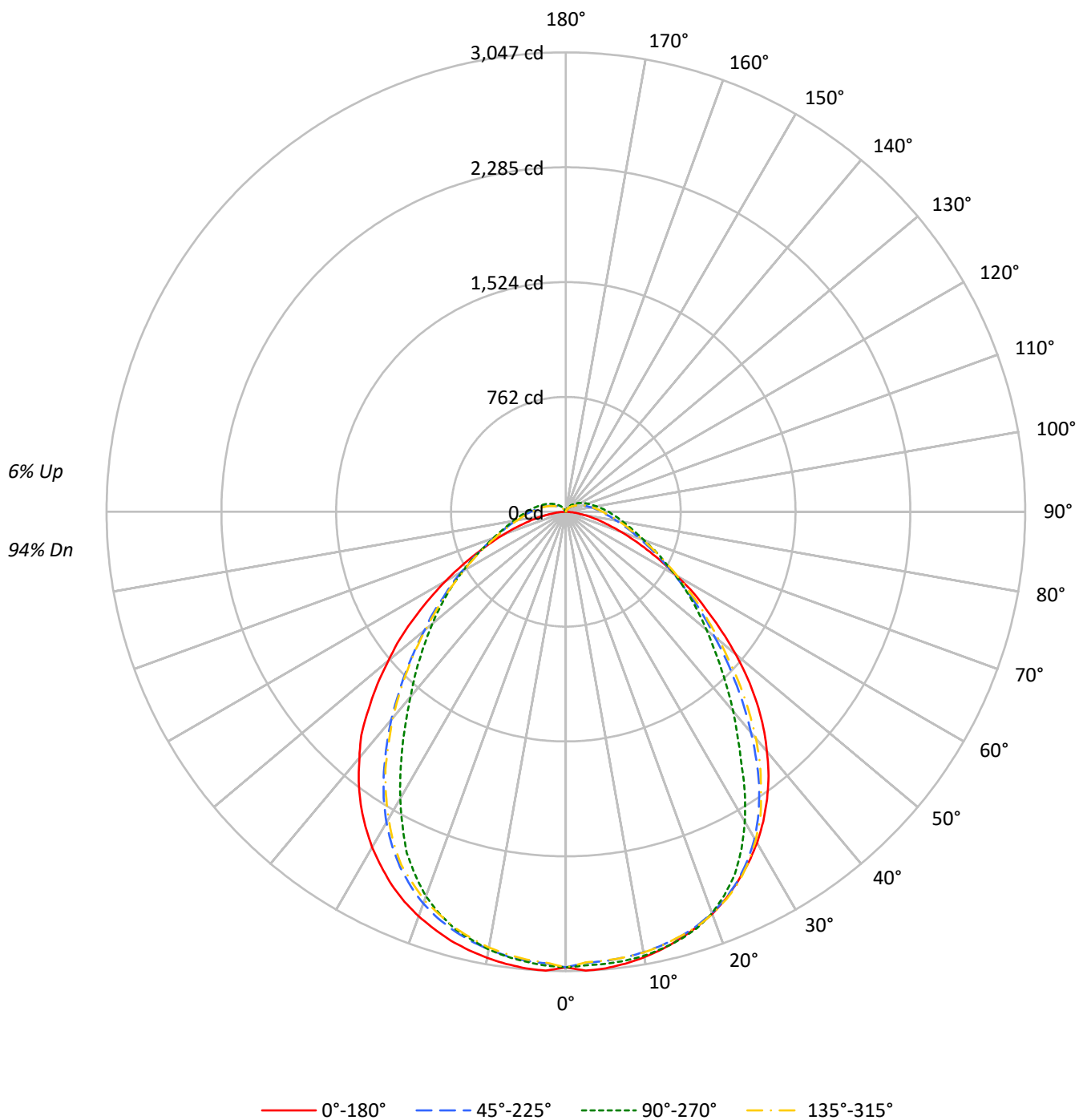
Lumens per Lamp: N/A  
Luminaire Lumens: 7647.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 85  
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: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-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°  | 24418 | 24418 | 24418 | 24418 |
| 5°  | 24592 | 23640 | 24592 | 23536 |
| 10° | 24482 | 23013 | 24523 | 22692 |
| 15° | 24325 | 22325 | 24435 | 21743 |
| 20° | 24138 | 21440 | 24279 | 20535 |
| 25° | 23751 | 20129 | 24013 | 18943 |
| 30° | 23247 | 18202 | 23552 | 16851 |
| 35° | 22464 | 15840 | 22897 | 14750 |
| 40° | 21339 | 13854 | 21903 | 12853 |
| 45° | 19856 | 12043 | 20501 | 11352 |
| 50° | 17828 | 10582 | 18615 | 10048 |
| 55° | 15422 | 9345  | 16543 | 8872  |
| 60° | 12971 | 8205  | 14144 | 7732  |
| 65° | 10634 | 7254  | 11706 | 6726  |
| 70° | 8462  | 6438  | 9476  | 5954  |
| 75° | 6646  | 5944  | 7483  | 5468  |
| 80° | 4795  | 5735  | 5649  | 5241  |
| 85° | 2951  | 5768  | 3976  | 5301  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 20501 cd/sqm

TEST NUMBER: P1214236

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 286.5  | 3.7       |
| 10°-20°   | 821.4  | 10.7      |
| 20°-30°   | 1217.4 | 15.9      |
| 30°-40°   | 1352.5 | 17.7      |
| 40°-50°   | 1226.0 | 16.0      |
| 50°-60°   | 950.0  | 12.4      |
| 60°-70°   | 645.1  | 8.4       |
| 70°-80°   | 410.4  | 5.4       |
| 80°-90°   | 262.4  | 3.4       |
| 90°-100°  | 176.9  | 2.3       |
| 100°-110° | 121.2  | 1.6       |
| 110°-120° | 80.8   | 1.1       |
| 120°-130° | 50.3   | 0.7       |
| 130°-140° | 27.8   | 0.4       |
| 140°-150° | 13.1   | 0.2       |
| 150°-160° | 4.8    | 0.1       |
| 160°-170° | 0.3    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2325.3 | 30.4      |
| 0°-40°    | 3677.8 | 48.1      |
| 0°-60°    | 5853.9 | 76.6      |
| 0°-90°    | 7171.8 | 93.8      |
| 90°-120°  | 378.9  | 5.0       |
| 90°-150°  | 470.1  | 6.1       |
| 90°-180°  | 475.0  | 6.2       |
| 0°-180°   | 7647.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3022 | 3022 | 3022 | 3022 | 3022 |      |
| 5°   | 3040 | 3010 | 3040 | 2997 | 3040 | 289  |
| 15°  | 2932 | 2937 | 2945 | 2860 | 2932 | 828  |
| 25°  | 2702 | 2653 | 2732 | 2496 | 2702 | 1245 |
| 35°  | 2327 | 2028 | 2372 | 1888 | 2327 | 1452 |
| 45°  | 1792 | 1449 | 1850 | 1366 | 1792 | 1376 |
| 55°  | 1144 | 1019 | 1227 | 967  | 1144 | 1030 |
| 65°  | 593  | 685  | 653  | 635  | 593  | 595  |
| 75°  | 238  | 457  | 268  | 420  | 238  | 256  |
| 85°  | 43   | 329  | 58   | 302  | 43   | 52   |
| 90°  | 0    | 284  | 3    | 259  | 0    | 3    |
| 95°  | 2    | 243  | 0    | 226  | 2    | 1    |
| 105° | 2    | 178  | 0    | 168  | 2    | 2    |
| 115° | 2    | 135  | 0    | 125  | 2    | 2    |
| 125° | 2    | 100  | 2    | 88   | 2    | 2    |
| 135° | 2    | 70   | 2    | 56   | 2    | 1    |
| 145° | 2    | 45   | 2    | 32   | 2    | 1    |
| 155° | 2    | 25   | 2    | 12   | 2    | 1    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3046.6 | 3043.3 | 3039.9 | 3034.9 | 3039.9 | 3053.2 | 3044.9 | 3026.6 | 3023.3 | 2993.4 | 3006.7 |
| 5°     | 3039.9 | 3034.9 | 3031.6 | 3026.6 | 3033.3 | 3049.9 | 3041.6 | 3025.0 | 3020.0 | 2991.7 | 3006.7 |
| 7.5°   | 3023.3 | 3020.0 | 3015.0 | 3015.0 | 3021.6 | 3038.3 | 3031.6 | 3013.3 | 3010.0 | 2981.8 | 2998.4 |
| 10°    | 3000.0 | 2998.4 | 2995.1 | 2995.1 | 3001.7 | 3021.6 | 3013.3 | 2996.7 | 2993.4 | 2966.8 | 2985.1 |
| 12.5°  | 2970.1 | 2971.8 | 2966.8 | 2966.8 | 2976.8 | 2996.7 | 2990.1 | 2971.8 | 2968.5 | 2945.2 | 2963.5 |
| 15°    | 2931.9 | 2933.6 | 2930.2 | 2931.9 | 2941.9 | 2965.1 | 2956.8 | 2940.2 | 2936.9 | 2918.6 | 2933.6 |
| 17.5°  | 2888.7 | 2890.3 | 2890.3 | 2888.7 | 2900.3 | 2923.6 | 2916.9 | 2902.0 | 2897.0 | 2882.0 | 2900.3 |
| 20°    | 2838.8 | 2838.8 | 2838.8 | 2838.8 | 2852.1 | 2875.4 | 2867.1 | 2855.4 | 2845.5 | 2833.8 | 2848.8 |
| 22.5°  | 2777.3 | 2775.7 | 2777.3 | 2782.3 | 2795.6 | 2813.9 | 2808.9 | 2795.6 | 2780.6 | 2774.0 | 2785.6 |
| 25°    | 2702.5 | 2707.5 | 2709.2 | 2714.2 | 2730.8 | 2745.7 | 2740.8 | 2727.5 | 2704.2 | 2699.2 | 2702.5 |
| 27.5°  | 2624.4 | 2627.7 | 2632.7 | 2631.1 | 2654.3 | 2669.3 | 2659.3 | 2647.7 | 2614.4 | 2609.5 | 2606.1 |
| 30°    | 2536.3 | 2541.3 | 2544.6 | 2543.0 | 2561.3 | 2577.9 | 2567.9 | 2552.9 | 2508.1 | 2504.7 | 2478.2 |
| 32.5°  | 2436.6 | 2441.6 | 2444.9 | 2444.9 | 2471.5 | 2478.2 | 2459.9 | 2438.3 | 2390.1 | 2378.4 | 2355.2 |
| 35°    | 2326.9 | 2331.9 | 2333.6 | 2333.6 | 2360.1 | 2358.5 | 2335.2 | 2305.3 | 2252.1 | 2237.2 | 2197.3 |
| 37.5°  | 2208.9 | 2212.2 | 2213.9 | 2223.9 | 2235.5 | 2225.5 | 2195.6 | 2157.4 | 2117.5 | 2075.9 | 2032.7 |
| 40°    | 2075.9 | 2080.9 | 2084.2 | 2090.9 | 2102.5 | 2090.9 | 2047.7 | 2001.1 | 1957.9 | 1911.4 | 1868.2 |
| 42.5°  | 1939.6 | 1954.6 | 1951.3 | 1949.6 | 1956.3 | 1924.7 | 1891.4 | 1838.3 | 1795.0 | 1746.8 | 1703.6 |
| 45°    | 1791.7 | 1790.1 | 1798.4 | 1801.7 | 1800.0 | 1773.4 | 1726.9 | 1678.7 | 1635.5 | 1585.6 | 1549.1 |
| 47.5°  | 1635.5 | 1633.8 | 1640.5 | 1643.8 | 1633.8 | 1605.6 | 1569.0 | 1514.1 | 1477.6 | 1434.4 | 1406.1 |
| 50°    | 1470.9 | 1470.9 | 1480.9 | 1470.9 | 1465.9 | 1437.7 | 1407.8 | 1352.9 | 1324.7 | 1286.4 | 1269.8 |
| 52.5°  | 1306.4 | 1321.3 | 1311.4 | 1308.1 | 1303.1 | 1274.8 | 1251.5 | 1206.7 | 1183.4 | 1166.8 | 1146.8 |
| 55°    | 1143.5 | 1160.1 | 1153.5 | 1148.5 | 1146.8 | 1123.6 | 1102.0 | 1068.7 | 1053.8 | 1042.1 | 1030.5 |
| 57.5°  | 1005.6 | 1003.9 | 1000.6 | 995.6  | 997.2  | 979.0  | 957.4  | 939.1  | 932.4  | 927.4  | 930.8  |
| 60°    | 846.0  | 859.3  | 854.3  | 856.0  | 857.6  | 854.3  | 836.0  | 824.4  | 826.1  | 827.7  | 832.7  |
| 62.5°  | 714.7  | 726.3  | 734.6  | 728.0  | 731.3  | 736.3  | 726.3  | 723.0  | 729.7  | 736.3  | 742.9  |
| 65°    | 593.4  | 605.0  | 613.3  | 611.6  | 621.6  | 631.6  | 629.9  | 633.2  | 648.2  | 656.5  | 664.8  |
| 67.5°  | 483.7  | 495.3  | 506.9  | 508.6  | 523.6  | 538.5  | 545.2  | 556.8  | 573.4  | 585.0  | 595.0  |
| 70°    | 388.9  | 398.9  | 412.2  | 420.5  | 440.4  | 460.4  | 472.0  | 495.3  | 505.3  | 521.9  | 528.5  |
| 72.5°  | 304.2  | 312.5  | 330.8  | 350.7  | 367.3  | 392.2  | 415.5  | 435.5  | 450.4  | 468.7  | 477.0  |
| 75°    | 237.7  | 241.0  | 260.9  | 284.2  | 307.5  | 335.7  | 360.7  | 382.3  | 402.2  | 420.5  | 433.8  |
| 77.5°  | 174.5  | 179.5  | 197.8  | 229.4  | 256.0  | 285.9  | 314.1  | 337.4  | 359.0  | 377.3  | 395.6  |
| 80°    | 121.3  | 131.3  | 151.2  | 182.8  | 212.7  | 246.0  | 272.6  | 299.2  | 322.4  | 340.7  | 359.0  |
| 82.5°  | 78.1   | 86.4   | 114.7  | 146.3  | 177.8  | 211.1  | 239.3  | 265.9  | 290.9  | 310.8  | 327.4  |
| 85°    | 43.2   | 54.8   | 83.1   | 116.3  | 147.9  | 181.2  | 211.1  | 237.7  | 262.6  | 280.9  | 297.5  |
| 87.5°  | 16.6   | 33.2   | 59.8   | 91.4   | 123.0  | 154.6  | 186.2  | 211.1  | 236.0  | 256.0  | 270.9  |
| 90°    | 0.0    | 19.9   | 44.9   | 76.5   | 108.0  | 139.6  | 169.5  | 196.1  | 219.4  | 237.7  | 254.3  |
| 92.5°  | 1.7    | 13.3   | 34.9   | 61.5   | 91.4   | 121.3  | 149.6  | 176.2  | 199.4  | 217.7  | 232.7  |
| 95°    | 1.7    | 10.0   | 28.3   | 53.2   | 79.8   | 108.0  | 134.6  | 159.6  | 181.2  | 199.4  | 214.4  |
| 97.5°  | 1.7    | 6.6    | 23.3   | 46.5   | 69.8   | 98.1   | 123.0  | 146.3  | 166.2  | 184.5  | 196.1  |
| 100°   | 1.7    | 6.6    | 19.9   | 39.9   | 63.2   | 88.1   | 111.4  | 134.6  | 152.9  | 167.9  | 181.2  |
| 102.5° | 1.7    | 5.0    | 16.6   | 34.9   | 56.5   | 78.1   | 101.4  | 123.0  | 139.6  | 154.6  | 167.9  |
| 105°   | 1.7    | 5.0    | 15.0   | 29.9   | 49.9   | 71.5   | 91.4   | 111.4  | 129.6  | 142.9  | 154.6  |
| 107.5° | 1.7    | 3.3    | 13.3   | 24.9   | 43.2   | 64.8   | 84.8   | 101.4  | 118.0  | 131.3  | 142.9  |
| 110°   | 1.7    | 3.3    | 11.6   | 23.3   | 38.2   | 58.2   | 76.5   | 93.1   | 108.0  | 121.3  | 131.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°   | 50°   |
|--------|-----|-----|------|------|------|------|------|------|------|-------|-------|
| 112.5° | 1.7 | 3.3 | 10.0 | 21.6 | 34.9 | 51.5 | 69.8 | 84.8 | 99.7 | 111.4 | 121.3 |
| 115°   | 1.7 | 3.3 | 10.0 | 19.9 | 31.6 | 44.9 | 61.5 | 78.1 | 89.8 | 103.0 | 111.4 |
| 117.5° | 1.7 | 3.3 | 8.3  | 16.6 | 29.9 | 41.6 | 56.5 | 69.8 | 83.1 | 94.7  | 103.0 |
| 120°   | 1.7 | 3.3 | 8.3  | 15.0 | 26.6 | 38.2 | 49.9 | 63.2 | 76.5 | 84.8  | 93.1  |
| 122.5° | 1.7 | 3.3 | 6.6  | 15.0 | 23.3 | 34.9 | 44.9 | 56.5 | 68.1 | 78.1  | 86.4  |
| 125°   | 1.7 | 3.3 | 6.6  | 13.3 | 21.6 | 31.6 | 41.6 | 49.9 | 61.5 | 69.8  | 78.1  |
| 127.5° | 1.7 | 3.3 | 6.6  | 11.6 | 19.9 | 28.3 | 38.2 | 46.5 | 54.8 | 63.2  | 69.8  |
| 130°   | 1.7 | 3.3 | 5.0  | 10.0 | 18.3 | 24.9 | 33.2 | 43.2 | 49.9 | 56.5  | 63.2  |
| 132.5° | 1.7 | 3.3 | 5.0  | 10.0 | 15.0 | 21.6 | 29.9 | 38.2 | 44.9 | 51.5  | 56.5  |
| 135°   | 1.7 | 3.3 | 5.0  | 8.3  | 13.3 | 19.9 | 24.9 | 33.2 | 39.9 | 46.5  | 51.5  |
| 137.5° | 1.7 | 3.3 | 5.0  | 8.3  | 11.6 | 16.6 | 21.6 | 28.3 | 34.9 | 39.9  | 46.5  |
| 140°   | 1.7 | 3.3 | 5.0  | 6.6  | 10.0 | 15.0 | 19.9 | 23.3 | 29.9 | 34.9  | 39.9  |
| 142.5° | 1.7 | 3.3 | 5.0  | 6.6  | 10.0 | 13.3 | 16.6 | 19.9 | 24.9 | 29.9  | 34.9  |
| 145°   | 1.7 | 3.3 | 5.0  | 6.6  | 8.3  | 11.6 | 15.0 | 18.3 | 19.9 | 24.9  | 28.3  |
| 147.5° | 1.7 | 3.3 | 5.0  | 6.6  | 6.6  | 10.0 | 13.3 | 15.0 | 18.3 | 19.9  | 23.3  |
| 150°   | 1.7 | 3.3 | 5.0  | 5.0  | 6.6  | 8.3  | 11.6 | 13.3 | 15.0 | 18.3  | 19.9  |
| 152.5° | 1.7 | 3.3 | 5.0  | 5.0  | 6.6  | 8.3  | 10.0 | 11.6 | 13.3 | 15.0  | 16.6  |
| 155°   | 1.7 | 3.3 | 5.0  | 5.0  | 5.0  | 6.6  | 8.3  | 10.0 | 11.6 | 13.3  | 15.0  |
| 157.5° | 3.3 | 3.3 | 3.3  | 5.0  | 5.0  | 6.6  | 6.6  | 8.3  | 10.0 | 10.0  | 11.6  |
| 160°   | 3.3 | 3.3 | 3.3  | 5.0  | 5.0  | 5.0  | 6.6  | 6.6  | 8.3  | 8.3   | 10.0  |
| 162.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 165°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 167.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 170°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 172.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 175°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 177.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 180°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

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CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3003.4 | 3008.4 | 3023.3 | 3023.3 | 3020.0 | 3016.7 | 3016.7 | 3011.7 | 3015.0 | 3021.6 | 3018.3 |
| 5°     | 3003.4 | 3008.4 | 3023.3 | 3023.3 | 3020.0 | 3016.7 | 3015.0 | 3010.0 | 3015.0 | 3021.6 | 3018.3 |
| 7.5°   | 2993.4 | 3000.0 | 3015.0 | 3015.0 | 3011.7 | 3010.0 | 3006.7 | 3003.4 | 3008.4 | 3015.0 | 3011.7 |
| 10°    | 2980.1 | 2986.7 | 3001.7 | 3001.7 | 2998.4 | 2998.4 | 2993.4 | 2990.1 | 2996.7 | 3001.7 | 3000.0 |
| 12.5°  | 2960.2 | 2968.5 | 2981.8 | 2980.1 | 2976.8 | 2978.4 | 2973.4 | 2966.8 | 2973.4 | 2978.4 | 2980.1 |
| 15°    | 2931.9 | 2941.9 | 2955.2 | 2951.8 | 2946.9 | 2950.2 | 2941.9 | 2936.9 | 2941.9 | 2951.8 | 2950.2 |
| 17.5°  | 2895.3 | 2902.0 | 2912.0 | 2912.0 | 2907.0 | 2903.6 | 2900.3 | 2895.3 | 2898.7 | 2905.3 | 2907.0 |
| 20°    | 2843.8 | 2852.1 | 2857.1 | 2852.1 | 2850.5 | 2845.5 | 2838.8 | 2833.8 | 2840.5 | 2850.5 | 2852.1 |
| 22.5°  | 2775.7 | 2777.3 | 2789.0 | 2777.3 | 2769.0 | 2767.4 | 2760.7 | 2750.7 | 2760.7 | 2769.0 | 2770.7 |
| 25°    | 2690.9 | 2699.2 | 2694.2 | 2674.3 | 2674.3 | 2661.0 | 2657.7 | 2652.7 | 2654.3 | 2669.3 | 2675.9 |
| 27.5°  | 2582.9 | 2586.2 | 2572.9 | 2556.3 | 2541.3 | 2533.0 | 2521.4 | 2523.0 | 2523.0 | 2543.0 | 2549.6 |
| 30°    | 2464.9 | 2446.6 | 2434.9 | 2408.3 | 2396.7 | 2376.8 | 2373.4 | 2373.4 | 2370.1 | 2380.1 | 2410.0 |
| 32.5°  | 2323.6 | 2298.6 | 2280.4 | 2255.4 | 2235.5 | 2215.5 | 2205.6 | 2210.6 | 2208.9 | 2233.8 | 2243.8 |
| 35°    | 2169.0 | 2154.0 | 2115.8 | 2084.2 | 2072.6 | 2042.7 | 2042.7 | 2027.7 | 2037.7 | 2066.0 | 2077.6 |
| 37.5°  | 2006.1 | 1982.9 | 1951.3 | 1916.4 | 1908.1 | 1884.8 | 1876.5 | 1868.2 | 1889.8 | 1894.8 | 1906.4 |
| 40°    | 1839.9 | 1818.3 | 1788.4 | 1755.1 | 1755.1 | 1726.9 | 1726.9 | 1726.9 | 1728.6 | 1738.5 | 1760.1 |
| 42.5°  | 1682.0 | 1658.7 | 1632.2 | 1608.9 | 1605.6 | 1584.0 | 1584.0 | 1582.3 | 1585.6 | 1593.9 | 1613.9 |
| 45°    | 1529.1 | 1510.8 | 1482.6 | 1470.9 | 1472.6 | 1449.3 | 1454.3 | 1449.3 | 1456.0 | 1464.3 | 1470.9 |
| 47.5°  | 1387.8 | 1376.2 | 1364.6 | 1347.9 | 1343.0 | 1341.3 | 1333.0 | 1326.3 | 1338.0 | 1338.0 | 1347.9 |
| 50°    | 1256.5 | 1249.9 | 1243.2 | 1233.3 | 1234.9 | 1228.3 | 1218.3 | 1218.3 | 1226.6 | 1228.3 | 1234.9 |
| 52.5°  | 1141.8 | 1133.5 | 1125.2 | 1126.9 | 1128.5 | 1125.2 | 1120.2 | 1115.3 | 1120.2 | 1123.6 | 1131.9 |
| 55°    | 1027.2 | 1020.5 | 1028.8 | 1025.5 | 1028.8 | 1025.5 | 1022.2 | 1018.9 | 1027.2 | 1022.2 | 1030.5 |
| 57.5°  | 924.1  | 930.8  | 934.1  | 927.4  | 932.4  | 929.1  | 930.8  | 925.8  | 932.4  | 935.7  | 934.1  |
| 60°    | 829.4  | 839.3  | 834.4  | 836.0  | 842.7  | 839.3  | 832.7  | 837.7  | 844.3  | 846.0  | 844.3  |
| 62.5°  | 742.9  | 754.6  | 759.6  | 756.2  | 757.9  | 754.6  | 759.6  | 752.9  | 761.2  | 764.6  | 759.6  |
| 65°    | 664.8  | 678.1  | 681.5  | 681.5  | 681.5  | 678.1  | 683.1  | 684.8  | 688.1  | 688.1  | 684.8  |
| 67.5°  | 598.3  | 610.0  | 613.3  | 616.6  | 613.3  | 610.0  | 610.0  | 611.6  | 618.3  | 621.6  | 618.3  |
| 70°    | 538.5  | 550.1  | 551.8  | 551.8  | 553.5  | 556.8  | 550.1  | 553.5  | 558.5  | 560.1  | 558.5  |
| 72.5°  | 487.0  | 498.6  | 501.9  | 500.3  | 501.9  | 503.6  | 503.6  | 500.3  | 505.3  | 508.6  | 508.6  |
| 75°    | 445.4  | 452.1  | 455.4  | 455.4  | 457.1  | 458.7  | 458.7  | 457.1  | 460.4  | 462.1  | 463.7  |
| 77.5°  | 407.2  | 412.2  | 417.2  | 417.2  | 418.8  | 417.2  | 420.5  | 420.5  | 422.2  | 423.8  | 425.5  |
| 80°    | 369.0  | 375.6  | 379.0  | 380.6  | 383.9  | 385.6  | 385.6  | 385.6  | 387.3  | 388.9  | 388.9  |
| 82.5°  | 339.1  | 344.0  | 349.0  | 354.0  | 354.0  | 355.7  | 355.7  | 355.7  | 357.3  | 357.3  | 359.0  |
| 85°    | 309.1  | 315.8  | 320.8  | 324.1  | 325.8  | 327.4  | 327.4  | 329.1  | 329.1  | 329.1  | 330.8  |
| 87.5°  | 282.6  | 290.9  | 294.2  | 297.5  | 299.2  | 302.5  | 302.5  | 302.5  | 304.2  | 304.2  | 304.2  |
| 90°    | 264.3  | 272.6  | 275.9  | 279.2  | 280.9  | 282.6  | 282.6  | 284.2  | 284.2  | 285.9  | 285.9  |
| 92.5°  | 242.7  | 251.0  | 257.6  | 257.6  | 259.3  | 262.6  | 260.9  | 260.9  | 262.6  | 264.3  | 264.3  |
| 95°    | 226.0  | 232.7  | 237.7  | 239.3  | 241.0  | 241.0  | 241.0  | 242.7  | 241.0  | 242.7  | 242.7  |
| 97.5°  | 206.1  | 212.7  | 217.7  | 221.1  | 222.7  | 222.7  | 222.7  | 224.4  | 222.7  | 224.4  | 224.4  |
| 100°   | 189.5  | 196.1  | 201.1  | 202.8  | 206.1  | 206.1  | 206.1  | 206.1  | 206.1  | 206.1  | 207.8  |
| 102.5° | 176.2  | 182.8  | 186.2  | 187.8  | 189.5  | 191.1  | 191.1  | 191.1  | 191.1  | 192.8  | 192.8  |
| 105°   | 162.9  | 169.5  | 172.9  | 174.5  | 176.2  | 177.8  | 177.8  | 177.8  | 179.5  | 179.5  | 177.8  |
| 107.5° | 151.2  | 156.2  | 159.6  | 162.9  | 164.5  | 164.5  | 166.2  | 166.2  | 166.2  | 166.2  | 166.2  |
| 110°   | 139.6  | 144.6  | 149.6  | 152.9  | 152.9  | 154.6  | 154.6  | 156.2  | 156.2  | 154.6  | 156.2  |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 128.0 | 134.6 | 138.0 | 141.3 | 142.9 | 144.6 | 144.6 | 144.6 | 144.6 | 144.6 | 144.6 |
| 115°   | 118.0 | 124.7 | 128.0 | 131.3 | 133.0 | 134.6 | 134.6 | 134.6 | 134.6 | 134.6 | 134.6 |
| 117.5° | 109.7 | 116.3 | 119.7 | 121.3 | 123.0 | 124.7 | 126.3 | 126.3 | 126.3 | 126.3 | 124.7 |
| 120°   | 101.4 | 106.4 | 109.7 | 113.0 | 114.7 | 116.3 | 116.3 | 116.3 | 116.3 | 116.3 | 116.3 |
| 122.5° | 93.1  | 98.1  | 101.4 | 104.7 | 106.4 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 |
| 125°   | 84.8  | 89.8  | 93.1  | 96.4  | 98.1  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| 127.5° | 76.5  | 81.4  | 86.4  | 88.1  | 89.8  | 91.4  | 91.4  | 91.4  | 93.1  | 91.4  | 91.4  |
| 130°   | 68.1  | 73.1  | 78.1  | 79.8  | 81.4  | 83.1  | 84.8  | 84.8  | 84.8  | 84.8  | 83.1  |
| 132.5° | 61.5  | 66.5  | 69.8  | 71.5  | 74.8  | 74.8  | 76.5  | 76.5  | 76.5  | 76.5  | 74.8  |
| 135°   | 56.5  | 59.8  | 63.2  | 64.8  | 68.1  | 68.1  | 68.1  | 69.8  | 69.8  | 68.1  | 66.5  |
| 137.5° | 49.9  | 53.2  | 56.5  | 58.2  | 59.8  | 61.5  | 61.5  | 63.2  | 61.5  | 61.5  | 61.5  |
| 140°   | 46.5  | 48.2  | 51.5  | 53.2  | 54.8  | 54.8  | 54.8  | 56.5  | 56.5  | 54.8  | 54.8  |
| 142.5° | 39.9  | 43.2  | 46.5  | 48.2  | 49.9  | 49.9  | 49.9  | 49.9  | 49.9  | 49.9  | 49.9  |
| 145°   | 33.2  | 38.2  | 39.9  | 43.2  | 43.2  | 44.9  | 44.9  | 44.9  | 44.9  | 44.9  | 43.2  |
| 147.5° | 28.3  | 31.6  | 36.6  | 38.2  | 38.2  | 39.9  | 39.9  | 39.9  | 39.9  | 39.9  | 38.2  |
| 150°   | 21.6  | 24.9  | 29.9  | 33.2  | 33.2  | 34.9  | 34.9  | 34.9  | 34.9  | 33.2  | 33.2  |
| 152.5° | 18.3  | 21.6  | 23.3  | 26.6  | 28.3  | 28.3  | 28.3  | 29.9  | 28.3  | 28.3  | 28.3  |
| 155°   | 16.6  | 18.3  | 19.9  | 21.6  | 23.3  | 24.9  | 24.9  | 24.9  | 24.9  | 23.3  | 23.3  |
| 157.5° | 13.3  | 15.0  | 16.6  | 18.3  | 19.9  | 21.6  | 21.6  | 21.6  | 21.6  | 21.6  | 19.9  |
| 160°   | 10.0  | 11.6  | 13.3  | 13.3  | 15.0  | 16.6  | 18.3  | 16.6  | 16.6  | 16.6  | 16.6  |
| 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: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3015.0 | 3013.3 | 3018.3 | 3010.0 | 2985.1 | 2991.7 | 2988.4 | 3003.4 | 3006.7 | 3010.0 | 3025.0 |
| 5°     | 3015.0 | 3013.3 | 3016.7 | 3010.0 | 2983.4 | 2988.4 | 2985.1 | 3000.0 | 3003.4 | 3005.0 | 3020.0 |
| 7.5°   | 3008.4 | 3006.7 | 3011.7 | 3003.4 | 2975.1 | 2981.8 | 2976.8 | 2991.7 | 2993.4 | 2995.1 | 3008.4 |
| 10°    | 2995.1 | 2993.4 | 2996.7 | 2990.1 | 2961.8 | 2968.5 | 2961.8 | 2976.8 | 2976.8 | 2980.1 | 2990.1 |
| 12.5°  | 2975.1 | 2971.8 | 2978.4 | 2970.1 | 2938.5 | 2946.9 | 2943.5 | 2953.5 | 2955.2 | 2956.8 | 2966.8 |
| 15°    | 2946.9 | 2943.5 | 2948.5 | 2943.5 | 2915.3 | 2916.9 | 2912.0 | 2926.9 | 2928.6 | 2925.2 | 2935.2 |
| 17.5°  | 2905.3 | 2902.0 | 2912.0 | 2908.6 | 2880.4 | 2887.0 | 2885.4 | 2888.7 | 2893.7 | 2885.4 | 2898.7 |
| 20°    | 2853.8 | 2857.1 | 2860.4 | 2862.1 | 2840.5 | 2840.5 | 2838.8 | 2845.5 | 2850.5 | 2843.8 | 2853.8 |
| 22.5°  | 2777.3 | 2785.6 | 2795.6 | 2798.9 | 2784.0 | 2782.3 | 2792.3 | 2789.0 | 2793.9 | 2790.6 | 2797.3 |
| 25°    | 2680.9 | 2697.5 | 2707.5 | 2717.5 | 2709.2 | 2712.5 | 2727.5 | 2730.8 | 2730.8 | 2729.1 | 2735.8 |
| 27.5°  | 2561.3 | 2582.9 | 2601.1 | 2622.8 | 2614.4 | 2621.1 | 2646.0 | 2649.3 | 2656.0 | 2649.3 | 2662.6 |
| 30°    | 2418.3 | 2438.3 | 2473.2 | 2504.7 | 2508.1 | 2518.0 | 2552.9 | 2556.3 | 2574.6 | 2567.9 | 2572.9 |
| 32.5°  | 2275.4 | 2285.4 | 2325.2 | 2356.8 | 2376.8 | 2401.7 | 2439.9 | 2446.6 | 2471.5 | 2476.5 | 2476.5 |
| 35°    | 2095.9 | 2124.1 | 2160.7 | 2205.6 | 2230.5 | 2257.1 | 2308.6 | 2318.6 | 2355.2 | 2366.8 | 2380.1 |
| 37.5°  | 1944.6 | 1971.2 | 1994.5 | 2041.0 | 2085.9 | 2115.8 | 2157.4 | 2182.3 | 2220.5 | 2242.1 | 2258.8 |
| 40°    | 1783.4 | 1805.0 | 1829.9 | 1876.5 | 1914.7 | 1959.6 | 2001.1 | 2031.1 | 2079.3 | 2104.2 | 2125.8 |
| 42.5°  | 1630.5 | 1647.1 | 1673.7 | 1706.9 | 1746.8 | 1796.7 | 1836.6 | 1871.5 | 1923.0 | 1957.9 | 1982.9 |
| 45°    | 1494.2 | 1504.2 | 1527.4 | 1552.4 | 1587.3 | 1638.8 | 1677.0 | 1721.9 | 1763.5 | 1800.0 | 1829.9 |
| 47.5°  | 1366.2 | 1379.5 | 1391.2 | 1407.8 | 1439.4 | 1470.9 | 1515.8 | 1559.0 | 1600.6 | 1640.5 | 1670.4 |
| 50°    | 1248.2 | 1248.2 | 1266.5 | 1278.1 | 1299.7 | 1328.0 | 1362.9 | 1392.8 | 1444.3 | 1472.6 | 1510.8 |
| 52.5°  | 1133.5 | 1140.2 | 1150.2 | 1156.8 | 1173.4 | 1191.7 | 1220.0 | 1244.9 | 1288.1 | 1314.7 | 1351.3 |
| 55°    | 1032.1 | 1038.8 | 1043.8 | 1047.1 | 1057.1 | 1078.7 | 1088.7 | 1108.6 | 1138.5 | 1160.1 | 1191.7 |
| 57.5°  | 935.7  | 939.1  | 944.1  | 945.7  | 947.4  | 960.7  | 969.0  | 974.0  | 1003.9 | 1025.5 | 1052.1 |
| 60°    | 847.7  | 847.7  | 852.6  | 851.0  | 849.3  | 856.0  | 854.3  | 859.3  | 877.6  | 890.9  | 902.5  |
| 62.5°  | 764.6  | 764.6  | 766.2  | 762.9  | 761.2  | 761.2  | 754.6  | 759.6  | 764.6  | 766.2  | 774.5  |
| 65°    | 688.1  | 696.4  | 689.8  | 691.4  | 681.5  | 678.1  | 674.8  | 664.8  | 663.2  | 656.5  | 659.8  |
| 67.5°  | 620.0  | 626.6  | 620.0  | 620.0  | 611.6  | 605.0  | 596.7  | 580.1  | 575.1  | 561.8  | 558.5  |
| 70°    | 565.1  | 560.1  | 563.4  | 558.5  | 548.5  | 540.2  | 528.5  | 515.2  | 498.6  | 482.0  | 470.4  |
| 72.5°  | 511.9  | 511.9  | 508.6  | 503.6  | 498.6  | 482.0  | 468.7  | 453.7  | 433.8  | 412.2  | 395.6  |
| 75°    | 460.4  | 462.1  | 462.1  | 457.1  | 448.8  | 433.8  | 418.8  | 397.2  | 375.6  | 350.7  | 329.1  |
| 77.5°  | 423.8  | 423.8  | 423.8  | 415.5  | 407.2  | 393.9  | 375.6  | 352.4  | 329.1  | 299.2  | 274.2  |
| 80°    | 388.9  | 387.3  | 387.3  | 377.3  | 369.0  | 354.0  | 335.7  | 312.5  | 287.5  | 256.0  | 227.7  |
| 82.5°  | 360.7  | 359.0  | 355.7  | 347.4  | 335.7  | 320.8  | 302.5  | 277.6  | 251.0  | 222.7  | 187.8  |
| 85°    | 330.8  | 329.1  | 325.8  | 317.5  | 305.8  | 292.5  | 272.6  | 247.6  | 221.1  | 189.5  | 156.2  |
| 87.5°  | 304.2  | 302.5  | 297.5  | 292.5  | 279.2  | 264.3  | 244.3  | 221.1  | 192.8  | 162.9  | 129.6  |
| 90°    | 285.9  | 282.6  | 279.2  | 272.6  | 260.9  | 244.3  | 224.4  | 199.4  | 171.2  | 141.3  | 108.0  |
| 92.5°  | 264.3  | 262.6  | 257.6  | 251.0  | 241.0  | 224.4  | 204.4  | 181.2  | 152.9  | 124.7  | 93.1   |
| 95°    | 242.7  | 241.0  | 237.7  | 231.0  | 221.1  | 206.1  | 187.8  | 164.5  | 138.0  | 109.7  | 81.4   |
| 97.5°  | 222.7  | 222.7  | 217.7  | 212.7  | 201.1  | 189.5  | 171.2  | 149.6  | 124.7  | 99.7   | 73.1   |
| 100°   | 206.1  | 206.1  | 201.1  | 194.5  | 186.2  | 174.5  | 156.2  | 136.3  | 113.0  | 89.8   | 63.2   |
| 102.5° | 191.1  | 189.5  | 186.2  | 179.5  | 171.2  | 159.6  | 142.9  | 124.7  | 103.0  | 79.8   | 56.5   |
| 105°   | 177.8  | 176.2  | 172.9  | 166.2  | 159.6  | 146.3  | 133.0  | 114.7  | 93.1   | 71.5   | 49.9   |
| 107.5° | 164.5  | 162.9  | 161.2  | 154.6  | 146.3  | 134.6  | 121.3  | 103.0  | 84.8   | 64.8   | 44.9   |
| 110°   | 152.9  | 151.2  | 147.9  | 141.3  | 133.0  | 123.0  | 109.7  | 94.7   | 76.5   | 58.2   | 39.9   |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 112.5° | 142.9 | 141.3 | 138.0 | 131.3 | 124.7 | 113.0 | 101.4 | 84.8 | 69.8 | 53.2 | 34.9 |
| 115°   | 133.0 | 131.3 | 128.0 | 121.3 | 113.0 | 103.0 | 91.4  | 78.1 | 61.5 | 46.5 | 31.6 |
| 117.5° | 123.0 | 121.3 | 118.0 | 113.0 | 104.7 | 94.7  | 83.1  | 69.8 | 54.8 | 43.2 | 28.3 |
| 120°   | 114.7 | 111.4 | 108.0 | 103.0 | 94.7  | 86.4  | 74.8  | 63.2 | 49.9 | 38.2 | 24.9 |
| 122.5° | 106.4 | 103.0 | 99.7  | 94.7  | 86.4  | 78.1  | 66.5  | 56.5 | 46.5 | 34.9 | 23.3 |
| 125°   | 96.4  | 94.7  | 91.4  | 86.4  | 78.1  | 69.8  | 61.5  | 51.5 | 41.6 | 31.6 | 19.9 |
| 127.5° | 88.1  | 86.4  | 83.1  | 76.5  | 69.8  | 63.2  | 54.8  | 46.5 | 36.6 | 26.6 | 18.3 |
| 130°   | 81.4  | 78.1  | 74.8  | 69.8  | 64.8  | 58.2  | 49.9  | 41.6 | 33.2 | 23.3 | 16.6 |
| 132.5° | 73.1  | 69.8  | 66.5  | 63.2  | 58.2  | 51.5  | 44.9  | 36.6 | 29.9 | 21.6 | 15.0 |
| 135°   | 66.5  | 63.2  | 59.8  | 56.5  | 51.5  | 46.5  | 39.9  | 33.2 | 26.6 | 19.9 | 13.3 |
| 137.5° | 58.2  | 56.5  | 54.8  | 51.5  | 46.5  | 41.6  | 36.6  | 28.3 | 23.3 | 18.3 | 11.6 |
| 140°   | 53.2  | 51.5  | 49.9  | 44.9  | 41.6  | 36.6  | 31.6  | 24.9 | 19.9 | 15.0 | 10.0 |
| 142.5° | 48.2  | 46.5  | 43.2  | 39.9  | 36.6  | 33.2  | 26.6  | 23.3 | 18.3 | 13.3 | 10.0 |
| 145°   | 41.6  | 39.9  | 38.2  | 34.9  | 31.6  | 26.6  | 23.3  | 19.9 | 16.6 | 11.6 | 8.3  |
| 147.5° | 38.2  | 36.6  | 33.2  | 29.9  | 26.6  | 23.3  | 21.6  | 18.3 | 13.3 | 10.0 | 6.6  |
| 150°   | 31.6  | 29.9  | 28.3  | 24.9  | 23.3  | 21.6  | 18.3  | 15.0 | 11.6 | 8.3  | 6.6  |
| 152.5° | 26.6  | 24.9  | 23.3  | 23.3  | 19.9  | 18.3  | 15.0  | 13.3 | 10.0 | 8.3  | 5.0  |
| 155°   | 23.3  | 23.3  | 21.6  | 19.9  | 16.6  | 15.0  | 13.3  | 10.0 | 8.3  | 6.6  | 5.0  |
| 157.5° | 19.9  | 18.3  | 16.6  | 16.6  | 15.0  | 13.3  | 10.0  | 8.3  | 6.6  | 6.6  | 5.0  |
| 160°   | 16.6  | 15.0  | 15.0  | 13.3  | 11.6  | 10.0  | 8.3   | 8.3  | 6.6  | 5.0  | 5.0  |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3026.6 | 3008.4 | 3025.0 | 3046.6 | 3046.6 | 3043.3 | 3039.9 | 3046.6 | 3063.2 | 3056.6 | 3036.6 |
| 5°     | 3021.6 | 3003.4 | 3018.3 | 3039.9 | 3039.9 | 3034.9 | 3031.6 | 3036.6 | 3054.9 | 3046.6 | 3028.3 |
| 7.5°   | 3011.7 | 2995.1 | 3005.0 | 3025.0 | 3025.0 | 3020.0 | 3016.7 | 3023.3 | 3038.3 | 3030.0 | 3010.0 |
| 10°    | 2993.4 | 2975.1 | 2986.7 | 3005.0 | 3003.4 | 3000.0 | 2995.1 | 3003.4 | 3016.7 | 3005.0 | 2981.8 |
| 12.5°  | 2970.1 | 2951.8 | 2961.8 | 2978.4 | 2976.8 | 2970.1 | 2966.8 | 2971.8 | 2983.4 | 2976.8 | 2951.8 |
| 15°    | 2938.5 | 2920.3 | 2928.6 | 2945.2 | 2940.2 | 2935.2 | 2928.6 | 2930.2 | 2945.2 | 2933.6 | 2907.0 |
| 17.5°  | 2900.3 | 2880.4 | 2887.0 | 2902.0 | 2897.0 | 2892.0 | 2883.7 | 2885.4 | 2902.0 | 2885.4 | 2857.1 |
| 20°    | 2853.8 | 2832.2 | 2837.2 | 2855.4 | 2847.1 | 2838.8 | 2830.5 | 2830.5 | 2847.1 | 2828.8 | 2797.3 |
| 22.5°  | 2803.9 | 2782.3 | 2785.6 | 2798.9 | 2792.3 | 2777.3 | 2769.0 | 2774.0 | 2782.3 | 2759.0 | 2725.8 |
| 25°    | 2742.4 | 2714.2 | 2719.2 | 2732.4 | 2727.5 | 2707.5 | 2699.2 | 2702.5 | 2699.2 | 2680.9 | 2646.0 |
| 27.5°  | 2671.0 | 2641.0 | 2644.4 | 2652.7 | 2646.0 | 2627.7 | 2617.8 | 2619.4 | 2612.8 | 2589.5 | 2549.6 |
| 30°    | 2581.2 | 2566.2 | 2564.6 | 2569.6 | 2559.6 | 2541.3 | 2529.7 | 2526.4 | 2524.7 | 2491.4 | 2443.2 |
| 32.5°  | 2489.8 | 2476.5 | 2468.2 | 2474.8 | 2463.2 | 2444.9 | 2425.0 | 2425.0 | 2408.3 | 2376.8 | 2335.2 |
| 35°    | 2396.7 | 2375.1 | 2366.8 | 2371.8 | 2358.5 | 2335.2 | 2318.6 | 2310.3 | 2285.4 | 2245.5 | 2200.6 |
| 37.5°  | 2277.0 | 2262.1 | 2252.1 | 2257.1 | 2242.1 | 2225.5 | 2193.9 | 2185.6 | 2159.0 | 2104.2 | 2047.7 |
| 40°    | 2147.4 | 2135.8 | 2125.8 | 2130.8 | 2114.2 | 2089.2 | 2061.0 | 2047.7 | 2017.8 | 1956.3 | 1911.4 |
| 42.5°  | 2007.8 | 2002.8 | 1991.2 | 2009.4 | 1976.2 | 1951.3 | 1923.0 | 1901.4 | 1871.5 | 1805.0 | 1753.5 |
| 45°    | 1859.9 | 1871.5 | 1844.9 | 1849.9 | 1828.3 | 1806.7 | 1776.8 | 1745.2 | 1715.3 | 1652.1 | 1593.9 |
| 47.5°  | 1703.6 | 1711.9 | 1693.7 | 1697.0 | 1673.7 | 1653.8 | 1627.2 | 1587.3 | 1554.0 | 1499.2 | 1447.7 |
| 50°    | 1542.4 | 1539.1 | 1539.1 | 1535.8 | 1517.5 | 1492.5 | 1465.9 | 1429.4 | 1396.1 | 1346.3 | 1303.1 |
| 52.5°  | 1371.2 | 1377.9 | 1381.2 | 1389.5 | 1366.2 | 1351.3 | 1309.7 | 1278.1 | 1253.2 | 1201.7 | 1165.1 |
| 55°    | 1206.7 | 1229.9 | 1223.3 | 1226.6 | 1200.0 | 1188.4 | 1155.1 | 1130.2 | 1093.6 | 1063.7 | 1040.5 |
| 57.5°  | 1057.1 | 1062.1 | 1065.4 | 1070.4 | 1058.7 | 1035.5 | 1008.9 | 988.9  | 960.7  | 935.7  | 919.1  |
| 60°    | 912.5  | 912.5  | 914.1  | 922.5  | 910.8  | 890.9  | 870.9  | 856.0  | 836.0  | 821.1  | 811.1  |
| 62.5°  | 776.2  | 787.8  | 789.5  | 782.8  | 767.9  | 757.9  | 744.6  | 736.3  | 723.0  | 718.0  | 714.7  |
| 65°    | 649.9  | 649.9  | 649.9  | 653.2  | 644.9  | 638.2  | 629.9  | 628.3  | 633.2  | 626.6  | 629.9  |
| 67.5°  | 543.5  | 538.5  | 535.2  | 536.8  | 533.5  | 530.2  | 528.5  | 533.5  | 543.5  | 543.5  | 551.8  |
| 70°    | 452.1  | 442.1  | 435.5  | 435.5  | 435.5  | 437.1  | 442.1  | 452.1  | 468.7  | 475.4  | 487.0  |
| 72.5°  | 377.3  | 355.7  | 345.7  | 345.7  | 347.4  | 354.0  | 369.0  | 387.3  | 402.2  | 415.5  | 430.5  |
| 75°    | 305.8  | 284.2  | 269.3  | 267.6  | 270.9  | 280.9  | 302.5  | 319.1  | 344.0  | 362.3  | 380.6  |
| 77.5°  | 247.6  | 221.1  | 202.8  | 201.1  | 206.1  | 221.1  | 247.6  | 269.3  | 297.5  | 317.5  | 337.4  |
| 80°    | 197.8  | 167.9  | 152.9  | 142.9  | 151.2  | 169.5  | 199.4  | 226.0  | 252.6  | 279.2  | 304.2  |
| 82.5°  | 157.9  | 129.6  | 106.4  | 96.4   | 106.4  | 131.3  | 159.6  | 191.1  | 217.7  | 246.0  | 270.9  |
| 85°    | 124.7  | 94.7   | 68.1   | 58.2   | 69.8   | 96.4   | 128.0  | 159.6  | 189.5  | 217.7  | 242.7  |
| 87.5°  | 98.1   | 68.1   | 41.6   | 28.3   | 43.2   | 71.5   | 101.4  | 133.0  | 164.5  | 192.8  | 217.7  |
| 90°    | 76.5   | 48.2   | 23.3   | 3.3    | 24.9   | 51.5   | 81.4   | 111.4  | 142.9  | 171.2  | 196.1  |
| 92.5°  | 64.8   | 36.6   | 13.3   | 0.0    | 15.0   | 38.2   | 66.5   | 96.4   | 124.7  | 152.9  | 177.8  |
| 95°    | 54.8   | 29.9   | 10.0   | 0.0    | 10.0   | 29.9   | 54.8   | 81.4   | 109.7  | 138.0  | 162.9  |
| 97.5°  | 46.5   | 23.3   | 6.6    | 0.0    | 6.6    | 23.3   | 44.9   | 71.5   | 96.4   | 123.0  | 146.3  |
| 100°   | 39.9   | 19.9   | 5.0    | 0.0    | 5.0    | 18.3   | 38.2   | 61.5   | 86.4   | 111.4  | 133.0  |
| 102.5° | 34.9   | 16.6   | 3.3    | 0.0    | 3.3    | 15.0   | 31.6   | 53.2   | 74.8   | 98.1   | 119.7  |
| 105°   | 29.9   | 13.3   | 3.3    | 0.0    | 1.7    | 11.6   | 26.6   | 46.5   | 66.5   | 88.1   | 108.0  |
| 107.5° | 26.6   | 11.6   | 3.3    | 0.0    | 1.7    | 10.0   | 23.3   | 39.9   | 59.8   | 78.1   | 96.4   |
| 110°   | 23.3   | 10.0   | 3.3    | 0.0    | 1.7    | 6.6    | 19.9   | 34.9   | 51.5   | 69.8   | 88.1   |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 19.9 | 8.3  | 1.7  | 0.0  | 0.0  | 5.0  | 16.6 | 29.9 | 44.9 | 63.2 | 78.1 |
| 115°   | 18.3 | 8.3  | 1.7  | 0.0  | 0.0  | 3.3  | 13.3 | 26.6 | 39.9 | 56.5 | 69.8 |
| 117.5° | 16.6 | 6.6  | 1.7  | 0.0  | 1.7  | 3.3  | 11.6 | 23.3 | 34.9 | 48.2 | 63.2 |
| 120°   | 15.0 | 6.6  | 1.7  | 0.0  | 1.7  | 1.7  | 8.3  | 19.9 | 29.9 | 43.2 | 54.8 |
| 122.5° | 13.3 | 6.6  | 1.7  | 0.0  | 1.7  | 1.7  | 6.6  | 16.6 | 26.6 | 38.2 | 48.2 |
| 125°   | 11.6 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 5.0  | 13.3 | 23.3 | 31.6 | 43.2 |
| 127.5° | 11.6 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 3.3  | 11.6 | 18.3 | 28.3 | 38.2 |
| 130°   | 10.0 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 8.3  | 16.6 | 23.3 | 31.6 |
| 132.5° | 8.3  | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 5.0  | 11.6 | 19.9 | 26.6 |
| 135°   | 8.3  | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 8.3  | 15.0 | 21.6 |
| 137.5° | 6.6  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 6.6  | 11.6 | 16.6 |
| 140°   | 6.6  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 5.0  | 8.3  | 13.3 |
| 142.5° | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 6.6  | 10.0 |
| 145°   | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 6.6  |
| 147.5° | 5.0  | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 5.0  |
| 150°   | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  |
| 152.5° | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  |
| 155°   | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 3.3  |
| 157.5° | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  |
| 160°   | 5.0  | 3.3  | 3.3  | 1.7  | 3.3  | 1.7  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 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: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3030.0 | 2998.4 | 3015.0 | 3010.0 | 3016.7 | 3030.0 | 3028.3 | 3025.0 | 3025.0 | 3020.0 | 3013.3 |
| 5°     | 3020.0 | 2990.1 | 3005.0 | 2996.7 | 3005.0 | 3016.7 | 3015.0 | 3010.0 | 3013.3 | 3005.0 | 2996.7 |
| 7.5°   | 3000.0 | 2973.4 | 2986.7 | 2980.1 | 2986.7 | 2998.4 | 2993.4 | 2991.7 | 2995.1 | 2981.8 | 2976.8 |
| 10°    | 2976.8 | 2946.9 | 2961.8 | 2953.5 | 2961.8 | 2970.1 | 2966.8 | 2960.2 | 2966.8 | 2953.5 | 2948.5 |
| 12.5°  | 2940.2 | 2915.3 | 2925.2 | 2921.9 | 2926.9 | 2935.2 | 2928.6 | 2923.6 | 2926.9 | 2915.3 | 2905.3 |
| 15°    | 2900.3 | 2875.4 | 2883.7 | 2878.7 | 2882.0 | 2892.0 | 2880.4 | 2878.7 | 2875.4 | 2863.8 | 2860.4 |
| 17.5°  | 2848.8 | 2825.5 | 2833.8 | 2825.5 | 2830.5 | 2827.2 | 2825.5 | 2817.2 | 2817.2 | 2803.9 | 2793.9 |
| 20°    | 2785.6 | 2765.7 | 2760.7 | 2754.1 | 2760.7 | 2754.1 | 2744.1 | 2737.4 | 2735.8 | 2722.5 | 2714.2 |
| 22.5°  | 2712.5 | 2689.2 | 2692.6 | 2674.3 | 2675.9 | 2666.0 | 2649.3 | 2642.7 | 2636.0 | 2621.1 | 2609.5 |
| 25°    | 2624.4 | 2601.1 | 2584.5 | 2572.9 | 2557.9 | 2556.3 | 2534.7 | 2518.0 | 2516.4 | 2498.1 | 2496.4 |
| 27.5°  | 2524.7 | 2498.1 | 2484.8 | 2456.5 | 2438.3 | 2423.3 | 2405.0 | 2388.4 | 2380.1 | 2360.1 | 2346.8 |
| 30°    | 2410.0 | 2380.1 | 2346.8 | 2326.9 | 2298.6 | 2287.0 | 2255.4 | 2235.5 | 2228.8 | 2207.2 | 2197.3 |
| 32.5°  | 2280.4 | 2248.8 | 2222.2 | 2184.0 | 2152.4 | 2135.8 | 2104.2 | 2084.2 | 2075.9 | 2052.7 | 2039.4 |
| 35°    | 2139.1 | 2104.2 | 2072.6 | 2036.0 | 2011.1 | 1982.9 | 1944.6 | 1924.7 | 1906.4 | 1898.1 | 1888.1 |
| 37.5°  | 1991.2 | 1952.9 | 1916.4 | 1879.8 | 1858.2 | 1825.0 | 1791.7 | 1778.4 | 1756.8 | 1748.5 | 1738.5 |
| 40°    | 1838.3 | 1800.0 | 1765.1 | 1730.2 | 1705.3 | 1675.4 | 1645.5 | 1640.5 | 1617.2 | 1608.9 | 1602.2 |
| 42.5°  | 1687.0 | 1647.1 | 1607.2 | 1582.3 | 1564.0 | 1534.1 | 1514.1 | 1509.2 | 1489.2 | 1484.2 | 1484.2 |
| 45°    | 1550.7 | 1500.9 | 1467.6 | 1446.0 | 1431.0 | 1406.1 | 1389.5 | 1386.2 | 1369.5 | 1366.2 | 1366.2 |
| 47.5°  | 1404.5 | 1357.9 | 1333.0 | 1319.7 | 1306.4 | 1288.1 | 1278.1 | 1278.1 | 1261.5 | 1258.2 | 1256.5 |
| 50°    | 1268.2 | 1224.9 | 1206.7 | 1193.4 | 1191.7 | 1178.4 | 1170.1 | 1166.8 | 1166.8 | 1155.1 | 1156.8 |
| 52.5°  | 1138.5 | 1116.9 | 1102.0 | 1093.6 | 1083.7 | 1075.4 | 1068.7 | 1068.7 | 1063.7 | 1055.4 | 1058.7 |
| 55°    | 1018.9 | 993.9  | 995.6  | 988.9  | 983.9  | 979.0  | 980.6  | 970.7  | 969.0  | 962.3  | 967.3  |
| 57.5°  | 899.2  | 899.2  | 895.9  | 890.9  | 882.6  | 885.9  | 885.9  | 885.9  | 877.6  | 872.6  | 877.6  |
| 60°    | 797.8  | 802.8  | 794.5  | 799.5  | 796.1  | 797.8  | 794.5  | 794.5  | 789.5  | 787.8  | 789.5  |
| 62.5°  | 708.0  | 716.4  | 713.0  | 719.7  | 716.4  | 718.0  | 721.3  | 714.7  | 711.4  | 708.0  | 711.4  |
| 65°    | 628.3  | 638.2  | 636.6  | 641.6  | 643.2  | 644.9  | 646.5  | 643.2  | 639.9  | 636.6  | 634.9  |
| 67.5°  | 558.5  | 568.4  | 575.1  | 576.7  | 578.4  | 583.4  | 581.7  | 578.4  | 575.1  | 570.1  | 568.4  |
| 70°    | 495.3  | 508.6  | 516.9  | 520.2  | 526.9  | 523.6  | 523.6  | 521.9  | 518.6  | 513.6  | 511.9  |
| 72.5°  | 442.1  | 457.1  | 465.4  | 468.7  | 475.4  | 475.4  | 473.7  | 472.0  | 468.7  | 463.7  | 462.1  |
| 75°    | 395.6  | 408.9  | 420.5  | 427.2  | 432.1  | 432.1  | 430.5  | 428.8  | 425.5  | 422.2  | 420.5  |
| 77.5°  | 359.0  | 370.6  | 380.6  | 388.9  | 392.2  | 393.9  | 392.2  | 388.9  | 388.9  | 387.3  | 385.6  |
| 80°    | 322.4  | 335.7  | 345.7  | 354.0  | 359.0  | 359.0  | 357.3  | 359.0  | 355.7  | 354.0  | 352.4  |
| 82.5°  | 290.9  | 305.8  | 317.5  | 325.8  | 329.1  | 330.8  | 329.1  | 330.8  | 327.4  | 327.4  | 327.4  |
| 85°    | 262.6  | 277.6  | 290.9  | 297.5  | 302.5  | 304.2  | 304.2  | 304.2  | 302.5  | 302.5  | 302.5  |
| 87.5°  | 239.3  | 254.3  | 267.6  | 274.2  | 279.2  | 280.9  | 280.9  | 282.6  | 279.2  | 279.2  | 279.2  |
| 90°    | 217.7  | 232.7  | 246.0  | 252.6  | 257.6  | 260.9  | 260.9  | 262.6  | 260.9  | 259.3  | 259.3  |
| 92.5°  | 197.8  | 214.4  | 227.7  | 234.4  | 239.3  | 244.3  | 244.3  | 246.0  | 242.7  | 242.7  | 242.7  |
| 95°    | 181.2  | 197.8  | 209.4  | 217.7  | 222.7  | 226.0  | 227.7  | 227.7  | 226.0  | 226.0  | 226.0  |
| 97.5°  | 166.2  | 181.2  | 192.8  | 201.1  | 206.1  | 207.8  | 209.4  | 211.1  | 209.4  | 209.4  | 209.4  |
| 100°   | 151.2  | 166.2  | 177.8  | 184.5  | 191.1  | 192.8  | 194.5  | 196.1  | 196.1  | 194.5  | 194.5  |
| 102.5° | 138.0  | 152.9  | 162.9  | 171.2  | 176.2  | 179.5  | 181.2  | 181.2  | 181.2  | 181.2  | 181.2  |
| 105°   | 124.7  | 139.6  | 149.6  | 157.9  | 162.9  | 166.2  | 167.9  | 169.5  | 169.5  | 167.9  | 167.9  |
| 107.5° | 113.0  | 126.3  | 138.0  | 144.6  | 151.2  | 154.6  | 156.2  | 156.2  | 157.9  | 156.2  | 156.2  |
| 110°   | 101.4  | 116.3  | 126.3  | 133.0  | 139.6  | 142.9  | 144.6  | 146.3  | 146.3  | 146.3  | 146.3  |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 93.1 | 104.7 | 114.7 | 121.3 | 128.0 | 131.3 | 133.0 | 134.6 | 136.3 | 134.6 | 134.6 |
| 115°   | 83.1 | 94.7  | 104.7 | 111.4 | 116.3 | 119.7 | 123.0 | 124.7 | 124.7 | 126.3 | 124.7 |
| 117.5° | 74.8 | 84.8  | 94.7  | 101.4 | 106.4 | 111.4 | 113.0 | 114.7 | 116.3 | 114.7 | 114.7 |
| 120°   | 66.5 | 76.5  | 84.8  | 91.4  | 96.4  | 101.4 | 103.0 | 104.7 | 106.4 | 104.7 | 104.7 |
| 122.5° | 59.8 | 68.1  | 76.5  | 83.1  | 88.1  | 91.4  | 94.7  | 94.7  | 96.4  | 96.4  | 96.4  |
| 125°   | 53.2 | 61.5  | 68.1  | 74.8  | 79.8  | 83.1  | 84.8  | 86.4  | 86.4  | 88.1  | 88.1  |
| 127.5° | 46.5 | 53.2  | 61.5  | 66.5  | 71.5  | 74.8  | 76.5  | 78.1  | 78.1  | 79.8  | 79.8  |
| 130°   | 39.9 | 46.5  | 53.2  | 58.2  | 63.2  | 66.5  | 68.1  | 69.8  | 71.5  | 71.5  | 71.5  |
| 132.5° | 34.9 | 41.6  | 46.5  | 51.5  | 54.8  | 58.2  | 61.5  | 63.2  | 63.2  | 63.2  | 63.2  |
| 135°   | 28.3 | 34.9  | 39.9  | 44.9  | 48.2  | 51.5  | 53.2  | 56.5  | 56.5  | 56.5  | 56.5  |
| 137.5° | 23.3 | 29.9  | 34.9  | 38.2  | 41.6  | 44.9  | 46.5  | 48.2  | 49.9  | 49.9  | 49.9  |
| 140°   | 18.3 | 23.3  | 28.3  | 33.2  | 36.6  | 38.2  | 41.6  | 41.6  | 43.2  | 43.2  | 43.2  |
| 142.5° | 13.3 | 18.3  | 21.6  | 26.6  | 29.9  | 33.2  | 34.9  | 36.6  | 36.6  | 36.6  | 36.6  |
| 145°   | 10.0 | 13.3  | 16.6  | 19.9  | 24.9  | 26.6  | 28.3  | 29.9  | 31.6  | 31.6  | 31.6  |
| 147.5° | 6.6  | 10.0  | 11.6  | 15.0  | 18.3  | 21.6  | 23.3  | 24.9  | 26.6  | 26.6  | 26.6  |
| 150°   | 5.0  | 6.6   | 10.0  | 11.6  | 13.3  | 16.6  | 19.9  | 19.9  | 21.6  | 21.6  | 19.9  |
| 152.5° | 3.3  | 5.0   | 6.6   | 8.3   | 10.0  | 11.6  | 15.0  | 15.0  | 16.6  | 16.6  | 16.6  |
| 155°   | 3.3  | 3.3   | 3.3   | 5.0   | 6.6   | 8.3   | 10.0  | 11.6  | 11.6  | 11.6  | 11.6  |
| 157.5° | 3.3  | 3.3   | 3.3   | 3.3   | 3.3   | 5.0   | 6.6   | 8.3   | 8.3   | 8.3   | 8.3   |
| 160°   | 3.3  | 3.3   | 1.7   | 1.7   | 3.3   | 3.3   | 3.3   | 3.3   | 5.0   | 5.0   | 5.0   |
| 162.5° | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3018.3 | 3021.6 | 3021.6 | 3018.3 | 3016.7 | 3023.3 | 3015.0 | 2983.4 | 2993.4 | 2996.7 | 3006.7 |
| 5°     | 3003.4 | 3006.7 | 3006.7 | 3006.7 | 3003.4 | 3010.0 | 3001.7 | 2970.1 | 2981.8 | 2986.7 | 2993.4 |
| 7.5°   | 2981.8 | 2983.4 | 2986.7 | 2985.1 | 2981.8 | 2991.7 | 2983.4 | 2951.8 | 2960.2 | 2968.5 | 2976.8 |
| 10°    | 2953.5 | 2953.5 | 2955.2 | 2958.5 | 2955.2 | 2963.5 | 2955.2 | 2926.9 | 2935.2 | 2940.2 | 2950.2 |
| 12.5°  | 2915.3 | 2918.6 | 2920.3 | 2918.6 | 2916.9 | 2923.6 | 2920.3 | 2893.7 | 2897.0 | 2907.0 | 2916.9 |
| 15°    | 2863.8 | 2863.8 | 2872.1 | 2868.7 | 2868.7 | 2875.4 | 2878.7 | 2848.8 | 2853.8 | 2868.7 | 2878.7 |
| 17.5°  | 2800.6 | 2802.3 | 2808.9 | 2812.2 | 2810.6 | 2822.2 | 2823.9 | 2800.6 | 2798.9 | 2817.2 | 2827.2 |
| 20°    | 2719.2 | 2722.5 | 2730.8 | 2737.4 | 2737.4 | 2750.7 | 2755.7 | 2740.8 | 2742.4 | 2762.4 | 2765.7 |
| 22.5°  | 2619.4 | 2619.4 | 2634.4 | 2644.4 | 2652.7 | 2661.0 | 2675.9 | 2662.6 | 2662.6 | 2689.2 | 2704.2 |
| 25°    | 2496.4 | 2508.1 | 2513.1 | 2533.0 | 2544.6 | 2567.9 | 2581.2 | 2582.9 | 2584.5 | 2609.5 | 2619.4 |
| 27.5°  | 2360.1 | 2363.5 | 2378.4 | 2401.7 | 2415.0 | 2436.6 | 2461.5 | 2466.5 | 2474.8 | 2508.1 | 2523.0 |
| 30°    | 2205.6 | 2215.5 | 2222.2 | 2255.4 | 2273.7 | 2302.0 | 2333.6 | 2345.2 | 2351.8 | 2396.7 | 2415.0 |
| 32.5°  | 2047.7 | 2051.0 | 2079.3 | 2097.5 | 2119.1 | 2149.1 | 2185.6 | 2207.2 | 2220.5 | 2267.1 | 2293.7 |
| 35°    | 1889.8 | 1896.4 | 1919.7 | 1943.0 | 1964.6 | 1994.5 | 2032.7 | 2062.6 | 2085.9 | 2127.5 | 2162.4 |
| 37.5°  | 1745.2 | 1761.8 | 1766.8 | 1790.1 | 1806.7 | 1836.6 | 1863.2 | 1906.4 | 1929.7 | 1972.9 | 2017.8 |
| 40°    | 1615.5 | 1620.5 | 1623.8 | 1647.1 | 1658.7 | 1687.0 | 1725.2 | 1753.5 | 1785.1 | 1816.6 | 1869.8 |
| 42.5°  | 1487.6 | 1490.9 | 1495.9 | 1509.2 | 1522.5 | 1542.4 | 1570.7 | 1598.9 | 1632.2 | 1678.7 | 1713.6 |
| 45°    | 1369.5 | 1372.9 | 1376.2 | 1384.5 | 1396.1 | 1414.4 | 1432.7 | 1452.7 | 1485.9 | 1525.8 | 1562.3 |
| 47.5°  | 1259.9 | 1266.5 | 1266.5 | 1268.2 | 1276.5 | 1291.4 | 1304.7 | 1329.7 | 1347.9 | 1369.5 | 1411.1 |
| 50°    | 1155.1 | 1160.1 | 1161.8 | 1161.8 | 1166.8 | 1176.7 | 1180.1 | 1196.7 | 1213.3 | 1233.3 | 1263.2 |
| 52.5°  | 1057.1 | 1057.1 | 1055.4 | 1062.1 | 1062.1 | 1068.7 | 1070.4 | 1080.3 | 1092.0 | 1113.6 | 1126.9 |
| 55°    | 964.0  | 964.0  | 969.0  | 965.7  | 965.7  | 969.0  | 967.3  | 969.0  | 979.0  | 992.3  | 1003.9 |
| 57.5°  | 874.3  | 872.6  | 877.6  | 874.3  | 872.6  | 875.9  | 879.2  | 872.6  | 874.3  | 887.5  | 887.5  |
| 60°    | 784.5  | 786.2  | 791.1  | 787.8  | 787.8  | 787.8  | 784.5  | 781.2  | 777.9  | 786.2  | 789.5  |
| 62.5°  | 713.0  | 708.0  | 713.0  | 708.0  | 711.4  | 709.7  | 706.4  | 699.7  | 701.4  | 698.1  | 694.7  |
| 65°    | 638.2  | 638.2  | 639.9  | 634.9  | 638.2  | 638.2  | 633.2  | 631.6  | 621.6  | 618.3  | 610.0  |
| 67.5°  | 573.4  | 573.4  | 575.1  | 571.8  | 571.8  | 573.4  | 568.4  | 563.4  | 553.5  | 548.5  | 536.8  |
| 70°    | 516.9  | 516.9  | 516.9  | 515.2  | 515.2  | 515.2  | 511.9  | 505.3  | 495.3  | 487.0  | 472.0  |
| 72.5°  | 465.4  | 467.0  | 465.4  | 465.4  | 470.4  | 465.4  | 460.4  | 453.7  | 445.4  | 428.8  | 415.5  |
| 75°    | 423.8  | 425.5  | 423.8  | 423.8  | 423.8  | 422.2  | 420.5  | 410.5  | 400.6  | 387.3  | 367.3  |
| 77.5°  | 387.3  | 387.3  | 388.9  | 387.3  | 387.3  | 385.6  | 380.6  | 372.3  | 360.7  | 349.0  | 325.8  |
| 80°    | 352.4  | 354.0  | 355.7  | 357.3  | 354.0  | 352.4  | 347.4  | 340.7  | 325.8  | 312.5  | 289.2  |
| 82.5°  | 327.4  | 325.8  | 327.4  | 329.1  | 325.8  | 324.1  | 319.1  | 310.8  | 299.2  | 280.9  | 257.6  |
| 85°    | 302.5  | 300.8  | 300.8  | 302.5  | 300.8  | 297.5  | 292.5  | 284.2  | 272.6  | 254.3  | 231.0  |
| 87.5°  | 277.6  | 279.2  | 280.9  | 279.2  | 277.6  | 274.2  | 269.3  | 260.9  | 247.6  | 232.7  | 207.8  |
| 90°    | 259.3  | 259.3  | 259.3  | 259.3  | 257.6  | 254.3  | 249.3  | 239.3  | 227.7  | 209.4  | 187.8  |
| 92.5°  | 242.7  | 242.7  | 242.7  | 242.7  | 241.0  | 236.0  | 231.0  | 222.7  | 209.4  | 191.1  | 171.2  |
| 95°    | 226.0  | 227.7  | 226.0  | 226.0  | 222.7  | 221.1  | 212.7  | 204.4  | 192.8  | 174.5  | 152.9  |
| 97.5°  | 207.8  | 209.4  | 207.8  | 207.8  | 206.1  | 202.8  | 197.8  | 187.8  | 176.2  | 159.6  | 139.6  |
| 100°   | 194.5  | 194.5  | 192.8  | 192.8  | 191.1  | 187.8  | 181.2  | 172.9  | 161.2  | 144.6  | 124.7  |
| 102.5° | 179.5  | 181.2  | 179.5  | 179.5  | 176.2  | 172.9  | 167.9  | 159.6  | 147.9  | 131.3  | 113.0  |
| 105°   | 167.9  | 167.9  | 166.2  | 166.2  | 162.9  | 159.6  | 154.6  | 144.6  | 134.6  | 119.7  | 101.4  |
| 107.5° | 156.2  | 156.2  | 154.6  | 154.6  | 151.2  | 147.9  | 141.3  | 133.0  | 123.0  | 108.0  | 91.4   |
| 110°   | 144.6  | 144.6  | 144.6  | 142.9  | 139.6  | 134.6  | 129.6  | 121.3  | 111.4  | 98.1   | 81.4   |



TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 112.5° | 136.3 | 134.6 | 133.0 | 131.3 | 128.0 | 124.7 | 118.0 | 109.7 | 99.7 | 88.1 | 73.1 |
| 115°   | 124.7 | 124.7 | 123.0 | 121.3 | 118.0 | 113.0 | 108.0 | 101.4 | 91.4 | 78.1 | 64.8 |
| 117.5° | 114.7 | 114.7 | 113.0 | 111.4 | 108.0 | 103.0 | 98.1  | 91.4  | 81.4 | 69.8 | 58.2 |
| 120°   | 104.7 | 104.7 | 103.0 | 101.4 | 98.1  | 93.1  | 89.8  | 81.4  | 73.1 | 61.5 | 51.5 |
| 122.5° | 96.4  | 94.7  | 94.7  | 91.4  | 89.8  | 84.8  | 79.8  | 73.1  | 64.8 | 54.8 | 44.9 |
| 125°   | 86.4  | 86.4  | 84.8  | 83.1  | 81.4  | 76.5  | 71.5  | 64.8  | 56.5 | 48.2 | 39.9 |
| 127.5° | 78.1  | 78.1  | 76.5  | 74.8  | 73.1  | 68.1  | 63.2  | 58.2  | 49.9 | 41.6 | 33.2 |
| 130°   | 69.8  | 69.8  | 68.1  | 66.5  | 64.8  | 59.8  | 56.5  | 49.9  | 43.2 | 36.6 | 28.3 |
| 132.5° | 63.2  | 63.2  | 61.5  | 59.8  | 56.5  | 53.2  | 49.9  | 43.2  | 38.2 | 31.6 | 24.9 |
| 135°   | 56.5  | 54.8  | 54.8  | 53.2  | 49.9  | 46.5  | 43.2  | 38.2  | 31.6 | 26.6 | 19.9 |
| 137.5° | 49.9  | 48.2  | 46.5  | 44.9  | 43.2  | 39.9  | 36.6  | 33.2  | 28.3 | 21.6 | 16.6 |
| 140°   | 43.2  | 41.6  | 41.6  | 39.9  | 36.6  | 34.9  | 31.6  | 26.6  | 23.3 | 18.3 | 13.3 |
| 142.5° | 36.6  | 36.6  | 34.9  | 33.2  | 31.6  | 29.9  | 26.6  | 23.3  | 18.3 | 15.0 | 10.0 |
| 145°   | 31.6  | 29.9  | 29.9  | 28.3  | 26.6  | 23.3  | 21.6  | 18.3  | 15.0 | 11.6 | 8.3  |
| 147.5° | 24.9  | 24.9  | 24.9  | 23.3  | 21.6  | 19.9  | 18.3  | 15.0  | 11.6 | 8.3  | 5.0  |
| 150°   | 19.9  | 19.9  | 19.9  | 18.3  | 16.6  | 15.0  | 13.3  | 11.6  | 8.3  | 5.0  | 3.3  |
| 152.5° | 16.6  | 16.6  | 15.0  | 15.0  | 13.3  | 11.6  | 10.0  | 8.3   | 5.0  | 3.3  | 3.3  |
| 155°   | 11.6  | 11.6  | 11.6  | 10.0  | 10.0  | 8.3   | 6.6   | 5.0   | 3.3  | 3.3  | 3.3  |
| 157.5° | 8.3   | 8.3   | 8.3   | 6.6   | 6.6   | 5.0   | 5.0   | 3.3   | 3.3  | 3.3  | 3.3  |
| 160°   | 5.0   | 5.0   | 5.0   | 5.0   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3  | 3.3  | 3.3  |
| 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: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 | 3021.6 |
| 2.5°   | 3001.7 | 3000.0 | 3013.3 | 3013.3 | 2998.4 | 3021.6 | 3046.6 |
| 5°     | 2991.7 | 2990.1 | 3003.4 | 3003.4 | 2990.1 | 3013.3 | 3039.9 |
| 7.5°   | 2971.8 | 2973.4 | 2986.7 | 2990.1 | 2973.4 | 2995.1 | 3023.3 |
| 10°    | 2950.2 | 2948.5 | 2963.5 | 2966.8 | 2953.5 | 2973.4 | 3000.0 |
| 12.5°  | 2915.3 | 2915.3 | 2930.2 | 2935.2 | 2921.9 | 2945.2 | 2970.1 |
| 15°    | 2878.7 | 2878.7 | 2888.7 | 2897.0 | 2885.4 | 2907.0 | 2931.9 |
| 17.5°  | 2832.2 | 2830.5 | 2840.5 | 2850.5 | 2838.8 | 2862.1 | 2888.7 |
| 20°    | 2772.3 | 2772.3 | 2784.0 | 2795.6 | 2787.3 | 2808.9 | 2838.8 |
| 22.5°  | 2709.2 | 2702.5 | 2722.5 | 2730.8 | 2725.8 | 2747.4 | 2777.3 |
| 25°    | 2629.4 | 2627.7 | 2647.7 | 2659.3 | 2652.7 | 2675.9 | 2702.5 |
| 27.5°  | 2543.0 | 2541.3 | 2561.3 | 2576.2 | 2572.9 | 2594.5 | 2624.4 |
| 30°    | 2438.3 | 2446.6 | 2464.9 | 2489.8 | 2481.5 | 2504.7 | 2536.3 |
| 32.5°  | 2328.6 | 2336.9 | 2358.5 | 2385.1 | 2386.7 | 2405.0 | 2436.6 |
| 35°    | 2197.3 | 2218.9 | 2233.8 | 2268.7 | 2275.4 | 2293.7 | 2326.9 |
| 37.5°  | 2059.3 | 2084.2 | 2115.8 | 2142.4 | 2155.7 | 2170.7 | 2208.9 |
| 40°    | 1904.7 | 1941.3 | 1976.2 | 2007.8 | 2024.4 | 2039.4 | 2075.9 |
| 42.5°  | 1765.1 | 1793.4 | 1826.6 | 1858.2 | 1888.1 | 1901.4 | 1939.6 |
| 45°    | 1607.2 | 1640.5 | 1670.4 | 1708.6 | 1738.5 | 1753.5 | 1791.7 |
| 47.5°  | 1452.7 | 1485.9 | 1525.8 | 1552.4 | 1584.0 | 1598.9 | 1635.5 |
| 50°    | 1304.7 | 1334.6 | 1367.9 | 1399.5 | 1426.1 | 1439.4 | 1470.9 |
| 52.5°  | 1158.5 | 1190.0 | 1221.6 | 1241.6 | 1269.8 | 1279.8 | 1306.4 |
| 55°    | 1028.8 | 1050.4 | 1078.7 | 1090.3 | 1118.6 | 1125.2 | 1143.5 |
| 57.5°  | 904.2  | 919.1  | 929.1  | 949.0  | 969.0  | 983.9  | 1005.6 |
| 60°    | 791.1  | 797.8  | 804.4  | 816.1  | 832.7  | 837.7  | 846.0  |
| 62.5°  | 689.8  | 688.1  | 701.4  | 704.7  | 706.4  | 723.0  | 714.7  |
| 65°    | 600.0  | 601.7  | 590.0  | 585.0  | 591.7  | 596.7  | 593.4  |
| 67.5°  | 525.2  | 515.2  | 505.3  | 493.6  | 483.7  | 488.6  | 483.7  |
| 70°    | 452.1  | 443.8  | 427.2  | 410.5  | 403.9  | 393.9  | 388.9  |
| 72.5°  | 393.9  | 374.0  | 357.3  | 335.7  | 324.1  | 312.5  | 304.2  |
| 75°    | 349.0  | 320.8  | 297.5  | 274.2  | 257.6  | 241.0  | 237.7  |
| 77.5°  | 302.5  | 275.9  | 249.3  | 224.4  | 199.4  | 181.2  | 174.5  |
| 80°    | 265.9  | 241.0  | 209.4  | 179.5  | 152.9  | 129.6  | 121.3  |
| 82.5°  | 232.7  | 206.1  | 174.5  | 142.9  | 113.0  | 88.1   | 78.1   |
| 85°    | 204.4  | 176.2  | 144.6  | 113.0  | 83.1   | 56.5   | 43.2   |
| 87.5°  | 182.8  | 151.2  | 119.7  | 89.8   | 58.2   | 31.6   | 16.6   |
| 90°    | 162.9  | 133.0  | 103.0  | 71.5   | 41.6   | 16.6   | 0.0    |
| 92.5°  | 144.6  | 116.3  | 86.4   | 58.2   | 31.6   | 10.0   | 1.7    |
| 95°    | 128.0  | 103.0  | 73.1   | 46.5   | 23.3   | 6.6    | 1.7    |
| 97.5°  | 114.7  | 89.8   | 63.2   | 38.2   | 18.3   | 5.0    | 1.7    |
| 100°   | 103.0  | 78.1   | 54.8   | 31.6   | 15.0   | 3.3    | 1.7    |
| 102.5° | 91.4   | 69.8   | 46.5   | 26.6   | 11.6   | 1.7    | 1.7    |
| 105°   | 81.4   | 61.5   | 39.9   | 23.3   | 10.0   | 1.7    | 1.7    |
| 107.5° | 73.1   | 54.8   | 34.9   | 19.9   | 6.6    | 1.7    | 1.7    |
| 110°   | 64.8   | 46.5   | 29.9   | 16.6   | 5.0    | 1.7    | 1.7    |



TEST NUMBER: P1214236

CATALOG NUMBER: 4SNLED-LD5-78SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 58.2 | 41.6 | 26.6 | 13.3 | 3.3  | 1.7  | 1.7  |
| 115°   | 51.5 | 36.6 | 23.3 | 11.6 | 3.3  | 1.7  | 1.7  |
| 117.5° | 44.9 | 31.6 | 19.9 | 8.3  | 1.7  | 1.7  | 1.7  |
| 120°   | 39.9 | 28.3 | 16.6 | 6.6  | 1.7  | 1.7  | 1.7  |
| 122.5° | 34.9 | 23.3 | 13.3 | 5.0  | 1.7  | 1.7  | 1.7  |
| 125°   | 29.9 | 19.9 | 11.6 | 3.3  | 1.7  | 1.7  | 1.7  |
| 127.5° | 24.9 | 16.6 | 8.3  | 3.3  | 1.7  | 1.7  | 1.7  |
| 130°   | 21.6 | 13.3 | 6.6  | 1.7  | 1.7  | 1.7  | 1.7  |
| 132.5° | 18.3 | 10.0 | 5.0  | 1.7  | 1.7  | 1.7  | 1.7  |
| 135°   | 15.0 | 8.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  |
| 137.5° | 11.6 | 6.6  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  |
| 140°   | 8.3  | 5.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 142.5° | 6.6  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 145°   | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 147.5° | 3.3  | 3.3  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  |
| 150°   | 3.3  | 3.3  | 1.7  | 1.7  | 3.3  | 1.7  | 1.7  |
| 152.5° | 3.3  | 1.7  | 1.7  | 1.7  | 3.3  | 1.7  | 1.7  |
| 155°   | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 1.7  |
| 157.5° | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 160°   | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 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)