

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: P1213894

Luminaire Tested: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213894  
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-LD5-90HL-LN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

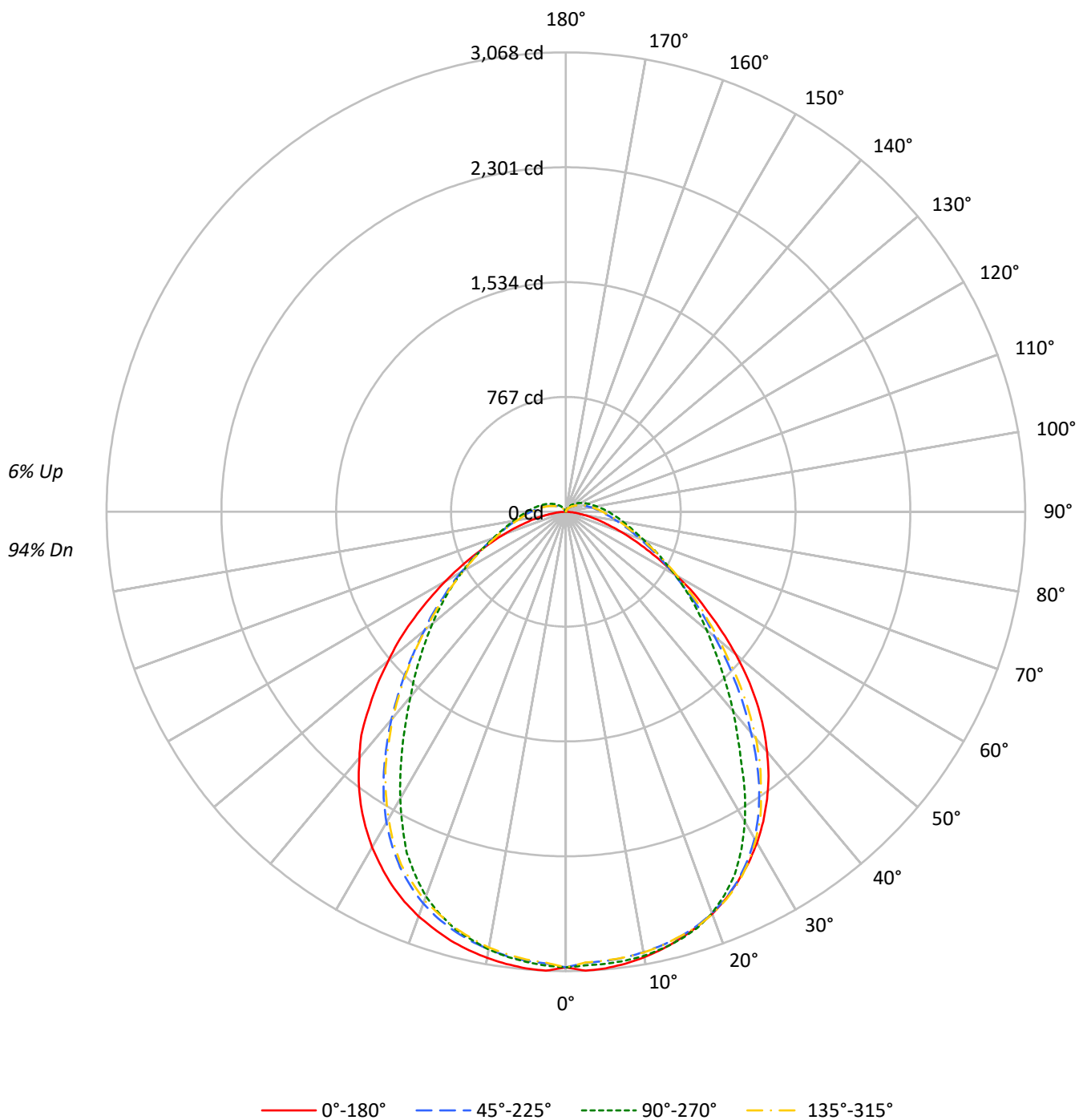
Lumens per Lamp: N/A  
Luminaire Lumens: 7700.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 79  
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: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213894

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

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

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 24587 | 24587 | 24587 | 24587 |
| 5°  | 24763 | 23805 | 24763 | 23699 |
| 10° | 24652 | 23172 | 24694 | 22850 |
| 15° | 24493 | 22479 | 24604 | 21895 |
| 20° | 24306 | 21589 | 24448 | 20678 |
| 25° | 23916 | 20269 | 24180 | 19074 |
| 30° | 23408 | 18328 | 23716 | 16968 |
| 35° | 22619 | 15950 | 23055 | 14852 |
| 40° | 21487 | 13950 | 22055 | 12942 |
| 45° | 19993 | 12126 | 20642 | 11431 |
| 50° | 17952 | 10655 | 18743 | 10118 |
| 55° | 15529 | 9409  | 16658 | 8933  |
| 60° | 13061 | 8261  | 14241 | 7786  |
| 65° | 10707 | 7304  | 11786 | 6772  |
| 70° | 8521  | 6482  | 9541  | 5996  |
| 75° | 6691  | 5985  | 7533  | 5506  |
| 80° | 4831  | 5775  | 5688  | 5277  |
| 85° | 2972  | 5808  | 4003  | 5338  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 20642 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 288.5  | 3.7       |
| 10°-20°   | 827.1  | 10.7      |
| 20°-30°   | 1225.8 | 15.9      |
| 30°-40°   | 1361.9 | 17.7      |
| 40°-50°   | 1234.5 | 16.0      |
| 50°-60°   | 956.6  | 12.4      |
| 60°-70°   | 649.6  | 8.4       |
| 70°-80°   | 413.3  | 5.4       |
| 80°-90°   | 264.2  | 3.4       |
| 90°-100°  | 178.1  | 2.3       |
| 100°-110° | 122.0  | 1.6       |
| 110°-120° | 81.4   | 1.1       |
| 120°-130° | 50.6   | 0.7       |
| 130°-140° | 28.0   | 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°    | 2341.4 | 30.4      |
| 0°-40°    | 3703.3 | 48.1      |
| 0°-60°    | 5894.4 | 76.6      |
| 0°-90°    | 7221.5 | 93.8      |
| 90°-120°  | 381.6  | 5.0       |
| 90°-150°  | 473.3  | 6.1       |
| 90°-180°  | 478.0  | 6.2       |
| 0°-180°   | 7700.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3043 | 3043 | 3043 | 3043 | 3043 |      |
| 5°   | 3061 | 3031 | 3061 | 3018 | 3061 | 291  |
| 15°  | 2952 | 2957 | 2966 | 2880 | 2952 | 833  |
| 25°  | 2721 | 2671 | 2751 | 2514 | 2721 | 1253 |
| 35°  | 2343 | 2042 | 2388 | 1901 | 2343 | 1462 |
| 45°  | 1804 | 1459 | 1863 | 1376 | 1804 | 1386 |
| 55°  | 1151 | 1026 | 1235 | 974  | 1151 | 1037 |
| 65°  | 598  | 690  | 658  | 639  | 598  | 599  |
| 75°  | 239  | 460  | 269  | 423  | 239  | 258  |
| 85°  | 44   | 331  | 59   | 305  | 44   | 52   |
| 90°  | 0    | 286  | 3    | 261  | 0    | 3    |
| 95°  | 2    | 244  | 0    | 228  | 2    | 1    |
| 105° | 2    | 179  | 0    | 169  | 2    | 2    |
| 115° | 2    | 136  | 0    | 126  | 2    | 2    |
| 125° | 2    | 100  | 2    | 89   | 2    | 2    |
| 135° | 2    | 70   | 2    | 57   | 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3067.7 | 3064.3 | 3061.0 | 3056.0 | 3061.0 | 3074.4 | 3066.0 | 3047.6 | 3044.3 | 3014.1 | 3027.5 |
| 5°     | 3061.0 | 3056.0 | 3052.6 | 3047.6 | 3054.3 | 3071.0 | 3062.7 | 3045.9 | 3040.9 | 3012.5 | 3027.5 |
| 7.5°   | 3044.3 | 3040.9 | 3035.9 | 3035.9 | 3042.6 | 3059.3 | 3052.6 | 3034.2 | 3030.9 | 3002.4 | 3019.2 |
| 10°    | 3020.8 | 3019.2 | 3015.8 | 3015.8 | 3022.5 | 3042.6 | 3034.2 | 3017.5 | 3014.1 | 2987.4 | 3005.8 |
| 12.5°  | 2990.7 | 2992.4 | 2987.4 | 2987.4 | 2997.4 | 3017.5 | 3010.8 | 2992.4 | 2989.0 | 2965.6 | 2984.0 |
| 15°    | 2952.2 | 2953.9 | 2950.5 | 2952.2 | 2962.3 | 2985.7 | 2977.3 | 2960.6 | 2957.2 | 2938.8 | 2953.9 |
| 17.5°  | 2908.7 | 2910.4 | 2910.4 | 2908.7 | 2920.4 | 2943.8 | 2937.2 | 2922.1 | 2917.1 | 2902.0 | 2920.4 |
| 20°    | 2858.5 | 2858.5 | 2858.5 | 2858.5 | 2871.9 | 2895.3 | 2886.9 | 2875.2 | 2865.2 | 2853.5 | 2868.5 |
| 22.5°  | 2796.6 | 2794.9 | 2796.6 | 2801.6 | 2815.0 | 2833.4 | 2828.4 | 2815.0 | 2799.9 | 2793.2 | 2804.9 |
| 25°    | 2721.3 | 2726.3 | 2728.0 | 2733.0 | 2749.7 | 2764.8 | 2759.8 | 2746.4 | 2722.9 | 2717.9 | 2721.3 |
| 27.5°  | 2642.6 | 2646.0 | 2651.0 | 2649.3 | 2672.7 | 2687.8 | 2677.7 | 2666.0 | 2632.6 | 2627.5 | 2624.2 |
| 30°    | 2553.9 | 2558.9 | 2562.3 | 2560.6 | 2579.0 | 2595.7 | 2585.7 | 2570.6 | 2525.5 | 2522.1 | 2495.3 |
| 32.5°  | 2453.5 | 2458.5 | 2461.9 | 2461.9 | 2488.6 | 2495.3 | 2476.9 | 2455.2 | 2406.6 | 2394.9 | 2371.5 |
| 35°    | 2343.0 | 2348.1 | 2349.7 | 2349.7 | 2376.5 | 2374.8 | 2351.4 | 2321.3 | 2267.7 | 2252.7 | 2212.5 |
| 37.5°  | 2224.2 | 2227.6 | 2229.2 | 2239.3 | 2251.0 | 2240.9 | 2210.8 | 2172.3 | 2132.2 | 2090.3 | 2046.8 |
| 40°    | 2090.3 | 2095.3 | 2098.7 | 2105.4 | 2117.1 | 2105.4 | 2061.9 | 2015.0 | 1971.5 | 1924.6 | 1881.1 |
| 42.5°  | 1953.1 | 1968.1 | 1964.8 | 1963.1 | 1969.8 | 1938.0 | 1904.5 | 1851.0 | 1807.5 | 1758.9 | 1715.4 |
| 45°    | 1804.1 | 1802.5 | 1810.8 | 1814.2 | 1812.5 | 1785.7 | 1738.9 | 1690.3 | 1646.8 | 1596.6 | 1559.8 |
| 47.5°  | 1646.8 | 1645.1 | 1651.8 | 1655.2 | 1645.1 | 1616.7 | 1579.9 | 1524.6 | 1487.8 | 1444.3 | 1415.9 |
| 50°    | 1481.1 | 1481.1 | 1491.2 | 1481.1 | 1476.1 | 1447.7 | 1417.5 | 1362.3 | 1333.9 | 1295.4 | 1278.6 |
| 52.5°  | 1315.4 | 1330.5 | 1320.5 | 1317.1 | 1312.1 | 1283.6 | 1260.2 | 1215.0 | 1191.6 | 1174.9 | 1154.8 |
| 55°    | 1151.4 | 1168.2 | 1161.5 | 1156.5 | 1154.8 | 1131.3 | 1109.6 | 1076.1 | 1061.1 | 1049.3 | 1037.6 |
| 57.5°  | 1012.5 | 1010.9 | 1007.5 | 1002.5 | 1004.2 | 985.7  | 964.0  | 945.6  | 938.9  | 933.9  | 937.2  |
| 60°    | 851.9  | 865.2  | 860.2  | 861.9  | 863.6  | 860.2  | 841.8  | 830.1  | 831.8  | 833.4  | 838.5  |
| 62.5°  | 719.6  | 731.4  | 739.7  | 733.0  | 736.4  | 741.4  | 731.4  | 728.0  | 734.7  | 741.4  | 748.1  |
| 65°    | 597.5  | 609.2  | 617.6  | 615.9  | 625.9  | 636.0  | 634.3  | 637.6  | 652.7  | 661.1  | 669.4  |
| 67.5°  | 487.0  | 498.7  | 510.4  | 512.1  | 527.2  | 542.2  | 548.9  | 560.7  | 577.4  | 589.1  | 599.1  |
| 70°    | 391.6  | 401.7  | 415.1  | 423.4  | 443.5  | 463.6  | 475.3  | 498.7  | 508.8  | 525.5  | 532.2  |
| 72.5°  | 306.3  | 314.6  | 333.0  | 353.1  | 369.9  | 395.0  | 418.4  | 438.5  | 453.5  | 472.0  | 480.3  |
| 75°    | 239.3  | 242.7  | 262.8  | 286.2  | 309.6  | 338.1  | 363.2  | 384.9  | 405.0  | 423.4  | 436.8  |
| 77.5°  | 175.7  | 180.7  | 199.2  | 231.0  | 257.7  | 287.9  | 316.3  | 339.7  | 361.5  | 379.9  | 398.3  |
| 80°    | 122.2  | 132.2  | 152.3  | 184.1  | 214.2  | 247.7  | 274.5  | 301.2  | 324.7  | 343.1  | 361.5  |
| 82.5°  | 78.7   | 87.0   | 115.5  | 147.3  | 179.1  | 212.5  | 241.0  | 267.8  | 292.9  | 313.0  | 329.7  |
| 85°    | 43.5   | 55.2   | 83.7   | 117.2  | 148.9  | 182.4  | 212.5  | 239.3  | 264.4  | 282.8  | 299.6  |
| 87.5°  | 16.7   | 33.5   | 60.2   | 92.0   | 123.8  | 155.6  | 187.4  | 212.5  | 237.7  | 257.7  | 272.8  |
| 90°    | 0.0    | 20.1   | 45.2   | 77.0   | 108.8  | 140.6  | 170.7  | 197.5  | 220.9  | 239.3  | 256.1  |
| 92.5°  | 1.7    | 13.4   | 35.1   | 61.9   | 92.0   | 122.2  | 150.6  | 177.4  | 200.8  | 219.2  | 234.3  |
| 95°    | 1.7    | 10.0   | 28.5   | 53.6   | 80.3   | 108.8  | 135.6  | 160.7  | 182.4  | 200.8  | 215.9  |
| 97.5°  | 1.7    | 6.7    | 23.4   | 46.9   | 70.3   | 98.7   | 123.8  | 147.3  | 167.4  | 185.8  | 197.5  |
| 100°   | 1.7    | 6.7    | 20.1   | 40.2   | 63.6   | 88.7   | 112.1  | 135.6  | 154.0  | 169.0  | 182.4  |
| 102.5° | 1.7    | 5.0    | 16.7   | 35.1   | 56.9   | 78.7   | 102.1  | 123.8  | 140.6  | 155.6  | 169.0  |
| 105°   | 1.7    | 5.0    | 15.1   | 30.1   | 50.2   | 72.0   | 92.0   | 112.1  | 130.5  | 143.9  | 155.6  |
| 107.5° | 1.7    | 3.3    | 13.4   | 25.1   | 43.5   | 65.3   | 85.4   | 102.1  | 118.8  | 132.2  | 143.9  |
| 110°   | 1.7    | 3.3    | 11.7   | 23.4   | 38.5   | 58.6   | 77.0   | 93.7   | 108.8  | 122.2  | 132.2  |

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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 | 21.8 | 35.1 | 51.9 | 70.3 | 85.4 | 100.4 | 112.1 | 122.2 |
| 115°   | 1.7 | 3.3 | 10.0 | 20.1 | 31.8 | 45.2 | 61.9 | 78.7 | 90.4  | 103.8 | 112.1 |
| 117.5° | 1.7 | 3.3 | 8.4  | 16.7 | 30.1 | 41.8 | 56.9 | 70.3 | 83.7  | 95.4  | 103.8 |
| 120°   | 1.7 | 3.3 | 8.4  | 15.1 | 26.8 | 38.5 | 50.2 | 63.6 | 77.0  | 85.4  | 93.7  |
| 122.5° | 1.7 | 3.3 | 6.7  | 15.1 | 23.4 | 35.1 | 45.2 | 56.9 | 68.6  | 78.7  | 87.0  |
| 125°   | 1.7 | 3.3 | 6.7  | 13.4 | 21.8 | 31.8 | 41.8 | 50.2 | 61.9  | 70.3  | 78.7  |
| 127.5° | 1.7 | 3.3 | 6.7  | 11.7 | 20.1 | 28.5 | 38.5 | 46.9 | 55.2  | 63.6  | 70.3  |
| 130°   | 1.7 | 3.3 | 5.0  | 10.0 | 18.4 | 25.1 | 33.5 | 43.5 | 50.2  | 56.9  | 63.6  |
| 132.5° | 1.7 | 3.3 | 5.0  | 10.0 | 15.1 | 21.8 | 30.1 | 38.5 | 45.2  | 51.9  | 56.9  |
| 135°   | 1.7 | 3.3 | 5.0  | 8.4  | 13.4 | 20.1 | 25.1 | 33.5 | 40.2  | 46.9  | 51.9  |
| 137.5° | 1.7 | 3.3 | 5.0  | 8.4  | 11.7 | 16.7 | 21.8 | 28.5 | 35.1  | 40.2  | 46.9  |
| 140°   | 1.7 | 3.3 | 5.0  | 6.7  | 10.0 | 15.1 | 20.1 | 23.4 | 30.1  | 35.1  | 40.2  |
| 142.5° | 1.7 | 3.3 | 5.0  | 6.7  | 10.0 | 13.4 | 16.7 | 20.1 | 25.1  | 30.1  | 35.1  |
| 145°   | 1.7 | 3.3 | 5.0  | 6.7  | 8.4  | 11.7 | 15.1 | 18.4 | 20.1  | 25.1  | 28.5  |
| 147.5° | 1.7 | 3.3 | 5.0  | 6.7  | 6.7  | 10.0 | 13.4 | 15.1 | 18.4  | 20.1  | 23.4  |
| 150°   | 1.7 | 3.3 | 5.0  | 5.0  | 6.7  | 8.4  | 11.7 | 13.4 | 15.1  | 18.4  | 20.1  |
| 152.5° | 1.7 | 3.3 | 5.0  | 5.0  | 6.7  | 8.4  | 10.0 | 11.7 | 13.4  | 15.1  | 16.7  |
| 155°   | 1.7 | 3.3 | 5.0  | 5.0  | 5.0  | 6.7  | 8.4  | 10.0 | 11.7  | 13.4  | 15.1  |
| 157.5° | 3.3 | 3.3 | 3.3  | 5.0  | 5.0  | 6.7  | 6.7  | 8.4  | 10.0  | 10.0  | 11.7  |
| 160°   | 3.3 | 3.3 | 3.3  | 5.0  | 5.0  | 5.0  | 6.7  | 6.7  | 8.4   | 8.4   | 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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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3024.2 | 3029.2 | 3044.3 | 3044.3 | 3040.9 | 3037.6 | 3037.6 | 3032.6 | 3035.9 | 3042.6 | 3039.2 |
| 5°     | 3024.2 | 3029.2 | 3044.3 | 3044.3 | 3040.9 | 3037.6 | 3035.9 | 3030.9 | 3035.9 | 3042.6 | 3039.2 |
| 7.5°   | 3014.1 | 3020.8 | 3035.9 | 3035.9 | 3032.6 | 3030.9 | 3027.5 | 3024.2 | 3029.2 | 3035.9 | 3032.6 |
| 10°    | 3000.8 | 3007.4 | 3022.5 | 3022.5 | 3019.2 | 3019.2 | 3014.1 | 3010.8 | 3017.5 | 3022.5 | 3020.8 |
| 12.5°  | 2980.7 | 2989.0 | 3002.4 | 3000.8 | 2997.4 | 2999.1 | 2994.1 | 2987.4 | 2994.1 | 2999.1 | 3000.8 |
| 15°    | 2952.2 | 2962.3 | 2975.6 | 2972.3 | 2967.3 | 2970.6 | 2962.3 | 2957.2 | 2962.3 | 2972.3 | 2970.6 |
| 17.5°  | 2915.4 | 2922.1 | 2932.1 | 2932.1 | 2927.1 | 2923.8 | 2920.4 | 2915.4 | 2918.7 | 2925.4 | 2927.1 |
| 20°    | 2863.5 | 2871.9 | 2876.9 | 2871.9 | 2870.2 | 2865.2 | 2858.5 | 2853.5 | 2860.2 | 2870.2 | 2871.9 |
| 22.5°  | 2794.9 | 2796.6 | 2808.3 | 2796.6 | 2788.2 | 2786.5 | 2779.8 | 2769.8 | 2779.8 | 2788.2 | 2789.9 |
| 25°    | 2709.5 | 2717.9 | 2712.9 | 2692.8 | 2692.8 | 2679.4 | 2676.1 | 2671.1 | 2672.7 | 2687.8 | 2694.5 |
| 27.5°  | 2600.8 | 2604.1 | 2590.7 | 2574.0 | 2558.9 | 2550.6 | 2538.8 | 2540.5 | 2540.5 | 2560.6 | 2567.3 |
| 30°    | 2481.9 | 2463.5 | 2451.8 | 2425.0 | 2413.3 | 2393.2 | 2389.9 | 2389.9 | 2386.5 | 2396.6 | 2426.7 |
| 32.5°  | 2339.7 | 2314.6 | 2296.2 | 2271.1 | 2251.0 | 2230.9 | 2220.9 | 2225.9 | 2224.2 | 2249.3 | 2259.4 |
| 35°    | 2184.0 | 2169.0 | 2130.5 | 2098.7 | 2087.0 | 2056.8 | 2056.8 | 2041.8 | 2051.8 | 2080.3 | 2092.0 |
| 37.5°  | 2020.0 | 1996.6 | 1964.8 | 1929.7 | 1921.3 | 1897.9 | 1889.5 | 1881.1 | 1902.9 | 1907.9 | 1919.6 |
| 40°    | 1852.7 | 1830.9 | 1800.8 | 1767.3 | 1767.3 | 1738.9 | 1738.9 | 1738.9 | 1740.5 | 1750.6 | 1772.3 |
| 42.5°  | 1693.7 | 1670.2 | 1643.5 | 1620.0 | 1616.7 | 1594.9 | 1594.9 | 1593.3 | 1596.6 | 1605.0 | 1625.1 |
| 45°    | 1539.7 | 1521.3 | 1492.8 | 1481.1 | 1482.8 | 1459.4 | 1464.4 | 1459.4 | 1466.1 | 1474.4 | 1481.1 |
| 47.5°  | 1397.5 | 1385.7 | 1374.0 | 1357.3 | 1352.3 | 1350.6 | 1342.2 | 1335.5 | 1347.2 | 1347.2 | 1357.3 |
| 50°    | 1265.2 | 1258.5 | 1251.8 | 1241.8 | 1243.5 | 1236.8 | 1226.7 | 1226.7 | 1235.1 | 1236.8 | 1243.5 |
| 52.5°  | 1149.8 | 1141.4 | 1133.0 | 1134.7 | 1136.4 | 1133.0 | 1128.0 | 1123.0 | 1128.0 | 1131.3 | 1139.7 |
| 55°    | 1034.3 | 1027.6 | 1036.0 | 1032.6 | 1036.0 | 1032.6 | 1029.3 | 1025.9 | 1034.3 | 1029.3 | 1037.6 |
| 57.5°  | 930.5  | 937.2  | 940.6  | 933.9  | 938.9  | 935.5  | 937.2  | 932.2  | 938.9  | 942.2  | 940.6  |
| 60°    | 835.1  | 845.2  | 840.1  | 841.8  | 848.5  | 845.2  | 838.5  | 843.5  | 850.2  | 851.9  | 850.2  |
| 62.5°  | 748.1  | 759.8  | 764.8  | 761.5  | 763.2  | 759.8  | 764.8  | 758.1  | 766.5  | 769.9  | 764.8  |
| 65°    | 669.4  | 682.8  | 686.2  | 686.2  | 686.2  | 682.8  | 687.8  | 689.5  | 692.9  | 692.9  | 689.5  |
| 67.5°  | 602.5  | 614.2  | 617.6  | 620.9  | 617.6  | 614.2  | 614.2  | 615.9  | 622.6  | 625.9  | 622.6  |
| 70°    | 542.2  | 554.0  | 555.6  | 555.6  | 557.3  | 560.7  | 554.0  | 557.3  | 562.3  | 564.0  | 562.3  |
| 72.5°  | 490.4  | 502.1  | 505.4  | 503.8  | 505.4  | 507.1  | 507.1  | 503.8  | 508.8  | 512.1  | 512.1  |
| 75°    | 448.5  | 455.2  | 458.6  | 458.6  | 460.2  | 461.9  | 461.9  | 460.2  | 463.6  | 465.3  | 466.9  |
| 77.5°  | 410.0  | 415.1  | 420.1  | 420.1  | 421.7  | 420.1  | 423.4  | 423.4  | 425.1  | 426.8  | 428.4  |
| 80°    | 371.5  | 378.2  | 381.6  | 383.3  | 386.6  | 388.3  | 388.3  | 388.3  | 389.9  | 391.6  | 391.6  |
| 82.5°  | 341.4  | 346.4  | 351.5  | 356.5  | 356.5  | 358.1  | 358.1  | 358.1  | 359.8  | 359.8  | 361.5  |
| 85°    | 311.3  | 318.0  | 323.0  | 326.4  | 328.0  | 329.7  | 329.7  | 331.4  | 331.4  | 331.4  | 333.0  |
| 87.5°  | 284.5  | 292.9  | 296.2  | 299.6  | 301.2  | 304.6  | 304.6  | 304.6  | 306.3  | 306.3  | 306.3  |
| 90°    | 266.1  | 274.5  | 277.8  | 281.2  | 282.8  | 284.5  | 284.5  | 286.2  | 286.2  | 287.9  | 287.9  |
| 92.5°  | 244.3  | 252.7  | 259.4  | 259.4  | 261.1  | 264.4  | 262.8  | 262.8  | 264.4  | 266.1  | 266.1  |
| 95°    | 227.6  | 234.3  | 239.3  | 241.0  | 242.7  | 242.7  | 242.7  | 244.3  | 242.7  | 244.3  | 244.3  |
| 97.5°  | 207.5  | 214.2  | 219.2  | 222.6  | 224.3  | 224.3  | 224.3  | 225.9  | 224.3  | 225.9  | 225.9  |
| 100°   | 190.8  | 197.5  | 202.5  | 204.2  | 207.5  | 207.5  | 207.5  | 207.5  | 207.5  | 207.5  | 209.2  |
| 102.5° | 177.4  | 184.1  | 187.4  | 189.1  | 190.8  | 192.5  | 192.5  | 192.5  | 192.5  | 194.1  | 194.1  |
| 105°   | 164.0  | 170.7  | 174.1  | 175.7  | 177.4  | 179.1  | 179.1  | 179.1  | 180.7  | 180.7  | 179.1  |
| 107.5° | 152.3  | 157.3  | 160.7  | 164.0  | 165.7  | 165.7  | 167.4  | 167.4  | 167.4  | 167.4  | 167.4  |
| 110°   | 140.6  | 145.6  | 150.6  | 154.0  | 154.0  | 155.6  | 155.6  | 157.3  | 157.3  | 155.6  | 157.3  |

TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 128.9 | 135.6 | 138.9 | 142.3 | 143.9 | 145.6 | 145.6 | 145.6 | 145.6 | 145.6 | 145.6 |
| 115°   | 118.8 | 125.5 | 128.9 | 132.2 | 133.9 | 135.6 | 135.6 | 135.6 | 135.6 | 135.6 | 135.6 |
| 117.5° | 110.5 | 117.2 | 120.5 | 122.2 | 123.8 | 125.5 | 127.2 | 127.2 | 127.2 | 127.2 | 125.5 |
| 120°   | 102.1 | 107.1 | 110.5 | 113.8 | 115.5 | 117.2 | 117.2 | 117.2 | 117.2 | 117.2 | 117.2 |
| 122.5° | 93.7  | 98.7  | 102.1 | 105.4 | 107.1 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 |
| 125°   | 85.4  | 90.4  | 93.7  | 97.1  | 98.7  | 100.4 | 100.4 | 100.4 | 100.4 | 100.4 | 100.4 |
| 127.5° | 77.0  | 82.0  | 87.0  | 88.7  | 90.4  | 92.0  | 92.0  | 92.0  | 93.7  | 92.0  | 92.0  |
| 130°   | 68.6  | 73.6  | 78.7  | 80.3  | 82.0  | 83.7  | 85.4  | 85.4  | 85.4  | 85.4  | 83.7  |
| 132.5° | 61.9  | 66.9  | 70.3  | 72.0  | 75.3  | 75.3  | 77.0  | 77.0  | 77.0  | 77.0  | 75.3  |
| 135°   | 56.9  | 60.2  | 63.6  | 65.3  | 68.6  | 68.6  | 68.6  | 70.3  | 70.3  | 68.6  | 66.9  |
| 137.5° | 50.2  | 53.6  | 56.9  | 58.6  | 60.2  | 61.9  | 61.9  | 63.6  | 61.9  | 61.9  | 61.9  |
| 140°   | 46.9  | 48.5  | 51.9  | 53.6  | 55.2  | 55.2  | 55.2  | 56.9  | 56.9  | 55.2  | 55.2  |
| 142.5° | 40.2  | 43.5  | 46.9  | 48.5  | 50.2  | 50.2  | 50.2  | 50.2  | 50.2  | 50.2  | 50.2  |
| 145°   | 33.5  | 38.5  | 40.2  | 43.5  | 43.5  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 43.5  |
| 147.5° | 28.5  | 31.8  | 36.8  | 38.5  | 38.5  | 40.2  | 40.2  | 40.2  | 40.2  | 40.2  | 38.5  |
| 150°   | 21.8  | 25.1  | 30.1  | 33.5  | 33.5  | 35.1  | 35.1  | 35.1  | 35.1  | 33.5  | 33.5  |
| 152.5° | 18.4  | 21.8  | 23.4  | 26.8  | 28.5  | 28.5  | 28.5  | 30.1  | 28.5  | 28.5  | 28.5  |
| 155°   | 16.7  | 18.4  | 20.1  | 21.8  | 23.4  | 25.1  | 25.1  | 25.1  | 25.1  | 23.4  | 23.4  |
| 157.5° | 13.4  | 15.1  | 16.7  | 18.4  | 20.1  | 21.8  | 21.8  | 21.8  | 21.8  | 21.8  | 20.1  |
| 160°   | 10.0  | 11.7  | 13.4  | 13.4  | 15.1  | 16.7  | 18.4  | 16.7  | 16.7  | 16.7  | 16.7  |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3035.9 | 3034.2 | 3039.2 | 3030.9 | 3005.8 | 3012.5 | 3009.1 | 3024.2 | 3027.5 | 3030.9 | 3045.9 |
| 5°     | 3035.9 | 3034.2 | 3037.6 | 3030.9 | 3004.1 | 3009.1 | 3005.8 | 3020.8 | 3024.2 | 3025.9 | 3040.9 |
| 7.5°   | 3029.2 | 3027.5 | 3032.6 | 3024.2 | 2995.7 | 3002.4 | 2997.4 | 3012.5 | 3014.1 | 3015.8 | 3029.2 |
| 10°    | 3015.8 | 3014.1 | 3017.5 | 3010.8 | 2982.3 | 2989.0 | 2982.3 | 2997.4 | 2997.4 | 3000.8 | 3010.8 |
| 12.5°  | 2995.7 | 2992.4 | 2999.1 | 2990.7 | 2958.9 | 2967.3 | 2963.9 | 2974.0 | 2975.6 | 2977.3 | 2987.4 |
| 15°    | 2967.3 | 2963.9 | 2969.0 | 2963.9 | 2935.5 | 2937.2 | 2932.1 | 2947.2 | 2948.9 | 2945.5 | 2955.6 |
| 17.5°  | 2925.4 | 2922.1 | 2932.1 | 2928.8 | 2900.3 | 2907.0 | 2905.4 | 2908.7 | 2913.7 | 2905.4 | 2918.7 |
| 20°    | 2873.6 | 2876.9 | 2880.3 | 2881.9 | 2860.2 | 2860.2 | 2858.5 | 2865.2 | 2870.2 | 2863.5 | 2873.6 |
| 22.5°  | 2796.6 | 2804.9 | 2815.0 | 2818.3 | 2803.3 | 2801.6 | 2811.6 | 2808.3 | 2813.3 | 2810.0 | 2816.7 |
| 25°    | 2699.5 | 2716.2 | 2726.3 | 2736.3 | 2728.0 | 2731.3 | 2746.4 | 2749.7 | 2749.7 | 2748.0 | 2754.7 |
| 27.5°  | 2579.0 | 2600.8 | 2619.2 | 2640.9 | 2632.6 | 2639.3 | 2664.4 | 2667.7 | 2674.4 | 2667.7 | 2681.1 |
| 30°    | 2435.1 | 2455.2 | 2490.3 | 2522.1 | 2525.5 | 2535.5 | 2570.6 | 2574.0 | 2592.4 | 2585.7 | 2590.7 |
| 32.5°  | 2291.1 | 2301.2 | 2341.4 | 2373.2 | 2393.2 | 2418.3 | 2456.8 | 2463.5 | 2488.6 | 2493.7 | 2493.7 |
| 35°    | 2110.4 | 2138.9 | 2175.7 | 2220.9 | 2246.0 | 2272.7 | 2324.6 | 2334.7 | 2371.5 | 2383.2 | 2396.6 |
| 37.5°  | 1958.1 | 1984.9 | 2008.3 | 2055.2 | 2100.4 | 2130.5 | 2172.3 | 2197.4 | 2235.9 | 2257.7 | 2274.4 |
| 40°    | 1795.8 | 1817.5 | 1842.6 | 1889.5 | 1928.0 | 1973.2 | 2015.0 | 2045.1 | 2093.7 | 2118.8 | 2140.5 |
| 42.5°  | 1641.8 | 1658.5 | 1685.3 | 1718.8 | 1758.9 | 1809.2 | 1849.3 | 1884.5 | 1936.3 | 1971.5 | 1996.6 |
| 45°    | 1504.6 | 1514.6 | 1538.0 | 1563.1 | 1598.3 | 1650.2 | 1688.7 | 1733.8 | 1775.7 | 1812.5 | 1842.6 |
| 47.5°  | 1375.7 | 1389.1 | 1400.8 | 1417.5 | 1449.3 | 1481.1 | 1526.3 | 1569.8 | 1611.7 | 1651.8 | 1682.0 |
| 50°    | 1256.9 | 1256.9 | 1275.3 | 1287.0 | 1308.7 | 1337.2 | 1372.3 | 1402.5 | 1454.4 | 1482.8 | 1521.3 |
| 52.5°  | 1141.4 | 1148.1 | 1158.1 | 1164.8 | 1181.6 | 1200.0 | 1228.4 | 1253.5 | 1297.0 | 1323.8 | 1360.6 |
| 55°    | 1039.3 | 1046.0 | 1051.0 | 1054.4 | 1064.4 | 1086.2 | 1096.2 | 1116.3 | 1146.4 | 1168.2 | 1200.0 |
| 57.5°  | 942.2  | 945.6  | 950.6  | 952.3  | 953.9  | 967.3  | 975.7  | 980.7  | 1010.9 | 1032.6 | 1059.4 |
| 60°    | 853.5  | 853.5  | 858.6  | 856.9  | 855.2  | 861.9  | 860.2  | 865.2  | 883.7  | 897.0  | 908.8  |
| 62.5°  | 769.9  | 769.9  | 771.5  | 768.2  | 766.5  | 766.5  | 759.8  | 764.8  | 769.9  | 771.5  | 779.9  |
| 65°    | 692.9  | 701.2  | 694.5  | 696.2  | 686.2  | 682.8  | 679.5  | 669.4  | 667.8  | 661.1  | 664.4  |
| 67.5°  | 624.3  | 630.9  | 624.3  | 624.3  | 615.9  | 609.2  | 600.8  | 584.1  | 579.1  | 565.7  | 562.3  |
| 70°    | 569.0  | 564.0  | 567.3  | 562.3  | 552.3  | 543.9  | 532.2  | 518.8  | 502.1  | 485.3  | 473.6  |
| 72.5°  | 515.5  | 515.5  | 512.1  | 507.1  | 502.1  | 485.3  | 472.0  | 456.9  | 436.8  | 415.1  | 398.3  |
| 75°    | 463.6  | 465.3  | 465.3  | 460.2  | 451.9  | 436.8  | 421.7  | 400.0  | 378.2  | 353.1  | 331.4  |
| 77.5°  | 426.8  | 426.8  | 426.8  | 418.4  | 410.0  | 396.6  | 378.2  | 354.8  | 331.4  | 301.2  | 276.1  |
| 80°    | 391.6  | 389.9  | 389.9  | 379.9  | 371.5  | 356.5  | 338.1  | 314.6  | 289.5  | 257.7  | 229.3  |
| 82.5°  | 363.2  | 361.5  | 358.1  | 349.8  | 338.1  | 323.0  | 304.6  | 279.5  | 252.7  | 224.3  | 189.1  |
| 85°    | 333.0  | 331.4  | 328.0  | 319.7  | 307.9  | 294.6  | 274.5  | 249.4  | 222.6  | 190.8  | 157.3  |
| 87.5°  | 306.3  | 304.6  | 299.6  | 294.6  | 281.2  | 266.1  | 246.0  | 222.6  | 194.1  | 164.0  | 130.5  |
| 90°    | 287.9  | 284.5  | 281.2  | 274.5  | 262.8  | 246.0  | 225.9  | 200.8  | 172.4  | 142.3  | 108.8  |
| 92.5°  | 266.1  | 264.4  | 259.4  | 252.7  | 242.7  | 225.9  | 205.9  | 182.4  | 154.0  | 125.5  | 93.7   |
| 95°    | 244.3  | 242.7  | 239.3  | 232.6  | 222.6  | 207.5  | 189.1  | 165.7  | 138.9  | 110.5  | 82.0   |
| 97.5°  | 224.3  | 224.3  | 219.2  | 214.2  | 202.5  | 190.8  | 172.4  | 150.6  | 125.5  | 100.4  | 73.6   |
| 100°   | 207.5  | 207.5  | 202.5  | 195.8  | 187.4  | 175.7  | 157.3  | 137.2  | 113.8  | 90.4   | 63.6   |
| 102.5° | 192.5  | 190.8  | 187.4  | 180.7  | 172.4  | 160.7  | 143.9  | 125.5  | 103.8  | 80.3   | 56.9   |
| 105°   | 179.1  | 177.4  | 174.1  | 167.4  | 160.7  | 147.3  | 133.9  | 115.5  | 93.7   | 72.0   | 50.2   |
| 107.5° | 165.7  | 164.0  | 162.3  | 155.6  | 147.3  | 135.6  | 122.2  | 103.8  | 85.4   | 65.3   | 45.2   |
| 110°   | 154.0  | 152.3  | 148.9  | 142.3  | 133.9  | 123.8  | 110.5  | 95.4   | 77.0   | 58.6   | 40.2   |

TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 112.5° | 143.9 | 142.3 | 138.9 | 132.2 | 125.5 | 113.8 | 102.1 | 85.4 | 70.3 | 53.6 | 35.1 |
| 115°   | 133.9 | 132.2 | 128.9 | 122.2 | 113.8 | 103.8 | 92.0  | 78.7 | 61.9 | 46.9 | 31.8 |
| 117.5° | 123.8 | 122.2 | 118.8 | 113.8 | 105.4 | 95.4  | 83.7  | 70.3 | 55.2 | 43.5 | 28.5 |
| 120°   | 115.5 | 112.1 | 108.8 | 103.8 | 95.4  | 87.0  | 75.3  | 63.6 | 50.2 | 38.5 | 25.1 |
| 122.5° | 107.1 | 103.8 | 100.4 | 95.4  | 87.0  | 78.7  | 66.9  | 56.9 | 46.9 | 35.1 | 23.4 |
| 125°   | 97.1  | 95.4  | 92.0  | 87.0  | 78.7  | 70.3  | 61.9  | 51.9 | 41.8 | 31.8 | 20.1 |
| 127.5° | 88.7  | 87.0  | 83.7  | 77.0  | 70.3  | 63.6  | 55.2  | 46.9 | 36.8 | 26.8 | 18.4 |
| 130°   | 82.0  | 78.7  | 75.3  | 70.3  | 65.3  | 58.6  | 50.2  | 41.8 | 33.5 | 23.4 | 16.7 |
| 132.5° | 73.6  | 70.3  | 66.9  | 63.6  | 58.6  | 51.9  | 45.2  | 36.8 | 30.1 | 21.8 | 15.1 |
| 135°   | 66.9  | 63.6  | 60.2  | 56.9  | 51.9  | 46.9  | 40.2  | 33.5 | 26.8 | 20.1 | 13.4 |
| 137.5° | 58.6  | 56.9  | 55.2  | 51.9  | 46.9  | 41.8  | 36.8  | 28.5 | 23.4 | 18.4 | 11.7 |
| 140°   | 53.6  | 51.9  | 50.2  | 45.2  | 41.8  | 36.8  | 31.8  | 25.1 | 20.1 | 15.1 | 10.0 |
| 142.5° | 48.5  | 46.9  | 43.5  | 40.2  | 36.8  | 33.5  | 26.8  | 23.4 | 18.4 | 13.4 | 10.0 |
| 145°   | 41.8  | 40.2  | 38.5  | 35.1  | 31.8  | 26.8  | 23.4  | 20.1 | 16.7 | 11.7 | 8.4  |
| 147.5° | 38.5  | 36.8  | 33.5  | 30.1  | 26.8  | 23.4  | 21.8  | 18.4 | 13.4 | 10.0 | 6.7  |
| 150°   | 31.8  | 30.1  | 28.5  | 25.1  | 23.4  | 21.8  | 18.4  | 15.1 | 11.7 | 8.4  | 6.7  |
| 152.5° | 26.8  | 25.1  | 23.4  | 23.4  | 20.1  | 18.4  | 15.1  | 13.4 | 10.0 | 8.4  | 5.0  |
| 155°   | 23.4  | 23.4  | 21.8  | 20.1  | 16.7  | 15.1  | 13.4  | 10.0 | 8.4  | 6.7  | 5.0  |
| 157.5° | 20.1  | 18.4  | 16.7  | 16.7  | 15.1  | 13.4  | 10.0  | 8.4  | 6.7  | 6.7  | 5.0  |
| 160°   | 16.7  | 15.1  | 15.1  | 13.4  | 11.7  | 10.0  | 8.4   | 8.4  | 6.7  | 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: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3047.6 | 3029.2 | 3045.9 | 3067.7 | 3067.7 | 3064.3 | 3061.0 | 3067.7 | 3084.4 | 3077.7 | 3057.7 |
| 5°     | 3042.6 | 3024.2 | 3039.2 | 3061.0 | 3061.0 | 3056.0 | 3052.6 | 3057.7 | 3076.1 | 3067.7 | 3049.3 |
| 7.5°   | 3032.6 | 3015.8 | 3025.9 | 3045.9 | 3045.9 | 3040.9 | 3037.6 | 3044.3 | 3059.3 | 3051.0 | 3030.9 |
| 10°    | 3014.1 | 2995.7 | 3007.4 | 3025.9 | 3024.2 | 3020.8 | 3015.8 | 3024.2 | 3037.6 | 3025.9 | 3002.4 |
| 12.5°  | 2990.7 | 2972.3 | 2982.3 | 2999.1 | 2997.4 | 2990.7 | 2987.4 | 2992.4 | 3004.1 | 2997.4 | 2972.3 |
| 15°    | 2958.9 | 2940.5 | 2948.9 | 2965.6 | 2960.6 | 2955.6 | 2948.9 | 2950.5 | 2965.6 | 2953.9 | 2927.1 |
| 17.5°  | 2920.4 | 2900.3 | 2907.0 | 2922.1 | 2917.1 | 2912.1 | 2903.7 | 2905.4 | 2922.1 | 2905.4 | 2876.9 |
| 20°    | 2873.6 | 2851.8 | 2856.8 | 2875.2 | 2866.9 | 2858.5 | 2850.1 | 2850.1 | 2866.9 | 2848.5 | 2816.7 |
| 22.5°  | 2823.4 | 2801.6 | 2804.9 | 2818.3 | 2811.6 | 2796.6 | 2788.2 | 2793.2 | 2801.6 | 2778.2 | 2744.7 |
| 25°    | 2761.4 | 2733.0 | 2738.0 | 2751.4 | 2746.4 | 2726.3 | 2717.9 | 2721.3 | 2717.9 | 2699.5 | 2664.4 |
| 27.5°  | 2689.5 | 2659.3 | 2662.7 | 2671.1 | 2664.4 | 2646.0 | 2635.9 | 2637.6 | 2630.9 | 2607.5 | 2567.3 |
| 30°    | 2599.1 | 2584.0 | 2582.4 | 2587.4 | 2577.3 | 2558.9 | 2547.2 | 2543.9 | 2542.2 | 2508.7 | 2460.2 |
| 32.5°  | 2507.0 | 2493.7 | 2485.3 | 2492.0 | 2480.3 | 2461.9 | 2441.8 | 2441.8 | 2425.0 | 2393.2 | 2351.4 |
| 35°    | 2413.3 | 2391.6 | 2383.2 | 2388.2 | 2374.8 | 2351.4 | 2334.7 | 2326.3 | 2301.2 | 2261.0 | 2215.8 |
| 37.5°  | 2292.8 | 2277.8 | 2267.7 | 2272.7 | 2257.7 | 2240.9 | 2209.1 | 2200.8 | 2174.0 | 2118.8 | 2061.9 |
| 40°    | 2162.3 | 2150.6 | 2140.5 | 2145.5 | 2128.8 | 2103.7 | 2075.3 | 2061.9 | 2031.7 | 1969.8 | 1924.6 |
| 42.5°  | 2021.7 | 2016.7 | 2005.0 | 2023.4 | 1989.9 | 1964.8 | 1936.3 | 1914.6 | 1884.5 | 1817.5 | 1765.6 |
| 45°    | 1872.8 | 1884.5 | 1857.7 | 1862.7 | 1841.0 | 1819.2 | 1789.1 | 1757.3 | 1727.1 | 1663.6 | 1605.0 |
| 47.5°  | 1715.4 | 1723.8 | 1705.4 | 1708.7 | 1685.3 | 1665.2 | 1638.4 | 1598.3 | 1564.8 | 1509.6 | 1457.7 |
| 50°    | 1553.1 | 1549.7 | 1549.7 | 1546.4 | 1528.0 | 1502.9 | 1476.1 | 1439.3 | 1405.8 | 1355.6 | 1312.1 |
| 52.5°  | 1380.7 | 1387.4 | 1390.8 | 1399.1 | 1375.7 | 1360.6 | 1318.8 | 1287.0 | 1261.9 | 1210.0 | 1173.2 |
| 55°    | 1215.0 | 1238.5 | 1231.8 | 1235.1 | 1208.3 | 1196.6 | 1163.1 | 1138.0 | 1101.2 | 1071.1 | 1047.7 |
| 57.5°  | 1064.4 | 1069.4 | 1072.8 | 1077.8 | 1066.1 | 1042.6 | 1015.9 | 995.8  | 967.3  | 942.2  | 925.5  |
| 60°    | 918.8  | 918.8  | 920.5  | 928.8  | 917.1  | 897.0  | 877.0  | 861.9  | 841.8  | 826.8  | 816.7  |
| 62.5°  | 781.6  | 793.3  | 795.0  | 788.3  | 773.2  | 763.2  | 749.8  | 741.4  | 728.0  | 723.0  | 719.6  |
| 65°    | 654.4  | 654.4  | 654.4  | 657.7  | 649.4  | 642.7  | 634.3  | 632.6  | 637.6  | 630.9  | 634.3  |
| 67.5°  | 547.3  | 542.2  | 538.9  | 540.6  | 537.2  | 533.9  | 532.2  | 537.2  | 547.3  | 547.3  | 555.6  |
| 70°    | 455.2  | 445.2  | 438.5  | 438.5  | 438.5  | 440.2  | 445.2  | 455.2  | 472.0  | 478.6  | 490.4  |
| 72.5°  | 379.9  | 358.1  | 348.1  | 348.1  | 349.8  | 356.5  | 371.5  | 389.9  | 405.0  | 418.4  | 433.5  |
| 75°    | 307.9  | 286.2  | 271.1  | 269.4  | 272.8  | 282.8  | 304.6  | 321.3  | 346.4  | 364.8  | 383.3  |
| 77.5°  | 249.4  | 222.6  | 204.2  | 202.5  | 207.5  | 222.6  | 249.4  | 271.1  | 299.6  | 319.7  | 339.7  |
| 80°    | 199.2  | 169.0  | 154.0  | 143.9  | 152.3  | 170.7  | 200.8  | 227.6  | 254.4  | 281.2  | 306.3  |
| 82.5°  | 159.0  | 130.5  | 107.1  | 97.1   | 107.1  | 132.2  | 160.7  | 192.5  | 219.2  | 247.7  | 272.8  |
| 85°    | 125.5  | 95.4   | 68.6   | 58.6   | 70.3   | 97.1   | 128.9  | 160.7  | 190.8  | 219.2  | 244.3  |
| 87.5°  | 98.7   | 68.6   | 41.8   | 28.5   | 43.5   | 72.0   | 102.1  | 133.9  | 165.7  | 194.1  | 219.2  |
| 90°    | 77.0   | 48.5   | 23.4   | 3.3    | 25.1   | 51.9   | 82.0   | 112.1  | 143.9  | 172.4  | 197.5  |
| 92.5°  | 65.3   | 36.8   | 13.4   | 0.0    | 15.1   | 38.5   | 66.9   | 97.1   | 125.5  | 154.0  | 179.1  |
| 95°    | 55.2   | 30.1   | 10.0   | 0.0    | 10.0   | 30.1   | 55.2   | 82.0   | 110.5  | 138.9  | 164.0  |
| 97.5°  | 46.9   | 23.4   | 6.7    | 0.0    | 6.7    | 23.4   | 45.2   | 72.0   | 97.1   | 123.8  | 147.3  |
| 100°   | 40.2   | 20.1   | 5.0    | 0.0    | 5.0    | 18.4   | 38.5   | 61.9   | 87.0   | 112.1  | 133.9  |
| 102.5° | 35.1   | 16.7   | 3.3    | 0.0    | 3.3    | 15.1   | 31.8   | 53.6   | 75.3   | 98.7   | 120.5  |
| 105°   | 30.1   | 13.4   | 3.3    | 0.0    | 1.7    | 11.7   | 26.8   | 46.9   | 66.9   | 88.7   | 108.8  |
| 107.5° | 26.8   | 11.7   | 3.3    | 0.0    | 1.7    | 10.0   | 23.4   | 40.2   | 60.2   | 78.7   | 97.1   |
| 110°   | 23.4   | 10.0   | 3.3    | 0.0    | 1.7    | 6.7    | 20.1   | 35.1   | 51.9   | 70.3   | 88.7   |

TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 20.1 | 8.4  | 1.7  | 0.0  | 0.0  | 5.0  | 16.7 | 30.1 | 45.2 | 63.6 | 78.7 |
| 115°   | 18.4 | 8.4  | 1.7  | 0.0  | 0.0  | 3.3  | 13.4 | 26.8 | 40.2 | 56.9 | 70.3 |
| 117.5° | 16.7 | 6.7  | 1.7  | 0.0  | 1.7  | 3.3  | 11.7 | 23.4 | 35.1 | 48.5 | 63.6 |
| 120°   | 15.1 | 6.7  | 1.7  | 0.0  | 1.7  | 1.7  | 8.4  | 20.1 | 30.1 | 43.5 | 55.2 |
| 122.5° | 13.4 | 6.7  | 1.7  | 0.0  | 1.7  | 1.7  | 6.7  | 16.7 | 26.8 | 38.5 | 48.5 |
| 125°   | 11.7 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 5.0  | 13.4 | 23.4 | 31.8 | 43.5 |
| 127.5° | 11.7 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 3.3  | 11.7 | 18.4 | 28.5 | 38.5 |
| 130°   | 10.0 | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 8.4  | 16.7 | 23.4 | 31.8 |
| 132.5° | 8.4  | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 5.0  | 11.7 | 20.1 | 26.8 |
| 135°   | 8.4  | 5.0  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 8.4  | 15.1 | 21.8 |
| 137.5° | 6.7  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 6.7  | 11.7 | 16.7 |
| 140°   | 6.7  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 5.0  | 8.4  | 13.4 |
| 142.5° | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 6.7  | 10.0 |
| 145°   | 5.0  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 3.3  | 6.7  |
| 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: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3051.0 | 3019.2 | 3035.9 | 3030.9 | 3037.6 | 3051.0 | 3049.3 | 3045.9 | 3045.9 | 3040.9 | 3034.2 |
| 5°     | 3040.9 | 3010.8 | 3025.9 | 3017.5 | 3025.9 | 3037.6 | 3035.9 | 3030.9 | 3034.2 | 3025.9 | 3017.5 |
| 7.5°   | 3020.8 | 2994.1 | 3007.4 | 3000.8 | 3007.4 | 3019.2 | 3014.1 | 3012.5 | 3015.8 | 3002.4 | 2997.4 |
| 10°    | 2997.4 | 2967.3 | 2982.3 | 2974.0 | 2982.3 | 2990.7 | 2987.4 | 2980.7 | 2987.4 | 2974.0 | 2969.0 |
| 12.5°  | 2960.6 | 2935.5 | 2945.5 | 2942.2 | 2947.2 | 2955.6 | 2948.9 | 2943.8 | 2947.2 | 2935.5 | 2925.4 |
| 15°    | 2920.4 | 2895.3 | 2903.7 | 2898.7 | 2902.0 | 2912.1 | 2900.3 | 2898.7 | 2895.3 | 2883.6 | 2880.3 |
| 17.5°  | 2868.5 | 2845.1 | 2853.5 | 2845.1 | 2850.1 | 2846.8 | 2845.1 | 2836.7 | 2836.7 | 2823.4 | 2813.3 |
| 20°    | 2804.9 | 2784.9 | 2779.8 | 2773.1 | 2779.8 | 2773.1 | 2763.1 | 2756.4 | 2754.7 | 2741.3 | 2733.0 |
| 22.5°  | 2731.3 | 2707.9 | 2711.2 | 2692.8 | 2694.5 | 2684.4 | 2667.7 | 2661.0 | 2654.3 | 2639.3 | 2627.5 |
| 25°    | 2642.6 | 2619.2 | 2602.4 | 2590.7 | 2575.7 | 2574.0 | 2552.2 | 2535.5 | 2533.8 | 2515.4 | 2513.7 |
| 27.5°  | 2542.2 | 2515.4 | 2502.0 | 2473.6 | 2455.2 | 2440.1 | 2421.7 | 2405.0 | 2396.6 | 2376.5 | 2363.1 |
| 30°    | 2426.7 | 2396.6 | 2363.1 | 2343.0 | 2314.6 | 2302.9 | 2271.1 | 2251.0 | 2244.3 | 2222.5 | 2212.5 |
| 32.5°  | 2296.2 | 2264.4 | 2237.6 | 2199.1 | 2167.3 | 2150.6 | 2118.8 | 2098.7 | 2090.3 | 2066.9 | 2053.5 |
| 35°    | 2153.9 | 2118.8 | 2087.0 | 2050.2 | 2025.0 | 1996.6 | 1958.1 | 1938.0 | 1919.6 | 1911.2 | 1901.2 |
| 37.5°  | 2005.0 | 1966.5 | 1929.7 | 1892.8 | 1871.1 | 1837.6 | 1804.1 | 1790.7 | 1769.0 | 1760.6 | 1750.6 |
| 40°    | 1851.0 | 1812.5 | 1777.4 | 1742.2 | 1717.1 | 1687.0 | 1656.9 | 1651.8 | 1628.4 | 1620.0 | 1613.3 |
| 42.5°  | 1698.7 | 1658.5 | 1618.4 | 1593.3 | 1574.9 | 1544.7 | 1524.6 | 1519.6 | 1499.5 | 1494.5 | 1494.5 |
| 45°    | 1561.5 | 1511.3 | 1477.8 | 1456.0 | 1441.0 | 1415.9 | 1399.1 | 1395.8 | 1379.0 | 1375.7 | 1375.7 |
| 47.5°  | 1414.2 | 1367.3 | 1342.2 | 1328.8 | 1315.4 | 1297.0 | 1287.0 | 1287.0 | 1270.3 | 1266.9 | 1265.2 |
| 50°    | 1277.0 | 1233.4 | 1215.0 | 1201.6 | 1200.0 | 1186.6 | 1178.2 | 1174.9 | 1174.9 | 1163.1 | 1164.8 |
| 52.5°  | 1146.4 | 1124.7 | 1109.6 | 1101.2 | 1091.2 | 1082.8 | 1076.1 | 1076.1 | 1071.1 | 1062.7 | 1066.1 |
| 55°    | 1025.9 | 1000.8 | 1002.5 | 995.8  | 990.8  | 985.7  | 987.4  | 977.4  | 975.7  | 969.0  | 974.0  |
| 57.5°  | 905.4  | 905.4  | 902.1  | 897.0  | 888.7  | 892.0  | 892.0  | 892.0  | 883.7  | 878.6  | 883.7  |
| 60°    | 803.3  | 808.3  | 800.0  | 805.0  | 801.7  | 803.3  | 800.0  | 800.0  | 795.0  | 793.3  | 795.0  |
| 62.5°  | 713.0  | 721.3  | 718.0  | 724.7  | 721.3  | 723.0  | 726.3  | 719.6  | 716.3  | 713.0  | 716.3  |
| 65°    | 632.6  | 642.7  | 641.0  | 646.0  | 647.7  | 649.4  | 651.0  | 647.7  | 644.3  | 641.0  | 639.3  |
| 67.5°  | 562.3  | 572.4  | 579.1  | 580.7  | 582.4  | 587.4  | 585.8  | 582.4  | 579.1  | 574.0  | 572.4  |
| 70°    | 498.7  | 512.1  | 520.5  | 523.8  | 530.5  | 527.2  | 527.2  | 525.5  | 522.2  | 517.1  | 515.5  |
| 72.5°  | 445.2  | 460.2  | 468.6  | 472.0  | 478.6  | 478.6  | 477.0  | 475.3  | 472.0  | 466.9  | 465.3  |
| 75°    | 398.3  | 411.7  | 423.4  | 430.1  | 435.1  | 435.1  | 433.5  | 431.8  | 428.4  | 425.1  | 423.4  |
| 77.5°  | 361.5  | 373.2  | 383.3  | 391.6  | 395.0  | 396.6  | 395.0  | 391.6  | 391.6  | 389.9  | 388.3  |
| 80°    | 324.7  | 338.1  | 348.1  | 356.5  | 361.5  | 361.5  | 359.8  | 361.5  | 358.1  | 356.5  | 354.8  |
| 82.5°  | 292.9  | 307.9  | 319.7  | 328.0  | 331.4  | 333.0  | 331.4  | 333.0  | 329.7  | 329.7  | 329.7  |
| 85°    | 264.4  | 279.5  | 292.9  | 299.6  | 304.6  | 306.3  | 306.3  | 306.3  | 304.6  | 304.6  | 304.6  |
| 87.5°  | 241.0  | 256.1  | 269.4  | 276.1  | 281.2  | 282.8  | 282.8  | 284.5  | 281.2  | 281.2  | 281.2  |
| 90°    | 219.2  | 234.3  | 247.7  | 254.4  | 259.4  | 262.8  | 262.8  | 264.4  | 262.8  | 261.1  | 261.1  |
| 92.5°  | 199.2  | 215.9  | 229.3  | 236.0  | 241.0  | 246.0  | 246.0  | 247.7  | 244.3  | 244.3  | 244.3  |
| 95°    | 182.4  | 199.2  | 210.9  | 219.2  | 224.3  | 227.6  | 229.3  | 229.3  | 227.6  | 227.6  | 227.6  |
| 97.5°  | 167.4  | 182.4  | 194.1  | 202.5  | 207.5  | 209.2  | 210.9  | 212.5  | 210.9  | 210.9  | 210.9  |
| 100°   | 152.3  | 167.4  | 179.1  | 185.8  | 192.5  | 194.1  | 195.8  | 197.5  | 197.5  | 195.8  | 195.8  |
| 102.5° | 138.9  | 154.0  | 164.0  | 172.4  | 177.4  | 180.7  | 182.4  | 182.4  | 182.4  | 182.4  | 182.4  |
| 105°   | 125.5  | 140.6  | 150.6  | 159.0  | 164.0  | 167.4  | 169.0  | 170.7  | 170.7  | 169.0  | 169.0  |
| 107.5° | 113.8  | 127.2  | 138.9  | 145.6  | 152.3  | 155.6  | 157.3  | 157.3  | 159.0  | 157.3  | 157.3  |
| 110°   | 102.1  | 117.2  | 127.2  | 133.9  | 140.6  | 143.9  | 145.6  | 147.3  | 147.3  | 147.3  | 147.3  |



TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 93.7 | 105.4 | 115.5 | 122.2 | 128.9 | 132.2 | 133.9 | 135.6 | 137.2 | 135.6 | 135.6 |
| 115°   | 83.7 | 95.4  | 105.4 | 112.1 | 117.2 | 120.5 | 123.8 | 125.5 | 125.5 | 127.2 | 125.5 |
| 117.5° | 75.3 | 85.4  | 95.4  | 102.1 | 107.1 | 112.1 | 113.8 | 115.5 | 117.2 | 115.5 | 115.5 |
| 120°   | 66.9 | 77.0  | 85.4  | 92.0  | 97.1  | 102.1 | 103.8 | 105.4 | 107.1 | 105.4 | 105.4 |
| 122.5° | 60.2 | 68.6  | 77.0  | 83.7  | 88.7  | 92.0  | 95.4  | 95.4  | 97.1  | 97.1  | 97.1  |
| 125°   | 53.6 | 61.9  | 68.6  | 75.3  | 80.3  | 83.7  | 85.4  | 87.0  | 87.0  | 88.7  | 88.7  |
| 127.5° | 46.9 | 53.6  | 61.9  | 66.9  | 72.0  | 75.3  | 77.0  | 78.7  | 78.7  | 80.3  | 80.3  |
| 130°   | 40.2 | 46.9  | 53.6  | 58.6  | 63.6  | 66.9  | 68.6  | 70.3  | 72.0  | 72.0  | 72.0  |
| 132.5° | 35.1 | 41.8  | 46.9  | 51.9  | 55.2  | 58.6  | 61.9  | 63.6  | 63.6  | 63.6  | 63.6  |
| 135°   | 28.5 | 35.1  | 40.2  | 45.2  | 48.5  | 51.9  | 53.6  | 56.9  | 56.9  | 56.9  | 56.9  |
| 137.5° | 23.4 | 30.1  | 35.1  | 38.5  | 41.8  | 45.2  | 46.9  | 48.5  | 50.2  | 50.2  | 50.2  |
| 140°   | 18.4 | 23.4  | 28.5  | 33.5  | 36.8  | 38.5  | 41.8  | 41.8  | 43.5  | 43.5  | 43.5  |
| 142.5° | 13.4 | 18.4  | 21.8  | 26.8  | 30.1  | 33.5  | 35.1  | 36.8  | 36.8  | 36.8  | 36.8  |
| 145°   | 10.0 | 13.4  | 16.7  | 20.1  | 25.1  | 26.8  | 28.5  | 30.1  | 31.8  | 31.8  | 31.8  |
| 147.5° | 6.7  | 10.0  | 11.7  | 15.1  | 18.4  | 21.8  | 23.4  | 25.1  | 26.8  | 26.8  | 26.8  |
| 150°   | 5.0  | 6.7   | 10.0  | 11.7  | 13.4  | 16.7  | 20.1  | 20.1  | 21.8  | 21.8  | 20.1  |
| 152.5° | 3.3  | 5.0   | 6.7   | 8.4   | 10.0  | 11.7  | 15.1  | 15.1  | 16.7  | 16.7  | 16.7  |
| 155°   | 3.3  | 3.3   | 3.3   | 5.0   | 6.7   | 8.4   | 10.0  | 11.7  | 11.7  | 11.7  | 11.7  |
| 157.5° | 3.3  | 3.3   | 3.3   | 3.3   | 3.3   | 5.0   | 6.7   | 8.4   | 8.4   | 8.4   | 8.4   |
| 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: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3039.2 | 3042.6 | 3042.6 | 3039.2 | 3037.6 | 3044.3 | 3035.9 | 3004.1 | 3014.1 | 3017.5 | 3027.5 |
| 5°     | 3024.2 | 3027.5 | 3027.5 | 3027.5 | 3024.2 | 3030.9 | 3022.5 | 2990.7 | 3002.4 | 3007.4 | 3014.1 |
| 7.5°   | 3002.4 | 3004.1 | 3007.4 | 3005.8 | 3002.4 | 3012.5 | 3004.1 | 2972.3 | 2980.7 | 2989.0 | 2997.4 |
| 10°    | 2974.0 | 2974.0 | 2975.6 | 2979.0 | 2975.6 | 2984.0 | 2975.6 | 2947.2 | 2955.6 | 2960.6 | 2970.6 |
| 12.5°  | 2935.5 | 2938.8 | 2940.5 | 2938.8 | 2937.2 | 2943.8 | 2940.5 | 2913.7 | 2917.1 | 2927.1 | 2937.2 |
| 15°    | 2883.6 | 2883.6 | 2892.0 | 2888.6 | 2888.6 | 2895.3 | 2898.7 | 2868.5 | 2873.6 | 2888.6 | 2898.7 |
| 17.5°  | 2820.0 | 2821.7 | 2828.4 | 2831.7 | 2830.0 | 2841.8 | 2843.4 | 2820.0 | 2818.3 | 2836.7 | 2846.8 |
| 20°    | 2738.0 | 2741.3 | 2749.7 | 2756.4 | 2756.4 | 2769.8 | 2774.8 | 2759.8 | 2761.4 | 2781.5 | 2784.9 |
| 22.5°  | 2637.6 | 2637.6 | 2652.6 | 2662.7 | 2671.1 | 2679.4 | 2694.5 | 2681.1 | 2681.1 | 2707.9 | 2722.9 |
| 25°    | 2513.7 | 2525.5 | 2530.5 | 2550.6 | 2562.3 | 2585.7 | 2599.1 | 2600.8 | 2602.4 | 2627.5 | 2637.6 |
| 27.5°  | 2376.5 | 2379.8 | 2394.9 | 2418.3 | 2431.7 | 2453.5 | 2478.6 | 2483.6 | 2492.0 | 2525.5 | 2540.5 |
| 30°    | 2220.9 | 2230.9 | 2237.6 | 2271.1 | 2289.5 | 2317.9 | 2349.7 | 2361.4 | 2368.1 | 2413.3 | 2431.7 |
| 32.5°  | 2061.9 | 2065.2 | 2093.7 | 2112.1 | 2133.8 | 2164.0 | 2200.8 | 2222.5 | 2235.9 | 2282.8 | 2309.6 |
| 35°    | 1902.9 | 1909.6 | 1933.0 | 1956.4 | 1978.2 | 2008.3 | 2046.8 | 2076.9 | 2100.4 | 2142.2 | 2177.3 |
| 37.5°  | 1757.3 | 1774.0 | 1779.0 | 1802.5 | 1819.2 | 1849.3 | 1876.1 | 1919.6 | 1943.0 | 1986.6 | 2031.7 |
| 40°    | 1626.7 | 1631.8 | 1635.1 | 1658.5 | 1670.2 | 1698.7 | 1737.2 | 1765.6 | 1797.4 | 1829.2 | 1882.8 |
| 42.5°  | 1497.9 | 1501.2 | 1506.2 | 1519.6 | 1533.0 | 1553.1 | 1581.5 | 1610.0 | 1643.5 | 1690.3 | 1725.5 |
| 45°    | 1379.0 | 1382.4 | 1385.7 | 1394.1 | 1405.8 | 1424.2 | 1442.6 | 1462.7 | 1496.2 | 1536.4 | 1573.2 |
| 47.5°  | 1268.6 | 1275.3 | 1275.3 | 1277.0 | 1285.3 | 1300.4 | 1313.8 | 1338.9 | 1357.3 | 1379.0 | 1420.9 |
| 50°    | 1163.1 | 1168.2 | 1169.8 | 1169.8 | 1174.9 | 1184.9 | 1188.3 | 1205.0 | 1221.7 | 1241.8 | 1271.9 |
| 52.5°  | 1064.4 | 1064.4 | 1062.7 | 1069.4 | 1069.4 | 1076.1 | 1077.8 | 1087.8 | 1099.6 | 1121.3 | 1134.7 |
| 55°    | 970.7  | 970.7  | 975.7  | 972.4  | 972.4  | 975.7  | 974.0  | 975.7  | 985.7  | 999.1  | 1010.9 |
| 57.5°  | 880.3  | 878.6  | 883.7  | 880.3  | 878.6  | 882.0  | 885.3  | 878.6  | 880.3  | 893.7  | 893.7  |
| 60°    | 789.9  | 791.6  | 796.6  | 793.3  | 793.3  | 793.3  | 789.9  | 786.6  | 783.2  | 791.6  | 795.0  |
| 62.5°  | 718.0  | 713.0  | 718.0  | 713.0  | 716.3  | 714.6  | 711.3  | 704.6  | 706.3  | 702.9  | 699.6  |
| 65°    | 642.7  | 642.7  | 644.3  | 639.3  | 642.7  | 642.7  | 637.6  | 636.0  | 625.9  | 622.6  | 614.2  |
| 67.5°  | 577.4  | 577.4  | 579.1  | 575.7  | 575.7  | 577.4  | 572.4  | 567.3  | 557.3  | 552.3  | 540.6  |
| 70°    | 520.5  | 520.5  | 520.5  | 518.8  | 518.8  | 518.8  | 515.5  | 508.8  | 498.7  | 490.4  | 475.3  |
| 72.5°  | 468.6  | 470.3  | 468.6  | 468.6  | 473.6  | 468.6  | 463.6  | 456.9  | 448.5  | 431.8  | 418.4  |
| 75°    | 426.8  | 428.4  | 426.8  | 426.8  | 426.8  | 425.1  | 423.4  | 413.4  | 403.3  | 389.9  | 369.9  |
| 77.5°  | 389.9  | 389.9  | 391.6  | 389.9  | 389.9  | 388.3  | 383.3  | 374.9  | 363.2  | 351.5  | 328.0  |
| 80°    | 354.8  | 356.5  | 358.1  | 359.8  | 356.5  | 354.8  | 349.8  | 343.1  | 328.0  | 314.6  | 291.2  |
| 82.5°  | 329.7  | 328.0  | 329.7  | 331.4  | 328.0  | 326.4  | 321.3  | 313.0  | 301.2  | 282.8  | 259.4  |
| 85°    | 304.6  | 302.9  | 302.9  | 304.6  | 302.9  | 299.6  | 294.6  | 286.2  | 274.5  | 256.1  | 232.6  |
| 87.5°  | 279.5  | 281.2  | 282.8  | 281.2  | 279.5  | 276.1  | 271.1  | 262.8  | 249.4  | 234.3  | 209.2  |
| 90°    | 261.1  | 261.1  | 261.1  | 261.1  | 259.4  | 256.1  | 251.0  | 241.0  | 229.3  | 210.9  | 189.1  |
| 92.5°  | 244.3  | 244.3  | 244.3  | 244.3  | 242.7  | 237.7  | 232.6  | 224.3  | 210.9  | 192.5  | 172.4  |
| 95°    | 227.6  | 229.3  | 227.6  | 227.6  | 224.3  | 222.6  | 214.2  | 205.9  | 194.1  | 175.7  | 154.0  |
| 97.5°  | 209.2  | 210.9  | 209.2  | 209.2  | 207.5  | 204.2  | 199.2  | 189.1  | 177.4  | 160.7  | 140.6  |
| 100°   | 195.8  | 195.8  | 194.1  | 194.1  | 192.5  | 189.1  | 182.4  | 174.1  | 162.3  | 145.6  | 125.5  |
| 102.5° | 180.7  | 182.4  | 180.7  | 180.7  | 177.4  | 174.1  | 169.0  | 160.7  | 148.9  | 132.2  | 113.8  |
| 105°   | 169.0  | 169.0  | 167.4  | 167.4  | 164.0  | 160.7  | 155.6  | 145.6  | 135.6  | 120.5  | 102.1  |
| 107.5° | 157.3  | 157.3  | 155.6  | 155.6  | 152.3  | 148.9  | 142.3  | 133.9  | 123.8  | 108.8  | 92.0   |
| 110°   | 145.6  | 145.6  | 145.6  | 143.9  | 140.6  | 135.6  | 130.5  | 122.2  | 112.1  | 98.7   | 82.0   |

TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 112.5° | 137.2 | 135.6 | 133.9 | 132.2 | 128.9 | 125.5 | 118.8 | 110.5 | 100.4 | 88.7 | 73.6 |
| 115°   | 125.5 | 125.5 | 123.8 | 122.2 | 118.8 | 113.8 | 108.8 | 102.1 | 92.0  | 78.7 | 65.3 |
| 117.5° | 115.5 | 115.5 | 113.8 | 112.1 | 108.8 | 103.8 | 98.7  | 92.0  | 82.0  | 70.3 | 58.6 |
| 120°   | 105.4 | 105.4 | 103.8 | 102.1 | 98.7  | 93.7  | 90.4  | 82.0  | 73.6  | 61.9 | 51.9 |
| 122.5° | 97.1  | 95.4  | 95.4  | 92.0  | 90.4  | 85.4  | 80.3  | 73.6  | 65.3  | 55.2 | 45.2 |
| 125°   | 87.0  | 87.0  | 85.4  | 83.7  | 82.0  | 77.0  | 72.0  | 65.3  | 56.9  | 48.5 | 40.2 |
| 127.5° | 78.7  | 78.7  | 77.0  | 75.3  | 73.6  | 68.6  | 63.6  | 58.6  | 50.2  | 41.8 | 33.5 |
| 130°   | 70.3  | 70.3  | 68.6  | 66.9  | 65.3  | 60.2  | 56.9  | 50.2  | 43.5  | 36.8 | 28.5 |
| 132.5° | 63.6  | 63.6  | 61.9  | 60.2  | 56.9  | 53.6  | 50.2  | 43.5  | 38.5  | 31.8 | 25.1 |
| 135°   | 56.9  | 55.2  | 55.2  | 53.6  | 50.2  | 46.9  | 43.5  | 38.5  | 31.8  | 26.8 | 20.1 |
| 137.5° | 50.2  | 48.5  | 46.9  | 45.2  | 43.5  | 40.2  | 36.8  | 33.5  | 28.5  | 21.8 | 16.7 |
| 140°   | 43.5  | 41.8  | 41.8  | 40.2  | 36.8  | 35.1  | 31.8  | 26.8  | 23.4  | 18.4 | 13.4 |
| 142.5° | 36.8  | 36.8  | 35.1  | 33.5  | 31.8  | 30.1  | 26.8  | 23.4  | 18.4  | 15.1 | 10.0 |
| 145°   | 31.8  | 30.1  | 30.1  | 28.5  | 26.8  | 23.4  | 21.8  | 18.4  | 15.1  | 11.7 | 8.4  |
| 147.5° | 25.1  | 25.1  | 25.1  | 23.4  | 21.8  | 20.1  | 18.4  | 15.1  | 11.7  | 8.4  | 5.0  |
| 150°   | 20.1  | 20.1  | 20.1  | 18.4  | 16.7  | 15.1  | 13.4  | 11.7  | 8.4   | 5.0  | 3.3  |
| 152.5° | 16.7  | 16.7  | 15.1  | 15.1  | 13.4  | 11.7  | 10.0  | 8.4   | 5.0   | 3.3  | 3.3  |
| 155°   | 11.7  | 11.7  | 11.7  | 10.0  | 10.0  | 8.4   | 6.7   | 5.0   | 3.3   | 3.3  | 3.3  |
| 157.5° | 8.4   | 8.4   | 8.4   | 6.7   | 6.7   | 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: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 | 3042.6 |
| 2.5°   | 3022.5 | 3020.8 | 3034.2 | 3034.2 | 3019.2 | 3042.6 | 3067.7 |
| 5°     | 3012.5 | 3010.8 | 3024.2 | 3024.2 | 3010.8 | 3034.2 | 3061.0 |
| 7.5°   | 2992.4 | 2994.1 | 3007.4 | 3010.8 | 2994.1 | 3015.8 | 3044.3 |
| 10°    | 2970.6 | 2969.0 | 2984.0 | 2987.4 | 2974.0 | 2994.1 | 3020.8 |
| 12.5°  | 2935.5 | 2935.5 | 2950.5 | 2955.6 | 2942.2 | 2965.6 | 2990.7 |
| 15°    | 2898.7 | 2898.7 | 2908.7 | 2917.1 | 2905.4 | 2927.1 | 2952.2 |
| 17.5°  | 2851.8 | 2850.1 | 2860.2 | 2870.2 | 2858.5 | 2881.9 | 2908.7 |
| 20°    | 2791.6 | 2791.6 | 2803.3 | 2815.0 | 2806.6 | 2828.4 | 2858.5 |
| 22.5°  | 2728.0 | 2721.3 | 2741.3 | 2749.7 | 2744.7 | 2766.4 | 2796.6 |
| 25°    | 2647.6 | 2646.0 | 2666.0 | 2677.7 | 2671.1 | 2694.5 | 2721.3 |
| 27.5°  | 2560.6 | 2558.9 | 2579.0 | 2594.1 | 2590.7 | 2612.5 | 2642.6 |
| 30°    | 2455.2 | 2463.5 | 2481.9 | 2507.0 | 2498.7 | 2522.1 | 2553.9 |
| 32.5°  | 2344.7 | 2353.1 | 2374.8 | 2401.6 | 2403.3 | 2421.7 | 2453.5 |
| 35°    | 2212.5 | 2234.2 | 2249.3 | 2284.5 | 2291.1 | 2309.6 | 2343.0 |
| 37.5°  | 2073.6 | 2098.7 | 2130.5 | 2157.3 | 2170.7 | 2185.7 | 2224.2 |
| 40°    | 1917.9 | 1954.8 | 1989.9 | 2021.7 | 2038.4 | 2053.5 | 2090.3 |
| 42.5°  | 1777.4 | 1805.8 | 1839.3 | 1871.1 | 1901.2 | 1914.6 | 1953.1 |
| 45°    | 1618.4 | 1651.8 | 1682.0 | 1720.5 | 1750.6 | 1765.6 | 1804.1 |
| 47.5°  | 1462.7 | 1496.2 | 1536.4 | 1563.1 | 1594.9 | 1610.0 | 1646.8 |
| 50°    | 1313.8 | 1343.9 | 1377.4 | 1409.2 | 1435.9 | 1449.3 | 1481.1 |
| 52.5°  | 1166.5 | 1198.3 | 1230.1 | 1250.2 | 1278.6 | 1288.7 | 1315.4 |
| 55°    | 1036.0 | 1057.7 | 1086.2 | 1097.9 | 1126.3 | 1133.0 | 1151.4 |
| 57.5°  | 910.4  | 925.5  | 935.5  | 955.6  | 975.7  | 990.8  | 1012.5 |
| 60°    | 796.6  | 803.3  | 810.0  | 821.7  | 838.5  | 843.5  | 851.9  |
| 62.5°  | 694.5  | 692.9  | 706.3  | 709.6  | 711.3  | 728.0  | 719.6  |
| 65°    | 604.2  | 605.8  | 594.1  | 589.1  | 595.8  | 600.8  | 597.5  |
| 67.5°  | 528.9  | 518.8  | 508.8  | 497.1  | 487.0  | 492.0  | 487.0  |
| 70°    | 455.2  | 446.8  | 430.1  | 413.4  | 406.7  | 396.6  | 391.6  |
| 72.5°  | 396.6  | 376.6  | 359.8  | 338.1  | 326.4  | 314.6  | 306.3  |
| 75°    | 351.5  | 323.0  | 299.6  | 276.1  | 259.4  | 242.7  | 239.3  |
| 77.5°  | 304.6  | 277.8  | 251.0  | 225.9  | 200.8  | 182.4  | 175.7  |
| 80°    | 267.8  | 242.7  | 210.9  | 180.7  | 154.0  | 130.5  | 122.2  |
| 82.5°  | 234.3  | 207.5  | 175.7  | 143.9  | 113.8  | 88.7   | 78.7   |
| 85°    | 205.9  | 177.4  | 145.6  | 113.8  | 83.7   | 56.9   | 43.5   |
| 87.5°  | 184.1  | 152.3  | 120.5  | 90.4   | 58.6   | 31.8   | 16.7   |
| 90°    | 164.0  | 133.9  | 103.8  | 72.0   | 41.8   | 16.7   | 0.0    |
| 92.5°  | 145.6  | 117.2  | 87.0   | 58.6   | 31.8   | 10.0   | 1.7    |
| 95°    | 128.9  | 103.8  | 73.6   | 46.9   | 23.4   | 6.7    | 1.7    |
| 97.5°  | 115.5  | 90.4   | 63.6   | 38.5   | 18.4   | 5.0    | 1.7    |
| 100°   | 103.8  | 78.7   | 55.2   | 31.8   | 15.1   | 3.3    | 1.7    |
| 102.5° | 92.0   | 70.3   | 46.9   | 26.8   | 11.7   | 1.7    | 1.7    |
| 105°   | 82.0   | 61.9   | 40.2   | 23.4   | 10.0   | 1.7    | 1.7    |
| 107.5° | 73.6   | 55.2   | 35.1   | 20.1   | 6.7    | 1.7    | 1.7    |
| 110°   | 65.3   | 46.9   | 30.1   | 16.7   | 5.0    | 1.7    | 1.7    |



TEST NUMBER: P1213894

CATALOG NUMBER: 4SNLED-LD5-90HL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 58.6 | 41.8 | 26.8 | 13.4 | 3.3  | 1.7  | 1.7  |
| 115°   | 51.9 | 36.8 | 23.4 | 11.7 | 3.3  | 1.7  | 1.7  |
| 117.5° | 45.2 | 31.8 | 20.1 | 8.4  | 1.7  | 1.7  | 1.7  |
| 120°   | 40.2 | 28.5 | 16.7 | 6.7  | 1.7  | 1.7  | 1.7  |
| 122.5° | 35.1 | 23.4 | 13.4 | 5.0  | 1.7  | 1.7  | 1.7  |
| 125°   | 30.1 | 20.1 | 11.7 | 3.3  | 1.7  | 1.7  | 1.7  |
| 127.5° | 25.1 | 16.7 | 8.4  | 3.3  | 1.7  | 1.7  | 1.7  |
| 130°   | 21.8 | 13.4 | 6.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 132.5° | 18.4 | 10.0 | 5.0  | 1.7  | 1.7  | 1.7  | 1.7  |
| 135°   | 15.1 | 8.4  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  |
| 137.5° | 11.7 | 6.7  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  |
| 140°   | 8.4  | 5.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 142.5° | 6.7  | 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)