

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: P1214224

Luminaire Tested: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1214224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

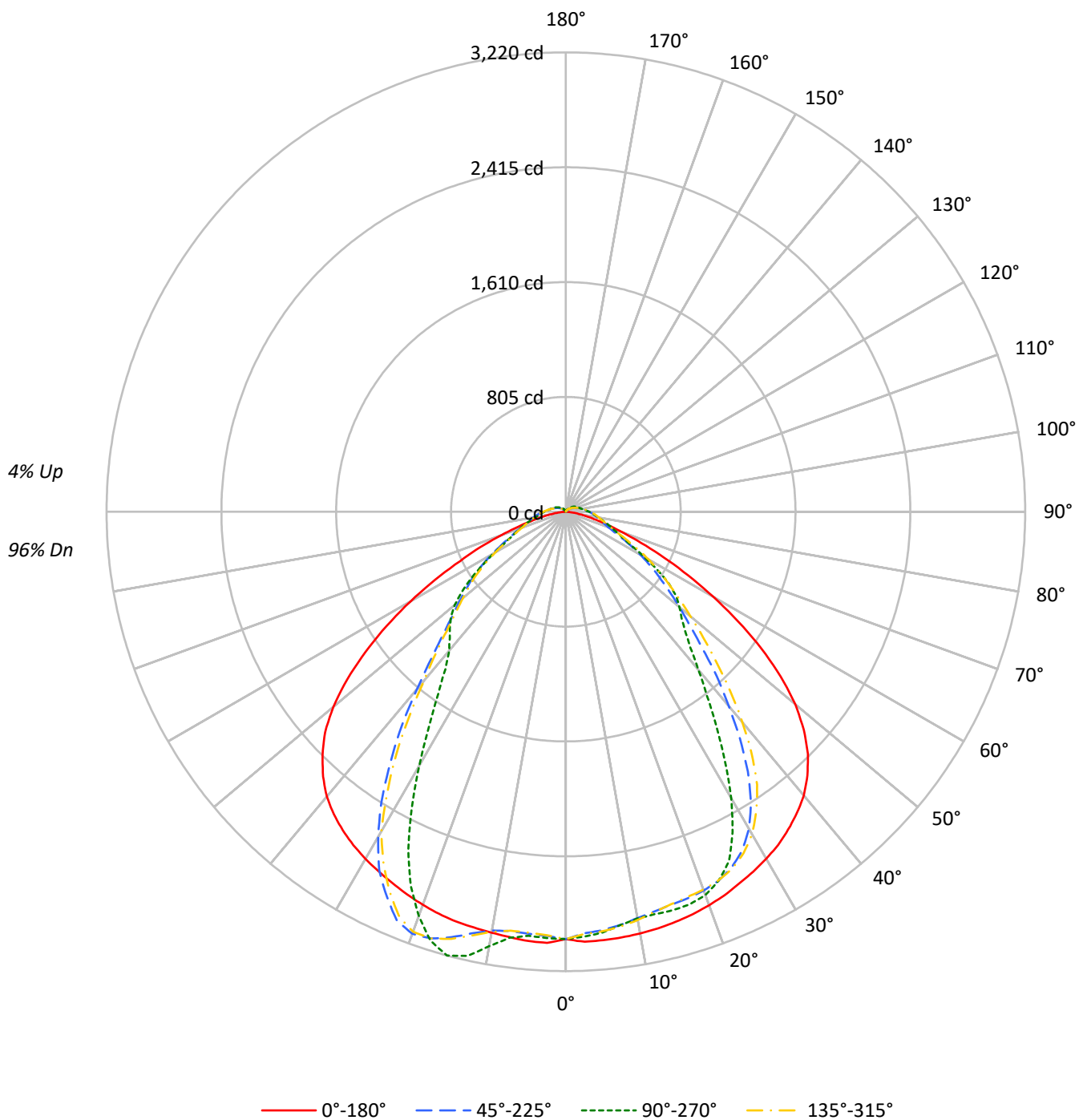
Lumens per Lamp: N/A  
Luminaire Lumens: 7141.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 70  
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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 96 |
| 1   | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 97  | 94  | 91  | 92  | 90  | 88  | 88 | 86 | 84 | 84 | 84 | 82 |
| 2   | 100 | 93  | 86  | 81  | 97  | 90  | 85  | 80  | 86  | 82  | 77  | 82  | 79  | 75  | 79 | 76 | 73 | 73 | 73 | 71 |
| 3   | 92  | 83  | 75  | 69  | 89  | 81  | 74  | 68  | 77  | 71  | 67  | 74  | 69  | 65  | 71 | 67 | 63 | 63 | 63 | 61 |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 59  | 70  | 63  | 58  | 67  | 61  | 57  | 64 | 60 | 56 | 56 | 56 | 54 |
| 5   | 79  | 67  | 59  | 52  | 76  | 66  | 58  | 52  | 63  | 56  | 51  | 61  | 55  | 50  | 59 | 53 | 49 | 49 | 49 | 47 |
| 6   | 73  | 61  | 52  | 46  | 71  | 60  | 52  | 46  | 57  | 51  | 45  | 55  | 49  | 45  | 54 | 48 | 44 | 44 | 44 | 42 |
| 7   | 68  | 55  | 47  | 42  | 66  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  | 49 | 44 | 40 | 40 | 40 | 38 |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 45 | 40 | 36 | 36 | 36 | 34 |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 33  | 43  | 37  | 33  | 42 | 37 | 33 | 33 | 33 | 31 |
| 10  | 56  | 43  | 36  | 31  | 54  | 43  | 36  | 31  | 42  | 35  | 30  | 40  | 34  | 30  | 39 | 34 | 30 | 30 | 30 | 28 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 24207 | 24207 | 24207 | 24207 |
| 5°  | 24383 | 23247 | 24433 | 23429 |
| 10° | 24496 | 22280 | 24445 | 23792 |
| 15° | 24686 | 21982 | 24672 | 24475 |
| 20° | 24957 | 21633 | 24931 | 22804 |
| 25° | 25265 | 20523 | 25251 | 19830 |
| 30° | 25740 | 17787 | 25754 | 15758 |
| 35° | 26244 | 14383 | 26318 | 12172 |
| 40° | 26689 | 11581 | 26800 | 10203 |
| 45° | 26595 | 9809  | 26732 | 9552  |
| 50° | 25448 | 9031  | 25804 | 8829  |
| 55° | 22578 | 8117  | 23142 | 7380  |
| 60° | 18314 | 6213  | 19286 | 5698  |
| 65° | 13614 | 4753  | 14668 | 4508  |
| 70° | 9258  | 4104  | 10436 | 3923  |
| 75° | 6056  | 3702  | 7052  | 3501  |
| 80° | 3914  | 3452  | 4586  | 3175  |
| 85° | 2009  | 3444  | 2644  | 3146  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 26732 cd/sqm

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 284.5  | 4.0       |
| 10°-20°   | 846.6  | 11.9      |
| 20°-30°   | 1287.1 | 18.0      |
| 30°-40°   | 1380.7 | 19.3      |
| 40°-50°   | 1198.3 | 16.8      |
| 50°-60°   | 888.1  | 12.4      |
| 60°-70°   | 508.8  | 7.1       |
| 70°-80°   | 281.8  | 3.9       |
| 80°-90°   | 171.6  | 2.4       |
| 90°-100°  | 111.6  | 1.6       |
| 100°-110° | 74.7   | 1.0       |
| 110°-120° | 50.5   | 0.7       |
| 120°-130° | 31.0   | 0.4       |
| 130°-140° | 16.3   | 0.2       |
| 140°-150° | 7.4    | 0.1       |
| 150°-160° | 2.2    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2418.2 | 33.9      |
| 0°-40°    | 3798.9 | 53.2      |
| 0°-60°    | 5885.2 | 82.4      |
| 0°-90°    | 6847.4 | 95.9      |
| 90°-120°  | 236.8  | 3.3       |
| 90°-150°  | 291.4  | 4.1       |
| 90°-180°  | 294.0  | 4.1       |
| 0°-180°   | 7141.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2996 | 2996 | 2996 | 2996 | 2996 |      |
| 5°   | 3014 | 2960 | 3020 | 2983 | 3014 | 287  |
| 15°  | 2975 | 2892 | 2974 | 3220 | 2975 | 842  |
| 25°  | 2875 | 2705 | 2873 | 2613 | 2875 | 1329 |
| 35°  | 2718 | 1841 | 2726 | 1558 | 2718 | 1702 |
| 45°  | 2400 | 1180 | 2412 | 1150 | 2400 | 1837 |
| 55°  | 1674 | 885  | 1716 | 805  | 1674 | 1485 |
| 65°  | 760  | 449  | 818  | 426  | 760  | 766  |
| 75°  | 217  | 285  | 252  | 269  | 217  | 247  |
| 85°  | 29   | 196  | 39   | 180  | 29   | 39   |
| 90°  | 0    | 164  | 3    | 152  | 0    | 1    |
| 95°  | 2    | 135  | 0    | 128  | 2    | 1    |
| 105° | 2    | 101  | 2    | 96   | 2    | 2    |
| 115° | 2    | 82   | 2    | 74   | 2    | 1    |
| 125° | 2    | 62   | 2    | 51   | 2    | 1    |
| 135° | 2    | 39   | 2    | 32   | 2    | 1    |
| 145° | 2    | 23   | 3    | 19   | 2    | 1    |
| 155° | 3    | 11   | 3    | 9    | 3    | 1    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 3017.1 | 3009.4 | 3006.3 | 3000.1 | 3004.8 | 3023.3 | 3010.9 | 2990.8 | 2992.4 | 2956.8 | 2975.4 |
| 5°     | 3014.0 | 3004.8 | 3000.1 | 2993.9 | 2997.0 | 3014.0 | 3001.7 | 2981.5 | 2980.0 | 2944.4 | 2961.4 |
| 7.5°   | 3009.4 | 3000.1 | 2992.4 | 2987.7 | 2989.3 | 3003.2 | 2987.7 | 2964.5 | 2959.9 | 2921.2 | 2936.7 |
| 10°    | 3001.7 | 2995.5 | 2984.6 | 2976.9 | 2975.4 | 2990.8 | 2966.1 | 2942.9 | 2932.0 | 2891.8 | 2907.3 |
| 12.5°  | 2990.8 | 2981.5 | 2970.7 | 2956.8 | 2955.2 | 2964.5 | 2944.4 | 2911.9 | 2901.1 | 2868.6 | 2885.6 |
| 15°    | 2975.4 | 2964.5 | 2952.1 | 2936.7 | 2928.9 | 2935.1 | 2910.4 | 2881.0 | 2879.4 | 2851.6 | 2874.8 |
| 17.5°  | 2958.3 | 2942.9 | 2928.9 | 2907.3 | 2896.4 | 2901.1 | 2881.0 | 2854.7 | 2857.8 | 2840.7 | 2867.0 |
| 20°    | 2935.1 | 2918.1 | 2896.4 | 2874.8 | 2859.3 | 2867.0 | 2853.1 | 2833.0 | 2837.6 | 2825.3 | 2848.5 |
| 22.5°  | 2908.8 | 2885.6 | 2859.3 | 2834.6 | 2822.2 | 2833.0 | 2822.2 | 2805.2 | 2806.7 | 2799.0 | 2812.9 |
| 25°    | 2874.8 | 2848.5 | 2817.5 | 2786.6 | 2780.4 | 2788.1 | 2781.9 | 2768.0 | 2761.8 | 2749.5 | 2755.6 |
| 27.5°  | 2843.8 | 2814.4 | 2775.8 | 2743.3 | 2732.4 | 2747.9 | 2734.0 | 2710.8 | 2693.8 | 2676.7 | 2664.4 |
| 30°    | 2808.3 | 2772.7 | 2729.3 | 2692.2 | 2682.9 | 2689.1 | 2669.0 | 2633.4 | 2588.5 | 2566.9 | 2532.8 |
| 32.5°  | 2769.6 | 2723.2 | 2669.0 | 2627.2 | 2621.0 | 2616.4 | 2579.3 | 2528.2 | 2458.6 | 2415.3 | 2362.6 |
| 35°    | 2718.5 | 2667.5 | 2602.5 | 2551.4 | 2542.1 | 2515.8 | 2455.5 | 2387.4 | 2297.7 | 2223.4 | 2133.7 |
| 37.5°  | 2661.3 | 2600.9 | 2532.8 | 2464.8 | 2438.5 | 2385.9 | 2300.8 | 2229.6 | 2093.4 | 2003.7 | 1895.4 |
| 40°    | 2596.3 | 2523.6 | 2440.0 | 2358.0 | 2314.7 | 2229.6 | 2132.1 | 2026.9 | 1895.4 | 1774.7 | 1683.4 |
| 42.5°  | 2506.5 | 2429.2 | 2330.2 | 2238.9 | 2164.6 | 2051.6 | 1937.2 | 1788.6 | 1667.9 | 1565.8 | 1473.0 |
| 45°    | 2399.8 | 2306.9 | 2192.4 | 2082.6 | 1988.2 | 1853.6 | 1719.0 | 1570.5 | 1469.9 | 1350.7 | 1287.3 |
| 47.5°  | 2262.1 | 2161.5 | 2039.3 | 1917.0 | 1793.3 | 1644.7 | 1503.9 | 1361.6 | 1261.0 | 1175.9 | 1129.5 |
| 50°    | 2099.6 | 2006.8 | 1872.2 | 1726.7 | 1590.6 | 1435.8 | 1295.0 | 1188.3 | 1090.8 | 1038.2 | 1002.6 |
| 52.5°  | 1898.5 | 1811.8 | 1674.1 | 1516.3 | 1384.8 | 1233.2 | 1104.7 | 1018.1 | 948.5  | 909.8  | 897.4  |
| 55°    | 1674.1 | 1598.3 | 1462.1 | 1315.2 | 1180.5 | 1041.3 | 943.8  | 868.0  | 823.1  | 799.9  | 801.5  |
| 57.5°  | 1434.3 | 1375.5 | 1247.1 | 1115.6 | 988.7  | 883.5  | 795.3  | 734.9  | 700.9  | 699.4  | 704.0  |
| 60°    | 1194.5 | 1151.2 | 1039.7 | 926.8  | 815.4  | 730.3  | 665.3  | 623.5  | 601.9  | 603.4  | 601.9  |
| 62.5°  | 965.5  | 925.3  | 844.8  | 752.0  | 663.8  | 606.5  | 547.7  | 530.7  | 512.1  | 510.6  | 510.6  |
| 65°    | 759.7  | 728.8  | 663.8  | 597.2  | 530.7  | 493.6  | 464.2  | 444.1  | 430.1  | 427.0  | 428.6  |
| 67.5°  | 570.9  | 558.6  | 513.7  | 468.8  | 427.0  | 403.8  | 379.1  | 374.4  | 363.6  | 363.6  | 366.7  |
| 70°    | 425.5  | 416.2  | 391.5  | 365.2  | 348.1  | 332.7  | 320.3  | 320.3  | 318.7  | 317.2  | 324.9  |
| 72.5°  | 307.9  | 309.4  | 301.7  | 281.6  | 280.1  | 277.0  | 273.9  | 278.5  | 280.1  | 284.7  | 294.0  |
| 75°    | 216.6  | 221.3  | 221.3  | 218.2  | 224.4  | 232.1  | 236.7  | 244.5  | 253.7  | 259.9  | 270.8  |
| 77.5°  | 153.2  | 153.2  | 160.9  | 170.2  | 182.6  | 196.5  | 208.9  | 219.7  | 232.1  | 239.8  | 249.1  |
| 80°    | 99.0   | 103.7  | 116.0  | 133.1  | 150.1  | 168.6  | 185.7  | 199.6  | 212.0  | 224.4  | 230.5  |
| 82.5°  | 58.8   | 66.5   | 82.0   | 103.7  | 125.3  | 148.5  | 165.6  | 182.6  | 196.5  | 208.9  | 213.5  |
| 85°    | 29.4   | 40.2   | 58.8   | 82.0   | 105.2  | 130.0  | 151.6  | 167.1  | 182.6  | 193.4  | 199.6  |
| 87.5°  | 9.3    | 21.7   | 41.8   | 63.4   | 88.2   | 112.9  | 136.2  | 153.2  | 167.1  | 176.4  | 182.6  |
| 90°    | 0.0    | 10.8   | 29.4   | 52.6   | 75.8   | 100.6  | 122.2  | 140.8  | 154.7  | 162.5  | 167.1  |
| 92.5°  | 0.0    | 6.2    | 23.2   | 43.3   | 65.0   | 89.7   | 111.4  | 128.4  | 140.8  | 148.5  | 151.6  |
| 95°    | 1.5    | 4.6    | 17.0   | 35.6   | 57.2   | 80.5   | 100.6  | 116.0  | 128.4  | 136.2  | 137.7  |
| 97.5°  | 1.5    | 3.1    | 13.9   | 29.4   | 49.5   | 71.2   | 91.3   | 106.8  | 116.0  | 123.8  | 125.3  |
| 100°   | 1.5    | 3.1    | 10.8   | 26.3   | 43.3   | 63.4   | 82.0   | 95.9   | 106.8  | 112.9  | 114.5  |
| 102.5° | 1.5    | 1.5    | 9.3    | 21.7   | 38.7   | 55.7   | 72.7   | 86.6   | 95.9   | 102.1  | 105.2  |
| 105°   | 1.5    | 1.5    | 7.7    | 18.6   | 34.0   | 49.5   | 65.0   | 78.9   | 86.6   | 92.8   | 95.9   |
| 107.5° | 1.5    | 1.5    | 6.2    | 15.5   | 29.4   | 43.3   | 58.8   | 69.6   | 78.9   | 85.1   | 88.2   |
| 110°   | 1.5    | 1.5    | 4.6    | 13.9   | 24.8   | 38.7   | 51.1   | 61.9   | 71.2   | 77.4   | 80.5   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 112.5° | 1.5 | 1.5 | 4.6 | 12.4 | 21.7 | 34.0 | 44.9 | 55.7 | 63.4 | 69.6 | 74.3 |
| 115°   | 1.5 | 1.5 | 4.6 | 10.8 | 20.1 | 29.4 | 40.2 | 49.5 | 57.2 | 63.4 | 68.1 |
| 117.5° | 1.5 | 1.5 | 4.6 | 9.3  | 17.0 | 26.3 | 35.6 | 44.9 | 51.1 | 57.2 | 61.9 |
| 120°   | 1.5 | 1.5 | 3.1 | 7.7  | 15.5 | 23.2 | 30.9 | 38.7 | 46.4 | 52.6 | 57.2 |
| 122.5° | 1.5 | 1.5 | 3.1 | 7.7  | 12.4 | 20.1 | 27.9 | 34.0 | 41.8 | 46.4 | 51.1 |
| 125°   | 1.5 | 1.5 | 3.1 | 6.2  | 10.8 | 18.6 | 24.8 | 30.9 | 35.6 | 41.8 | 46.4 |
| 127.5° | 1.5 | 1.5 | 3.1 | 6.2  | 9.3  | 15.5 | 21.7 | 27.9 | 32.5 | 37.1 | 40.2 |
| 130°   | 1.5 | 1.5 | 3.1 | 4.6  | 7.7  | 12.4 | 18.6 | 23.2 | 29.4 | 32.5 | 35.6 |
| 132.5° | 1.5 | 1.5 | 1.5 | 4.6  | 6.2  | 9.3  | 13.9 | 20.1 | 24.8 | 29.4 | 30.9 |
| 135°   | 1.5 | 1.5 | 1.5 | 3.1  | 6.2  | 7.7  | 10.8 | 15.5 | 20.1 | 24.8 | 27.9 |
| 137.5° | 1.5 | 1.5 | 1.5 | 3.1  | 4.6  | 7.7  | 9.3  | 12.4 | 17.0 | 20.1 | 24.8 |
| 140°   | 1.5 | 1.5 | 1.5 | 3.1  | 4.6  | 6.2  | 7.7  | 10.8 | 13.9 | 17.0 | 20.1 |
| 142.5° | 1.5 | 1.5 | 1.5 | 3.1  | 3.1  | 4.6  | 6.2  | 9.3  | 10.8 | 13.9 | 17.0 |
| 145°   | 1.5 | 1.5 | 1.5 | 3.1  | 3.1  | 4.6  | 6.2  | 7.7  | 9.3  | 10.8 | 13.9 |
| 147.5° | 1.5 | 1.5 | 1.5 | 3.1  | 3.1  | 3.1  | 4.6  | 6.2  | 7.7  | 9.3  | 10.8 |
| 150°   | 3.1 | 3.1 | 3.1 | 3.1  | 3.1  | 3.1  | 4.6  | 4.6  | 6.2  | 7.7  | 9.3  |
| 152.5° | 3.1 | 3.1 | 3.1 | 3.1  | 3.1  | 3.1  | 4.6  | 4.6  | 4.6  | 6.2  | 7.7  |
| 155°   | 3.1 | 3.1 | 3.1 | 3.1  | 3.1  | 3.1  | 3.1  | 4.6  | 4.6  | 6.2  | 6.2  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 2969.2 | 2972.3 | 2990.8 | 2989.3 | 2986.2 | 2983.1 | 2983.1 | 2980.0 | 2983.1 | 2990.8 | 2987.7 |
| 5°     | 2953.7 | 2958.3 | 2972.3 | 2970.7 | 2967.6 | 2966.1 | 2964.5 | 2959.9 | 2963.0 | 2973.8 | 2970.7 |
| 7.5°   | 2925.8 | 2930.5 | 2942.9 | 2936.7 | 2932.0 | 2935.1 | 2927.4 | 2922.7 | 2928.9 | 2939.8 | 2938.2 |
| 10°    | 2896.4 | 2899.5 | 2915.0 | 2911.9 | 2904.2 | 2905.7 | 2898.0 | 2894.9 | 2902.6 | 2908.8 | 2910.4 |
| 12.5°  | 2876.3 | 2887.2 | 2901.1 | 2899.5 | 2898.0 | 2899.5 | 2891.8 | 2888.7 | 2893.4 | 2899.5 | 2898.0 |
| 15°    | 2871.7 | 2885.6 | 2901.1 | 2901.1 | 2902.6 | 2904.2 | 2896.4 | 2891.8 | 2896.4 | 2901.1 | 2899.5 |
| 17.5°  | 2867.0 | 2884.1 | 2898.0 | 2896.4 | 2898.0 | 2901.1 | 2888.7 | 2885.6 | 2891.8 | 2898.0 | 2894.9 |
| 20°    | 2851.6 | 2867.0 | 2876.3 | 2873.2 | 2873.2 | 2874.8 | 2859.3 | 2859.3 | 2868.6 | 2873.2 | 2874.8 |
| 22.5°  | 2808.3 | 2826.8 | 2826.8 | 2819.1 | 2819.1 | 2812.9 | 2808.3 | 2799.0 | 2809.8 | 2817.5 | 2823.7 |
| 25°    | 2743.3 | 2751.0 | 2741.7 | 2724.7 | 2715.4 | 2707.7 | 2686.0 | 2704.6 | 2704.6 | 2727.8 | 2735.5 |
| 27.5°  | 2652.0 | 2635.0 | 2608.7 | 2573.1 | 2565.3 | 2540.6 | 2526.7 | 2531.3 | 2539.0 | 2571.5 | 2596.3 |
| 30°    | 2501.9 | 2450.8 | 2406.0 | 2390.5 | 2356.5 | 2331.7 | 2306.9 | 2319.3 | 2333.2 | 2351.8 | 2402.9 |
| 32.5°  | 2303.8 | 2254.3 | 2181.6 | 2155.3 | 2119.7 | 2088.8 | 2059.4 | 2078.0 | 2102.7 | 2115.1 | 2170.8 |
| 35°    | 2076.4 | 2017.6 | 1951.1 | 1906.2 | 1869.1 | 1852.1 | 1814.9 | 1841.2 | 1867.5 | 1876.8 | 1924.8 |
| 37.5°  | 1835.0 | 1774.7 | 1715.9 | 1677.2 | 1641.6 | 1630.8 | 1606.0 | 1624.6 | 1644.7 | 1658.6 | 1698.9 |
| 40°    | 1606.0 | 1550.3 | 1505.5 | 1479.2 | 1454.4 | 1445.1 | 1435.8 | 1443.6 | 1459.1 | 1469.9 | 1500.8 |
| 42.5°  | 1409.5 | 1364.7 | 1333.7 | 1318.3 | 1301.2 | 1288.9 | 1290.4 | 1293.5 | 1301.2 | 1324.4 | 1338.4 |
| 45°    | 1237.8 | 1211.5 | 1191.4 | 1188.3 | 1177.5 | 1175.9 | 1174.4 | 1180.5 | 1185.2 | 1199.1 | 1209.9 |
| 47.5°  | 1100.1 | 1089.3 | 1084.6 | 1090.8 | 1095.5 | 1089.3 | 1092.4 | 1100.1 | 1109.4 | 1109.4 | 1107.8 |
| 50°    | 991.8  | 994.9  | 1001.1 | 1015.0 | 1024.3 | 1027.4 | 1030.5 | 1039.7 | 1041.3 | 1044.4 | 1039.7 |
| 52.5°  | 903.6  | 906.7  | 923.7  | 945.4  | 956.2  | 960.8  | 967.0  | 976.3  | 976.3  | 979.4  | 973.2  |
| 55°    | 813.9  | 818.5  | 835.5  | 857.2  | 866.5  | 872.6  | 878.8  | 885.0  | 889.7  | 895.9  | 891.2  |
| 57.5°  | 714.8  | 728.8  | 739.6  | 745.8  | 752.0  | 756.6  | 761.2  | 762.8  | 772.1  | 773.6  | 781.4  |
| 60°    | 609.6  | 612.7  | 623.5  | 622.0  | 617.4  | 629.7  | 623.5  | 634.4  | 645.2  | 659.1  | 660.7  |
| 62.5°  | 509.0  | 510.6  | 518.3  | 515.2  | 521.4  | 519.9  | 524.5  | 524.5  | 532.3  | 538.4  | 546.2  |
| 65°    | 430.1  | 431.7  | 437.9  | 437.9  | 436.3  | 441.0  | 445.6  | 448.7  | 448.7  | 453.3  | 459.5  |
| 67.5°  | 371.3  | 376.0  | 382.2  | 385.3  | 388.4  | 388.4  | 393.0  | 394.5  | 397.6  | 399.2  | 402.3  |
| 70°    | 331.1  | 337.3  | 343.5  | 346.6  | 348.1  | 351.2  | 352.8  | 352.8  | 355.9  | 357.4  | 360.5  |
| 72.5°  | 301.7  | 307.9  | 312.5  | 312.5  | 315.6  | 317.2  | 317.2  | 318.7  | 320.3  | 323.4  | 326.5  |
| 75°    | 277.0  | 281.6  | 284.7  | 283.1  | 283.1  | 283.1  | 284.7  | 284.7  | 287.8  | 290.9  | 294.0  |
| 77.5°  | 253.7  | 258.4  | 258.4  | 255.3  | 255.3  | 255.3  | 255.3  | 256.8  | 258.4  | 261.5  | 264.6  |
| 80°    | 236.7  | 236.7  | 235.2  | 235.2  | 232.1  | 230.5  | 230.5  | 232.1  | 232.1  | 235.2  | 239.8  |
| 82.5°  | 218.2  | 218.2  | 216.6  | 215.1  | 213.5  | 212.0  | 212.0  | 213.5  | 215.1  | 216.6  | 219.7  |
| 85°    | 201.1  | 201.1  | 198.0  | 198.0  | 196.5  | 196.5  | 196.5  | 196.5  | 198.0  | 199.6  | 202.7  |
| 87.5°  | 184.1  | 182.6  | 181.0  | 179.5  | 179.5  | 179.5  | 179.5  | 179.5  | 181.0  | 184.1  | 185.7  |
| 90°    | 167.1  | 165.6  | 164.0  | 164.0  | 162.5  | 162.5  | 164.0  | 164.0  | 165.6  | 167.1  | 168.6  |
| 92.5°  | 151.6  | 150.1  | 148.5  | 148.5  | 147.0  | 147.0  | 148.5  | 147.0  | 150.1  | 150.1  | 151.6  |
| 95°    | 137.7  | 136.2  | 134.6  | 134.6  | 134.6  | 134.6  | 134.6  | 134.6  | 136.2  | 136.2  | 137.7  |
| 97.5°  | 125.3  | 123.8  | 122.2  | 122.2  | 123.8  | 122.2  | 123.8  | 123.8  | 123.8  | 125.3  | 126.9  |
| 100°   | 114.5  | 112.9  | 112.9  | 114.5  | 112.9  | 112.9  | 114.5  | 114.5  | 114.5  | 114.5  | 116.0  |
| 102.5° | 105.2  | 105.2  | 105.2  | 105.2  | 105.2  | 105.2  | 106.8  | 106.8  | 106.8  | 106.8  | 108.3  |
| 105°   | 95.9   | 97.5   | 97.5   | 97.5   | 99.0   | 99.0   | 99.0   | 100.6  | 100.6  | 100.6  | 100.6  |
| 107.5° | 89.7   | 91.3   | 91.3   | 92.8   | 92.8   | 94.4   | 94.4   | 94.4   | 94.4   | 95.9   | 95.9   |
| 110°   | 83.6   | 85.1   | 86.6   | 88.2   | 88.2   | 89.7   | 89.7   | 89.7   | 89.7   | 89.7   | 89.7   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 77.4 | 78.9 | 80.5 | 83.6 | 85.1 | 85.1 | 85.1 | 85.1 | 86.6 | 86.6 | 85.1 |
| 115°   | 71.2 | 74.3 | 75.8 | 78.9 | 80.5 | 80.5 | 82.0 | 82.0 | 82.0 | 82.0 | 80.5 |
| 117.5° | 65.0 | 69.6 | 71.2 | 74.3 | 75.8 | 75.8 | 77.4 | 77.4 | 77.4 | 77.4 | 75.8 |
| 120°   | 60.3 | 63.4 | 66.5 | 68.1 | 69.6 | 71.2 | 71.2 | 72.7 | 72.7 | 72.7 | 71.2 |
| 122.5° | 55.7 | 58.8 | 61.9 | 63.4 | 65.0 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| 125°   | 49.5 | 52.6 | 55.7 | 57.2 | 58.8 | 60.3 | 60.3 | 61.9 | 61.9 | 61.9 | 60.3 |
| 127.5° | 44.9 | 48.0 | 49.5 | 52.6 | 54.2 | 54.2 | 55.7 | 55.7 | 55.7 | 55.7 | 54.2 |
| 130°   | 38.7 | 41.8 | 44.9 | 46.4 | 48.0 | 48.0 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 |
| 132.5° | 34.0 | 37.1 | 38.7 | 41.8 | 41.8 | 43.3 | 43.3 | 44.9 | 44.9 | 44.9 | 43.3 |
| 135°   | 30.9 | 32.5 | 34.0 | 37.1 | 37.1 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| 137.5° | 27.9 | 29.4 | 30.9 | 32.5 | 32.5 | 34.0 | 34.0 | 34.0 | 34.0 | 35.6 | 34.0 |
| 140°   | 23.2 | 26.3 | 27.9 | 27.9 | 29.4 | 29.4 | 29.4 | 30.9 | 30.9 | 30.9 | 29.4 |
| 142.5° | 20.1 | 21.7 | 23.2 | 24.8 | 26.3 | 26.3 | 26.3 | 26.3 | 27.9 | 26.3 | 26.3 |
| 145°   | 15.5 | 18.6 | 20.1 | 21.7 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |
| 147.5° | 12.4 | 13.9 | 17.0 | 18.6 | 18.6 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 |
| 150°   | 10.8 | 10.8 | 13.9 | 15.5 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 |
| 152.5° | 7.7  | 9.3  | 10.8 | 12.4 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 155°   | 7.7  | 7.7  | 9.3  | 9.3  | 10.8 | 10.8 | 10.8 | 10.8 | 12.4 | 10.8 | 10.8 |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 2983.1 | 2981.5 | 2987.7 | 2981.5 | 2950.6 | 2963.0 | 2958.3 | 2975.4 | 2976.9 | 2981.5 | 2997.0 |
| 5°     | 2967.6 | 2967.6 | 2975.4 | 2969.2 | 2939.8 | 2952.1 | 2950.6 | 2967.6 | 2970.7 | 2973.8 | 2990.8 |
| 7.5°   | 2936.7 | 2938.2 | 2949.1 | 2944.4 | 2913.5 | 2932.0 | 2930.5 | 2950.6 | 2956.8 | 2963.0 | 2978.4 |
| 10°    | 2907.3 | 2905.7 | 2918.1 | 2913.5 | 2884.1 | 2905.7 | 2904.2 | 2924.3 | 2933.6 | 2944.4 | 2963.0 |
| 12.5°  | 2891.8 | 2887.2 | 2891.8 | 2887.2 | 2854.7 | 2871.7 | 2873.2 | 2896.4 | 2907.3 | 2921.2 | 2942.9 |
| 15°    | 2891.8 | 2884.1 | 2884.1 | 2874.8 | 2837.6 | 2848.5 | 2850.0 | 2865.5 | 2879.4 | 2893.4 | 2919.7 |
| 17.5°  | 2888.7 | 2881.0 | 2879.4 | 2871.7 | 2831.5 | 2831.5 | 2829.9 | 2840.7 | 2848.5 | 2862.4 | 2890.3 |
| 20°    | 2871.7 | 2868.6 | 2867.0 | 2862.4 | 2825.3 | 2819.1 | 2816.0 | 2816.0 | 2820.6 | 2825.3 | 2853.1 |
| 22.5°  | 2826.8 | 2829.9 | 2833.0 | 2836.1 | 2806.7 | 2795.9 | 2797.4 | 2794.3 | 2789.7 | 2789.7 | 2812.9 |
| 25°    | 2743.3 | 2758.7 | 2771.1 | 2785.0 | 2768.0 | 2760.3 | 2769.6 | 2764.9 | 2757.2 | 2751.0 | 2771.1 |
| 27.5°  | 2610.2 | 2642.7 | 2669.0 | 2703.0 | 2704.6 | 2698.4 | 2723.2 | 2720.1 | 2718.5 | 2709.2 | 2724.7 |
| 30°    | 2426.1 | 2477.1 | 2512.7 | 2562.2 | 2604.0 | 2610.2 | 2652.0 | 2658.2 | 2664.4 | 2659.7 | 2675.2 |
| 32.5°  | 2203.3 | 2272.9 | 2333.2 | 2410.6 | 2450.8 | 2486.4 | 2545.2 | 2570.0 | 2594.7 | 2602.5 | 2619.5 |
| 35°    | 1960.4 | 2039.3 | 2110.4 | 2195.5 | 2259.0 | 2336.3 | 2407.5 | 2444.6 | 2500.3 | 2522.0 | 2546.8 |
| 37.5°  | 1729.8 | 1804.1 | 1873.7 | 1958.8 | 2060.9 | 2141.4 | 2229.6 | 2313.1 | 2388.9 | 2419.9 | 2457.0 |
| 40°    | 1525.6 | 1585.9 | 1652.5 | 1726.7 | 1819.6 | 1924.8 | 2020.7 | 2136.7 | 2226.5 | 2288.4 | 2342.5 |
| 42.5°  | 1370.9 | 1400.3 | 1457.5 | 1524.0 | 1598.3 | 1705.1 | 1802.5 | 1932.5 | 2040.8 | 2129.0 | 2218.8 |
| 45°    | 1233.2 | 1247.1 | 1288.9 | 1324.4 | 1400.3 | 1494.6 | 1598.3 | 1725.2 | 1838.1 | 1951.1 | 2059.4 |
| 47.5°  | 1115.6 | 1132.6 | 1152.7 | 1174.4 | 1228.5 | 1307.4 | 1397.2 | 1511.7 | 1624.6 | 1756.1 | 1879.9 |
| 50°    | 1036.7 | 1041.3 | 1044.4 | 1053.7 | 1086.2 | 1140.3 | 1213.0 | 1310.5 | 1418.8 | 1559.6 | 1691.1 |
| 52.5°  | 967.0  | 967.0  | 957.7  | 953.1  | 965.5  | 999.5  | 1041.3 | 1110.9 | 1222.3 | 1352.3 | 1491.5 |
| 55°    | 892.8  | 878.8  | 875.7  | 860.3  | 863.4  | 878.8  | 898.9  | 953.1  | 1044.4 | 1155.8 | 1290.4 |
| 57.5°  | 789.1  | 782.9  | 782.9  | 776.7  | 764.3  | 772.1  | 776.7  | 815.4  | 880.4  | 976.3  | 1093.9 |
| 60°    | 670.0  | 666.9  | 674.6  | 676.1  | 665.3  | 670.0  | 668.4  | 691.6  | 738.0  | 815.4  | 912.9  |
| 62.5°  | 550.8  | 564.7  | 566.3  | 572.5  | 566.3  | 564.7  | 572.5  | 592.6  | 615.8  | 674.6  | 750.4  |
| 65°    | 462.6  | 470.4  | 471.9  | 479.6  | 476.6  | 476.6  | 482.7  | 498.2  | 512.1  | 552.4  | 611.2  |
| 67.5°  | 405.4  | 402.3  | 403.8  | 408.5  | 403.8  | 402.3  | 406.9  | 416.2  | 427.0  | 451.8  | 493.6  |
| 70°    | 360.5  | 357.4  | 357.4  | 357.4  | 351.2  | 346.6  | 348.1  | 351.2  | 355.9  | 369.8  | 396.1  |
| 72.5°  | 326.5  | 326.5  | 321.8  | 317.2  | 312.5  | 309.4  | 306.4  | 303.3  | 301.7  | 306.4  | 320.3  |
| 75°    | 295.5  | 297.1  | 295.5  | 290.9  | 284.7  | 278.5  | 272.3  | 266.1  | 258.4  | 255.3  | 256.8  |
| 77.5°  | 267.7  | 269.2  | 270.8  | 269.2  | 263.0  | 255.3  | 246.0  | 236.7  | 225.9  | 215.1  | 208.9  |
| 80°    | 242.9  | 246.0  | 247.6  | 246.0  | 241.4  | 235.2  | 224.4  | 213.5  | 198.0  | 184.1  | 168.6  |
| 82.5°  | 221.3  | 225.9  | 227.4  | 227.4  | 224.4  | 218.2  | 205.8  | 193.4  | 176.4  | 157.8  | 137.7  |
| 85°    | 204.2  | 207.3  | 210.4  | 210.4  | 208.9  | 202.7  | 190.3  | 176.4  | 159.4  | 137.7  | 116.0  |
| 87.5°  | 187.2  | 188.8  | 191.9  | 195.0  | 191.9  | 185.7  | 174.8  | 159.4  | 142.3  | 120.7  | 95.9   |
| 90°    | 170.2  | 171.7  | 174.8  | 177.9  | 176.4  | 170.2  | 160.9  | 147.0  | 128.4  | 105.2  | 80.5   |
| 92.5°  | 153.2  | 156.3  | 157.8  | 159.4  | 160.9  | 156.3  | 148.5  | 134.6  | 116.0  | 92.8   | 69.6   |
| 95°    | 140.8  | 140.8  | 143.9  | 145.4  | 147.0  | 142.3  | 136.2  | 122.2  | 105.2  | 83.6   | 60.3   |
| 97.5°  | 128.4  | 128.4  | 131.5  | 131.5  | 133.1  | 130.0  | 123.8  | 111.4  | 94.4   | 74.3   | 51.1   |
| 100°   | 116.0  | 117.6  | 119.1  | 120.7  | 120.7  | 119.1  | 112.9  | 100.6  | 85.1   | 66.5   | 44.9   |
| 102.5° | 108.3  | 108.3  | 109.9  | 109.9  | 111.4  | 108.3  | 102.1  | 91.3   | 75.8   | 58.8   | 38.7   |
| 105°   | 100.6  | 100.6  | 102.1  | 102.1  | 100.6  | 97.5   | 91.3   | 82.0   | 68.1   | 51.1   | 34.0   |
| 107.5° | 94.4   | 94.4   | 94.4   | 94.4   | 92.8   | 89.7   | 83.6   | 72.7   | 60.3   | 46.4   | 30.9   |
| 110°   | 89.7   | 88.2   | 88.2   | 86.6   | 85.1   | 80.5   | 74.3   | 65.0   | 54.2   | 40.2   | 26.3   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 85.1 | 83.6 | 82.0 | 80.5 | 77.4 | 72.7 | 66.5 | 58.8 | 48.0 | 35.6 | 23.2 |
| 115°   | 80.5 | 78.9 | 77.4 | 74.3 | 71.2 | 66.5 | 60.3 | 52.6 | 41.8 | 30.9 | 20.1 |
| 117.5° | 75.8 | 74.3 | 71.2 | 68.1 | 65.0 | 60.3 | 54.2 | 46.4 | 37.1 | 27.9 | 18.6 |
| 120°   | 69.6 | 68.1 | 66.5 | 63.4 | 60.3 | 54.2 | 48.0 | 41.8 | 32.5 | 24.8 | 15.5 |
| 122.5° | 65.0 | 63.4 | 60.3 | 58.8 | 54.2 | 49.5 | 43.3 | 37.1 | 29.4 | 21.7 | 13.9 |
| 125°   | 58.8 | 57.2 | 55.7 | 52.6 | 49.5 | 43.3 | 38.7 | 32.5 | 26.3 | 18.6 | 10.8 |
| 127.5° | 54.2 | 52.6 | 49.5 | 46.4 | 43.3 | 38.7 | 34.0 | 29.4 | 23.2 | 15.5 | 10.8 |
| 130°   | 48.0 | 46.4 | 44.9 | 41.8 | 38.7 | 34.0 | 30.9 | 24.8 | 20.1 | 13.9 | 9.3  |
| 132.5° | 41.8 | 41.8 | 40.2 | 37.1 | 34.0 | 30.9 | 26.3 | 21.7 | 17.0 | 12.4 | 7.7  |
| 135°   | 38.7 | 37.1 | 35.6 | 32.5 | 30.9 | 26.3 | 23.2 | 18.6 | 13.9 | 10.8 | 6.2  |
| 137.5° | 34.0 | 32.5 | 30.9 | 29.4 | 26.3 | 23.2 | 20.1 | 15.5 | 12.4 | 9.3  | 6.2  |
| 140°   | 29.4 | 27.9 | 27.9 | 24.8 | 23.2 | 20.1 | 17.0 | 13.9 | 10.8 | 7.7  | 4.6  |
| 142.5° | 26.3 | 24.8 | 23.2 | 21.7 | 20.1 | 17.0 | 13.9 | 10.8 | 9.3  | 6.2  | 4.6  |
| 145°   | 23.2 | 21.7 | 20.1 | 18.6 | 17.0 | 13.9 | 12.4 | 9.3  | 7.7  | 6.2  | 4.6  |
| 147.5° | 18.6 | 18.6 | 17.0 | 15.5 | 13.9 | 12.4 | 10.8 | 9.3  | 6.2  | 4.6  | 3.1  |
| 150°   | 15.5 | 15.5 | 13.9 | 12.4 | 12.4 | 10.8 | 9.3  | 7.7  | 6.2  | 4.6  | 3.1  |
| 152.5° | 13.9 | 12.4 | 12.4 | 10.8 | 10.8 | 9.3  | 7.7  | 6.2  | 4.6  | 4.6  | 3.1  |
| 155°   | 10.8 | 10.8 | 10.8 | 9.3  | 9.3  | 7.7  | 6.2  | 6.2  | 4.6  | 3.1  | 3.1  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 3000.1 | 2981.5 | 2997.0 | 3024.9 | 3021.8 | 3018.7 | 3015.6 | 3021.8 | 3041.9 | 3031.1 | 3014.0 |
| 5°     | 2995.5 | 2976.9 | 2993.9 | 3020.2 | 3018.7 | 3014.0 | 3010.9 | 3017.1 | 3037.2 | 3026.4 | 3007.8 |
| 7.5°   | 2986.2 | 2969.2 | 2981.5 | 3007.8 | 3007.8 | 3004.8 | 3001.7 | 3007.8 | 3026.4 | 3017.1 | 2998.6 |
| 10°    | 2970.7 | 2958.3 | 2970.7 | 2995.5 | 2997.0 | 2990.8 | 2987.7 | 2995.5 | 3014.0 | 3009.4 | 2993.9 |
| 12.5°  | 2958.3 | 2946.0 | 2959.9 | 2984.6 | 2986.2 | 2980.0 | 2975.4 | 2984.6 | 3009.4 | 3012.5 | 3007.8 |
| 15°    | 2941.3 | 2930.5 | 2947.5 | 2973.8 | 2973.8 | 2969.2 | 2969.2 | 2981.5 | 3015.6 | 3029.5 | 3037.2 |
| 17.5°  | 2916.6 | 2908.8 | 2928.9 | 2955.2 | 2956.8 | 2953.7 | 2955.2 | 2980.0 | 3024.9 | 3058.9 | 3080.6 |
| 20°    | 2885.6 | 2882.5 | 2904.2 | 2932.0 | 2936.7 | 2938.2 | 2946.0 | 2983.1 | 3045.0 | 3091.4 | 3113.1 |
| 22.5°  | 2848.5 | 2850.0 | 2874.8 | 2904.2 | 2910.4 | 2915.0 | 2930.5 | 2983.1 | 3060.5 | 3110.0 | 3119.2 |
| 25°    | 2806.7 | 2811.3 | 2837.6 | 2873.2 | 2881.0 | 2890.3 | 2916.6 | 2984.6 | 3065.1 | 3097.6 | 3082.1 |
| 27.5°  | 2761.8 | 2771.1 | 2805.2 | 2842.3 | 2851.6 | 2867.0 | 2901.1 | 2975.4 | 3043.4 | 3045.0 | 2987.7 |
| 30°    | 2715.4 | 2726.2 | 2766.5 | 2809.8 | 2825.3 | 2840.7 | 2882.5 | 2953.7 | 2990.8 | 2941.3 | 2840.7 |
| 32.5°  | 2662.8 | 2678.3 | 2718.5 | 2771.1 | 2789.7 | 2809.8 | 2851.6 | 2911.9 | 2898.0 | 2791.2 | 2647.3 |
| 35°    | 2596.3 | 2617.9 | 2664.4 | 2726.2 | 2743.3 | 2769.6 | 2799.0 | 2812.9 | 2751.0 | 2599.4 | 2436.9 |
| 37.5°  | 2514.3 | 2546.8 | 2600.9 | 2672.1 | 2690.7 | 2707.7 | 2715.4 | 2676.7 | 2553.0 | 2388.9 | 2220.3 |
| 40°    | 2419.9 | 2469.4 | 2528.2 | 2607.1 | 2625.7 | 2625.7 | 2597.8 | 2515.8 | 2359.6 | 2144.5 | 1957.3 |
| 42.5°  | 2305.4 | 2365.7 | 2440.0 | 2518.9 | 2537.5 | 2515.8 | 2449.3 | 2305.4 | 2127.5 | 1887.6 | 1689.6 |
| 45°    | 2166.1 | 2246.6 | 2330.2 | 2412.2 | 2421.4 | 2373.5 | 2254.3 | 2071.8 | 1852.1 | 1629.3 | 1440.5 |
| 47.5°  | 2000.6 | 2105.8 | 2197.1 | 2289.9 | 2277.5 | 2197.1 | 2037.7 | 1830.4 | 1598.3 | 1387.9 | 1236.2 |
| 50°    | 1814.9 | 1938.7 | 2040.8 | 2129.0 | 2102.7 | 1991.3 | 1804.1 | 1587.5 | 1356.9 | 1177.5 | 1052.1 |
| 52.5°  | 1616.9 | 1759.2 | 1861.3 | 1932.5 | 1896.9 | 1763.9 | 1558.1 | 1350.7 | 1162.0 | 998.0  | 914.4  |
| 55°    | 1411.1 | 1555.0 | 1660.2 | 1715.9 | 1669.5 | 1525.6 | 1322.9 | 1134.1 | 956.2  | 849.4  | 799.9  |
| 57.5°  | 1211.5 | 1346.1 | 1445.1 | 1490.0 | 1431.2 | 1287.3 | 1100.1 | 940.7  | 812.3  | 722.6  | 697.8  |
| 60°    | 1019.6 | 1129.5 | 1223.9 | 1257.9 | 1194.5 | 1061.4 | 900.5  | 773.6  | 679.2  | 617.4  | 605.0  |
| 62.5°  | 841.7  | 931.4  | 1005.7 | 1032.0 | 970.1  | 866.5  | 727.2  | 632.8  | 566.3  | 535.3  | 519.9  |
| 65°    | 694.7  | 747.3  | 823.1  | 818.5  | 781.4  | 685.4  | 583.3  | 516.8  | 473.5  | 453.3  | 444.1  |
| 67.5°  | 546.2  | 594.1  | 642.1  | 648.3  | 601.9  | 535.3  | 468.8  | 420.9  | 397.6  | 386.8  | 382.2  |
| 70°    | 422.4  | 458.0  | 487.4  | 479.6  | 454.9  | 413.1  | 371.3  | 345.0  | 335.8  | 331.1  | 331.1  |
| 72.5°  | 328.0  | 346.6  | 360.5  | 351.2  | 335.8  | 314.1  | 294.0  | 283.1  | 284.7  | 287.8  | 290.9  |
| 75°    | 253.7  | 258.4  | 261.5  | 252.2  | 249.1  | 235.2  | 233.6  | 235.2  | 244.5  | 253.7  | 258.4  |
| 77.5°  | 195.0  | 188.8  | 184.1  | 174.8  | 176.4  | 174.8  | 182.6  | 195.0  | 208.9  | 222.8  | 235.2  |
| 80°    | 150.1  | 136.2  | 125.3  | 116.0  | 120.7  | 128.4  | 143.9  | 162.5  | 181.0  | 196.5  | 212.0  |
| 82.5°  | 116.0  | 95.9   | 80.5   | 71.2   | 80.5   | 92.8   | 112.9  | 136.2  | 157.8  | 174.8  | 191.9  |
| 85°    | 89.7   | 66.5   | 48.0   | 38.7   | 48.0   | 66.5   | 88.2   | 114.5  | 137.7  | 156.3  | 173.3  |
| 87.5°  | 69.6   | 48.0   | 26.3   | 15.5   | 26.3   | 46.4   | 71.2   | 95.9   | 119.1  | 140.8  | 157.8  |
| 90°    | 55.7   | 32.5   | 12.4   | 3.1    | 13.9   | 32.5   | 55.7   | 80.5   | 103.7  | 126.9  | 143.9  |
| 92.5°  | 44.9   | 23.2   | 6.2    | 0.0    | 7.7    | 24.8   | 46.4   | 69.6   | 92.8   | 114.5  | 131.5  |
| 95°    | 37.1   | 18.6   | 4.6    | 0.0    | 6.2    | 18.6   | 37.1   | 60.3   | 82.0   | 103.7  | 117.6  |
| 97.5°  | 30.9   | 13.9   | 3.1    | 0.0    | 3.1    | 15.5   | 30.9   | 51.1   | 72.7   | 92.8   | 106.8  |
| 100°   | 26.3   | 12.4   | 3.1    | 0.0    | 3.1    | 12.4   | 26.3   | 44.9   | 63.4   | 82.0   | 95.9   |
| 102.5° | 21.7   | 9.3    | 1.5    | 1.5    | 1.5    | 9.3    | 23.2   | 38.7   | 55.7   | 72.7   | 86.6   |
| 105°   | 20.1   | 7.7    | 1.5    | 1.5    | 1.5    | 7.7    | 20.1   | 34.0   | 49.5   | 65.0   | 77.4   |
| 107.5° | 17.0   | 6.2    | 1.5    | 1.5    | 1.5    | 6.2    | 17.0   | 29.4   | 44.9   | 58.8   | 69.6   |
| 110°   | 13.9   | 6.2    | 1.5    | 1.5    | 1.5    | 6.2    | 13.9   | 26.3   | 38.7   | 51.1   | 61.9   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 12.4 | 4.6  | 1.5  | 1.5  | 1.5  | 4.6  | 12.4 | 23.2 | 34.0 | 46.4 | 55.7 |
| 115°   | 10.8 | 4.6  | 1.5  | 1.5  | 1.5  | 4.6  | 10.8 | 20.1 | 29.4 | 40.2 | 49.5 |
| 117.5° | 9.3  | 4.6  | 1.5  | 1.5  | 1.5  | 3.1  | 9.3  | 17.0 | 26.3 | 35.6 | 44.9 |
| 120°   | 7.7  | 3.1  | 1.5  | 1.5  | 1.5  | 3.1  | 7.7  | 15.5 | 23.2 | 30.9 | 38.7 |
| 122.5° | 7.7  | 3.1  | 1.5  | 1.5  | 1.5  | 3.1  | 6.2  | 12.4 | 20.1 | 26.3 | 34.0 |
| 125°   | 6.2  | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 6.2  | 10.8 | 17.0 | 23.2 | 29.4 |
| 127.5° | 6.2  | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 4.6  | 9.3  | 13.9 | 20.1 | 26.3 |
| 130°   | 4.6  | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 7.7  | 12.4 | 17.0 | 21.7 |
| 132.5° | 4.6  | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 6.2  | 9.3  | 13.9 | 18.6 |
| 135°   | 4.6  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 4.6  | 7.7  | 10.8 | 13.9 |
| 137.5° | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 6.2  | 7.7  | 12.4 |
| 140°   | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 4.6  | 6.2  | 9.3  |
| 142.5° | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 4.6  | 7.7  |
| 145°   | 3.1  | 1.5  | 1.5  | 3.1  | 3.1  | 1.5  | 1.5  | 3.1  | 3.1  | 4.6  | 6.2  |
| 147.5° | 3.1  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 3.1  | 3.1  | 4.6  |
| 150°   | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 4.6  |
| 152.5° | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
| 155°   | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 3010.9 | 2975.4 | 2993.9 | 2987.7 | 2993.9 | 3009.4 | 3007.8 | 3003.2 | 3006.3 | 2998.6 | 2990.8 |
| 5°     | 3004.8 | 2969.2 | 2987.7 | 2980.0 | 2987.7 | 3003.2 | 3000.1 | 2995.5 | 3000.1 | 2990.8 | 2983.1 |
| 7.5°   | 2997.0 | 2964.5 | 2986.2 | 2984.6 | 2998.6 | 3018.7 | 3020.2 | 3020.2 | 3031.1 | 3017.1 | 3010.9 |
| 10°    | 2997.0 | 2980.0 | 3009.4 | 3020.2 | 3055.8 | 3082.1 | 3085.2 | 3091.4 | 3110.0 | 3106.9 | 3091.4 |
| 12.5°  | 3029.5 | 3026.4 | 3069.7 | 3096.0 | 3128.5 | 3165.7 | 3185.8 | 3192.0 | 3204.3 | 3195.1 | 3188.9 |
| 15°    | 3071.3 | 3086.8 | 3134.7 | 3164.1 | 3199.7 | 3227.6 | 3232.2 | 3235.3 | 3244.6 | 3230.6 | 3219.8 |
| 17.5°  | 3127.0 | 3136.3 | 3174.9 | 3187.3 | 3210.5 | 3215.2 | 3209.0 | 3193.5 | 3193.5 | 3162.6 | 3153.3 |
| 20°    | 3153.3 | 3148.6 | 3164.1 | 3144.0 | 3134.7 | 3106.9 | 3080.6 | 3051.2 | 3049.6 | 3017.1 | 3014.0 |
| 22.5°  | 3130.1 | 3099.1 | 3066.6 | 3017.1 | 2995.5 | 2955.2 | 2919.7 | 2902.6 | 2891.8 | 2850.0 | 2839.2 |
| 25°    | 3048.1 | 2972.3 | 2924.3 | 2865.5 | 2812.9 | 2766.5 | 2732.4 | 2696.8 | 2662.8 | 2628.8 | 2613.3 |
| 27.5°  | 2905.7 | 2834.6 | 2757.2 | 2675.2 | 2602.5 | 2531.3 | 2474.0 | 2438.5 | 2406.0 | 2361.1 | 2337.9 |
| 30°    | 2730.9 | 2631.9 | 2546.8 | 2467.9 | 2348.7 | 2262.1 | 2214.1 | 2142.9 | 2118.2 | 2098.1 | 2054.7 |
| 32.5°  | 2525.1 | 2406.0 | 2289.9 | 2183.2 | 2060.9 | 1980.5 | 1917.0 | 1864.4 | 1849.0 | 1796.4 | 1784.0 |
| 35°    | 2297.7 | 2141.4 | 2009.9 | 1904.7 | 1816.5 | 1719.0 | 1666.4 | 1630.8 | 1599.9 | 1564.3 | 1558.1 |
| 37.5°  | 2030.0 | 1889.2 | 1740.7 | 1647.8 | 1578.2 | 1494.6 | 1454.4 | 1429.7 | 1415.7 | 1389.4 | 1384.8 |
| 40°    | 1760.8 | 1620.0 | 1517.8 | 1425.0 | 1381.7 | 1336.8 | 1307.4 | 1296.6 | 1290.4 | 1281.1 | 1271.8 |
| 42.5°  | 1516.3 | 1392.5 | 1319.8 | 1257.9 | 1239.3 | 1217.7 | 1209.9 | 1216.1 | 1209.9 | 1206.9 | 1205.3 |
| 45°    | 1309.0 | 1214.6 | 1163.5 | 1145.0 | 1140.3 | 1134.1 | 1140.3 | 1151.2 | 1152.7 | 1149.6 | 1149.6 |
| 47.5°  | 1120.2 | 1075.3 | 1053.7 | 1056.8 | 1064.5 | 1069.1 | 1080.0 | 1093.9 | 1097.0 | 1089.3 | 1092.4 |
| 50°    | 996.4  | 970.1  | 965.5  | 977.9  | 994.9  | 1001.1 | 1013.4 | 1024.3 | 1022.7 | 1019.6 | 1016.5 |
| 52.5°  | 880.4  | 872.6  | 885.0  | 897.4  | 916.0  | 919.1  | 923.7  | 928.3  | 926.8  | 920.6  | 917.5  |
| 55°    | 782.9  | 789.1  | 799.9  | 804.6  | 818.5  | 816.9  | 818.5  | 818.5  | 812.3  | 809.2  | 804.6  |
| 57.5°  | 694.7  | 696.3  | 702.4  | 704.0  | 711.7  | 708.6  | 707.1  | 704.0  | 694.7  | 693.2  | 688.5  |
| 60°    | 605.0  | 601.9  | 615.8  | 605.0  | 611.2  | 605.0  | 603.4  | 595.7  | 586.4  | 584.9  | 581.8  |
| 62.5°  | 519.9  | 513.7  | 523.0  | 518.3  | 521.4  | 515.2  | 512.1  | 502.9  | 495.1  | 493.6  | 492.0  |
| 65°    | 444.1  | 441.0  | 450.2  | 448.7  | 451.8  | 444.1  | 441.0  | 434.8  | 428.6  | 427.0  | 425.5  |
| 67.5°  | 380.6  | 388.4  | 393.0  | 393.0  | 396.1  | 394.5  | 386.8  | 385.3  | 383.7  | 377.5  | 377.5  |
| 70°    | 334.2  | 338.8  | 348.1  | 349.7  | 348.1  | 351.2  | 345.0  | 343.5  | 341.9  | 338.8  | 337.3  |
| 72.5°  | 297.1  | 303.3  | 312.5  | 314.1  | 312.5  | 312.5  | 309.4  | 307.9  | 307.9  | 303.3  | 303.3  |
| 75°    | 267.7  | 275.4  | 283.1  | 283.1  | 283.1  | 280.1  | 277.0  | 277.0  | 273.9  | 272.3  | 269.2  |
| 77.5°  | 242.9  | 252.2  | 258.4  | 256.8  | 255.3  | 252.2  | 252.2  | 247.6  | 242.9  | 242.9  | 239.8  |
| 80°    | 224.4  | 230.5  | 235.2  | 233.6  | 232.1  | 227.4  | 225.9  | 221.3  | 218.2  | 213.5  | 213.5  |
| 82.5°  | 204.2  | 212.0  | 215.1  | 213.5  | 210.4  | 205.8  | 204.2  | 201.1  | 198.0  | 196.5  | 193.4  |
| 85°    | 187.2  | 195.0  | 196.5  | 193.4  | 190.3  | 187.2  | 185.7  | 184.1  | 182.6  | 179.5  | 179.5  |
| 87.5°  | 170.2  | 177.9  | 177.9  | 176.4  | 173.3  | 171.7  | 170.2  | 168.6  | 167.1  | 165.6  | 164.0  |
| 90°    | 156.3  | 162.5  | 162.5  | 160.9  | 159.4  | 157.8  | 156.3  | 154.7  | 153.2  | 151.6  | 151.6  |
| 92.5°  | 142.3  | 148.5  | 148.5  | 147.0  | 145.4  | 143.9  | 143.9  | 142.3  | 140.8  | 139.3  | 137.7  |
| 95°    | 130.0  | 136.2  | 136.2  | 136.2  | 134.6  | 133.1  | 133.1  | 131.5  | 130.0  | 130.0  | 128.4  |
| 97.5°  | 117.6  | 123.8  | 123.8  | 123.8  | 122.2  | 120.7  | 120.7  | 119.1  | 119.1  | 119.1  | 117.6  |
| 100°   | 106.8  | 111.4  | 112.9  | 112.9  | 111.4  | 111.4  | 111.4  | 109.9  | 109.9  | 109.9  | 108.3  |
| 102.5° | 95.9   | 100.6  | 103.7  | 103.7  | 103.7  | 102.1  | 102.1  | 102.1  | 102.1  | 102.1  | 100.6  |
| 105°   | 86.6   | 91.3   | 94.4   | 95.9   | 95.9   | 95.9   | 95.9   | 95.9   | 95.9   | 95.9   | 95.9   |
| 107.5° | 78.9   | 83.6   | 86.6   | 88.2   | 89.7   | 89.7   | 91.3   | 91.3   | 91.3   | 91.3   | 91.3   |
| 110°   | 71.2   | 75.8   | 80.5   | 82.0   | 83.6   | 85.1   | 85.1   | 86.6   | 85.1   | 85.1   | 85.1   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 63.4 | 69.6 | 72.7 | 75.8 | 77.4 | 78.9 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 |
| 115°   | 57.2 | 63.4 | 66.5 | 69.6 | 72.7 | 74.3 | 74.3 | 75.8 | 75.8 | 75.8 | 74.3 |
| 117.5° | 51.1 | 57.2 | 60.3 | 63.4 | 65.0 | 68.1 | 69.6 | 69.6 | 69.6 | 69.6 | 68.1 |
| 120°   | 46.4 | 51.1 | 54.2 | 57.2 | 60.3 | 61.9 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 122.5° | 40.2 | 44.9 | 49.5 | 52.6 | 54.2 | 55.7 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 |
| 125°   | 35.6 | 40.2 | 43.3 | 46.4 | 48.0 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 127.5° | 30.9 | 35.6 | 38.7 | 41.8 | 43.3 | 44.9 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 |
| 130°   | 26.3 | 30.9 | 34.0 | 37.1 | 38.7 | 40.2 | 40.2 | 41.8 | 41.8 | 41.8 | 41.8 |
| 132.5° | 23.2 | 26.3 | 29.4 | 32.5 | 34.0 | 35.6 | 35.6 | 37.1 | 37.1 | 37.1 | 37.1 |
| 135°   | 18.6 | 23.2 | 24.8 | 27.9 | 29.4 | 30.9 | 30.9 | 32.5 | 32.5 | 32.5 | 32.5 |
| 137.5° | 15.5 | 18.6 | 21.7 | 24.8 | 26.3 | 26.3 | 27.9 | 27.9 | 29.4 | 29.4 | 29.4 |
| 140°   | 12.4 | 13.9 | 18.6 | 20.1 | 21.7 | 23.2 | 24.8 | 24.8 | 24.8 | 24.8 | 24.8 |
| 142.5° | 9.3  | 12.4 | 13.9 | 17.0 | 18.6 | 20.1 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 |
| 145°   | 7.7  | 9.3  | 10.8 | 13.9 | 15.5 | 17.0 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 |
| 147.5° | 6.2  | 7.7  | 9.3  | 10.8 | 12.4 | 13.9 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 150°   | 4.6  | 6.2  | 7.7  | 7.7  | 9.3  | 10.8 | 12.4 | 13.9 | 13.9 | 13.9 | 13.9 |
| 152.5° | 4.6  | 4.6  | 6.2  | 6.2  | 7.7  | 9.3  | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 155°   | 3.1  | 4.6  | 4.6  | 4.6  | 6.2  | 6.2  | 7.7  | 9.3  | 9.3  | 9.3  | 9.3  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 2995.5 | 3001.7 | 2998.6 | 2993.9 | 2992.4 | 3000.1 | 2992.4 | 2956.8 | 2970.7 | 2972.3 | 2983.1 |
| 5°     | 2990.8 | 2995.5 | 2992.4 | 2989.3 | 2984.6 | 2993.9 | 2984.6 | 2947.5 | 2961.4 | 2963.0 | 2973.8 |
| 7.5°   | 3021.8 | 3023.3 | 3023.3 | 3015.6 | 3003.2 | 3007.8 | 2995.5 | 2953.7 | 2961.4 | 2961.4 | 2969.2 |
| 10°    | 3099.1 | 3102.2 | 3106.9 | 3086.8 | 3071.3 | 3058.9 | 3041.9 | 2990.8 | 2989.3 | 2976.9 | 2976.9 |
| 12.5°  | 3199.7 | 3192.0 | 3184.2 | 3174.9 | 3162.6 | 3147.1 | 3122.3 | 3062.0 | 3041.9 | 3021.8 | 3001.7 |
| 15°    | 3229.1 | 3226.0 | 3224.5 | 3219.8 | 3212.1 | 3207.4 | 3188.9 | 3128.5 | 3099.1 | 3074.4 | 3038.8 |
| 17.5°  | 3151.7 | 3157.9 | 3178.0 | 3179.6 | 3188.9 | 3207.4 | 3204.3 | 3162.6 | 3136.3 | 3125.4 | 3082.1 |
| 20°    | 3012.5 | 3014.0 | 3038.8 | 3049.6 | 3089.9 | 3120.8 | 3144.0 | 3139.4 | 3133.2 | 3145.6 | 3113.1 |
| 22.5°  | 2845.4 | 2856.2 | 2882.5 | 2899.5 | 2938.2 | 2973.8 | 3010.9 | 3031.1 | 3063.5 | 3114.6 | 3108.4 |
| 25°    | 2617.9 | 2631.9 | 2669.0 | 2696.8 | 2751.0 | 2805.2 | 2854.7 | 2890.3 | 2928.9 | 3026.4 | 3058.9 |
| 27.5°  | 2345.6 | 2367.3 | 2415.3 | 2443.1 | 2518.9 | 2574.6 | 2645.8 | 2715.4 | 2769.6 | 2881.0 | 2947.5 |
| 30°    | 2059.4 | 2078.0 | 2129.0 | 2167.7 | 2232.7 | 2308.5 | 2398.2 | 2497.3 | 2587.0 | 2699.9 | 2783.5 |
| 32.5°  | 1791.7 | 1811.8 | 1853.6 | 1887.6 | 1960.4 | 2023.8 | 2122.8 | 2245.1 | 2328.6 | 2484.9 | 2596.3 |
| 35°    | 1558.1 | 1576.6 | 1606.0 | 1635.4 | 1695.8 | 1760.8 | 1845.9 | 1965.0 | 2071.8 | 2234.2 | 2375.0 |
| 37.5°  | 1394.1 | 1397.2 | 1414.2 | 1431.2 | 1476.1 | 1525.6 | 1592.1 | 1697.3 | 1796.4 | 1971.2 | 2125.9 |
| 40°    | 1276.5 | 1276.5 | 1285.8 | 1290.4 | 1310.5 | 1339.9 | 1381.7 | 1463.7 | 1545.7 | 1678.8 | 1867.5 |
| 42.5°  | 1203.8 | 1200.7 | 1200.7 | 1202.2 | 1200.7 | 1214.6 | 1239.3 | 1278.0 | 1350.7 | 1460.6 | 1607.6 |
| 45°    | 1149.6 | 1143.4 | 1138.8 | 1127.9 | 1121.8 | 1121.8 | 1123.3 | 1137.2 | 1179.0 | 1250.2 | 1369.3 |
| 47.5°  | 1089.3 | 1087.7 | 1080.0 | 1067.6 | 1056.8 | 1049.0 | 1036.7 | 1032.0 | 1044.4 | 1084.6 | 1165.1 |
| 50°    | 1019.6 | 1011.9 | 1004.2 | 994.9  | 982.5  | 974.8  | 951.6  | 953.1  | 942.3  | 960.8  | 1002.6 |
| 52.5°  | 917.5  | 911.3  | 908.2  | 900.5  | 895.9  | 892.8  | 874.2  | 855.6  | 851.0  | 854.1  | 869.6  |
| 55°    | 804.6  | 807.7  | 795.3  | 801.5  | 799.9  | 786.0  | 778.3  | 764.3  | 759.7  | 758.2  | 765.9  |
| 57.5°  | 687.0  | 690.1  | 682.3  | 688.5  | 688.5  | 680.8  | 676.1  | 676.1  | 665.3  | 656.0  | 666.9  |
| 60°    | 580.2  | 574.0  | 578.7  | 586.4  | 586.4  | 581.8  | 578.7  | 578.7  | 570.9  | 567.8  | 575.6  |
| 62.5°  | 493.6  | 487.4  | 492.0  | 499.8  | 501.3  | 498.2  | 495.1  | 495.1  | 485.8  | 485.8  | 492.0  |
| 65°    | 427.0  | 428.6  | 427.0  | 433.2  | 433.2  | 434.8  | 431.7  | 428.6  | 417.8  | 422.4  | 420.9  |
| 67.5°  | 379.1  | 377.5  | 377.5  | 383.7  | 382.2  | 385.3  | 382.2  | 377.5  | 369.8  | 363.6  | 362.1  |
| 70°    | 338.8  | 337.3  | 337.3  | 340.4  | 341.9  | 341.9  | 340.4  | 337.3  | 326.5  | 320.3  | 315.6  |
| 72.5°  | 303.3  | 301.7  | 303.3  | 304.8  | 306.4  | 307.9  | 306.4  | 303.3  | 294.0  | 286.2  | 278.5  |
| 75°    | 270.8  | 269.2  | 273.9  | 273.9  | 275.4  | 275.4  | 277.0  | 275.4  | 267.7  | 258.4  | 249.1  |
| 77.5°  | 238.3  | 239.8  | 244.5  | 246.0  | 249.1  | 250.7  | 252.2  | 252.2  | 244.5  | 236.7  | 224.4  |
| 80°    | 212.0  | 215.1  | 218.2  | 219.7  | 222.8  | 227.4  | 229.0  | 230.5  | 224.4  | 216.6  | 202.7  |
| 82.5°  | 193.4  | 195.0  | 198.0  | 199.6  | 204.2  | 205.8  | 207.3  | 210.4  | 207.3  | 199.6  | 184.1  |
| 85°    | 177.9  | 179.5  | 182.6  | 182.6  | 185.7  | 188.8  | 190.3  | 191.9  | 190.3  | 182.6  | 167.1  |
| 87.5°  | 164.0  | 165.6  | 167.1  | 168.6  | 170.2  | 171.7  | 173.3  | 174.8  | 173.3  | 165.6  | 151.6  |
| 90°    | 151.6  | 151.6  | 153.2  | 153.2  | 154.7  | 156.3  | 159.4  | 159.4  | 157.8  | 151.6  | 137.7  |
| 92.5°  | 137.7  | 139.3  | 139.3  | 140.8  | 142.3  | 143.9  | 145.4  | 145.4  | 143.9  | 137.7  | 125.3  |
| 95°    | 128.4  | 128.4  | 130.0  | 130.0  | 131.5  | 131.5  | 133.1  | 133.1  | 131.5  | 125.3  | 112.9  |
| 97.5°  | 117.6  | 117.6  | 117.6  | 117.6  | 119.1  | 119.1  | 120.7  | 120.7  | 119.1  | 112.9  | 102.1  |
| 100°   | 108.3  | 108.3  | 108.3  | 108.3  | 108.3  | 109.9  | 109.9  | 109.9  | 108.3  | 102.1  | 91.3   |
| 102.5° | 100.6  | 100.6  | 100.6  | 100.6  | 100.6  | 100.6  | 100.6  | 100.6  | 97.5   | 92.8   | 82.0   |
| 105°   | 95.9   | 95.9   | 95.9   | 94.4   | 94.4   | 94.4   | 92.8   | 92.8   | 88.2   | 83.6   | 74.3   |
| 107.5° | 89.7   | 89.7   | 89.7   | 88.2   | 88.2   | 86.6   | 85.1   | 85.1   | 80.5   | 75.8   | 66.5   |
| 110°   | 85.1   | 85.1   | 85.1   | 83.6   | 82.0   | 80.5   | 78.9   | 77.4   | 72.7   | 66.5   | 58.8   |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 80.5 | 80.5 | 78.9 | 78.9 | 77.4 | 75.8 | 72.7 | 71.2 | 66.5 | 60.3 | 52.6 |
| 115°   | 74.3 | 74.3 | 74.3 | 72.7 | 71.2 | 69.6 | 68.1 | 65.0 | 60.3 | 54.2 | 46.4 |
| 117.5° | 68.1 | 68.1 | 68.1 | 66.5 | 65.0 | 63.4 | 61.9 | 58.8 | 54.2 | 48.0 | 41.8 |
| 120°   | 61.9 | 61.9 | 61.9 | 60.3 | 58.8 | 57.2 | 55.7 | 52.6 | 48.0 | 43.3 | 35.6 |
| 122.5° | 57.2 | 57.2 | 55.7 | 54.2 | 52.6 | 51.1 | 49.5 | 46.4 | 43.3 | 37.1 | 30.9 |
| 125°   | 51.1 | 51.1 | 49.5 | 49.5 | 48.0 | 46.4 | 44.9 | 41.8 | 37.1 | 32.5 | 27.9 |
| 127.5° | 46.4 | 44.9 | 44.9 | 44.9 | 43.3 | 41.8 | 38.7 | 37.1 | 32.5 | 27.9 | 23.2 |
| 130°   | 40.2 | 40.2 | 40.2 | 38.7 | 38.7 | 37.1 | 34.0 | 30.9 | 27.9 | 24.8 | 20.1 |
| 132.5° | 35.6 | 35.6 | 35.6 | 35.6 | 34.0 | 32.5 | 29.4 | 27.9 | 24.8 | 20.1 | 17.0 |
| 135°   | 32.5 | 32.5 | 30.9 | 30.9 | 29.4 | 27.9 | 26.3 | 23.2 | 20.1 | 17.0 | 13.9 |
| 137.5° | 27.9 | 27.9 | 27.9 | 26.3 | 26.3 | 24.8 | 21.7 | 20.1 | 18.6 | 15.5 | 12.4 |
| 140°   | 24.8 | 24.8 | 23.2 | 23.2 | 21.7 | 21.7 | 20.1 | 17.0 | 15.5 | 12.4 | 10.8 |
| 142.5° | 21.7 | 21.7 | 20.1 | 20.1 | 18.6 | 18.6 | 17.0 | 15.5 | 12.4 | 10.8 | 7.7  |
| 145°   | 18.6 | 18.6 | 17.0 | 17.0 | 17.0 | 15.5 | 13.9 | 12.4 | 10.8 | 9.3  | 7.7  |
| 147.5° | 15.5 | 15.5 | 15.5 | 13.9 | 13.9 | 12.4 | 12.4 | 10.8 | 9.3  | 7.7  | 6.2  |
| 150°   | 13.9 | 13.9 | 12.4 | 12.4 | 12.4 | 10.8 | 9.3  | 9.3  | 7.7  | 6.2  | 4.6  |
| 152.5° | 10.8 | 10.8 | 10.8 | 10.8 | 9.3  | 9.3  | 7.7  | 7.7  | 6.2  | 4.6  | 4.6  |
| 155°   | 9.3  | 9.3  | 9.3  | 7.7  | 7.7  | 7.7  | 6.2  | 6.2  | 4.6  | 4.6  | 3.1  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 | 2995.5 |
| 2.5°   | 2978.4 | 2976.9 | 2990.8 | 2989.3 | 2970.7 | 2998.6 | 3017.1 |
| 5°     | 2970.7 | 2969.2 | 2981.5 | 2984.6 | 2964.5 | 2993.9 | 3014.0 |
| 7.5°   | 2964.5 | 2963.0 | 2976.9 | 2981.5 | 2961.4 | 2987.7 | 3009.4 |
| 10°    | 2966.1 | 2958.3 | 2970.7 | 2973.8 | 2955.2 | 2983.1 | 3001.7 |
| 12.5°  | 2976.9 | 2958.3 | 2963.0 | 2963.0 | 2946.0 | 2970.7 | 2990.8 |
| 15°    | 3003.2 | 2964.5 | 2958.3 | 2953.7 | 2932.0 | 2955.2 | 2975.4 |
| 17.5°  | 3032.6 | 2980.0 | 2958.3 | 2942.9 | 2916.6 | 2936.7 | 2958.3 |
| 20°    | 3062.0 | 2997.0 | 2961.4 | 2936.7 | 2901.1 | 2919.7 | 2935.1 |
| 22.5°  | 3075.9 | 3012.5 | 2964.5 | 2927.4 | 2882.5 | 2891.8 | 2908.8 |
| 25°    | 3057.4 | 3006.3 | 2958.3 | 2913.5 | 2859.3 | 2860.9 | 2874.8 |
| 27.5°  | 2989.3 | 2975.4 | 2944.4 | 2899.5 | 2840.7 | 2833.0 | 2843.8 |
| 30°    | 2873.2 | 2911.9 | 2913.5 | 2881.0 | 2819.1 | 2803.6 | 2808.3 |
| 32.5°  | 2710.8 | 2797.4 | 2848.5 | 2842.3 | 2788.1 | 2766.5 | 2769.6 |
| 35°    | 2523.6 | 2631.9 | 2743.3 | 2780.4 | 2741.7 | 2724.7 | 2718.5 |
| 37.5°  | 2299.2 | 2444.6 | 2593.2 | 2684.5 | 2678.3 | 2667.5 | 2661.3 |
| 40°    | 2051.6 | 2226.5 | 2402.9 | 2548.3 | 2593.2 | 2593.2 | 2596.3 |
| 42.5°  | 1787.1 | 1991.3 | 2184.7 | 2368.8 | 2474.0 | 2497.3 | 2506.5 |
| 45°    | 1531.8 | 1737.6 | 1948.0 | 2160.0 | 2300.8 | 2373.5 | 2399.8 |
| 47.5°  | 1299.7 | 1507.0 | 1706.6 | 1938.7 | 2125.9 | 2220.3 | 2262.1 |
| 50°    | 1101.6 | 1256.4 | 1466.8 | 1697.3 | 1901.6 | 2017.6 | 2099.6 |
| 52.5°  | 937.6  | 1058.3 | 1242.4 | 1457.5 | 1663.3 | 1822.7 | 1898.5 |
| 55°    | 799.9  | 881.9  | 1038.2 | 1223.9 | 1420.4 | 1585.9 | 1674.1 |
| 57.5°  | 683.9  | 748.9  | 855.6  | 1010.4 | 1175.9 | 1339.9 | 1434.3 |
| 60°    | 581.8  | 626.6  | 699.4  | 821.6  | 962.4  | 1103.2 | 1194.5 |
| 62.5°  | 493.6  | 523.0  | 570.9  | 660.7  | 770.5  | 880.4  | 965.5  |
| 65°    | 425.5  | 437.9  | 464.2  | 519.9  | 603.4  | 687.0  | 759.7  |
| 67.5°  | 359.0  | 366.7  | 386.8  | 420.9  | 462.6  | 523.0  | 570.9  |
| 70°    | 309.4  | 309.4  | 311.0  | 331.1  | 352.8  | 391.5  | 425.5  |
| 72.5°  | 269.2  | 264.6  | 255.3  | 259.9  | 264.6  | 286.2  | 307.9  |
| 75°    | 236.7  | 225.9  | 210.4  | 204.2  | 201.1  | 204.2  | 216.6  |
| 77.5°  | 208.9  | 193.4  | 174.8  | 159.4  | 147.0  | 142.3  | 153.2  |
| 80°    | 185.7  | 167.1  | 145.4  | 125.3  | 105.2  | 94.4   | 99.0   |
| 82.5°  | 167.1  | 143.9  | 120.7  | 97.5   | 74.3   | 58.8   | 58.8   |
| 85°    | 147.0  | 125.3  | 100.6  | 75.8   | 52.6   | 32.5   | 29.4   |
| 87.5°  | 133.1  | 109.9  | 83.6   | 60.3   | 37.1   | 17.0   | 9.3    |
| 90°    | 119.1  | 95.9   | 71.2   | 48.0   | 26.3   | 7.7    | 0.0    |
| 92.5°  | 106.8  | 85.1   | 61.9   | 38.7   | 18.6   | 4.6    | 0.0    |
| 95°    | 95.9   | 75.8   | 52.6   | 32.5   | 15.5   | 3.1    | 1.5    |
| 97.5°  | 85.1   | 66.5   | 46.4   | 26.3   | 10.8   | 3.1    | 1.5    |
| 100°   | 77.4   | 58.8   | 40.2   | 21.7   | 9.3    | 1.5    | 1.5    |
| 102.5° | 68.1   | 52.6   | 34.0   | 18.6   | 7.7    | 1.5    | 1.5    |
| 105°   | 60.3   | 46.4   | 29.4   | 15.5   | 6.2    | 1.5    | 1.5    |
| 107.5° | 54.2   | 40.2   | 26.3   | 13.9   | 6.2    | 1.5    | 1.5    |
| 110°   | 48.0   | 35.6   | 23.2   | 12.4   | 4.6    | 1.5    | 1.5    |

TEST NUMBER: P1214224

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 43.3 | 30.9 | 20.1 | 10.8 | 3.1  | 1.5  | 1.5  |
| 115°   | 37.1 | 27.9 | 17.0 | 9.3  | 3.1  | 1.5  | 1.5  |
| 117.5° | 32.5 | 23.2 | 15.5 | 7.7  | 3.1  | 1.5  | 1.5  |
| 120°   | 27.9 | 20.1 | 12.4 | 6.2  | 1.5  | 1.5  | 1.5  |
| 122.5° | 24.8 | 17.0 | 10.8 | 6.2  | 1.5  | 1.5  | 1.5  |
| 125°   | 21.7 | 15.5 | 9.3  | 4.6  | 1.5  | 1.5  | 1.5  |
| 127.5° | 18.6 | 12.4 | 7.7  | 3.1  | 1.5  | 1.5  | 1.5  |
| 130°   | 15.5 | 10.8 | 6.2  | 3.1  | 1.5  | 1.5  | 1.5  |
| 132.5° | 12.4 | 9.3  | 6.2  | 3.1  | 1.5  | 1.5  | 1.5  |
| 135°   | 10.8 | 7.7  | 4.6  | 3.1  | 1.5  | 1.5  | 1.5  |
| 137.5° | 9.3  | 6.2  | 3.1  | 3.1  | 3.1  | 1.5  | 1.5  |
| 140°   | 7.7  | 4.6  | 3.1  | 3.1  | 3.1  | 3.1  | 1.5  |
| 142.5° | 6.2  | 4.6  | 3.1  | 3.1  | 3.1  | 3.1  | 1.5  |
| 145°   | 4.6  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 1.5  |
| 147.5° | 4.6  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 1.5  |
| 150°   | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
| 152.5° | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
| 155°   | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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)