

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: P1213100

Luminaire Tested: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

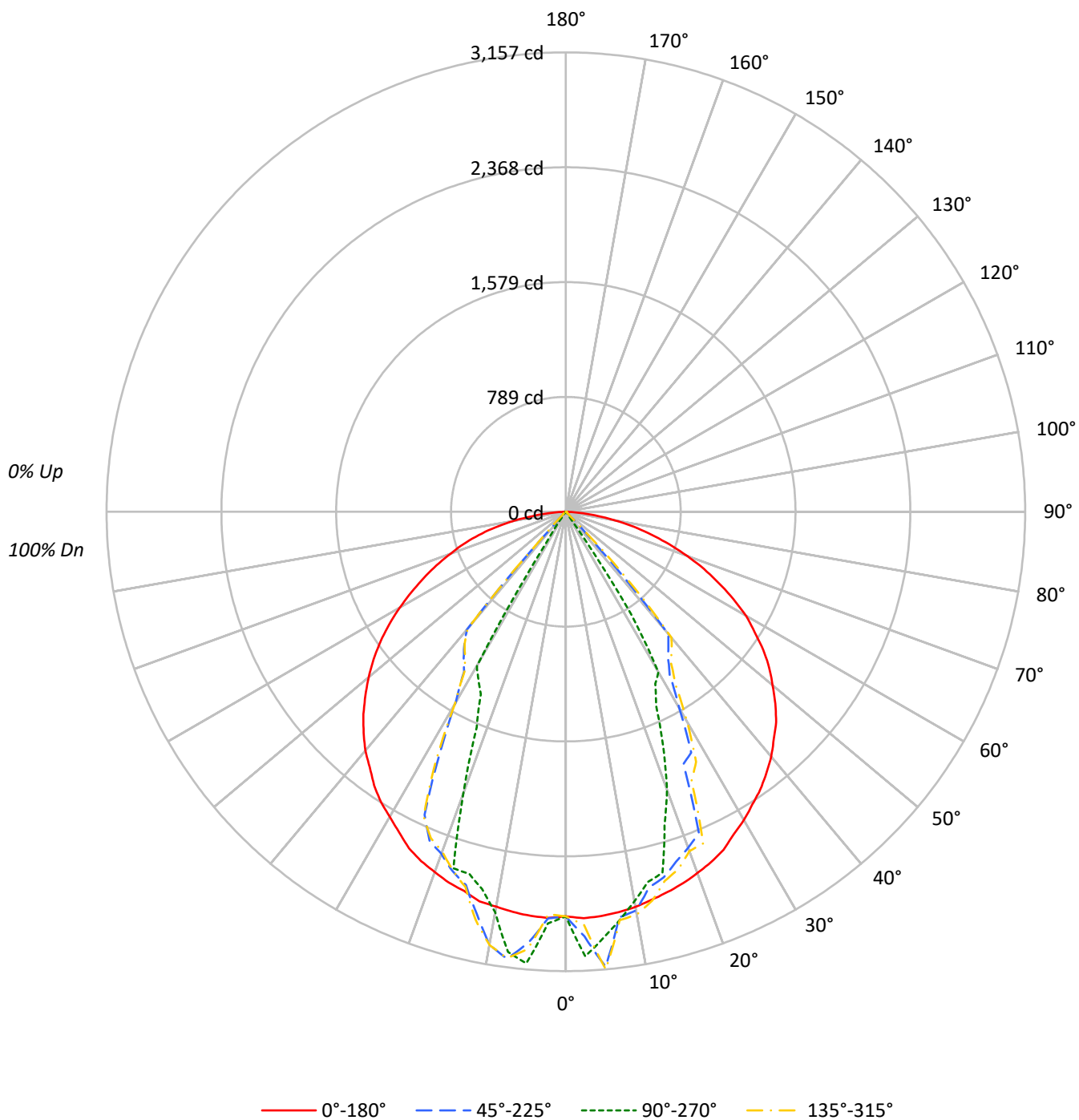
Lumens per Lamp: N/A  
Luminaire Lumens: 3953.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 38  
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: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  |  | 98  | 96  | 95  |  | 95  | 93  | 92  | 90  |
| 2   | 105 | 98  | 93  | 89  | 102 | 97  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  | 85  | 82  | 81  |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  |  | 83  | 79  | 75  |  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 66  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 45  |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 44  | 42  |
| 10  | 63  | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  |  | 50  | 44  | 41  |  | 49  | 44  | 40  | 39  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 22465 | 22465 | 22465 | 22465 |
| 5°  | 22558 | 23106 | 22551 | 24469 |
| 10° | 22503 | 20908 | 22489 | 21512 |
| 15° | 22442 | 19515 | 22387 | 19566 |
| 20° | 22468 | 15371 | 22404 | 15561 |
| 25° | 22532 | 11124 | 22423 | 10497 |
| 30° | 22430 | 9758  | 22193 | 9381  |
| 35° | 22496 | 215   | 22166 | 261   |
| 40° | 22574 | 47    | 22033 | 47    |
| 45° | 22654 | 27    | 21803 | 21    |
| 50° | 22481 | 22    | 21450 | 22    |
| 55° | 22348 | 16    | 20975 | 16    |
| 60° | 21927 | 17    | 20212 | 17    |
| 65° | 20782 | 26    | 19302 | 18    |
| 70° | 19281 | 29    | 18354 | 29    |
| 75° | 17054 | 33    | 17333 | 33    |
| 80° | 13852 | 37    | 14646 | 37    |
| 85° | 8150  | 44    | 8321  | 44    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 24460 cd/sqm

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 278.9  | 7.1       |
| 10°-20°   | 760.8  | 19.2      |
| 20°-30°   | 968.1  | 24.5      |
| 30°-40°   | 817.8  | 20.7      |
| 40°-50°   | 534.6  | 13.5      |
| 50°-60°   | 336.9  | 8.5       |
| 60°-70°   | 179.3  | 4.5       |
| 70°-80°   | 65.4   | 1.7       |
| 80°-90°   | 11.2   | 0.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2007.8 | 50.8      |
| 0°-40°    | 2825.6 | 71.5      |
| 0°-60°    | 3697.1 | 93.5      |
| 0°-90°    | 3953.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3953.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2780 | 2780 | 2780 | 2780 | 2780 |      |
| 5°  | 2788 | 2942 | 2788 | 3116 | 2788 | 265  |
| 15° | 2705 | 2567 | 2698 | 2574 | 2705 | 765  |
| 25° | 2564 | 1466 | 2551 | 1383 | 2564 | 1179 |
| 35° | 2330 | 28   | 2296 | 33   | 2330 | 1458 |
| 45° | 2044 | 3    | 1967 | 2    | 2044 | 1572 |
| 55° | 1657 | 2    | 1555 | 2    | 1657 | 1476 |
| 65° | 1160 | 2    | 1077 | 2    | 1160 | 1149 |
| 75° | 610  | 2    | 620  | 2    | 610  | 647  |
| 85° | 119  | 2    | 122  | 2    | 119  | 151  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2795.9 | 2797.6 | 2798.4 | 2800.1 | 2802.6 | 2803.4 | 2805.1 | 2803.4 | 2803.4 | 2803.4 | 2803.4 |
| 5°    | 2788.4 | 2791.7 | 2794.2 | 2797.6 | 2803.4 | 2804.2 | 2810.9 | 2811.8 | 2815.1 | 2821.8 | 2826.8 |
| 7.5°  | 2775.9 | 2779.2 | 2784.2 | 2792.6 | 2800.9 | 2810.1 | 2821.8 | 2834.3 | 2851.8 | 2868.5 | 2889.3 |
| 10°   | 2757.5 | 2761.7 | 2767.5 | 2775.0 | 2815.9 | 2821.8 | 2847.6 | 2883.5 | 2893.5 | 2946.1 | 2985.3 |
| 12.5° | 2730.8 | 2745.0 | 2760.0 | 2766.7 | 2805.9 | 2867.7 | 2954.4 | 2936.9 | 2917.7 | 3089.6 | 3087.1 |
| 15°   | 2705.0 | 2724.1 | 2716.6 | 2770.9 | 2806.7 | 2914.4 | 2877.7 | 2956.1 | 3099.6 | 3064.6 | 3066.2 |
| 17.5° | 2677.4 | 2681.6 | 2723.3 | 2768.4 | 2832.6 | 2887.7 | 2932.7 | 3040.4 | 3068.7 | 3071.2 | 3040.4 |
| 20°   | 2642.4 | 2662.4 | 2723.3 | 2764.2 | 2872.7 | 2898.5 | 2996.1 | 3051.2 | 3039.5 | 3011.2 | 2958.6 |
| 22.5° | 2606.5 | 2667.4 | 2729.2 | 2786.7 | 2862.6 | 2931.9 | 2980.3 | 3006.2 | 2945.2 | 2833.4 | 2773.4 |
| 25°   | 2563.9 | 2599.8 | 2680.8 | 2765.0 | 2860.1 | 2900.2 | 2928.6 | 2886.8 | 2807.6 | 2707.5 | 2606.5 |
| 27.5° | 2498.0 | 2555.6 | 2659.1 | 2754.2 | 2840.1 | 2888.5 | 2842.6 | 2742.5 | 2614.8 | 2548.9 | 2503.0 |
| 30°   | 2447.1 | 2522.2 | 2607.3 | 2699.1 | 2788.4 | 2816.8 | 2699.9 | 2585.6 | 2498.0 | 2432.1 | 2422.1 |
| 32.5° | 2385.4 | 2492.2 | 2573.1 | 2660.7 | 2735.8 | 2698.3 | 2584.8 | 2437.1 | 2364.5 | 2339.5 | 2349.5 |
| 35°   | 2330.3 | 2411.3 | 2517.2 | 2603.2 | 2657.4 | 2573.1 | 2393.7 | 2302.0 | 2266.9 | 2281.1 | 2262.7 |
| 37.5° | 2264.4 | 2371.2 | 2468.8 | 2543.1 | 2524.7 | 2397.9 | 2246.1 | 2187.7 | 2191.8 | 2180.1 | 2145.1 |
| 40°   | 2196.0 | 2297.8 | 2399.6 | 2469.7 | 2405.4 | 2211.9 | 2110.9 | 2098.4 | 2100.9 | 2063.3 | 2013.3 |
| 42.5° | 2115.9 | 2208.5 | 2310.3 | 2373.7 | 2235.2 | 2084.2 | 2015.8 | 2017.5 | 1995.8 | 1943.2 | 1916.5 |
| 45°   | 2044.2 | 2129.3 | 2235.2 | 2241.1 | 2070.9 | 1944.9 | 1924.8 | 1903.1 | 1854.8 | 1837.2 | 1817.2 |
| 47.5° | 1952.4 | 2046.7 | 2134.3 | 2102.6 | 1909.8 | 1831.4 | 1816.4 | 1768.8 | 1744.6 | 1731.3 | 1714.6 |
| 50°   | 1854.8 | 1949.9 | 2030.0 | 1939.9 | 1758.0 | 1739.6 | 1690.4 | 1652.8 | 1636.2 | 1622.0 | 1607.0 |
| 52.5° | 1762.1 | 1840.6 | 1922.3 | 1767.1 | 1641.2 | 1623.6 | 1567.7 | 1546.0 | 1529.4 | 1513.5 | 1510.2 |
| 55°   | 1657.0 | 1726.3 | 1782.2 | 1602.8 | 1529.4 | 1488.5 | 1448.4 | 1433.4 | 1417.6 | 1410.0 | 1422.6 |
| 57.5° | 1537.7 | 1616.1 | 1607.8 | 1440.9 | 1408.4 | 1349.1 | 1334.1 | 1324.1 | 1312.4 | 1317.4 | 1213.1 |
| 60°   | 1430.1 | 1490.1 | 1449.3 | 1322.4 | 1267.4 | 1227.3 | 1214.0 | 1207.3 | 1214.0 | 1112.2 | 977.9  |
| 62.5° | 1297.4 | 1365.0 | 1282.4 | 1183.9 | 1125.5 | 1106.3 | 1094.7 | 1103.8 | 1006.2 | 894.4  | 861.9  |
| 65°   | 1159.7 | 1233.2 | 1111.4 | 1035.4 | 998.7  | 982.0  | 981.2  | 903.6  | 807.6  | 764.3  | 764.3  |
| 67.5° | 1027.1 | 1103.0 | 946.1  | 882.7  | 868.6  | 870.2  | 821.8  | 704.2  | 677.5  | 648.3  | 564.0  |
| 70°   | 886.1  | 952.8  | 781.8  | 743.4  | 735.1  | 729.2  | 611.6  | 579.9  | 548.2  | 470.6  | 463.9  |
| 72.5° | 745.9  | 778.4  | 628.3  | 619.1  | 617.4  | 513.1  | 489.8  | 435.5  | 398.8  | 389.6  | 385.5  |
| 75°   | 609.9  | 599.9  | 496.4  | 504.8  | 425.5  | 388.8  | 351.3  | 319.6  | 314.5  | 311.2  | 77.6   |
| 77.5° | 481.4  | 431.4  | 391.3  | 340.4  | 304.5  | 258.6  | 251.1  | 246.1  | 161.9  | 58.4   | 47.6   |
| 80°   | 350.4  | 279.5  | 260.3  | 221.1  | 188.6  | 181.1  | 185.2  | 56.7   | 45.1   | 37.5   | 32.5   |
| 82.5° | 222.8  | 178.6  | 146.0  | 127.7  | 124.3  | 54.2   | 40.0   | 32.5   | 28.4   | 24.2   | 20.0   |
| 85°   | 119.3  | 79.3   | 73.4   | 61.7   | 36.7   | 25.0   | 20.9   | 15.9   | 13.3   | 10.8   | 10.0   |
| 87.5° | 37.5   | 31.7   | 25.9   | 20.9   | 12.5   | 8.3    | 6.7    | 5.8    | 5.0    | 4.2    | 4.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 11°    | 12°    | 13°    | 14°    | 15°    | 16°    | 17°    | 18°    | 19°    | 20°    | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2801.7 | 2803.4 | 2802.6 | 2805.1 | 2805.1 | 2808.4 | 2810.9 | 2813.4 | 2818.4 | 2820.9 | 2840.1 |
| 5°    | 2837.6 | 2841.8 | 2854.3 | 2866.0 | 2880.2 | 2884.3 | 2908.5 | 2914.4 | 2942.7 | 2946.1 | 3039.5 |
| 7.5°  | 2917.7 | 2933.6 | 2963.6 | 2993.6 | 3023.7 | 3042.9 | 3076.2 | 3097.1 | 3119.6 | 3139.6 | 3213.9 |
| 10°   | 3014.5 | 3041.2 | 3070.4 | 3100.4 | 3118.0 | 3154.7 | 3174.7 | 3178.0 | 3172.2 | 3139.6 | 3019.5 |
| 12.5° | 3109.6 | 3136.3 | 3123.8 | 3129.6 | 3150.5 | 3085.4 | 3094.6 | 3047.9 | 3080.4 | 2919.4 | 2800.1 |
| 15°   | 3096.3 | 3094.6 | 3063.7 | 2963.6 | 2980.3 | 2856.0 | 2805.9 | 2767.5 | 2798.4 | 2781.7 | 2763.4 |
| 17.5° | 3056.2 | 2980.3 | 2926.9 | 2806.7 | 2755.8 | 2720.8 | 2721.6 | 2722.5 | 2707.5 | 2723.3 | 2676.6 |
| 20°   | 2886.8 | 2801.7 | 2722.5 | 2679.9 | 2664.9 | 2639.9 | 2652.4 | 2639.9 | 2640.7 | 2645.7 | 2574.0 |
| 22.5° | 2661.6 | 2635.7 | 2589.8 | 2603.2 | 2598.2 | 2620.7 | 2604.0 | 2578.1 | 2586.5 | 2548.9 | 2494.7 |
| 25°   | 2570.6 | 2540.6 | 2538.9 | 2543.9 | 2536.4 | 2526.4 | 2511.4 | 2472.2 | 2469.7 | 2458.0 | 2433.0 |
| 27.5° | 2478.8 | 2480.5 | 2485.5 | 2470.5 | 2443.8 | 2423.8 | 2401.3 | 2382.1 | 2389.6 | 2376.2 | 2342.0 |
| 30°   | 2415.4 | 2414.6 | 2384.6 | 2371.2 | 2322.0 | 2322.8 | 2317.0 | 2305.3 | 2297.8 | 2298.6 | 2276.9 |
| 32.5° | 2325.3 | 2299.5 | 2265.3 | 2248.6 | 2244.4 | 2229.4 | 2217.7 | 2220.2 | 2226.0 | 2205.2 | 2227.7 |
| 35°   | 2232.7 | 2179.3 | 2174.3 | 2160.1 | 2146.8 | 2136.8 | 2140.9 | 2124.2 | 2123.4 | 2120.9 | 1937.4 |
| 37.5° | 2108.4 | 2082.5 | 2080.0 | 2065.0 | 2055.8 | 2053.3 | 2037.5 | 2040.0 | 2047.5 | 2060.8 | 1652.0 |
| 40°   | 2005.8 | 1982.4 | 1976.6 | 1975.7 | 1955.7 | 1954.0 | 1958.2 | 1974.1 | 1984.9 | 1901.5 | 1574.4 |
| 42.5° | 1895.6 | 1897.3 | 1879.0 | 1867.3 | 1869.8 | 1877.3 | 1897.3 | 1842.2 | 1596.1 | 1521.0 | 1439.2 |
| 45°   | 1801.4 | 1793.0 | 1783.0 | 1779.7 | 1801.4 | 1786.3 | 1566.1 | 1445.1 | 1415.9 | 1412.6 | 1183.1 |
| 47.5° | 1702.9 | 1700.4 | 1696.2 | 1698.7 | 1575.2 | 1404.2 | 1354.1 | 1338.3 | 1343.3 | 1340.0 | 1016.2 |
| 50°   | 1603.6 | 1607.0 | 1607.0 | 1403.4 | 1288.2 | 1259.9 | 1264.0 | 1278.2 | 1189.8 | 1110.5 | 947.0  |
| 52.5° | 1517.7 | 1491.8 | 1278.2 | 1204.8 | 1178.9 | 1191.4 | 1161.4 | 1050.4 | 970.3  | 923.6  | 876.1  |
| 55°   | 1358.3 | 1168.1 | 1120.5 | 1108.8 | 1118.0 | 1007.1 | 938.6  | 866.9  | 846.0  | 841.0  | 813.5  |
| 57.5° | 1068.8 | 1030.4 | 1034.6 | 987.9  | 881.9  | 819.3  | 791.8  | 781.8  | 772.6  | 765.9  | 66.7   |
| 60°   | 945.3  | 956.2  | 875.2  | 775.1  | 732.6  | 724.2  | 717.5  | 708.4  | 706.7  | 695.0  | 42.6   |
| 62.5° | 865.2  | 760.9  | 690.8  | 665.8  | 655.8  | 653.3  | 640.8  | 636.6  | 540.7  | 74.3   | 31.7   |
| 65°   | 652.5  | 609.9  | 596.6  | 590.7  | 579.9  | 579.9  | 481.4  | 75.9   | 61.7   | 53.4   | 28.4   |
| 67.5° | 532.3  | 529.0  | 522.3  | 514.8  | 350.4  | 73.4   | 64.2   | 55.9   | 48.4   | 42.6   | 25.0   |
| 70°   | 450.5  | 448.9  | 408.8  | 75.1   | 62.6   | 55.1   | 48.4   | 43.4   | 40.0   | 35.9   | 22.5   |
| 72.5° | 369.6  | 75.1   | 63.4   | 55.1   | 47.6   | 43.4   | 39.2   | 35.0   | 31.7   | 29.2   | 18.4   |
| 75°   | 57.6   | 50.9   | 45.1   | 40.9   | 37.5   | 33.4   | 30.0   | 27.5   | 26.7   | 23.4   | 12.5   |
| 77.5° | 41.7   | 35.9   | 32.5   | 29.2   | 25.9   | 23.4   | 20.0   | 17.5   | 15.9   | 13.3   | 9.2    |
| 80°   | 29.2   | 25.9   | 23.4   | 19.2   | 16.7   | 14.2   | 12.5   | 10.8   | 10.0   | 8.3    | 4.2    |
| 82.5° | 16.7   | 14.2   | 12.5   | 10.0   | 9.2    | 7.5    | 6.7    | 5.8    | 5.8    | 4.2    | 4.2    |
| 85°   | 7.5    | 7.5    | 5.8    | 5.0    | 4.2    | 4.2    | 4.2    | 3.3    | 3.3    | 2.5    | 2.5    |
| 87.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 30°    | 35°    | 40°    | 45°    | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2866.8 | 2877.7 | 2898.5 | 2920.2 | 2896.0 | 2982.8 | 2976.1 | 3005.3 | 3021.2 | 3028.7 | 3046.2 |
| 5°    | 3122.1 | 3170.5 | 3186.4 | 3138.8 | 3111.3 | 3082.9 | 3018.7 | 2970.3 | 2976.1 | 2960.3 | 2902.7 |
| 7.5°  | 3117.1 | 3013.7 | 2874.3 | 2810.9 | 2805.9 | 2798.4 | 2818.4 | 2830.1 | 2831.8 | 2830.9 | 2829.3 |
| 10°   | 2853.5 | 2800.1 | 2790.9 | 2782.5 | 2785.9 | 2755.0 | 2740.8 | 2700.8 | 2722.5 | 2710.8 | 2715.0 |
| 12.5° | 2773.4 | 2760.9 | 2711.6 | 2643.2 | 2684.1 | 2653.2 | 2635.7 | 2647.4 | 2634.0 | 2621.5 | 2617.3 |
| 15°   | 2725.8 | 2644.9 | 2617.3 | 2600.7 | 2589.0 | 2582.3 | 2588.1 | 2574.8 | 2570.6 | 2568.1 | 2574.0 |
| 17.5° | 2627.4 | 2594.8 | 2564.8 | 2520.6 | 2521.4 | 2518.9 | 2535.6 | 2560.6 | 2562.3 | 2433.8 | 2317.8 |
| 20°   | 2549.8 | 2523.1 | 2484.7 | 2457.2 | 2494.7 | 2428.0 | 2170.1 | 2047.5 | 2028.3 | 2028.3 | 2031.6 |
| 22.5° | 2488.0 | 2428.8 | 2431.3 | 2387.9 | 2036.6 | 1964.9 | 1966.6 | 1974.1 | 1939.9 | 1823.0 | 1810.5 |
| 25°   | 2403.8 | 2394.6 | 2211.9 | 1911.5 | 1914.0 | 1858.1 | 1772.2 | 1651.2 | 1520.2 | 1520.2 | 1498.5 |
| 27.5° | 2340.3 | 2145.9 | 1879.0 | 1866.4 | 1678.7 | 1560.2 | 1486.8 | 1375.8 | 1360.8 | 1346.6 | 1348.3 |
| 30°   | 2286.1 | 1815.5 | 1822.2 | 1560.2 | 1421.7 | 1323.3 | 1317.4 | 1299.1 | 1289.9 | 1287.4 | 1278.2 |
| 32.5° | 1807.2 | 1768.0 | 1525.2 | 1328.3 | 1274.0 | 1258.2 | 1250.7 | 1229.8 | 1229.0 | 1213.1 | 1103.0 |
| 35°   | 1694.6 | 1551.9 | 1276.6 | 1223.2 | 1207.3 | 1192.3 | 1179.8 | 791.8  | 93.4   | 37.5   | 32.5   |
| 37.5° | 1566.1 | 1296.6 | 1180.6 | 1156.4 | 1141.4 | 843.5  | 84.3   | 29.2   | 20.9   | 15.0   | 13.3   |
| 40°   | 1327.4 | 1158.1 | 1121.4 | 1094.7 | 451.4  | 29.2   | 18.4   | 14.2   | 8.3    | 7.5    | 6.7    |
| 42.5° | 1119.7 | 1091.3 | 1052.1 | 320.4  | 33.4   | 14.2   | 9.2    | 6.7    | 5.8    | 5.8    | 5.0    |
| 45°   | 1047.9 | 1022.9 | 423.8  | 31.7   | 20.9   | 6.7    | 5.8    | 5.8    | 5.0    | 3.3    | 3.3    |
| 47.5° | 981.2  | 863.5  | 38.4   | 20.0   | 13.3   | 5.8    | 5.0    | 3.3    | 3.3    | 3.3    | 2.5    |
| 50°   | 910.3  | 47.6   | 26.7   | 15.0   | 8.3    | 3.3    | 3.3    | 3.3    | 3.3    | 2.5    | 2.5    |
| 52.5° | 170.2  | 33.4   | 21.7   | 13.3   | 4.2    | 3.3    | 3.3    | 3.3    | 2.5    | 2.5    | 2.5    |
| 55°   | 40.0   | 26.7   | 20.0   | 11.7   | 3.3    | 3.3    | 3.3    | 2.5    | 2.5    | 2.5    | 1.7    |
| 57.5° | 30.0   | 20.0   | 15.9   | 10.8   | 3.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    |
| 60°   | 25.0   | 14.2   | 12.5   | 10.0   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    |
| 62.5° | 17.5   | 11.7   | 9.2    | 7.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 65°   | 14.2   | 9.2    | 7.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 67.5° | 12.5   | 7.5    | 5.0    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 70°   | 10.0   | 2.5    | 2.5    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 72.5° | 8.3    | 2.5    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 75°   | 8.3    | 4.2    | 1.7    | 1.7    | 2.5    | 2.5    | 3.3    | 3.3    | 2.5    | 2.5    | 2.5    |
| 77.5° | 5.8    | 4.2    | 1.7    | 1.7    | 2.5    | 2.5    | 3.3    | 3.3    | 2.5    | 2.5    | 2.5    |
| 80°   | 3.3    | 4.2    | 1.7    | 2.5    | 2.5    | 5.0    | 5.8    | 3.3    | 2.5    | 2.5    | 2.5    |
| 82.5° | 3.3    | 4.2    | 5.0    | 5.0    | 2.5    | 4.2    | 5.0    | 4.2    | 3.3    | 2.5    | 2.5    |
| 85°   | 3.3    | 2.5    | 3.3    | 4.2    | 2.5    | 4.2    | 4.2    | 3.3    | 3.3    | 2.5    | 2.5    |
| 87.5° | 1.7    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    | 4.2    | 3.3    | 3.3    | 3.3    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 85°    | 90°    | 95°    | 100°   | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 3054.5 | 3057.9 | 3005.3 | 2987.0 | 3002.8 | 2999.5 | 2985.3 | 2932.7 | 2926.9 | 2891.8 | 2841.0 |
| 5°    | 2919.4 | 2941.9 | 2914.4 | 2961.9 | 2939.4 | 2961.9 | 3030.3 | 3062.1 | 3113.8 | 3145.5 | 3157.2 |
| 7.5°  | 2825.1 | 2830.1 | 2830.1 | 2834.3 | 2838.4 | 2839.3 | 2834.3 | 2830.9 | 2816.8 | 2799.2 | 2830.9 |
| 10°   | 2710.8 | 2716.6 | 2726.6 | 2725.0 | 2724.1 | 2741.7 | 2745.8 | 2781.7 | 2780.0 | 2786.7 | 2810.9 |
| 12.5° | 2651.6 | 2606.5 | 2647.4 | 2636.5 | 2651.6 | 2628.2 | 2671.6 | 2664.1 | 2666.6 | 2686.6 | 2738.3 |
| 15°   | 2553.1 | 2567.3 | 2577.3 | 2577.3 | 2583.1 | 2578.1 | 2573.1 | 2607.3 | 2628.2 | 2629.0 | 2625.7 |
| 17.5° | 2363.7 | 2256.1 | 2366.2 | 2337.8 | 2563.9 | 2569.8 | 2550.6 | 2534.7 | 2534.7 | 2547.3 | 2574.0 |
| 20°   | 2029.1 | 2031.6 | 2032.5 | 2043.3 | 2056.7 | 2055.8 | 2056.7 | 2385.4 | 2541.4 | 2505.5 | 2481.3 |
| 22.5° | 1778.8 | 1748.0 | 1805.5 | 1801.4 | 1873.1 | 1952.4 | 2028.3 | 2020.8 | 2025.8 | 2257.7 | 2466.3 |
| 25°   | 1425.9 | 1465.9 | 1433.4 | 1447.6 | 1528.5 | 1622.8 | 1681.2 | 1833.9 | 1999.9 | 1988.2 | 2042.5 |
| 27.5° | 1342.5 | 1331.6 | 1346.6 | 1346.6 | 1357.5 | 1370.0 | 1402.5 | 1488.5 | 1636.2 | 1791.3 | 1938.2 |
| 30°   | 1263.2 | 1272.4 | 1274.0 | 1289.1 | 1297.4 | 1305.8 | 1310.8 | 1343.3 | 1376.7 | 1484.3 | 1665.4 |
| 32.5° | 948.7  | 831.8  | 1094.7 | 1165.6 | 1225.7 | 1239.8 | 1249.9 | 1263.2 | 1287.4 | 1303.3 | 1394.2 |
| 35°   | 27.5   | 27.5   | 29.2   | 33.4   | 42.6   | 287.0  | 1093.0 | 1204.8 | 1220.7 | 1240.7 | 1257.4 |
| 37.5° | 13.3   | 10.0   | 11.7   | 12.5   | 15.0   | 20.9   | 30.0   | 93.4   | 1040.4 | 1176.4 | 1194.8 |
| 40°   | 5.8    | 5.8    | 5.8    | 5.8    | 6.7    | 8.3    | 12.5   | 20.9   | 31.7   | 836.9  | 1128.9 |
| 42.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 7.5    | 15.0   | 35.9   | 592.4  |
| 45°   | 3.3    | 3.3    | 2.5    | 3.3    | 3.3    | 4.2    | 5.0    | 5.0    | 6.7    | 22.5   | 40.9   |
| 47.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 4.2    | 5.0    | 15.0   | 21.7   |
| 50°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 11.7   | 15.0   |
| 52.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 5.0    | 13.3   |
| 55°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    | 3.3    | 11.7   |
| 57.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 1.7    | 1.7    | 2.5    | 2.5    | 10.8   |
| 60°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 10.0   |
| 62.5° | 2.5    | 2.5    | 1.7    | 2.5    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 6.7    |
| 65°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 2.5    |
| 67.5° | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 2.5    | 1.7    | 2.5    | 2.5    | 1.7    | 1.7    |
| 70°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 1.7    | 1.7    | 1.7    |
| 72.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 1.7    | 1.7    | 1.7    |
| 75°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 1.7    | 1.7    | 1.7    |
| 77.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 4.2    | 5.0    | 4.2    | 4.2    | 1.7    |
| 80°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 4.2    | 4.2    | 4.2    | 4.2    | 5.8    |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    | 3.3    | 4.2    |
| 85°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    | 2.5    | 3.3    |
| 87.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 2.5    | 2.5    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 140°   | 145°   | 150°   | 155°   | 160°   | 161°   | 162°   | 163°   | 164°   | 165°   | 166°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2845.1 | 2816.8 | 2807.6 | 2788.4 | 2786.7 | 2788.4 | 2784.2 | 2778.4 | 2781.7 | 2775.9 | 2770.9 |
| 5°    | 3163.8 | 3087.9 | 3038.7 | 2972.8 | 2881.8 | 2861.8 | 2856.8 | 2828.4 | 2818.4 | 2815.1 | 2801.7 |
| 7.5°  | 2906.0 | 3044.5 | 3128.0 | 3156.3 | 3049.5 | 3024.5 | 2995.3 | 2971.9 | 2949.4 | 2906.9 | 2881.0 |
| 10°   | 2791.7 | 2798.4 | 2878.5 | 2971.9 | 3123.8 | 3144.7 | 3160.5 | 3109.6 | 3095.4 | 2987.0 | 2963.6 |
| 12.5° | 2765.0 | 2765.9 | 2775.0 | 2831.8 | 2951.1 | 2964.4 | 3020.3 | 3050.4 | 3087.1 | 3107.9 | 3091.3 |
| 15°   | 2643.2 | 2710.8 | 2760.9 | 2765.9 | 2776.7 | 2800.1 | 2816.8 | 2921.0 | 2965.3 | 3083.7 | 3077.1 |
| 17.5° | 2586.5 | 2608.2 | 2680.8 | 2740.0 | 2730.0 | 2721.6 | 2735.0 | 2749.2 | 2791.7 | 2910.2 | 2908.5 |
| 20°   | 2492.2 | 2561.4 | 2600.7 | 2662.4 | 2718.3 | 2720.8 | 2705.8 | 2697.4 | 2680.8 | 2699.9 | 2717.5 |
| 22.5° | 2452.1 | 2463.0 | 2536.4 | 2579.8 | 2643.2 | 2665.7 | 2669.1 | 2669.9 | 2660.7 | 2650.7 | 2645.7 |
| 25°   | 2448.0 | 2413.8 | 2451.3 | 2505.5 | 2552.3 | 2576.5 | 2604.0 | 2613.2 | 2609.8 | 2609.8 | 2604.8 |
| 27.5° | 2003.3 | 2402.9 | 2382.9 | 2418.8 | 2475.5 | 2492.2 | 2506.4 | 2534.7 | 2552.3 | 2564.8 | 2570.6 |
| 30°   | 1908.2 | 1979.9 | 2329.5 | 2334.5 | 2392.1 | 2390.4 | 2406.3 | 2429.6 | 2452.1 | 2481.3 | 2488.9 |
| 32.5° | 1687.9 | 1863.9 | 2132.6 | 2250.2 | 2310.3 | 2316.1 | 2324.5 | 2331.2 | 2352.0 | 2384.6 | 2412.9 |
| 35°   | 1352.5 | 1697.9 | 1827.2 | 2210.2 | 2221.0 | 2232.7 | 2237.7 | 2253.6 | 2260.2 | 2273.6 | 2298.6 |
| 37.5° | 1224.0 | 1403.4 | 1753.0 | 1911.5 | 2118.4 | 2128.4 | 2155.1 | 2161.8 | 2172.6 | 2183.5 | 2202.7 |
| 40°   | 1149.7 | 1199.0 | 1459.3 | 1707.1 | 2035.8 | 2042.5 | 2051.7 | 2068.3 | 2069.2 | 2081.7 | 2099.2 |
| 42.5° | 1090.5 | 1122.2 | 1198.1 | 1630.3 | 1977.4 | 1976.6 | 1954.9 | 1965.7 | 1970.7 | 1984.1 | 2008.3 |
| 45°   | 871.1  | 1052.9 | 1101.3 | 1331.6 | 1574.4 | 1687.9 | 1905.6 | 1869.8 | 1868.9 | 1873.9 | 1899.8 |
| 47.5° | 44.2   | 990.4  | 1024.6 | 1098.8 | 1486.8 | 1491.0 | 1519.3 | 1758.0 | 1794.7 | 1783.0 | 1785.5 |
| 50°   | 30.0   | 68.4   | 954.5  | 988.7  | 1281.6 | 1385.0 | 1405.9 | 1416.7 | 1554.4 | 1707.9 | 1682.9 |
| 52.5° | 23.4   | 39.2   | 584.9  | 917.8  | 1041.3 | 1117.2 | 1251.5 | 1328.3 | 1336.6 | 1398.4 | 1607.8 |
| 55°   | 20.9   | 30.0   | 63.4   | 846.9  | 885.2  | 901.9  | 980.4  | 1114.7 | 1223.2 | 1255.7 | 1258.2 |
| 57.5° | 18.4   | 27.5   | 43.4   | 383.0  | 805.1  | 808.5  | 821.8  | 868.6  | 966.2  | 1055.4 | 1156.4 |
| 60°   | 16.7   | 24.2   | 34.2   | 65.9   | 731.7  | 740.1  | 742.6  | 755.1  | 766.8  | 827.7  | 943.6  |
| 62.5° | 10.0   | 19.2   | 30.0   | 47.6   | 579.0  | 665.0  | 664.1  | 672.5  | 683.3  | 690.0  | 713.4  |
| 65°   | 8.3    | 15.0   | 25.9   | 40.0   | 70.9   | 88.4   | 537.3  | 597.4  | 604.1  | 613.2  | 617.4  |
| 67.5° | 7.5    | 13.3   | 19.2   | 31.7   | 53.4   | 60.9   | 70.1   | 86.8   | 473.9  | 534.0  | 542.3  |
| 70°   | 6.7    | 9.2    | 15.9   | 26.7   | 43.4   | 46.7   | 52.6   | 60.1   | 70.9   | 87.6   | 428.9  |
| 72.5° | 4.2    | 6.7    | 10.8   | 19.2   | 33.4   | 37.5   | 40.9   | 45.9   | 50.9   | 60.9   | 70.1   |
| 75°   | 1.7    | 5.0    | 9.2    | 14.2   | 25.9   | 28.4   | 30.9   | 34.2   | 38.4   | 45.1   | 50.1   |
| 77.5° | 1.7    | 4.2    | 7.5    | 10.0   | 16.7   | 19.2   | 22.5   | 25.0   | 28.4   | 31.7   | 36.7   |
| 80°   | 5.8    | 3.3    | 5.0    | 7.5    | 11.7   | 12.5   | 14.2   | 15.9   | 18.4   | 20.9   | 24.2   |
| 82.5° | 4.2    | 5.0    | 5.8    | 5.0    | 5.8    | 7.5    | 8.3    | 10.0   | 10.8   | 12.5   | 13.3   |
| 85°   | 3.3    | 3.3    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 5.0    | 5.8    | 7.5    |
| 87.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 167°   | 168°   | 169°   | 170°   | 171°   | 172°   | 173°   | 174°   | 175°   | 176°   | 177°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2770.9 | 2769.2 | 2764.2 | 2764.2 | 2763.4 | 2766.7 | 2769.2 | 2771.7 | 2770.9 | 2775.9 | 2770.9 |
| 5°    | 2791.7 | 2787.6 | 2780.0 | 2773.4 | 2770.9 | 2772.5 | 2770.0 | 2772.5 | 2769.2 | 2773.4 | 2765.9 |
| 7.5°  | 2849.3 | 2835.1 | 2805.9 | 2794.2 | 2779.2 | 2778.4 | 2770.9 | 2769.2 | 2764.2 | 2764.2 | 2755.0 |
| 10°   | 2951.1 | 2882.7 | 2874.3 | 2839.3 | 2826.8 | 2765.9 | 2779.2 | 2756.7 | 2754.2 | 2743.3 | 2739.2 |
| 12.5° | 3034.5 | 2981.1 | 2965.3 | 2934.4 | 2899.4 | 2775.9 | 2803.4 | 2755.0 | 2752.5 | 2730.8 | 2708.3 |
| 15°   | 3036.2 | 3067.1 | 3023.7 | 2938.6 | 2931.1 | 2846.0 | 2790.1 | 2773.4 | 2751.7 | 2686.6 | 2697.4 |
| 17.5° | 2938.6 | 3009.5 | 3030.3 | 3012.0 | 2958.6 | 2901.0 | 2822.6 | 2789.2 | 2724.1 | 2694.9 | 2674.9 |
| 20°   | 2780.0 | 2851.8 | 2941.1 | 2946.9 | 2980.3 | 2939.4 | 2836.8 | 2782.5 | 2704.1 | 2653.2 | 2636.5 |
| 22.5° | 2654.1 | 2706.6 | 2809.2 | 2856.8 | 2897.7 | 2911.9 | 2846.8 | 2766.7 | 2669.1 | 2619.9 | 2609.8 |
| 25°   | 2587.3 | 2599.0 | 2629.9 | 2685.8 | 2775.9 | 2841.0 | 2850.1 | 2765.0 | 2714.1 | 2606.5 | 2549.8 |
| 27.5° | 2563.1 | 2553.1 | 2540.6 | 2569.0 | 2636.5 | 2715.8 | 2768.4 | 2782.5 | 2655.7 | 2553.1 | 2496.4 |
| 30°   | 2501.4 | 2507.2 | 2488.0 | 2478.0 | 2522.2 | 2604.0 | 2697.4 | 2720.8 | 2623.2 | 2517.2 | 2452.1 |
| 32.5° | 2425.4 | 2435.5 | 2438.8 | 2421.3 | 2412.1 | 2468.8 | 2569.8 | 2625.7 | 2620.7 | 2466.3 | 2393.7 |
| 35°   | 2330.3 | 2358.7 | 2366.2 | 2367.0 | 2352.0 | 2342.8 | 2401.3 | 2517.2 | 2561.4 | 2443.0 | 2337.8 |
| 37.5° | 2230.2 | 2238.6 | 2279.4 | 2290.3 | 2290.3 | 2262.7 | 2306.1 | 2398.7 | 2460.5 | 2390.4 | 2269.4 |
| 40°   | 2105.1 | 2131.8 | 2170.1 | 2189.3 | 2208.5 | 2211.0 | 2186.8 | 2251.9 | 2353.7 | 2336.2 | 2205.2 |
| 42.5° | 2014.1 | 2031.6 | 2055.0 | 2080.9 | 2120.1 | 2130.1 | 2105.1 | 2116.7 | 2222.7 | 2268.6 | 2121.7 |
| 45°   | 1908.2 | 1931.5 | 1938.2 | 1966.6 | 2007.4 | 2036.6 | 2035.8 | 2011.6 | 2096.7 | 2153.5 | 2060.8 |
| 47.5° | 1799.7 | 1822.2 | 1833.9 | 1848.1 | 1878.1 | 1915.7 | 1936.5 | 1925.7 | 1942.4 | 2053.3 | 1979.9 |
| 50°   | 1687.9 | 1700.4 | 1723.8 | 1739.6 | 1759.6 | 1781.3 | 1831.4 | 1841.4 | 1818.0 | 1906.5 | 1890.6 |
| 52.5° | 1581.9 | 1586.1 | 1601.9 | 1617.8 | 1644.5 | 1660.4 | 1700.4 | 1730.4 | 1728.8 | 1754.6 | 1791.3 |
| 55°   | 1499.3 | 1481.0 | 1484.3 | 1496.8 | 1514.3 | 1538.5 | 1561.1 | 1607.8 | 1623.6 | 1628.6 | 1687.1 |
| 57.5° | 1171.4 | 1360.0 | 1376.7 | 1375.8 | 1396.7 | 1407.5 | 1428.4 | 1459.3 | 1516.0 | 1503.5 | 1568.6 |
| 60°   | 1064.6 | 1085.5 | 1243.2 | 1261.5 | 1269.0 | 1279.1 | 1304.1 | 1332.5 | 1374.2 | 1400.9 | 1429.2 |
| 62.5° | 811.8  | 938.6  | 986.2  | 1125.5 | 1147.2 | 1153.1 | 1169.8 | 1183.1 | 1226.5 | 1287.4 | 1275.7 |
| 65°   | 628.3  | 682.5  | 827.7  | 884.4  | 1002.9 | 1017.9 | 1041.3 | 1055.4 | 1068.0 | 1138.0 | 1141.4 |
| 67.5° | 543.2  | 551.5  | 590.7  | 700.0  | 775.1  | 891.1  | 905.3  | 917.8  | 937.0  | 987.0  | 1017.9 |
| 70°   | 463.9  | 473.9  | 484.8  | 493.9  | 591.6  | 668.3  | 775.9  | 780.1  | 792.6  | 826.0  | 896.1  |
| 72.5° | 87.6   | 396.3  | 403.0  | 408.8  | 419.7  | 470.6  | 573.2  | 656.6  | 661.6  | 677.5  | 741.7  |
| 75°   | 59.2   | 69.3   | 95.1   | 327.1  | 337.9  | 341.2  | 358.8  | 463.1  | 539.8  | 543.2  | 571.5  |
| 77.5° | 42.6   | 47.6   | 57.6   | 68.4   | 174.4  | 262.0  | 266.2  | 285.3  | 364.6  | 422.2  | 427.2  |
| 80°   | 29.2   | 32.5   | 38.4   | 43.4   | 53.4   | 70.1   | 193.6  | 199.4  | 209.4  | 288.7  | 303.7  |
| 82.5° | 16.7   | 19.2   | 22.5   | 27.5   | 31.7   | 40.0   | 51.7   | 66.7   | 136.0  | 145.2  | 192.7  |
| 85°   | 8.3    | 9.2    | 10.8   | 13.3   | 15.9   | 19.2   | 25.9   | 31.7   | 43.4   | 78.4   | 80.9   |
| 87.5° | 4.2    | 4.2    | 4.2    | 4.2    | 6.7    | 7.5    | 9.2    | 11.7   | 15.0   | 22.5   | 29.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 178°   | 179°   | 180°   | 181°   | 182°   | 183°   | 184°   | 185°   | 186°   | 187°   | 188°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2771.7 | 2783.4 | 2793.4 | 2795.9 | 2795.9 | 2797.6 | 2800.1 | 2801.7 | 2803.4 | 2805.1 | 2803.4 |
| 5°    | 2766.7 | 2779.2 | 2787.6 | 2790.1 | 2790.1 | 2795.1 | 2799.2 | 2804.2 | 2806.7 | 2806.7 | 2805.1 |
| 7.5°  | 2754.2 | 2763.4 | 2774.2 | 2780.9 | 2781.7 | 2790.1 | 2797.6 | 2796.7 | 2800.1 | 2801.7 | 2805.9 |
| 10°   | 2737.5 | 2737.5 | 2755.8 | 2760.9 | 2765.0 | 2774.2 | 2776.7 | 2781.7 | 2793.4 | 2795.1 | 2805.9 |
| 12.5° | 2729.2 | 2720.8 | 2742.5 | 2745.0 | 2759.2 | 2747.5 | 2762.5 | 2767.5 | 2755.8 | 2771.7 | 2750.8 |
| 15°   | 2691.6 | 2701.6 | 2698.3 | 2705.8 | 2730.8 | 2717.5 | 2758.4 | 2745.0 | 2775.0 | 2739.2 | 2802.6 |
| 17.5° | 2660.7 | 2659.1 | 2672.4 | 2679.1 | 2684.1 | 2712.5 | 2723.3 | 2738.3 | 2750.0 | 2740.0 | 2765.0 |
| 20°   | 2638.2 | 2624.9 | 2634.9 | 2642.4 | 2659.9 | 2681.6 | 2688.3 | 2665.7 | 2705.0 | 2771.7 | 2787.6 |
| 22.5° | 2595.7 | 2586.5 | 2598.2 | 2598.2 | 2624.9 | 2621.5 | 2646.5 | 2632.4 | 2669.1 | 2746.7 | 2827.6 |
| 25°   | 2538.1 | 2538.9 | 2551.4 | 2566.5 | 2571.5 | 2609.0 | 2622.4 | 2640.7 | 2686.6 | 2779.2 | 2828.4 |
| 27.5° | 2479.7 | 2474.7 | 2482.2 | 2513.1 | 2538.9 | 2566.5 | 2570.6 | 2633.2 | 2695.8 | 2759.2 | 2802.6 |
| 30°   | 2421.3 | 2416.3 | 2421.3 | 2443.8 | 2474.7 | 2493.0 | 2538.9 | 2622.4 | 2680.8 | 2724.1 | 2765.0 |
| 32.5° | 2358.7 | 2353.7 | 2365.4 | 2382.1 | 2436.3 | 2438.8 | 2529.7 | 2608.2 | 2654.1 | 2685.8 | 2678.3 |
| 35°   | 2292.0 | 2285.3 | 2296.1 | 2322.0 | 2372.0 | 2390.4 | 2485.5 | 2543.9 | 2595.7 | 2610.7 | 2575.6 |
| 37.5° | 2211.9 | 2200.2 | 2213.5 | 2249.4 | 2302.0 | 2355.4 | 2434.6 | 2502.2 | 2529.7 | 2489.7 | 2448.0 |
| 40°   | 2128.4 | 2120.1 | 2143.4 | 2161.8 | 2223.5 | 2297.8 | 2388.7 | 2436.3 | 2418.8 | 2372.9 | 2327.0 |
| 42.5° | 2054.2 | 2036.6 | 2057.5 | 2092.5 | 2162.6 | 2246.9 | 2320.3 | 2347.0 | 2305.3 | 2237.7 | 2184.3 |
| 45°   | 1963.2 | 1942.4 | 1967.4 | 2014.1 | 2089.2 | 2185.2 | 2242.7 | 2233.5 | 2162.6 | 2104.2 | 2030.8 |
| 47.5° | 1868.1 | 1843.1 | 1868.1 | 1924.0 | 2008.3 | 2110.1 | 2151.8 | 2110.1 | 2020.8 | 1947.4 | 1888.1 |
| 50°   | 1774.7 | 1745.5 | 1769.7 | 1853.9 | 1936.5 | 2014.9 | 2014.1 | 1933.2 | 1879.8 | 1799.7 | 1748.0 |
| 52.5° | 1682.0 | 1640.3 | 1664.5 | 1756.3 | 1838.9 | 1928.2 | 1862.3 | 1787.2 | 1722.9 | 1652.8 | 1636.2 |
| 55°   | 1567.7 | 1522.7 | 1555.2 | 1688.7 | 1752.1 | 1804.7 | 1699.6 | 1633.7 | 1570.2 | 1535.2 | 1514.3 |
| 57.5° | 1459.3 | 1410.0 | 1438.4 | 1596.1 | 1642.8 | 1656.2 | 1559.4 | 1465.9 | 1428.4 | 1416.7 | 1386.7 |
| 60°   | 1347.5 | 1291.6 | 1318.3 | 1500.2 | 1532.7 | 1478.5 | 1383.3 | 1310.8 | 1303.3 | 1279.9 | 1256.5 |
| 62.5° | 1240.7 | 1178.9 | 1195.6 | 1380.8 | 1395.9 | 1297.4 | 1209.8 | 1190.6 | 1172.3 | 1148.9 | 1136.4 |
| 65°   | 1118.0 | 1053.8 | 1077.1 | 1254.0 | 1239.8 | 1113.0 | 1063.8 | 1059.6 | 1035.4 | 1016.2 | 1034.6 |
| 67.5° | 1005.4 | 929.5  | 962.0  | 1115.5 | 1051.3 | 947.8  | 927.8  | 917.8  | 898.6  | 909.4  | 716.7  |
| 70°   | 881.9  | 799.3  | 843.5  | 966.2  | 871.1  | 802.6  | 795.1  | 780.1  | 780.9  | 620.8  | 523.1  |
| 72.5° | 744.2  | 672.5  | 736.7  | 802.6  | 689.2  | 669.1  | 658.3  | 656.6  | 529.8  | 430.5  | 406.3  |
| 75°   | 623.3  | 550.7  | 619.9  | 645.0  | 549.0  | 535.7  | 534.8  | 442.2  | 347.9  | 332.1  | 324.6  |
| 77.5° | 486.4  | 430.5  | 496.4  | 458.9  | 421.3  | 406.3  | 364.6  | 273.7  | 262.0  | 251.1  | 94.3   |
| 80°   | 327.9  | 332.1  | 370.5  | 316.2  | 300.4  | 256.1  | 201.9  | 193.6  | 166.9  | 66.7   | 52.6   |
| 82.5° | 199.4  | 250.3  | 236.1  | 197.7  | 193.6  | 139.3  | 127.7  | 65.1   | 48.4   | 38.4   | 33.4   |
| 85°   | 103.5  | 126.8  | 121.8  | 107.6  | 80.1   | 71.8   | 40.0   | 30.9   | 25.0   | 19.2   | 15.9   |
| 87.5° | 35.0   | 46.7   | 45.1   | 35.9   | 27.5   | 21.7   | 14.2   | 11.7   | 8.3    | 6.7    | 5.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 189°   | 190°   | 191°   | 192°   | 193°   | 194°   | 195°   | 196°   | 197°   | 198°   | 199°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2801.7 | 2801.7 | 2800.1 | 2801.7 | 2802.6 | 2800.9 | 2800.9 | 2802.6 | 2803.4 | 2804.2 | 2808.4 |
| 5°    | 2805.9 | 2807.6 | 2810.1 | 2815.1 | 2815.9 | 2825.9 | 2830.1 | 2832.6 | 2835.1 | 2835.9 | 2830.1 |
| 7.5°  | 2815.1 | 2820.9 | 2825.9 | 2825.1 | 2819.3 | 2803.4 | 2798.4 | 2794.2 | 2801.7 | 2820.9 | 2843.5 |
| 10°   | 2823.4 | 2796.7 | 2746.7 | 2815.1 | 2794.2 | 2813.4 | 2870.2 | 2882.7 | 2921.0 | 2975.3 | 2991.1 |
| 12.5° | 2765.9 | 2839.3 | 2855.1 | 2778.4 | 2920.2 | 2867.7 | 2930.2 | 2985.3 | 3001.1 | 3056.2 | 3022.8 |
| 15°   | 2827.6 | 2863.5 | 2887.7 | 2964.4 | 2956.1 | 3001.1 | 3018.7 | 3007.8 | 3010.3 | 3024.5 | 3062.1 |
| 17.5° | 2826.8 | 2898.5 | 2914.4 | 2966.1 | 3001.1 | 3002.0 | 2997.0 | 2992.0 | 3005.3 | 3016.2 | 2993.6 |
| 20°   | 2875.2 | 2898.5 | 2929.4 | 2950.3 | 2956.9 | 2965.3 | 2981.1 | 2968.6 | 2943.6 | 2919.4 | 2909.4 |
| 22.5° | 2851.0 | 2903.5 | 2930.2 | 2933.6 | 2929.4 | 2903.5 | 2880.2 | 2845.1 | 2833.4 | 2820.9 | 2825.1 |
| 25°   | 2856.0 | 2880.2 | 2876.8 | 2863.5 | 2846.0 | 2797.6 | 2785.9 | 2770.9 | 2748.3 | 2694.1 | 2644.9 |
| 27.5° | 2820.1 | 2807.6 | 2792.6 | 2760.0 | 2728.3 | 2702.5 | 2673.2 | 2624.9 | 2584.8 | 2526.4 | 2504.7 |
| 30°   | 2760.0 | 2710.0 | 2673.2 | 2654.1 | 2623.2 | 2579.8 | 2535.6 | 2476.3 | 2425.4 | 2413.8 | 2402.9 |
| 32.5° | 2644.9 | 2595.7 | 2565.6 | 2518.9 | 2466.3 | 2414.6 | 2363.7 | 2340.3 | 2329.5 | 2331.2 | 2321.2 |
| 35°   | 2527.2 | 2483.9 | 2438.8 | 2368.7 | 2329.5 | 2277.8 | 2259.4 | 2254.4 | 2244.4 | 2233.5 | 2221.9 |
| 37.5° | 2402.1 | 2351.2 | 2283.6 | 2241.9 | 2202.7 | 2181.8 | 2172.6 | 2165.1 | 2147.6 | 2128.4 | 2115.1 |
| 40°   | 2281.1 | 2189.3 | 2151.8 | 2110.9 | 2099.2 | 2090.0 | 2076.7 | 2058.3 | 2034.1 | 2030.8 | 2025.0 |
| 42.5° | 2119.2 | 2053.3 | 2020.8 | 2012.4 | 1998.3 | 1982.4 | 1970.7 | 1950.7 | 1940.7 | 1947.4 | 1952.4 |
| 45°   | 1965.7 | 1932.3 | 1921.5 | 1911.5 | 1884.8 | 1862.3 | 1854.8 | 1848.1 | 1856.4 | 1893.1 | 1805.5 |
| 47.5° | 1841.4 | 1828.1 | 1814.7 | 1798.0 | 1773.0 | 1756.3 | 1763.8 | 1770.5 | 1778.0 | 1508.5 | 1376.7 |
| 50°   | 1733.8 | 1715.4 | 1694.6 | 1676.2 | 1661.2 | 1659.5 | 1698.7 | 1581.1 | 1324.1 | 1317.4 | 1183.9 |
| 52.5° | 1616.1 | 1588.6 | 1576.1 | 1565.2 | 1571.9 | 1596.9 | 1321.6 | 1226.5 | 1176.4 | 1022.1 | 953.7  |
| 55°   | 1489.3 | 1465.1 | 1465.1 | 1475.1 | 1439.2 | 1166.4 | 1152.2 | 996.2  | 901.9  | 875.2  | 864.4  |
| 57.5° | 1362.5 | 1360.0 | 1374.2 | 1256.5 | 1058.8 | 1015.4 | 853.5  | 819.3  | 804.3  | 801.0  | 783.5  |
| 60°   | 1246.5 | 1269.9 | 1063.0 | 977.9  | 850.2  | 766.8  | 743.4  | 739.2  | 723.4  | 717.5  | 701.7  |
| 62.5° | 1153.9 | 957.0  | 891.1  | 727.6  | 685.0  | 674.2  | 661.6  | 655.8  | 641.6  | 566.5  | 166.0  |
| 65°   | 833.5  | 787.6  | 639.1  | 611.6  | 608.2  | 592.4  | 587.4  | 528.1  | 124.3  | 83.4   | 70.9   |
| 67.5° | 629.1  | 558.2  | 539.0  | 534.0  | 518.1  | 486.4  | 144.3  | 82.6   | 70.9   | 61.7   | 54.2   |
| 70°   | 483.1  | 470.6  | 456.4  | 444.7  | 131.0  | 81.8   | 70.9   | 60.1   | 51.7   | 45.9   | 41.7   |
| 72.5° | 395.5  | 387.1  | 225.3  | 85.9   | 70.1   | 59.2   | 52.6   | 45.9   | 40.0   | 36.7   | 33.4   |
| 75°   | 309.5  | 85.9   | 70.9   | 59.2   | 50.9   | 43.4   | 38.4   | 34.2   | 30.9   | 28.4   | 25.9   |
| 77.5° | 70.1   | 56.7   | 48.4   | 40.9   | 36.7   | 32.5   | 29.2   | 25.0   | 22.5   | 20.0   | 16.7   |
| 80°   | 43.4   | 37.5   | 31.7   | 29.2   | 25.0   | 20.9   | 18.4   | 16.7   | 13.3   | 12.5   | 10.8   |
| 82.5° | 28.4   | 22.5   | 20.0   | 16.7   | 13.3   | 12.5   | 10.8   | 8.3    | 7.5    | 6.7    | 5.8    |
| 85°   | 12.5   | 10.8   | 9.2    | 7.5    | 5.8    | 5.0    | 4.2    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 4.2    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 1.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2810.1 | 2825.1 | 2839.3 | 2835.1 | 2820.1 | 2796.7 | 2790.1 | 2780.9 | 2787.6 | 2801.7 | 2807.6 |
| 5°    | 2830.1 | 2821.8 | 2851.8 | 2896.0 | 2967.8 | 2974.4 | 3024.5 | 3036.2 | 3076.2 | 3101.3 | 3100.4 |
| 7.5°  | 2858.5 | 2977.0 | 3026.2 | 3079.6 | 3103.8 | 3097.9 | 3105.4 | 3099.6 | 3090.4 | 3086.3 | 3081.2 |
| 10°   | 3002.8 | 3092.9 | 3111.3 | 3111.3 | 3073.7 | 3022.8 | 3001.1 | 2963.6 | 2888.5 | 2890.2 | 2877.7 |
| 12.5° | 3087.1 | 3118.8 | 3075.4 | 3038.7 | 2887.7 | 2829.3 | 2765.9 | 2735.8 | 2718.3 | 2691.6 | 2701.6 |
| 15°   | 3042.9 | 2997.8 | 2971.9 | 2853.5 | 2760.9 | 2655.7 | 2657.4 | 2639.0 | 2619.9 | 2621.5 | 2609.0 |
| 17.5° | 2977.8 | 2941.9 | 2758.4 | 2676.6 | 2631.5 | 2590.6 | 2583.1 | 2558.9 | 2546.4 | 2542.3 | 2541.4 |
| 20°   | 2888.5 | 2759.2 | 2622.4 | 2602.3 | 2548.1 | 2501.4 | 2493.9 | 2501.4 | 2539.8 | 2471.3 | 2239.4 |
| 22.5° | 2784.2 | 2598.2 | 2558.1 | 2501.4 | 2464.7 | 2446.3 | 2492.2 | 2283.6 | 1968.2 | 2006.6 | 1965.7 |
| 25°   | 2607.3 | 2526.4 | 2458.0 | 2414.6 | 2410.4 | 2297.8 | 1914.8 | 1874.8 | 1672.0 | 1563.6 | 1441.8 |
| 27.5° | 2478.0 | 2443.0 | 2371.2 | 2363.7 | 2309.5 | 1879.0 | 1679.5 | 1459.3 | 1378.3 | 1365.8 | 1339.1 |
| 30°   | 2399.6 | 2349.5 | 2306.1 | 2116.7 | 1843.1 | 1512.7 | 1347.5 | 1316.6 | 1302.4 | 1287.4 | 1264.0 |
| 32.5° | 2305.3 | 2257.7 | 2278.6 | 1779.7 | 1469.3 | 1302.4 | 1269.0 | 1246.5 | 1220.7 | 1210.6 | 1126.4 |
| 35°   | 2209.4 | 2187.7 | 1780.5 | 1496.0 | 1263.2 | 1223.2 | 1198.1 | 1174.8 | 934.5  | 226.1  | 76.8   |
| 37.5° | 2106.7 | 2101.7 | 1600.3 | 1241.5 | 1183.1 | 1145.6 | 1074.6 | 221.9  | 52.6   | 35.9   | 26.7   |
| 40°   | 2026.6 | 1601.1 | 1264.9 | 1163.9 | 1116.4 | 1057.1 | 148.5  | 36.7   | 23.4   | 14.2   | 9.2    |
| 42.5° | 1973.2 | 1440.1 | 1132.2 | 1092.2 | 988.7  | 109.3  | 37.5   | 15.9   | 9.2    | 7.5    | 5.8    |
| 45°   | 1521.0 | 1137.2 | 1058.0 | 1016.2 | 125.2  | 37.5   | 21.7   | 7.5    | 5.8    | 5.0    | 3.3    |
| 47.5° | 1403.4 | 1032.9 | 986.2  | 221.9  | 41.7   | 20.0   | 15.0   | 5.0    | 3.3    | 3.3    | 3.3    |
| 50°   | 1063.0 | 954.5  | 785.1  | 54.2   | 26.7   | 14.2   | 10.8   | 3.3    | 3.3    | 3.3    | 2.5    |
| 52.5° | 932.0  | 881.1  | 84.3   | 35.9   | 20.9   | 10.8   | 6.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 55°   | 851.9  | 559.0  | 50.1   | 27.5   | 17.5   | 10.0   | 4.2    | 2.5    | 2.5    | 2.5    | 1.7    |
| 57.5° | 779.3  | 75.1   | 36.7   | 23.4   | 15.9   | 9.2    | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    |
| 60°   | 660.8  | 54.2   | 30.0   | 20.9   | 15.0   | 8.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 62.5° | 85.9   | 42.6   | 25.9   | 18.4   | 10.8   | 6.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 65°   | 62.6   | 33.4   | 23.4   | 12.5   | 6.7    | 2.5    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 67.5° | 48.4   | 27.5   | 17.5   | 10.8   | 5.8    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 70°   | 38.4   | 23.4   | 14.2   | 9.2    | 5.0    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 72.5° | 30.0   | 16.7   | 10.0   | 5.0    | 3.3    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 75°   | 22.5   | 13.3   | 7.5    | 4.2    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 77.5° | 15.0   | 8.3    | 5.8    | 3.3    | 3.3    | 3.3    | 4.2    | 4.2    | 2.5    | 2.5    | 2.5    |
| 80°   | 10.0   | 5.8    | 4.2    | 4.2    | 4.2    | 3.3    | 4.2    | 4.2    | 2.5    | 4.2    | 2.5    |
| 82.5° | 5.0    | 4.2    | 4.2    | 3.3    | 3.3    | 2.5    | 3.3    | 3.3    | 3.3    | 3.3    | 2.5    |
| 85°   | 3.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 2.5    |
| 87.5° | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2800.1 | 2802.6 | 2795.9 | 2831.8 | 2813.4 | 2815.1 | 2822.6 | 2803.4 | 2807.6 | 2794.2 | 2785.1 |
| 5°    | 3103.8 | 3108.8 | 3113.8 | 3115.5 | 3118.8 | 3123.0 | 3118.0 | 3115.5 | 3110.4 | 3093.8 | 3076.2 |
| 7.5°  | 3056.2 | 3050.4 | 3047.9 | 3051.2 | 3057.0 | 3059.6 | 3055.4 | 3061.2 | 3082.9 | 3092.1 | 3097.9 |
| 10°   | 2805.9 | 2779.2 | 2797.6 | 2795.1 | 2774.2 | 2844.3 | 2825.1 | 2835.9 | 2843.5 | 2920.2 | 2966.9 |
| 12.5° | 2686.6 | 2703.3 | 2671.6 | 2655.7 | 2676.6 | 2690.8 | 2705.0 | 2674.9 | 2716.6 | 2697.4 | 2759.2 |
| 15°   | 2586.5 | 2576.5 | 2573.1 | 2574.0 | 2569.8 | 2589.8 | 2594.8 | 2601.5 | 2607.3 | 2633.2 | 2643.2 |
| 17.5° | 2541.4 | 2558.1 | 2564.8 | 2569.8 | 2561.4 | 2552.3 | 2543.1 | 2529.7 | 2533.9 | 2527.2 | 2546.4 |
| 20°   | 2083.4 | 2027.5 | 2024.1 | 2056.7 | 2020.8 | 2040.8 | 2089.2 | 2412.9 | 2402.1 | 2528.1 | 2485.5 |
| 22.5° | 1738.8 | 1686.2 | 1641.2 | 1601.9 | 1657.8 | 1681.2 | 1771.3 | 1873.1 | 2038.3 | 2012.4 | 2191.8 |
| 25°   | 1420.1 | 1400.9 | 1389.2 | 1383.3 | 1387.5 | 1385.9 | 1405.9 | 1453.4 | 1528.5 | 1705.4 | 1934.0 |
| 27.5° | 1328.3 | 1319.1 | 1314.9 | 1301.6 | 1311.6 | 1308.3 | 1324.1 | 1334.1 | 1356.6 | 1374.2 | 1448.4 |
| 30°   | 1255.7 | 1244.8 | 1237.3 | 1223.2 | 1233.2 | 1234.0 | 1239.0 | 1264.9 | 1274.0 | 1289.1 | 1312.4 |
| 32.5° | 458.9  | 270.3  | 253.6  | 241.1  | 263.7  | 343.8  | 603.2  | 1054.6 | 1203.1 | 1214.8 | 1241.5 |
| 35°   | 45.1   | 37.5   | 33.4   | 33.4   | 34.2   | 37.5   | 50.1   | 131.8  | 241.1  | 932.0  | 1166.4 |
| 37.5° | 17.5   | 15.0   | 12.5   | 11.7   | 12.5   | 14.2   | 19.2   | 25.0   | 34.2   | 70.9   | 316.2  |
| 40°   | 7.5    | 6.7    | 5.8    | 5.8    | 5.8    | 5.8    | 6.7    | 8.3    | 12.5   | 23.4   | 36.7   |
| 42.5° | 5.0    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 5.8    | 7.5    | 15.0   |
| 45°   | 3.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 4.2    | 6.7    |
| 47.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    |
| 50°   | 2.5    | 2.5    | 2.5    | 2.5    | 1.7    | 2.5    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    |
| 52.5° | 2.5    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    |
| 55°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    |
| 57.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 60°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 62.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 2.5    | 1.7    |
| 65°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.5    | 1.7    |
| 67.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 70°   | 2.5    | 2.5    | 1.7    | 2.5    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 1.7    | 1.7    |
| 72.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 5.0    | 5.0    | 3.3    |
| 75°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 4.2    | 5.0    | 4.2    |
| 77.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 4.2    | 4.2    | 4.2    |
| 80°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    |
| 85°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 87.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 340°   | 341°   | 342°   | 343°   | 344°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2769.2 | 2768.4 | 2785.9 | 2799.2 | 2794.2 | 2799.2 | 2805.1 | 2805.9 | 2807.6 | 2800.9 | 2798.4 |
| 5°    | 3042.9 | 3017.0 | 2966.9 | 2931.1 | 2889.3 | 2813.4 | 2775.9 | 2780.0 | 2780.9 | 2778.4 | 2781.7 |
| 7.5°  | 3095.4 | 3092.9 | 3075.4 | 3067.9 | 3039.5 | 2985.3 | 2898.5 | 2883.5 | 2846.8 | 2823.4 | 2804.2 |
| 10°   | 2963.6 | 3023.7 | 3039.5 | 3066.2 | 3082.9 | 3072.9 | 2999.5 | 2988.6 | 2965.3 | 2938.6 | 2944.4 |
| 12.5° | 2820.9 | 2870.2 | 2872.7 | 3017.8 | 3050.4 | 3053.7 | 3025.3 | 3040.4 | 3043.7 | 2983.6 | 2948.6 |
| 15°   | 2645.7 | 2669.1 | 2718.3 | 2853.5 | 2951.9 | 3013.7 | 3032.0 | 3040.4 | 2999.5 | 2997.0 | 2982.8 |
| 17.5° | 2569.0 | 2584.0 | 2606.5 | 2682.4 | 2831.8 | 2922.7 | 3000.3 | 2994.5 | 3010.3 | 2998.6 | 2962.8 |
| 20°   | 2472.2 | 2484.7 | 2524.7 | 2563.1 | 2636.5 | 2757.5 | 2902.7 | 2913.5 | 2934.4 | 2931.9 | 2941.9 |
| 22.5° | 2470.5 | 2426.3 | 2433.0 | 2463.0 | 2539.8 | 2648.2 | 2802.6 | 2838.4 | 2851.8 | 2861.0 | 2871.8 |
| 25°   | 1959.9 | 2311.1 | 2375.4 | 2394.6 | 2444.6 | 2508.0 | 2689.9 | 2703.3 | 2728.3 | 2769.2 | 2799.2 |
| 27.5° | 1697.9 | 1936.5 | 2193.5 | 2327.0 | 2358.7 | 2411.3 | 2519.7 | 2539.8 | 2624.9 | 2634.9 | 2681.6 |
| 30°   | 1340.0 | 1524.4 | 1908.2 | 2229.4 | 2281.9 | 2318.7 | 2395.4 | 2435.5 | 2472.2 | 2512.2 | 2561.4 |
| 32.5° | 1260.7 | 1289.9 | 1502.7 | 1844.7 | 2253.6 | 2226.0 | 2282.8 | 2307.0 | 2347.0 | 2382.1 | 2417.9 |
| 35°   | 1188.1 | 1208.1 | 1253.2 | 1511.0 | 1835.6 | 2150.1 | 2188.5 | 2204.3 | 2226.9 | 2253.6 | 2279.4 |
| 37.5° | 1112.2 | 1142.2 | 1173.1 | 1242.3 | 1697.9 | 2090.0 | 2089.2 | 2107.6 | 2120.9 | 2143.4 | 2165.1 |
| 40°   | 201.9  | 1048.8 | 1098.8 | 1143.9 | 1316.6 | 1667.0 | 1995.8 | 2004.1 | 2013.3 | 2027.5 | 2050.0 |
| 42.5° | 32.5   | 175.2  | 1029.6 | 1073.0 | 1122.2 | 1492.6 | 1953.2 | 1919.0 | 1913.2 | 1923.2 | 1943.2 |
| 45°   | 16.7   | 42.6   | 206.9  | 1002.1 | 1046.3 | 1190.6 | 1596.9 | 1859.8 | 1853.9 | 1834.7 | 1838.9 |
| 47.5° | 12.5   | 26.7   | 50.9   | 346.3  | 979.5  | 1022.1 | 1473.5 | 1457.6 | 1568.6 | 1781.3 | 1748.8 |
| 50°   | 10.8   | 18.4   | 30.0   | 70.9   | 865.2  | 941.1  | 1134.7 | 1325.8 | 1384.2 | 1391.7 | 1647.0 |
| 52.5° | 10.0   | 12.5   | 21.7   | 45.9   | 181.9  | 870.2  | 922.8  | 989.5  | 1088.0 | 1299.1 | 1294.1 |
| 55°   | 9.2    | 11.7   | 18.4   | 30.9   | 63.4   | 784.3  | 838.5  | 851.0  | 871.9  | 972.8  | 1106.3 |
| 57.5° | 5.0    | 10.8   | 17.5   | 26.7   | 47.6   | 143.5  | 760.9  | 770.9  | 787.6  | 791.8  | 839.4  |
| 60°   | 2.5    | 10.0   | 15.9   | 23.4   | 35.0   | 66.7   | 684.2  | 695.8  | 705.9  | 707.5  | 722.5  |
| 62.5° | 1.7    | 9.2    | 13.3   | 21.7   | 29.2   | 47.6   | 161.9  | 330.4  | 628.3  | 628.3  | 645.8  |
| 65°   | 1.7    | 6.7    | 8.3    | 14.2   | 26.7   | 39.2   | 68.4   | 79.3   | 154.4  | 379.6  | 566.5  |
| 67.5° | 1.7    | 2.5    | 7.5    | 11.7   | 20.0   | 30.0   | 50.1   | 58.4   | 70.1   | 80.1   | 148.5  |
| 70°   | 1.7    | 1.7    | 6.7    | 7.5    | 12.5   | 22.5   | 35.9   | 40.9   | 47.6   | 54.2   | 62.6   |
| 72.5° | 1.7    | 1.7    | 5.8    | 5.8    | 8.3    | 15.0   | 27.5   | 30.0   | 34.2   | 38.4   | 44.2   |
| 75°   | 4.2    | 3.3    | 5.0    | 5.0    | 5.8    | 11.7   | 20.9   | 23.4   | 25.0   | 28.4   | 32.5   |
| 77.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 7.5    | 13.3   | 15.0   | 17.5   | 19.2   | 22.5   |
| 80°   | 3.3    | 3.3    | 3.3    | 4.2    | 4.2    | 5.0    | 8.3    | 9.2    | 10.0   | 12.5   | 13.3   |
| 82.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 5.0    | 5.8    | 7.5    |
| 85°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    | 3.3    |
| 87.5° | 2.5    | 2.5    | 2.5    | 1.7    | 1.7    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 346°   | 347°   | 348°   | 349°   | 350°   | 351°   | 352°   | 353°   | 354°   | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2797.6 | 2792.6 | 2788.4 | 2790.9 | 2783.4 | 2780.0 | 2782.5 | 2783.4 | 2785.1 | 2789.2 | 2790.1 |
| 5°    | 2790.1 | 2788.4 | 2795.9 | 2800.1 | 2798.4 | 2800.1 | 2800.1 | 2796.7 | 2791.7 | 2795.1 | 2787.6 |
| 7.5°  | 2785.1 | 2774.2 | 2765.9 | 2767.5 | 2759.2 | 2769.2 | 2778.4 | 2791.7 | 2795.9 | 2795.9 | 2787.6 |
| 10°   | 2871.0 | 2859.3 | 2812.6 | 2780.9 | 2760.0 | 2741.7 | 2785.1 | 2740.8 | 2761.7 | 2682.4 | 2773.4 |
| 12.5° | 2941.9 | 2957.8 | 2936.9 | 2850.1 | 2835.1 | 2780.0 | 2811.8 | 2757.5 | 2741.7 | 2650.7 | 2679.9 |
| 15°   | 2970.3 | 2940.2 | 2933.6 | 2909.4 | 2876.8 | 2861.0 | 2775.9 | 2766.7 | 2740.8 | 2750.8 | 2712.5 |
| 17.5° | 2945.2 | 2960.3 | 2940.2 | 2924.4 | 2891.0 | 2853.5 | 2802.6 | 2757.5 | 2721.6 | 2641.5 | 2709.1 |
| 20°   | 2921.0 | 2941.1 | 2881.0 | 2891.0 | 2894.4 | 2851.0 | 2824.3 | 2786.7 | 2741.7 | 2666.6 | 2608.2 |
| 22.5° | 2881.0 | 2866.8 | 2871.8 | 2856.8 | 2844.3 | 2850.1 | 2813.4 | 2787.6 | 2711.6 | 2677.4 | 2598.2 |
| 25°   | 2815.9 | 2810.9 | 2824.3 | 2822.6 | 2792.6 | 2782.5 | 2764.2 | 2736.7 | 2706.6 | 2651.6 | 2586.5 |
| 27.5° | 2710.0 | 2735.8 | 2759.2 | 2770.0 | 2754.2 | 2727.5 | 2717.5 | 2701.6 | 2680.8 | 2624.9 | 2576.5 |
| 30°   | 2598.2 | 2627.4 | 2654.1 | 2677.4 | 2691.6 | 2679.9 | 2670.7 | 2661.6 | 2629.9 | 2593.2 | 2538.9 |
| 32.5° | 2470.5 | 2508.9 | 2545.6 | 2574.0 | 2604.8 | 2614.0 | 2607.3 | 2599.8 | 2573.1 | 2539.8 | 2496.4 |
| 35°   | 2322.8 | 2375.4 | 2428.8 | 2479.7 | 2493.0 | 2514.7 | 2536.4 | 2523.9 | 2509.7 | 2476.3 | 2436.3 |
| 37.5° | 2197.7 | 2235.2 | 2273.6 | 2337.8 | 2384.6 | 2412.1 | 2450.5 | 2455.5 | 2431.3 | 2415.4 | 2362.9 |
| 40°   | 2068.3 | 2102.6 | 2158.5 | 2196.0 | 2260.2 | 2292.0 | 2332.8 | 2351.2 | 2345.4 | 2336.2 | 2290.3 |
| 42.5° | 1966.6 | 1983.2 | 2020.0 | 2053.3 | 2116.7 | 2181.8 | 2217.7 | 2237.7 | 2258.6 | 2251.1 | 2227.7 |
| 45°   | 1858.1 | 1873.1 | 1885.6 | 1914.8 | 1976.6 | 2034.1 | 2078.4 | 2108.4 | 2145.9 | 2163.5 | 2135.1 |
| 47.5° | 1750.5 | 1754.6 | 1769.7 | 1793.8 | 1830.6 | 1874.8 | 1949.0 | 1994.1 | 2029.1 | 2063.3 | 2045.0 |
| 50°   | 1667.9 | 1652.8 | 1655.3 | 1670.4 | 1700.4 | 1743.8 | 1797.2 | 1860.6 | 1900.6 | 1942.4 | 1946.5 |
| 52.5° | 1457.6 | 1579.4 | 1550.2 | 1558.6 | 1574.4 | 1595.3 | 1651.2 | 1713.7 | 1763.0 | 1798.9 | 1834.7 |
| 55°   | 1223.2 | 1247.3 | 1481.8 | 1448.4 | 1458.4 | 1476.8 | 1502.7 | 1565.2 | 1612.8 | 1662.9 | 1712.9 |
| 57.5° | 948.7  | 1128.9 | 1138.0 | 1355.0 | 1350.0 | 1351.6 | 1373.3 | 1409.2 | 1456.8 | 1519.3 | 1561.9 |
| 60°   | 737.6  | 813.5  | 961.2  | 1036.3 | 1226.5 | 1233.2 | 1245.7 | 1266.5 | 1307.4 | 1366.7 | 1434.2 |
| 62.5° | 650.8  | 660.8  | 713.4  | 826.0  | 949.5  | 1098.8 | 1125.5 | 1128.9 | 1147.2 | 1206.5 | 1284.9 |
| 65°   | 571.5  | 578.2  | 594.1  | 605.7  | 709.2  | 853.5  | 982.0  | 1002.9 | 1014.6 | 1049.6 | 1116.4 |
| 67.5° | 393.8  | 498.1  | 512.3  | 520.6  | 530.6  | 597.4  | 756.8  | 862.7  | 876.1  | 906.9  | 965.3  |
| 70°   | 75.9   | 157.7  | 431.4  | 440.5  | 445.5  | 460.6  | 486.4  | 655.0  | 743.4  | 772.6  | 799.3  |
| 72.5° | 51.7   | 60.9   | 73.4   | 173.5  | 367.1  | 375.5  | 381.3  | 403.0  | 552.3  | 637.4  | 651.6  |
| 75°   | 37.5   | 41.7   | 49.2   | 60.9   | 75.1   | 244.5  | 302.9  | 313.7  | 324.6  | 448.0  | 519.8  |
| 77.5° | 26.7   | 30.0   | 33.4   | 39.2   | 45.9   | 59.2   | 85.1   | 234.5  | 245.3  | 251.1  | 354.6  |
| 80°   | 15.0   | 18.4   | 22.5   | 25.9   | 29.2   | 33.4   | 43.4   | 54.2   | 121.0  | 176.9  | 186.1  |
| 82.5° | 8.3    | 10.0   | 11.7   | 14.2   | 15.9   | 20.0   | 24.2   | 29.2   | 38.4   | 56.7   | 120.1  |
| 85°   | 4.2    | 4.2    | 4.2    | 5.8    | 6.7    | 9.2    | 10.8   | 12.5   | 17.5   | 24.2   | 33.4   |
| 87.5° | 2.5    | 2.5    | 3.3    | 3.3    | 3.3    | 4.2    | 4.2    | 4.2    | 5.0    | 7.5    | 10.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1213100

CATALOG NUMBER: 4SNLED-LD5-50SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 356°   | 357°   | 358°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2790.9 | 2788.4 | 2788.4 | 2798.4 | 2795.9 |
| 5°    | 2785.9 | 2783.4 | 2782.5 | 2793.4 | 2788.4 |
| 7.5°  | 2781.7 | 2772.5 | 2770.0 | 2780.0 | 2775.9 |
| 10°   | 2765.0 | 2758.4 | 2762.5 | 2759.2 | 2757.5 |
| 12.5° | 2736.7 | 2732.5 | 2715.0 | 2716.6 | 2730.8 |
| 15°   | 2685.8 | 2702.5 | 2672.4 | 2699.1 | 2705.0 |
| 17.5° | 2592.3 | 2629.9 | 2659.1 | 2674.9 | 2677.4 |
| 20°   | 2634.0 | 2646.5 | 2631.5 | 2632.4 | 2642.4 |
| 22.5° | 2579.8 | 2585.6 | 2589.8 | 2584.8 | 2606.5 |
| 25°   | 2493.0 | 2470.5 | 2518.9 | 2528.9 | 2563.9 |
| 27.5° | 2466.3 | 2448.0 | 2470.5 | 2468.8 | 2498.0 |
| 30°   | 2444.6 | 2385.4 | 2395.4 | 2411.3 | 2447.1 |
| 32.5° | 2413.8 | 2320.3 | 2310.3 | 2345.4 | 2385.4 |
| 35°   | 2359.5 | 2271.1 | 2247.7 | 2270.3 | 2330.3 |
| 37.5° | 2313.6 | 2202.7 | 2156.0 | 2186.0 | 2264.4 |
| 40°   | 2245.2 | 2149.3 | 2076.7 | 2103.4 | 2196.0 |
| 42.5° | 2163.5 | 2103.4 | 1991.6 | 2009.9 | 2115.9 |
| 45°   | 2080.9 | 2027.5 | 1909.0 | 1918.2 | 2044.2 |
| 47.5° | 1996.6 | 1947.4 | 1823.0 | 1824.7 | 1952.4 |
| 50°   | 1914.0 | 1848.9 | 1746.3 | 1717.1 | 1854.8 |
| 52.5° | 1806.4 | 1746.3 | 1668.7 | 1621.1 | 1762.1 |
| 55°   | 1704.6 | 1637.0 | 1580.3 | 1506.8 | 1657.0 |
| 57.5° | 1605.3 | 1530.2 | 1491.8 | 1397.5 | 1537.7 |
| 60°   | 1469.3 | 1433.4 | 1376.7 | 1286.6 | 1430.1 |
| 62.5° | 1329.9 | 1318.3 | 1260.7 | 1167.3 | 1297.4 |
| 65°   | 1167.3 | 1194.8 | 1135.5 | 1055.4 | 1159.7 |
| 67.5° | 1013.7 | 1063.0 | 997.9  | 948.7  | 1027.1 |
| 70°   | 850.2  | 906.9  | 870.2  | 852.7  | 886.1  |
| 72.5° | 689.2  | 744.2  | 747.6  | 735.1  | 745.9  |
| 75°   | 532.3  | 593.2  | 626.6  | 607.4  | 609.9  |
| 77.5° | 403.8  | 433.0  | 469.7  | 484.8  | 481.4  |
| 80°   | 249.5  | 300.4  | 330.4  | 361.3  | 350.4  |
| 82.5° | 126.0  | 168.5  | 205.2  | 238.6  | 222.8  |
| 85°   | 52.6   | 67.6   | 94.3   | 124.3  | 119.3  |
| 87.5° | 15.9   | 26.7   | 28.4   | 40.0   | 37.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)