

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: P1213140

Luminaire Tested: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213140  
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-LD5-61HL-RM-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

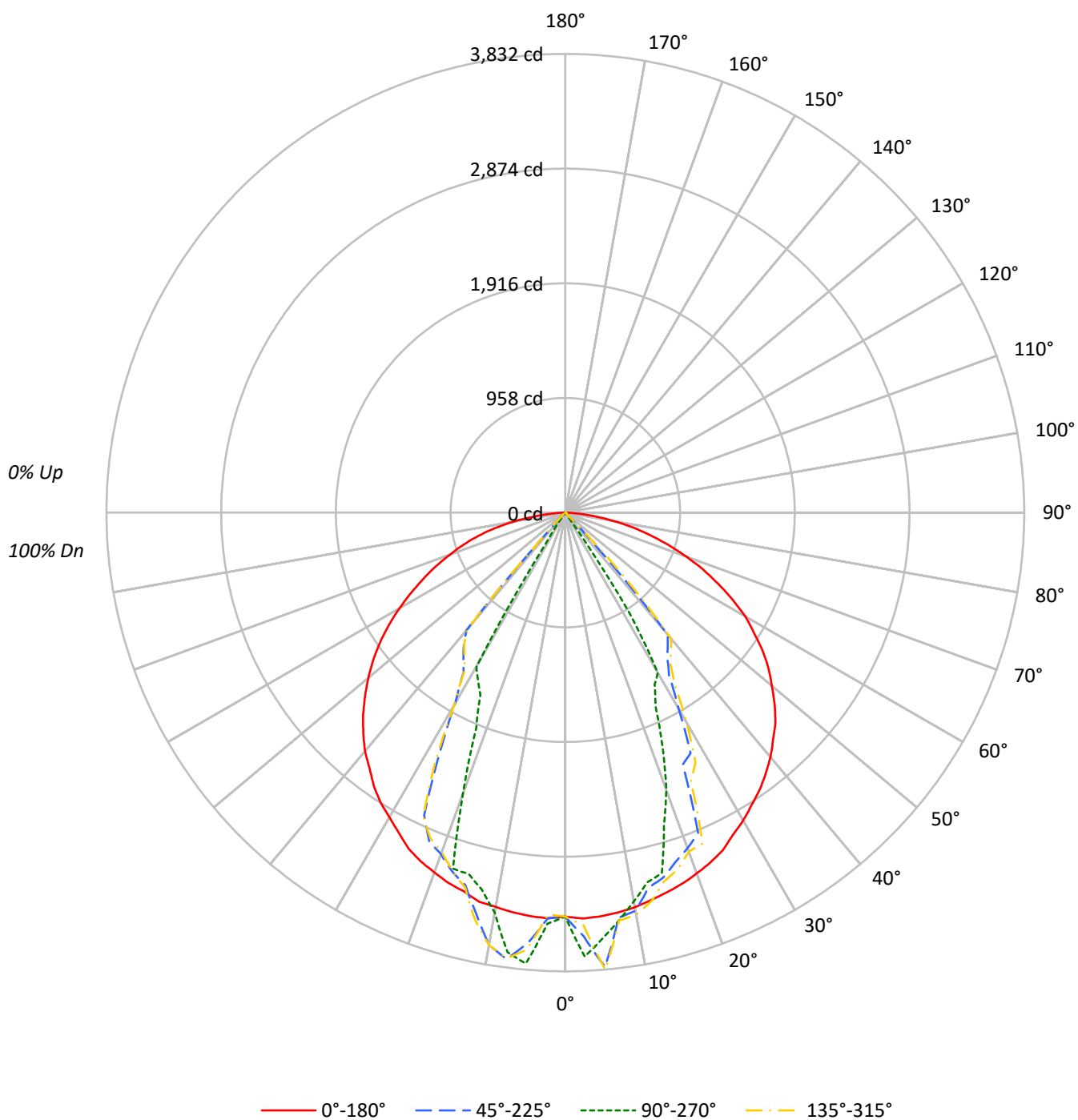
Lumens per Lamp: N/A  
Luminaire Lumens: 4798.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 48  
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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-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°  | 27268 | 27268 | 27268 | 27268 |
| 5°  | 27379 | 28045 | 27371 | 29699 |
| 10° | 27314 | 25377 | 27297 | 26110 |
| 15° | 27239 | 23687 | 27172 | 23749 |
| 20° | 27271 | 18657 | 27193 | 18887 |
| 25° | 27349 | 13502 | 27216 | 12741 |
| 30° | 27224 | 11844 | 26937 | 11386 |
| 35° | 27306 | 261   | 26904 | 316   |
| 40° | 27399 | 57    | 26743 | 57    |
| 45° | 27495 | 34    | 26463 | 25    |
| 50° | 27286 | 26    | 26033 | 26    |
| 55° | 27125 | 18    | 25459 | 18    |
| 60° | 26614 | 20    | 24533 | 20    |
| 65° | 25227 | 32    | 23429 | 21    |
| 70° | 23402 | 35    | 22277 | 35    |
| 75° | 20700 | 39    | 21038 | 39    |
| 80° | 16812 | 45    | 17773 | 45    |
| 85° | 9892  | 53    | 10104 | 53    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 29689 cd/sqm

TEST NUMBER: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 338.5  | 7.1       |
| 10°-20°   | 923.4  | 19.2      |
| 20°-30°   | 1175.0 | 24.5      |
| 30°-40°   | 992.6  | 20.7      |
| 40°-50°   | 648.9  | 13.5      |
| 50°-60°   | 408.9  | 8.5       |
| 60°-70°   | 217.6  | 4.5       |
| 70°-80°   | 79.3   | 1.7       |
| 80°-90°   | 13.6   | 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°    | 2437.0 | 50.8      |
| 0°-40°    | 3429.5 | 71.5      |
| 0°-60°    | 4487.3 | 93.5      |
| 0°-90°    | 4798.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4798.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3374 | 3374 | 3374 | 3374 | 3374 |      |
| 5°  | 3384 | 3571 | 3383 | 3781 | 3384 | 322  |
| 15° | 3283 | 3116 | 3275 | 3124 | 3283 | 928  |
| 25° | 3112 | 1779 | 3097 | 1679 | 3112 | 1431 |
| 35° | 2828 | 33   | 2787 | 40   | 2828 | 1769 |
| 45° | 2481 | 4    | 2388 | 3    | 2481 | 1908 |
| 55° | 2011 | 2    | 1888 | 2    | 2011 | 1792 |
| 65° | 1408 | 3    | 1307 | 2    | 1408 | 1394 |
| 75° | 740  | 3    | 752  | 3    | 740  | 786  |
| 85° | 145  | 3    | 148  | 3    | 145  | 183  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3393.6 | 3395.6 | 3396.6 | 3398.6 | 3401.7 | 3402.7 | 3404.7 | 3402.7 | 3402.7 | 3402.7 | 3402.7 |
| 5°    | 3384.4 | 3388.5 | 3391.5 | 3395.6 | 3402.7 | 3403.7 | 3411.8 | 3412.8 | 3416.8 | 3424.9 | 3431.0 |
| 7.5°  | 3369.2 | 3373.3 | 3379.4 | 3389.5 | 3399.6 | 3410.8 | 3424.9 | 3440.1 | 3461.4 | 3481.7 | 3507.0 |
| 10°   | 3347.0 | 3352.0 | 3359.1 | 3368.2 | 3417.9 | 3424.9 | 3456.3 | 3499.9 | 3512.0 | 3575.8 | 3623.4 |
| 12.5° | 3314.6 | 3331.8 | 3350.0 | 3358.1 | 3405.7 | 3480.6 | 3586.0 | 3564.7 | 3541.4 | 3750.0 | 3747.0 |
| 15°   | 3283.2 | 3306.5 | 3297.3 | 3363.2 | 3406.7 | 3537.4 | 3492.8 | 3588.0 | 3762.2 | 3719.6 | 3721.7 |
| 17.5° | 3249.8 | 3254.8 | 3305.4 | 3360.1 | 3438.1 | 3505.0 | 3559.6 | 3690.3 | 3724.7 | 3727.7 | 3690.3 |
| 20°   | 3207.2 | 3231.5 | 3305.4 | 3355.1 | 3486.7 | 3518.1 | 3636.6 | 3703.4 | 3689.3 | 3654.8 | 3591.0 |
| 22.5° | 3163.7 | 3237.6 | 3312.5 | 3382.4 | 3474.6 | 3558.6 | 3617.4 | 3648.8 | 3574.8 | 3439.1 | 3366.2 |
| 25°   | 3112.0 | 3155.6 | 3253.8 | 3356.1 | 3471.5 | 3520.1 | 3554.6 | 3503.9 | 3407.7 | 3286.2 | 3163.7 |
| 27.5° | 3032.0 | 3101.9 | 3227.5 | 3342.9 | 3447.2 | 3506.0 | 3450.3 | 3328.7 | 3173.8 | 3093.8 | 3038.1 |
| 30°   | 2970.2 | 3061.4 | 3164.7 | 3276.1 | 3384.4 | 3418.9 | 3277.1 | 3138.4 | 3032.0 | 2952.0 | 2939.9 |
| 32.5° | 2895.3 | 3024.9 | 3123.2 | 3229.5 | 3320.6 | 3275.1 | 3137.3 | 2958.1 | 2870.0 | 2839.6 | 2851.8 |
| 35°   | 2828.5 | 2926.7 | 3055.3 | 3159.6 | 3225.4 | 3123.2 | 2905.4 | 2794.0 | 2751.5 | 2768.7 | 2746.4 |
| 37.5° | 2748.5 | 2878.1 | 2996.6 | 3086.7 | 3064.4 | 2910.5 | 2726.2 | 2655.3 | 2660.4 | 2646.2 | 2603.6 |
| 40°   | 2665.4 | 2789.0 | 2912.5 | 2997.6 | 2919.6 | 2684.7 | 2562.1 | 2546.9 | 2550.0 | 2504.4 | 2443.6 |
| 42.5° | 2568.2 | 2680.6 | 2804.2 | 2881.1 | 2713.0 | 2529.7 | 2446.7 | 2448.7 | 2422.4 | 2358.6 | 2326.2 |
| 45°   | 2481.1 | 2584.4 | 2713.0 | 2720.1 | 2513.5 | 2360.6 | 2336.3 | 2310.0 | 2251.2 | 2230.0 | 2205.7 |
| 47.5° | 2369.7 | 2484.2 | 2590.5 | 2552.0 | 2318.1 | 2222.9 | 2204.6 | 2146.9 | 2117.6 | 2101.4 | 2081.1 |
| 50°   | 2251.2 | 2366.7 | 2463.9 | 2354.5 | 2133.8 | 2111.5 | 2051.7 | 2006.2 | 1985.9 | 1968.7 | 1950.5 |
| 52.5° | 2138.8 | 2234.0 | 2333.3 | 2144.9 | 1992.0 | 1970.7 | 1902.9 | 1876.5 | 1856.3 | 1837.0 | 1833.0 |
| 55°   | 2011.2 | 2095.3 | 2163.1 | 1945.4 | 1856.3 | 1806.7 | 1758.0 | 1739.8 | 1720.6 | 1711.5 | 1726.7 |
| 57.5° | 1866.4 | 1961.6 | 1951.5 | 1748.9 | 1709.4 | 1637.5 | 1619.3 | 1607.2 | 1593.0 | 1599.1 | 1472.5 |
| 60°   | 1735.8 | 1808.7 | 1759.1 | 1605.1 | 1538.3 | 1489.7 | 1473.5 | 1465.4 | 1473.5 | 1349.9 | 1186.9 |
| 62.5° | 1574.7 | 1656.8 | 1556.5 | 1437.0 | 1366.1 | 1342.8 | 1328.7 | 1339.8 | 1221.3 | 1085.6 | 1046.1 |
| 65°   | 1407.7 | 1496.8 | 1348.9 | 1256.8 | 1212.2 | 1191.9 | 1190.9 | 1096.8 | 980.3  | 927.6  | 927.6  |
| 67.5° | 1246.6 | 1338.8 | 1148.4 | 1071.4 | 1054.2 | 1056.2 | 997.5  | 854.7  | 822.3  | 786.9  | 684.6  |
| 70°   | 1075.5 | 1156.5 | 948.9  | 902.3  | 892.2  | 885.1  | 742.3  | 703.8  | 665.3  | 571.2  | 563.1  |
| 72.5° | 905.4  | 944.8  | 762.6  | 751.4  | 749.4  | 622.8  | 594.5  | 528.6  | 484.1  | 472.9  | 467.9  |
| 75°   | 740.3  | 728.1  | 602.6  | 612.7  | 516.5  | 471.9  | 426.3  | 387.9  | 381.8  | 377.7  | 94.2   |
| 77.5° | 584.3  | 523.6  | 475.0  | 413.2  | 369.6  | 313.9  | 304.8  | 298.7  | 196.5  | 70.9   | 57.7   |
| 80°   | 425.3  | 339.3  | 316.0  | 268.4  | 228.9  | 219.8  | 224.8  | 68.9   | 54.7   | 45.6   | 39.5   |
| 82.5° | 270.4  | 216.7  | 177.2  | 154.9  | 150.9  | 65.8   | 48.6   | 39.5   | 34.4   | 29.4   | 24.3   |
| 85°   | 144.8  | 96.2   | 89.1   | 74.9   | 44.6   | 30.4   | 25.3   | 19.2   | 16.2   | 13.2   | 12.2   |
| 87.5° | 45.6   | 38.5   | 31.4   | 25.3   | 15.2   | 10.1   | 8.1    | 7.1    | 6.1    | 5.1    | 5.1    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 11°    | 12°    | 13°    | 14°    | 15°    | 16°    | 17°    | 18°    | 19°    | 20°    | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3400.6 | 3402.7 | 3401.7 | 3404.7 | 3404.7 | 3408.7 | 3411.8 | 3414.8 | 3420.9 | 3423.9 | 3447.2 |
| 5°    | 3444.2 | 3449.3 | 3464.4 | 3478.6 | 3495.8 | 3500.9 | 3530.3 | 3537.4 | 3571.8 | 3575.8 | 3689.3 |
| 7.5°  | 3541.4 | 3560.6 | 3597.1 | 3633.6 | 3670.0 | 3693.3 | 3733.8 | 3759.1 | 3786.5 | 3810.8 | 3900.9 |
| 10°   | 3658.9 | 3691.3 | 3726.7 | 3763.2 | 3784.5 | 3829.0 | 3853.3 | 3857.4 | 3850.3 | 3810.8 | 3665.0 |
| 12.5° | 3774.3 | 3806.7 | 3791.5 | 3798.6 | 3824.0 | 3745.0 | 3756.1 | 3699.4 | 3738.9 | 3543.4 | 3398.6 |
| 15°   | 3758.1 | 3756.1 | 3718.6 | 3597.1 | 3617.4 | 3466.5 | 3405.7 | 3359.1 | 3396.6 | 3376.3 | 3354.1 |
| 17.5° | 3709.5 | 3617.4 | 3552.5 | 3406.7 | 3344.9 | 3302.4 | 3303.4 | 3304.4 | 3286.2 | 3305.4 | 3248.7 |
| 20°   | 3503.9 | 3400.6 | 3304.4 | 3252.8 | 3234.6 | 3204.2 | 3219.4 | 3204.2 | 3205.2 | 3211.3 | 3124.2 |
| 22.5° | 3230.5 | 3199.1 | 3143.4 | 3159.6 | 3153.5 | 3180.9 | 3160.6 | 3129.2 | 3139.4 | 3093.8 | 3028.0 |
| 25°   | 3120.1 | 3083.7 | 3081.6 | 3087.7 | 3078.6 | 3066.5 | 3048.2 | 3000.6 | 2997.6 | 2983.4 | 2953.0 |
| 27.5° | 3008.7 | 3010.8 | 3016.8 | 2998.6 | 2966.2 | 2941.9 | 2914.5 | 2891.3 | 2900.4 | 2884.2 | 2842.6 |
| 30°   | 2931.8 | 2930.8 | 2894.3 | 2878.1 | 2818.3 | 2819.4 | 2812.3 | 2798.1 | 2789.0 | 2790.0 | 2763.7 |
| 32.5° | 2822.4 | 2791.0 | 2749.5 | 2729.2 | 2724.2 | 2705.9 | 2691.8 | 2694.8 | 2701.9 | 2676.6 | 2703.9 |
| 35°   | 2710.0 | 2645.2 | 2639.1 | 2621.9 | 2605.7 | 2593.5 | 2598.6 | 2578.3 | 2577.3 | 2574.3 | 2351.5 |
| 37.5° | 2559.1 | 2527.7 | 2524.7 | 2506.4 | 2495.3 | 2492.3 | 2473.0 | 2476.0 | 2485.2 | 2501.4 | 2005.1 |
| 40°   | 2434.5 | 2406.2 | 2399.1 | 2398.1 | 2373.8 | 2371.7 | 2376.8 | 2396.0 | 2409.2 | 2307.9 | 1911.0 |
| 42.5° | 2300.9 | 2302.9 | 2280.6 | 2266.4 | 2269.5 | 2278.6 | 2302.9 | 2236.0 | 1937.3 | 1846.1 | 1746.9 |
| 45°   | 2186.4 | 2176.3 | 2164.1 | 2160.1 | 2186.4 | 2168.2 | 1900.8 | 1754.0 | 1718.5 | 1714.5 | 1436.0 |
| 47.5° | 2066.9 | 2063.9 | 2058.8 | 2061.9 | 1912.0 | 1704.4 | 1643.6 | 1624.4 | 1630.4 | 1626.4 | 1233.5 |
| 50°   | 1946.4 | 1950.5 | 1950.5 | 1703.4 | 1563.6 | 1529.2 | 1534.2 | 1551.5 | 1444.1 | 1347.9 | 1149.4 |
| 52.5° | 1842.1 | 1810.7 | 1551.5 | 1462.3 | 1430.9 | 1446.1 | 1409.7 | 1275.0 | 1177.8 | 1121.1 | 1063.3 |
| 55°   | 1648.7 | 1417.8 | 1360.1 | 1345.9 | 1357.0 | 1222.3 | 1139.3 | 1052.2 | 1026.9 | 1020.8 | 987.4  |
| 57.5° | 1297.3 | 1250.7 | 1255.7 | 1199.0 | 1070.4 | 994.5  | 961.1  | 948.9  | 937.8  | 929.7  | 81.0   |
| 60°   | 1147.4 | 1160.6 | 1062.3 | 940.8  | 889.1  | 879.0  | 870.9  | 859.8  | 857.8  | 843.6  | 51.6   |
| 62.5° | 1050.2 | 923.6  | 838.5  | 808.1  | 796.0  | 792.9  | 777.8  | 772.7  | 656.2  | 90.1   | 38.5   |
| 65°   | 791.9  | 740.3  | 724.1  | 717.0  | 703.8  | 703.8  | 584.3  | 92.2   | 74.9   | 64.8   | 34.4   |
| 67.5° | 646.1  | 642.1  | 633.9  | 624.8  | 425.3  | 89.1   | 78.0   | 67.9   | 58.7   | 51.6   | 30.4   |
| 70°   | 546.9  | 544.8  | 496.2  | 91.1   | 76.0   | 66.8   | 58.7   | 52.7   | 48.6   | 43.5   | 27.3   |
| 72.5° | 448.6  | 91.1   | 77.0   | 66.8   | 57.7   | 52.7   | 47.6   | 42.5   | 38.5   | 35.4   | 22.3   |
| 75°   | 69.9   | 61.8   | 54.7   | 49.6   | 45.6   | 40.5   | 36.5   | 33.4   | 32.4   | 28.4   | 15.2   |
| 77.5° | 50.6   | 43.5   | 39.5   | 35.4   | 31.4   | 28.4   | 24.3   | 21.3   | 19.2   | 16.2   | 11.1   |
| 80°   | 35.4   | 31.4   | 28.4   | 23.3   | 20.3   | 17.2   | 15.2   | 13.2   | 12.2   | 10.1   | 5.1    |
| 82.5° | 20.3   | 17.2   | 15.2   | 12.2   | 11.1   | 9.1    | 8.1    | 7.1    | 7.1    | 5.1    | 5.1    |
| 85°   | 9.1    | 9.1    | 7.1    | 6.1    | 5.1    | 5.1    | 5.1    | 4.1    | 4.1    | 3.0    | 3.0    |
| 87.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 30°    | 35°    | 40°    | 45°    | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3479.6 | 3492.8 | 3518.1 | 3544.4 | 3515.1 | 3620.4 | 3612.3 | 3647.7 | 3667.0 | 3676.1 | 3697.4 |
| 5°    | 3789.5 | 3848.3 | 3867.5 | 3809.8 | 3776.4 | 3741.9 | 3663.9 | 3605.2 | 3612.3 | 3593.1 | 3523.2 |
| 7.5°  | 3783.4 | 3657.9 | 3488.7 | 3411.8 | 3405.7 | 3396.6 | 3420.9 | 3435.1 | 3437.1 | 3436.1 | 3434.1 |
| 10°   | 3463.4 | 3398.6 | 3387.5 | 3377.4 | 3381.4 | 3343.9 | 3326.7 | 3278.1 | 3304.4 | 3290.3 | 3295.3 |
| 12.5° | 3366.2 | 3351.0 | 3291.3 | 3208.2 | 3257.9 | 3220.4 | 3199.1 | 3213.3 | 3197.1 | 3181.9 | 3176.8 |
| 15°   | 3308.5 | 3210.3 | 3176.8 | 3156.6 | 3142.4 | 3134.3 | 3141.4 | 3125.2 | 3120.1 | 3117.1 | 3124.2 |
| 17.5° | 3189.0 | 3149.5 | 3113.0 | 3059.4 | 3060.4 | 3057.3 | 3077.6 | 3108.0 | 3110.0 | 2954.0 | 2813.3 |
| 20°   | 3094.8 | 3062.4 | 3015.8 | 2982.4 | 3028.0 | 2947.0 | 2634.0 | 2485.2 | 2461.9 | 2461.9 | 2465.9 |
| 22.5° | 3019.9 | 2948.0 | 2951.0 | 2898.3 | 2472.0 | 2384.9 | 2386.9 | 2396.0 | 2354.5 | 2212.7 | 2197.6 |
| 25°   | 2917.6 | 2906.4 | 2684.7 | 2320.1 | 2323.1 | 2255.3 | 2151.0 | 2004.1 | 1845.1 | 1845.1 | 1818.8 |
| 27.5° | 2840.6 | 2604.7 | 2280.6 | 2265.4 | 2037.6 | 1893.7 | 1804.6 | 1669.9 | 1651.7 | 1634.5 | 1636.5 |
| 30°   | 2774.8 | 2203.6 | 2211.7 | 1893.7 | 1725.6 | 1606.1 | 1599.1 | 1576.8 | 1565.6 | 1562.6 | 1551.5 |
| 32.5° | 2193.5 | 2145.9 | 1851.2 | 1612.2 | 1546.4 | 1527.1 | 1518.0 | 1492.7 | 1491.7 | 1472.5 | 1338.8 |
| 35°   | 2056.8 | 1883.6 | 1549.4 | 1484.6 | 1465.4 | 1447.1 | 1432.0 | 961.1  | 113.4  | 45.6   | 39.5   |
| 37.5° | 1900.8 | 1573.7 | 1433.0 | 1403.6 | 1385.4 | 1023.8 | 102.3  | 35.4   | 25.3   | 18.2   | 16.2   |
| 40°   | 1611.2 | 1405.6 | 1361.1 | 1328.7 | 547.9  | 35.4   | 22.3   | 17.2   | 10.1   | 9.1    | 8.1    |
| 42.5° | 1359.0 | 1324.6 | 1277.0 | 388.9  | 40.5   | 17.2   | 11.1   | 8.1    | 7.1    | 7.1    | 6.1    |
| 45°   | 1271.9 | 1241.6 | 514.5  | 38.5   | 25.3   | 8.1    | 7.1    | 7.1    | 6.1    | 4.1    | 4.1    |
| 47.5° | 1190.9 | 1048.1 | 46.6   | 24.3   | 16.2   | 7.1    | 6.1    | 4.1    | 4.1    | 4.1    | 3.0    |
| 50°   | 1104.9 | 57.7   | 32.4   | 18.2   | 10.1   | 4.1    | 4.1    | 4.1    | 4.1    | 3.0    | 3.0    |
| 52.5° | 206.6  | 40.5   | 26.3   | 16.2   | 5.1    | 4.1    | 4.1    | 4.1    | 3.0    | 3.0    | 3.0    |
| 55°   | 48.6   | 32.4   | 24.3   | 14.2   | 4.1    | 4.1    | 4.1    | 3.0    | 3.0    | 3.0    | 2.0    |
| 57.5° | 36.5   | 24.3   | 19.2   | 13.2   | 4.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    |
| 60°   | 30.4   | 17.2   | 15.2   | 12.2   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    |
| 62.5° | 21.3   | 14.2   | 11.1   | 9.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 65°   | 17.2   | 11.1   | 9.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 67.5° | 15.2   | 9.1    | 6.1    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 70°   | 12.2   | 3.0    | 3.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 72.5° | 10.1   | 3.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 75°   | 10.1   | 5.1    | 2.0    | 2.0    | 3.0    | 3.0    | 4.1    | 4.1    | 3.0    | 3.0    | 3.0    |
| 77.5° | 7.1    | 5.1    | 2.0    | 2.0    | 3.0    | 3.0    | 4.1    | 4.1    | 3.0    | 3.0    | 3.0    |
| 80°   | 4.1    | 5.1    | 2.0    | 3.0    | 3.0    | 6.1    | 7.1    | 4.1    | 3.0    | 3.0    | 3.0    |
| 82.5° | 4.1    | 5.1    | 6.1    | 6.1    | 3.0    | 5.1    | 6.1    | 5.1    | 4.1    | 3.0    | 3.0    |
| 85°   | 4.1    | 3.0    | 4.1    | 5.1    | 3.0    | 5.1    | 5.1    | 4.1    | 4.1    | 3.0    | 3.0    |
| 87.5° | 2.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    | 5.1    | 4.1    | 4.1    | 4.1    | 3.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 85°    | 90°    | 95°    | 100°   | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3707.5 | 3711.5 | 3647.7 | 3625.5 | 3644.7 | 3640.7 | 3623.4 | 3559.6 | 3552.5 | 3510.0 | 3448.2 |
| 5°    | 3543.4 | 3570.8 | 3537.4 | 3595.1 | 3567.7 | 3595.1 | 3678.1 | 3716.6 | 3779.4 | 3817.9 | 3832.1 |
| 7.5°  | 3429.0 | 3435.1 | 3435.1 | 3440.1 | 3445.2 | 3446.2 | 3440.1 | 3436.1 | 3418.9 | 3397.6 | 3436.1 |
| 10°   | 3290.3 | 3297.3 | 3309.5 | 3307.5 | 3306.5 | 3327.7 | 3332.8 | 3376.3 | 3374.3 | 3382.4 | 3411.8 |
| 12.5° | 3218.4 | 3163.7 | 3213.3 | 3200.1 | 3218.4 | 3190.0 | 3242.7 | 3233.5 | 3236.6 | 3260.9 | 3323.7 |
| 15°   | 3098.9 | 3116.1 | 3128.2 | 3128.2 | 3135.3 | 3129.2 | 3123.2 | 3164.7 | 3190.0 | 3191.0 | 3187.0 |
| 17.5° | 2869.0 | 2738.3 | 2872.0 | 2837.6 | 3112.0 | 3119.1 | 3095.8 | 3076.6 | 3076.6 | 3091.8 | 3124.2 |
| 20°   | 2462.9 | 2465.9 | 2466.9 | 2480.1 | 2496.3 | 2495.3 | 2496.3 | 2895.3 | 3084.7 | 3041.1 | 3011.8 |
| 22.5° | 2159.1 | 2121.6 | 2191.5 | 2186.4 | 2273.5 | 2369.7 | 2461.9 | 2452.8 | 2458.8 | 2740.4 | 2993.5 |
| 25°   | 1730.7 | 1779.3 | 1739.8 | 1757.0 | 1855.3 | 1969.7 | 2040.6 | 2225.9 | 2427.4 | 2413.3 | 2479.1 |
| 27.5° | 1629.4 | 1616.3 | 1634.5 | 1634.5 | 1647.7 | 1662.9 | 1702.3 | 1806.7 | 1985.9 | 2174.3 | 2352.5 |
| 30°   | 1533.2 | 1544.4 | 1546.4 | 1564.6 | 1574.7 | 1584.9 | 1590.9 | 1630.4 | 1671.0 | 1801.6 | 2021.3 |
| 32.5° | 1151.4 | 1009.7 | 1328.7 | 1414.7 | 1487.7 | 1504.9 | 1517.0 | 1533.2 | 1562.6 | 1581.8 | 1692.2 |
| 35°   | 33.4   | 33.4   | 35.4   | 40.5   | 51.6   | 348.4  | 1326.6 | 1462.3 | 1481.6 | 1505.9 | 1526.1 |
| 37.5° | 16.2   | 12.2   | 14.2   | 15.2   | 18.2   | 25.3   | 36.5   | 113.4  | 1262.8 | 1427.9 | 1450.2 |
| 40°   | 7.1    | 7.1    | 7.1    | 7.1    | 8.1    | 10.1   | 15.2   | 25.3   | 38.5   | 1015.7 | 1370.2 |
| 42.5° | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 7.1    | 9.1    | 18.2   | 43.5   | 719.0  |
| 45°   | 4.1    | 4.1    | 3.0    | 4.1    | 4.1    | 5.1    | 6.1    | 6.1    | 8.1    | 27.3   | 49.6   |
| 47.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 5.1    | 6.1    | 18.2   | 26.3   |
| 50°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 14.2   | 18.2   |
| 52.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 6.1    | 16.2   |
| 55°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    | 4.1    | 14.2   |
| 57.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 2.0    | 2.0    | 3.0    | 3.0    | 13.2   |
| 60°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 12.2   |
| 62.5° | 3.0    | 3.0    | 2.0    | 3.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 8.1    |
| 65°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 3.0    |
| 67.5° | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 3.0    | 2.0    | 3.0    | 3.0    | 2.0    | 2.0    |
| 70°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 2.0    | 2.0    | 2.0    |
| 77.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 5.1    | 6.1    | 5.1    | 5.1    | 2.0    |
| 80°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 5.1    | 5.1    | 5.1    | 5.1    | 7.1    |
| 82.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    | 4.1    | 5.1    |
| 85°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    | 3.0    | 4.1    |
| 87.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 3.0    | 3.0    | 3.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 140°   | 145°   | 150°   | 155°   | 160°   | 161°   | 162°   | 163°   | 164°   | 165°   | 166°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3453.3 | 3418.9 | 3407.7 | 3384.4 | 3382.4 | 3384.4 | 3379.4 | 3372.3 | 3376.3 | 3369.2 | 3363.2 |
| 5°    | 3840.2 | 3748.0 | 3688.2 | 3608.2 | 3497.9 | 3473.6 | 3467.5 | 3433.0 | 3420.9 | 3416.8 | 3400.6 |
| 7.5°  | 3527.2 | 3695.3 | 3796.6 | 3831.0 | 3701.4 | 3671.0 | 3635.6 | 3607.2 | 3579.9 | 3528.2 | 3496.8 |
| 10°   | 3388.5 | 3396.6 | 3493.8 | 3607.2 | 3791.5 | 3816.9 | 3836.1 | 3774.3 | 3757.1 | 3625.5 | 3597.1 |
| 12.5° | 3356.1 | 3357.1 | 3368.2 | 3437.1 | 3581.9 | 3598.1 | 3666.0 | 3702.4 | 3747.0 | 3772.3 | 3752.0 |
| 15°   | 3208.2 | 3290.3 | 3351.0 | 3357.1 | 3370.3 | 3398.6 | 3418.9 | 3545.5 | 3599.1 | 3742.9 | 3734.8 |
| 17.5° | 3139.4 | 3165.7 | 3253.8 | 3325.7 | 3313.6 | 3303.4 | 3319.6 | 3336.8 | 3388.5 | 3532.3 | 3530.3 |
| 20°   | 3024.9 | 3109.0 | 3156.6 | 3231.5 | 3299.4 | 3302.4 | 3284.2 | 3274.1 | 3253.8 | 3277.1 | 3298.4 |
| 22.5° | 2976.3 | 2989.5 | 3078.6 | 3131.3 | 3208.2 | 3235.6 | 3239.6 | 3240.6 | 3229.5 | 3217.3 | 3211.3 |
| 25°   | 2971.3 | 2929.7 | 2975.3 | 3041.1 | 3097.8 | 3127.2 | 3160.6 | 3171.8 | 3167.7 | 3167.7 | 3161.6 |
| 27.5° | 2431.5 | 2916.6 | 2892.3 | 2935.8 | 3004.7 | 3024.9 | 3042.1 | 3076.6 | 3097.8 | 3113.0 | 3120.1 |
| 30°   | 2316.0 | 2403.1 | 2827.5 | 2833.5 | 2903.4 | 2901.4 | 2920.6 | 2949.0 | 2976.3 | 3011.8 | 3020.9 |
| 32.5° | 2048.7 | 2262.4 | 2588.5 | 2731.2 | 2804.2 | 2811.3 | 2821.4 | 2829.5 | 2854.8 | 2894.3 | 2928.7 |
| 35°   | 1641.6 | 2060.8 | 2217.8 | 2682.6 | 2695.8 | 2710.0 | 2716.1 | 2735.3 | 2743.4 | 2759.6 | 2790.0 |
| 37.5° | 1485.6 | 1703.4 | 2127.7 | 2320.1 | 2571.2 | 2583.4 | 2615.8 | 2623.9 | 2637.1 | 2650.2 | 2673.5 |
| 40°   | 1395.5 | 1455.2 | 1771.2 | 2072.0 | 2471.0 | 2479.1 | 2490.2 | 2510.5 | 2511.5 | 2526.7 | 2548.0 |
| 42.5° | 1323.6 | 1362.1 | 1454.2 | 1978.8 | 2400.1 | 2399.1 | 2372.8 | 2385.9 | 2392.0 | 2408.2 | 2437.6 |
| 45°   | 1057.3 | 1278.0 | 1336.8 | 1616.3 | 1911.0 | 2048.7 | 2313.0 | 2269.5 | 2268.4 | 2274.5 | 2305.9 |
| 47.5° | 53.7   | 1202.1 | 1243.6 | 1333.7 | 1804.6 | 1809.7 | 1844.1 | 2133.8 | 2178.3 | 2164.1 | 2167.2 |
| 50°   | 36.5   | 83.0   | 1158.5 | 1200.0 | 1555.5 | 1681.1 | 1706.4 | 1719.6 | 1886.7 | 2073.0 | 2042.6 |
| 52.5° | 28.4   | 47.6   | 709.9  | 1114.0 | 1263.8 | 1356.0 | 1519.0 | 1612.2 | 1622.3 | 1697.3 | 1951.5 |
| 55°   | 25.3   | 36.5   | 77.0   | 1027.9 | 1074.5 | 1094.7 | 1189.9 | 1353.0 | 1484.6 | 1524.1 | 1527.1 |
| 57.5° | 22.3   | 33.4   | 52.7   | 464.8  | 977.3  | 981.3  | 997.5  | 1054.2 | 1172.7 | 1281.1 | 1403.6 |
| 60°   | 20.3   | 29.4   | 41.5   | 80.0   | 888.1  | 898.3  | 901.3  | 916.5  | 930.7  | 1004.6 | 1145.4 |
| 62.5° | 12.2   | 23.3   | 36.5   | 57.7   | 702.8  | 807.1  | 806.1  | 816.2  | 829.4  | 837.5  | 865.9  |
| 65°   | 10.1   | 18.2   | 31.4   | 48.6   | 86.1   | 107.3  | 652.2  | 725.1  | 733.2  | 744.3  | 749.4  |
| 67.5° | 9.1    | 16.2   | 23.3   | 38.5   | 64.8   | 73.9   | 85.1   | 105.3  | 575.2  | 648.1  | 658.3  |
| 70°   | 8.1    | 11.1   | 19.2   | 32.4   | 52.7   | 56.7   | 63.8   | 72.9   | 86.1   | 106.3  | 520.5  |
| 72.5° | 5.1    | 8.1    | 13.2   | 23.3   | 40.5   | 45.6   | 49.6   | 55.7   | 61.8   | 73.9   | 85.1   |
| 75°   | 2.0    | 6.1    | 11.1   | 17.2   | 31.4   | 34.4   | 37.5   | 41.5   | 46.6   | 54.7   | 60.8   |
| 77.5° | 2.0    | 5.1    | 9.1    | 12.2   | 20.3   | 23.3   | 27.3   | 30.4   | 34.4   | 38.5   | 44.6   |
| 80°   | 7.1    | 4.1    | 6.1    | 9.1    | 14.2   | 15.2   | 17.2   | 19.2   | 22.3   | 25.3   | 29.4   |
| 82.5° | 5.1    | 6.1    | 7.1    | 6.1    | 7.1    | 9.1    | 10.1   | 12.2   | 13.2   | 15.2   | 16.2   |
| 85°   | 4.1    | 4.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 6.1    | 7.1    | 9.1    |
| 87.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 167°   | 168°   | 169°   | 170°   | 171°   | 172°   | 173°   | 174°   | 175°   | 176°   | 177°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3363.2 | 3361.1 | 3355.1 | 3355.1 | 3354.1 | 3358.1 | 3361.1 | 3364.2 | 3363.2 | 3369.2 | 3363.2 |
| 5°    | 3388.5 | 3383.4 | 3374.3 | 3366.2 | 3363.2 | 3365.2 | 3362.2 | 3365.2 | 3361.1 | 3366.2 | 3357.1 |
| 7.5°  | 3458.4 | 3441.2 | 3405.7 | 3391.5 | 3373.3 | 3372.3 | 3363.2 | 3361.1 | 3355.1 | 3355.1 | 3343.9 |
| 10°   | 3581.9 | 3498.9 | 3488.7 | 3446.2 | 3431.0 | 3357.1 | 3373.3 | 3346.0 | 3342.9 | 3329.8 | 3324.7 |
| 12.5° | 3683.2 | 3618.4 | 3599.1 | 3561.7 | 3519.1 | 3369.2 | 3402.7 | 3343.9 | 3340.9 | 3314.6 | 3287.2 |
| 15°   | 3685.2 | 3722.7 | 3670.0 | 3566.7 | 3557.6 | 3454.3 | 3386.5 | 3366.2 | 3339.9 | 3260.9 | 3274.1 |
| 17.5° | 3566.7 | 3652.8 | 3678.1 | 3655.8 | 3591.0 | 3521.2 | 3426.0 | 3385.5 | 3306.5 | 3271.0 | 3246.7 |
| 20°   | 3374.3 | 3461.4 | 3569.8 | 3576.9 | 3617.4 | 3567.7 | 3443.2 | 3377.4 | 3282.2 | 3220.4 | 3200.1 |
| 22.5° | 3221.4 | 3285.2 | 3409.8 | 3467.5 | 3517.1 | 3534.3 | 3455.3 | 3358.1 | 3239.6 | 3179.9 | 3167.7 |
| 25°   | 3140.4 | 3154.6 | 3192.0 | 3259.9 | 3369.2 | 3448.2 | 3459.4 | 3356.1 | 3294.3 | 3163.7 | 3094.8 |
| 27.5° | 3111.0 | 3098.9 | 3083.7 | 3118.1 | 3200.1 | 3296.3 | 3360.1 | 3377.4 | 3223.4 | 3098.9 | 3030.0 |
| 30°   | 3036.1 | 3043.2 | 3019.9 | 3007.7 | 3061.4 | 3160.6 | 3274.1 | 3302.4 | 3183.9 | 3055.3 | 2976.3 |
| 32.5° | 2943.9 | 2956.1 | 2960.1 | 2938.9 | 2927.7 | 2996.6 | 3119.1 | 3187.0 | 3180.9 | 2993.5 | 2905.4 |
| 35°   | 2828.5 | 2862.9 | 2872.0 | 2873.0 | 2854.8 | 2843.7 | 2914.5 | 3055.3 | 3109.0 | 2965.2 | 2837.6 |
| 37.5° | 2706.9 | 2717.1 | 2766.7 | 2779.9 | 2779.9 | 2746.4 | 2799.1 | 2911.5 | 2986.4 | 2901.4 | 2754.5 |
| 40°   | 2555.0 | 2587.4 | 2634.0 | 2657.3 | 2680.6 | 2683.7 | 2654.3 | 2733.3 | 2856.8 | 2835.6 | 2676.6 |
| 42.5° | 2444.7 | 2465.9 | 2494.3 | 2525.7 | 2573.3 | 2585.4 | 2555.0 | 2569.2 | 2697.8 | 2753.5 | 2575.3 |
| 45°   | 2316.0 | 2344.4 | 2352.5 | 2386.9 | 2436.6 | 2472.0 | 2471.0 | 2441.6 | 2544.9 | 2613.8 | 2501.4 |
| 47.5° | 2184.4 | 2211.7 | 2225.9 | 2243.1 | 2279.6 | 2325.2 | 2350.5 | 2337.3 | 2357.6 | 2492.3 | 2403.1 |
| 50°   | 2048.7 | 2063.9 | 2092.2 | 2111.5 | 2135.8 | 2162.1 | 2222.9 | 2235.0 | 2206.7 | 2314.0 | 2294.8 |
| 52.5° | 1920.1 | 1925.1 | 1944.4 | 1963.6 | 1996.0 | 2015.3 | 2063.9 | 2100.3 | 2098.3 | 2129.7 | 2174.3 |
| 55°   | 1819.8 | 1797.5 | 1801.6 | 1816.8 | 1838.0 | 1867.4 | 1894.8 | 1951.5 | 1970.7 | 1976.8 | 2047.7 |
| 57.5° | 1421.8 | 1650.7 | 1671.0 | 1669.9 | 1695.3 | 1708.4 | 1733.7 | 1771.2 | 1840.1 | 1824.9 | 1903.9 |
| 60°   | 1292.2 | 1317.5 | 1508.9 | 1531.2 | 1540.3 | 1552.5 | 1582.8 | 1617.3 | 1667.9 | 1700.3 | 1734.8 |
| 62.5° | 985.4  | 1139.3 | 1197.0 | 1366.1 | 1392.5 | 1399.5 | 1419.8 | 1436.0 | 1488.7 | 1562.6 | 1548.4 |
| 65°   | 762.6  | 828.4  | 1004.6 | 1073.5 | 1217.3 | 1235.5 | 1263.8 | 1281.1 | 1296.3 | 1381.3 | 1385.4 |
| 67.5° | 659.3  | 669.4  | 717.0  | 849.7  | 940.8  | 1081.6 | 1098.8 | 1114.0 | 1137.3 | 1198.0 | 1235.5 |
| 70°   | 563.1  | 575.2  | 588.4  | 599.5  | 718.0  | 811.2  | 941.8  | 946.9  | 962.1  | 1002.6 | 1087.6 |
| 72.5° | 106.3  | 481.0  | 489.1  | 496.2  | 509.4  | 571.2  | 695.7  | 797.0  | 803.1  | 822.3  | 900.3  |
| 75°   | 71.9   | 84.1   | 115.4  | 397.0  | 410.1  | 414.2  | 435.5  | 562.0  | 655.2  | 659.3  | 693.7  |
| 77.5° | 51.6   | 57.7   | 69.9   | 83.0   | 211.7  | 318.0  | 323.1  | 346.3  | 442.5  | 512.4  | 518.5  |
| 80°   | 35.4   | 39.5   | 46.6   | 52.7   | 64.8   | 85.1   | 234.9  | 242.0  | 254.2  | 350.4  | 368.6  |
| 82.5° | 20.3   | 23.3   | 27.3   | 33.4   | 38.5   | 48.6   | 62.8   | 81.0   | 165.1  | 176.2  | 233.9  |
| 85°   | 10.1   | 11.1   | 13.2   | 16.2   | 19.2   | 23.3   | 31.4   | 38.5   | 52.7   | 95.2   | 98.2   |
| 87.5° | 5.1    | 5.1    | 5.1    | 5.1    | 8.1    | 9.1    | 11.1   | 14.2   | 18.2   | 27.3   | 35.4   |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 178°   | 179°   | 180°   | 181°   | 182°   | 183°   | 184°   | 185°   | 186°   | 187°   | 188°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3364.2 | 3378.4 | 3390.5 | 3393.6 | 3393.6 | 3395.6 | 3398.6 | 3400.6 | 3402.7 | 3404.7 | 3402.7 |
| 5°    | 3358.1 | 3373.3 | 3383.4 | 3386.5 | 3386.5 | 3392.5 | 3397.6 | 3403.7 | 3406.7 | 3406.7 | 3404.7 |
| 7.5°  | 3342.9 | 3354.1 | 3367.2 | 3375.3 | 3376.3 | 3386.5 | 3395.6 | 3394.6 | 3398.6 | 3400.6 | 3405.7 |
| 10°   | 3322.7 | 3322.7 | 3344.9 | 3351.0 | 3356.1 | 3367.2 | 3370.3 | 3376.3 | 3390.5 | 3392.5 | 3405.7 |
| 12.5° | 3312.5 | 3302.4 | 3328.7 | 3331.8 | 3349.0 | 3334.8 | 3353.0 | 3359.1 | 3344.9 | 3364.2 | 3338.9 |
| 15°   | 3267.0 | 3279.1 | 3275.1 | 3284.2 | 3314.6 | 3298.4 | 3348.0 | 3331.8 | 3368.2 | 3324.7 | 3401.7 |
| 17.5° | 3229.5 | 3227.5 | 3243.7 | 3251.8 | 3257.9 | 3292.3 | 3305.4 | 3323.7 | 3337.9 | 3325.7 | 3356.1 |
| 20°   | 3202.2 | 3186.0 | 3198.1 | 3207.2 | 3228.5 | 3254.8 | 3262.9 | 3235.6 | 3283.2 | 3364.2 | 3383.4 |
| 22.5° | 3150.5 | 3139.4 | 3153.5 | 3153.5 | 3186.0 | 3181.9 | 3212.3 | 3195.1 | 3239.6 | 3333.8 | 3432.0 |
| 25°   | 3080.6 | 3081.6 | 3096.8 | 3115.1 | 3121.1 | 3166.7 | 3182.9 | 3205.2 | 3260.9 | 3373.3 | 3433.0 |
| 27.5° | 3009.7 | 3003.7 | 3012.8 | 3050.2 | 3081.6 | 3115.1 | 3120.1 | 3196.1 | 3272.0 | 3349.0 | 3401.7 |
| 30°   | 2938.9 | 2932.8 | 2938.9 | 2966.2 | 3003.7 | 3025.9 | 3081.6 | 3182.9 | 3253.8 | 3306.5 | 3356.1 |
| 32.5° | 2862.9 | 2856.8 | 2871.0 | 2891.3 | 2957.1 | 2960.1 | 3070.5 | 3165.7 | 3221.4 | 3259.9 | 3250.8 |
| 35°   | 2781.9 | 2773.8 | 2786.9 | 2818.3 | 2879.1 | 2901.4 | 3016.8 | 3087.7 | 3150.5 | 3168.7 | 3126.2 |
| 37.5° | 2684.7 | 2670.5 | 2686.7 | 2730.2 | 2794.0 | 2858.8 | 2955.1 | 3037.1 | 3070.5 | 3021.9 | 2971.3 |
| 40°   | 2583.4 | 2573.3 | 2601.6 | 2623.9 | 2698.8 | 2789.0 | 2899.4 | 2957.1 | 2935.8 | 2880.1 | 2824.4 |
| 42.5° | 2493.3 | 2472.0 | 2497.3 | 2539.8 | 2624.9 | 2727.2 | 2816.3 | 2848.7 | 2798.1 | 2716.1 | 2651.2 |
| 45°   | 2382.9 | 2357.6 | 2387.9 | 2444.7 | 2535.8 | 2652.3 | 2722.1 | 2711.0 | 2624.9 | 2554.0 | 2464.9 |
| 47.5° | 2267.4 | 2237.1 | 2267.4 | 2335.3 | 2437.6 | 2561.1 | 2611.8 | 2561.1 | 2452.8 | 2363.6 | 2291.7 |
| 50°   | 2154.0 | 2118.6 | 2147.9 | 2250.2 | 2350.5 | 2445.7 | 2444.7 | 2346.4 | 2281.6 | 2184.4 | 2121.6 |
| 52.5° | 2041.6 | 1991.0 | 2020.3 | 2131.7 | 2232.0 | 2340.3 | 2260.3 | 2169.2 | 2091.2 | 2006.2 | 1985.9 |
| 55°   | 1902.9 | 1848.2 | 1887.7 | 2049.7 | 2126.7 | 2190.5 | 2062.9 | 1982.9 | 1905.9 | 1863.4 | 1838.0 |
| 57.5° | 1771.2 | 1711.5 | 1745.9 | 1937.3 | 1994.0 | 2010.2 | 1892.7 | 1779.3 | 1733.7 | 1719.6 | 1683.1 |
| 60°   | 1635.5 | 1567.7 | 1600.1 | 1820.8 | 1860.3 | 1794.5 | 1679.1 | 1590.9 | 1581.8 | 1553.5 | 1525.1 |
| 62.5° | 1505.9 | 1430.9 | 1451.2 | 1676.0 | 1694.2 | 1574.7 | 1468.4 | 1445.1 | 1422.8 | 1394.5 | 1379.3 |
| 65°   | 1357.0 | 1279.0 | 1307.4 | 1522.1 | 1504.9 | 1350.9 | 1291.2 | 1286.1 | 1256.8 | 1233.5 | 1255.7 |
| 67.5° | 1220.3 | 1128.1 | 1167.6 | 1354.0 | 1276.0 | 1150.4 | 1126.1 | 1114.0 | 1090.7 | 1103.8 | 869.9  |
| 70°   | 1070.4 | 970.2  | 1023.8 | 1172.7 | 1057.3 | 974.2  | 965.1  | 946.9  | 947.9  | 753.4  | 635.0  |
| 72.5° | 903.3  | 816.2  | 894.2  | 974.2  | 836.5  | 812.2  | 799.0  | 797.0  | 643.1  | 522.6  | 493.2  |
| 75°   | 756.5  | 668.4  | 752.4  | 782.8  | 666.4  | 650.2  | 649.1  | 536.7  | 422.3  | 403.1  | 393.9  |
| 77.5° | 590.4  | 522.6  | 602.6  | 557.0  | 511.4  | 493.2  | 442.5  | 332.2  | 318.0  | 304.8  | 114.4  |
| 80°   | 398.0  | 403.1  | 449.6  | 383.8  | 364.6  | 310.9  | 245.1  | 234.9  | 202.5  | 81.0   | 63.8   |
| 82.5° | 242.0  | 303.8  | 286.6  | 240.0  | 234.9  | 169.1  | 154.9  | 79.0   | 58.7   | 46.6   | 40.5   |
| 85°   | 125.6  | 153.9  | 147.9  | 130.6  | 97.2   | 87.1   | 48.6   | 37.5   | 30.4   | 23.3   | 19.2   |
| 87.5° | 42.5   | 56.7   | 54.7   | 43.5   | 33.4   | 26.3   | 17.2   | 14.2   | 10.1   | 8.1    | 7.1    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 189°   | 190°   | 191°   | 192°   | 193°   | 194°   | 195°   | 196°   | 197°   | 198°   | 199°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3400.6 | 3400.6 | 3398.6 | 3400.6 | 3401.7 | 3399.6 | 3399.6 | 3401.7 | 3402.7 | 3403.7 | 3408.7 |
| 5°    | 3405.7 | 3407.7 | 3410.8 | 3416.8 | 3417.9 | 3430.0 | 3435.1 | 3438.1 | 3441.2 | 3442.2 | 3435.1 |
| 7.5°  | 3416.8 | 3423.9 | 3430.0 | 3429.0 | 3421.9 | 3402.7 | 3396.6 | 3391.5 | 3400.6 | 3423.9 | 3451.3 |
| 10°   | 3427.0 | 3394.6 | 3333.8 | 3416.8 | 3391.5 | 3414.8 | 3483.7 | 3498.9 | 3545.5 | 3611.3 | 3630.5 |
| 12.5° | 3357.1 | 3446.2 | 3465.5 | 3372.3 | 3544.4 | 3480.6 | 3556.6 | 3623.4 | 3642.7 | 3709.5 | 3669.0 |
| 15°   | 3432.0 | 3475.6 | 3505.0 | 3598.1 | 3588.0 | 3642.7 | 3663.9 | 3650.8 | 3653.8 | 3671.0 | 3716.6 |
| 17.5° | 3431.0 | 3518.1 | 3537.4 | 3600.1 | 3642.7 | 3643.7 | 3637.6 | 3631.5 | 3647.7 | 3660.9 | 3633.6 |
| 20°   | 3489.8 | 3518.1 | 3555.6 | 3580.9 | 3589.0 | 3599.1 | 3618.4 | 3603.2 | 3572.8 | 3543.4 | 3531.3 |
| 22.5° | 3460.4 | 3524.2 | 3556.6 | 3560.6 | 3555.6 | 3524.2 | 3495.8 | 3453.3 | 3439.1 | 3423.9 | 3429.0 |
| 25°   | 3466.5 | 3495.8 | 3491.8 | 3475.6 | 3454.3 | 3395.6 | 3381.4 | 3363.2 | 3335.8 | 3270.0 | 3210.3 |
| 27.5° | 3422.9 | 3407.7 | 3389.5 | 3350.0 | 3311.5 | 3280.1 | 3244.7 | 3186.0 | 3137.3 | 3066.5 | 3040.1 |
| 30°   | 3350.0 | 3289.2 | 3244.7 | 3221.4 | 3183.9 | 3131.3 | 3077.6 | 3005.7 | 2943.9 | 2929.7 | 2916.6 |
| 32.5° | 3210.3 | 3150.5 | 3114.0 | 3057.3 | 2993.5 | 2930.8 | 2869.0 | 2840.6 | 2827.5 | 2829.5 | 2817.3 |
| 35°   | 3067.5 | 3014.8 | 2960.1 | 2875.1 | 2827.5 | 2764.7 | 2742.4 | 2736.3 | 2724.2 | 2711.0 | 2696.8 |
| 37.5° | 2915.6 | 2853.8 | 2771.8 | 2721.1 | 2673.5 | 2648.2 | 2637.1 | 2628.0 | 2606.7 | 2583.4 | 2567.2 |
| 40°   | 2768.7 | 2657.3 | 2611.8 | 2562.1 | 2548.0 | 2536.8 | 2520.6 | 2498.3 | 2469.0 | 2464.9 | 2457.8 |
| 42.5° | 2572.3 | 2492.3 | 2452.8 | 2442.6 | 2425.4 | 2406.2 | 2392.0 | 2367.7 | 2355.5 | 2363.6 | 2369.7 |
| 45°   | 2385.9 | 2345.4 | 2332.2 | 2320.1 | 2287.7 | 2260.3 | 2251.2 | 2243.1 | 2253.3 | 2297.8 | 2191.5 |
| 47.5° | 2235.0 | 2218.8 | 2202.6 | 2182.4 | 2152.0 | 2131.7 | 2140.8 | 2148.9 | 2158.1 | 1831.0 | 1671.0 |
| 50°   | 2104.4 | 2082.1 | 2056.8 | 2034.5 | 2016.3 | 2014.3 | 2061.9 | 1919.1 | 1607.2 | 1599.1 | 1437.0 |
| 52.5° | 1961.6 | 1928.2 | 1913.0 | 1899.8 | 1907.9 | 1938.3 | 1604.1 | 1488.7 | 1427.9 | 1240.6 | 1157.5 |
| 55°   | 1807.7 | 1778.3 | 1778.3 | 1790.5 | 1746.9 | 1415.8 | 1398.5 | 1209.2 | 1094.7 | 1062.3 | 1049.2 |
| 57.5° | 1653.7 | 1650.7 | 1667.9 | 1525.1 | 1285.1 | 1232.5 | 1036.0 | 994.5  | 976.2  | 972.2  | 950.9  |
| 60°   | 1513.0 | 1541.3 | 1290.2 | 1186.9 | 1031.9 | 930.7  | 902.3  | 897.3  | 878.0  | 870.9  | 851.7  |
| 62.5° | 1400.6 | 1161.6 | 1081.6 | 883.1  | 831.4  | 818.3  | 803.1  | 796.0  | 778.8  | 687.6  | 201.5  |
| 65°   | 1011.7 | 956.0  | 775.7  | 742.3  | 738.3  | 719.0  | 712.9  | 641.0  | 150.9  | 101.3  | 86.1   |
| 67.5° | 763.6  | 677.5  | 654.2  | 648.1  | 628.9  | 590.4  | 175.2  | 100.3  | 86.1   | 74.9   | 65.8   |
| 70°   | 586.4  | 571.2  | 553.9  | 539.8  | 159.0  | 99.2   | 86.1   | 72.9   | 62.8   | 55.7   | 50.6   |
| 72.5° | 480.0  | 469.9  | 273.4  | 104.3  | 85.1   | 71.9   | 63.8   | 55.7   | 48.6   | 44.6   | 40.5   |
| 75°   | 375.7  | 104.3  | 86.1   | 71.9   | 61.8   | 52.7   | 46.6   | 41.5   | 37.5   | 34.4   | 31.4   |
| 77.5° | 85.1   | 68.9   | 58.7   | 49.6   | 44.6   | 39.5   | 35.4   | 30.4   | 27.3   | 24.3   | 20.3   |
| 80°   | 52.7   | 45.6   | 38.5   | 35.4   | 30.4   | 25.3   | 22.3   | 20.3   | 16.2   | 15.2   | 13.2   |
| 82.5° | 34.4   | 27.3   | 24.3   | 20.3   | 16.2   | 15.2   | 13.2   | 10.1   | 9.1    | 8.1    | 7.1    |
| 85°   | 15.2   | 13.2   | 11.1   | 9.1    | 7.1    | 6.1    | 5.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 87.5° | 5.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 2.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3410.8 | 3429.0 | 3446.2 | 3441.2 | 3422.9 | 3394.6 | 3386.5 | 3375.3 | 3383.4 | 3400.6 | 3407.7 |
| 5°    | 3435.1 | 3424.9 | 3461.4 | 3515.1 | 3602.2 | 3610.3 | 3671.0 | 3685.2 | 3733.8 | 3764.2 | 3763.2 |
| 7.5°  | 3469.5 | 3613.3 | 3673.1 | 3737.9 | 3767.2 | 3760.2 | 3769.3 | 3762.2 | 3751.0 | 3746.0 | 3739.9 |
| 10°   | 3644.7 | 3754.1 | 3776.4 | 3776.4 | 3730.8 | 3669.0 | 3642.7 | 3597.1 | 3506.0 | 3508.0 | 3492.8 |
| 12.5° | 3747.0 | 3785.5 | 3732.8 | 3688.2 | 3505.0 | 3434.1 | 3357.1 | 3320.6 | 3299.4 | 3267.0 | 3279.1 |
| 15°   | 3693.3 | 3638.6 | 3607.2 | 3463.4 | 3351.0 | 3223.4 | 3225.4 | 3203.2 | 3179.9 | 3181.9 | 3166.7 |
| 17.5° | 3614.3 | 3570.8 | 3348.0 | 3248.7 | 3194.1 | 3144.4 | 3135.3 | 3105.9 | 3090.8 | 3085.7 | 3084.7 |
| 20°   | 3506.0 | 3349.0 | 3182.9 | 3158.6 | 3092.8 | 3036.1 | 3027.0 | 3036.1 | 3082.7 | 2999.6 | 2718.1 |
| 22.5° | 3379.4 | 3153.5 | 3104.9 | 3036.1 | 2991.5 | 2969.2 | 3024.9 | 2771.8 | 2389.0 | 2435.5 | 2385.9 |
| 25°   | 3164.7 | 3066.5 | 2983.4 | 2930.8 | 2925.7 | 2789.0 | 2324.1 | 2275.5 | 2029.4 | 1897.8 | 1749.9 |
| 27.5° | 3007.7 | 2965.2 | 2878.1 | 2869.0 | 2803.2 | 2280.6 | 2038.6 | 1771.2 | 1673.0 | 1657.8 | 1625.4 |
| 30°   | 2912.5 | 2851.8 | 2799.1 | 2569.2 | 2237.1 | 1836.0 | 1635.5 | 1598.0 | 1580.8 | 1562.6 | 1534.2 |
| 32.5° | 2798.1 | 2740.4 | 2765.7 | 2160.1 | 1783.4 | 1580.8 | 1540.3 | 1513.0 | 1481.6 | 1469.4 | 1367.1 |
| 35°   | 2681.6 | 2655.3 | 2161.1 | 1815.8 | 1533.2 | 1484.6 | 1454.2 | 1425.9 | 1134.2 | 274.4  | 93.2   |
| 37.5° | 2557.1 | 2551.0 | 1942.4 | 1506.9 | 1436.0 | 1390.4 | 1304.4 | 269.4  | 63.8   | 43.5   | 32.4   |
| 40°   | 2459.8 | 1943.4 | 1535.3 | 1412.7 | 1355.0 | 1283.1 | 180.3  | 44.6   | 28.4   | 17.2   | 11.1   |
| 42.5° | 2395.0 | 1747.9 | 1374.2 | 1325.6 | 1200.0 | 132.7  | 45.6   | 19.2   | 11.1   | 9.1    | 7.1    |
| 45°   | 1846.1 | 1380.3 | 1284.1 | 1233.5 | 151.9  | 45.6   | 26.3   | 9.1    | 7.1    | 6.1    | 4.1    |
| 47.5° | 1703.4 | 1253.7 | 1197.0 | 269.4  | 50.6   | 24.3   | 18.2   | 6.1    | 4.1    | 4.1    | 4.1    |
| 50°   | 1290.2 | 1158.5 | 952.9  | 65.8   | 32.4   | 17.2   | 13.2   | 4.1    | 4.1    | 4.1    | 3.0    |
| 52.5° | 1131.2 | 1069.4 | 102.3  | 43.5   | 25.3   | 13.2   | 8.1    | 3.0    | 3.0    | 3.0    | 3.0    |
| 55°   | 1034.0 | 678.5  | 60.8   | 33.4   | 21.3   | 12.2   | 5.1    | 3.0    | 3.0    | 3.0    | 2.0    |
| 57.5° | 945.9  | 91.1   | 44.6   | 28.4   | 19.2   | 11.1   | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    |
| 60°   | 802.1  | 65.8   | 36.5   | 25.3   | 18.2   | 10.1   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 62.5° | 104.3  | 51.6   | 31.4   | 22.3   | 13.2   | 8.1    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 65°   | 76.0   | 40.5   | 28.4   | 15.2   | 8.1    | 3.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 67.5° | 58.7   | 33.4   | 21.3   | 13.2   | 7.1    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 70°   | 46.6   | 28.4   | 17.2   | 11.1   | 6.1    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 72.5° | 36.5   | 20.3   | 12.2   | 6.1    | 4.1    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 75°   | 27.3   | 16.2   | 9.1    | 5.1    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 77.5° | 18.2   | 10.1   | 7.1    | 4.1    | 4.1    | 4.1    | 5.1    | 5.1    | 3.0    | 3.0    | 3.0    |
| 80°   | 12.2   | 7.1    | 5.1    | 5.1    | 5.1    | 4.1    | 5.1    | 5.1    | 3.0    | 5.1    | 3.0    |
| 82.5° | 6.1    | 5.1    | 5.1    | 4.1    | 4.1    | 3.0    | 4.1    | 4.1    | 4.1    | 4.1    | 3.0    |
| 85°   | 4.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 3.0    |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 3.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3398.6 | 3401.7 | 3393.6 | 3437.1 | 3414.8 | 3416.8 | 3426.0 | 3402.7 | 3407.7 | 3391.5 | 3380.4 |
| 5°    | 3767.2 | 3773.3 | 3779.4 | 3781.4 | 3785.5 | 3790.5 | 3784.5 | 3781.4 | 3775.3 | 3755.1 | 3733.8 |
| 7.5°  | 3709.5 | 3702.4 | 3699.4 | 3703.4 | 3710.5 | 3713.6 | 3708.5 | 3715.6 | 3741.9 | 3753.1 | 3760.2 |
| 10°   | 3405.7 | 3373.3 | 3395.6 | 3392.5 | 3367.2 | 3452.3 | 3429.0 | 3442.2 | 3451.3 | 3544.4 | 3601.2 |
| 12.5° | 3260.9 | 3281.1 | 3242.7 | 3223.4 | 3248.7 | 3266.0 | 3283.2 | 3246.7 | 3297.3 | 3274.1 | 3349.0 |
| 15°   | 3139.4 | 3127.2 | 3123.2 | 3124.2 | 3119.1 | 3143.4 | 3149.5 | 3157.6 | 3164.7 | 3196.1 | 3208.2 |
| 17.5° | 3084.7 | 3104.9 | 3113.0 | 3119.1 | 3109.0 | 3097.8 | 3086.7 | 3070.5 | 3075.6 | 3067.5 | 3090.8 |
| 20°   | 2528.7 | 2460.9 | 2456.8 | 2496.3 | 2452.8 | 2477.1 | 2535.8 | 2928.7 | 2915.6 | 3068.5 | 3016.8 |
| 22.5° | 2110.5 | 2046.7 | 1992.0 | 1944.4 | 2012.2 | 2040.6 | 2150.0 | 2273.5 | 2474.0 | 2442.6 | 2660.4 |
| 25°   | 1723.6 | 1700.3 | 1686.1 | 1679.1 | 1684.1 | 1682.1 | 1706.4 | 1764.1 | 1855.3 | 2070.0 | 2347.4 |
| 27.5° | 1612.2 | 1601.1 | 1596.0 | 1579.8 | 1592.0 | 1587.9 | 1607.2 | 1619.3 | 1646.6 | 1667.9 | 1758.0 |
| 30°   | 1524.1 | 1510.9 | 1501.8 | 1484.6 | 1496.8 | 1497.8 | 1503.9 | 1535.3 | 1546.4 | 1564.6 | 1593.0 |
| 32.5° | 557.0  | 328.1  | 307.9  | 292.7  | 320.0  | 417.2  | 732.2  | 1280.1 | 1460.3 | 1474.5 | 1506.9 |
| 35°   | 54.7   | 45.6   | 40.5   | 40.5   | 41.5   | 45.6   | 60.8   | 160.0  | 292.7  | 1131.2 | 1415.8 |
| 37.5° | 21.3   | 18.2   | 15.2   | 14.2   | 15.2   | 17.2   | 23.3   | 30.4   | 41.5   | 86.1   | 383.8  |
| 40°   | 9.1    | 8.1    | 7.1    | 7.1    | 7.1    | 7.1    | 8.1    | 10.1   | 15.2   | 28.4   | 44.6   |
| 42.5° | 6.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 7.1    | 9.1    | 18.2   |
| 45°   | 4.1    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 5.1    | 8.1    |
| 47.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    |
| 50°   | 3.0    | 3.0    | 3.0    | 3.0    | 2.0    | 3.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 52.5° | 3.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    |
| 55°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    |
| 57.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 60°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 62.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 3.0    | 2.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 3.0    | 2.0    |
| 67.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 70°   | 3.0    | 3.0    | 2.0    | 3.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 2.0    | 2.0    |
| 72.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 6.1    | 6.1    | 4.1    |
| 75°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 5.1    | 6.1    | 5.1    |
| 77.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 5.1    | 5.1    | 5.1    |
| 80°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    |
| 82.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    |
| 85°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 87.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 340°   | 341°   | 342°   | 343°   | 344°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3361.1 | 3360.1 | 3381.4 | 3397.6 | 3391.5 | 3397.6 | 3404.7 | 3405.7 | 3407.7 | 3399.6 | 3396.6 |
| 5°    | 3693.3 | 3661.9 | 3601.2 | 3557.6 | 3507.0 | 3414.8 | 3369.2 | 3374.3 | 3375.3 | 3372.3 | 3376.3 |
| 7.5°  | 3757.1 | 3754.1 | 3732.8 | 3723.7 | 3689.3 | 3623.4 | 3518.1 | 3499.9 | 3455.3 | 3427.0 | 3403.7 |
| 10°   | 3597.1 | 3670.0 | 3689.3 | 3721.7 | 3741.9 | 3729.8 | 3640.7 | 3627.5 | 3599.1 | 3566.7 | 3573.8 |
| 12.5° | 3423.9 | 3483.7 | 3486.7 | 3662.9 | 3702.4 | 3706.5 | 3672.0 | 3690.3 | 3694.3 | 3621.4 | 3578.9 |
| 15°   | 3211.3 | 3239.6 | 3299.4 | 3463.4 | 3582.9 | 3657.9 | 3680.1 | 3690.3 | 3640.7 | 3637.6 | 3620.4 |
| 17.5° | 3118.1 | 3136.3 | 3163.7 | 3255.8 | 3437.1 | 3547.5 | 3641.7 | 3634.6 | 3653.8 | 3639.6 | 3596.1 |
| 20°   | 3000.6 | 3015.8 | 3064.4 | 3111.0 | 3200.1 | 3347.0 | 3523.2 | 3536.3 | 3561.7 | 3558.6 | 3570.8 |
| 22.5° | 2998.6 | 2944.9 | 2953.0 | 2989.5 | 3082.7 | 3214.3 | 3401.7 | 3445.2 | 3461.4 | 3472.5 | 3485.7 |
| 25°   | 2378.8 | 2805.2 | 2883.2 | 2906.4 | 2967.2 | 3044.2 | 3264.9 | 3281.1 | 3311.5 | 3361.1 | 3397.6 |
| 27.5° | 2060.8 | 2350.5 | 2662.4 | 2824.4 | 2862.9 | 2926.7 | 3058.4 | 3082.7 | 3186.0 | 3198.1 | 3254.8 |
| 30°   | 1626.4 | 1850.2 | 2316.0 | 2705.9 | 2769.7 | 2814.3 | 2907.5 | 2956.1 | 3000.6 | 3049.2 | 3109.0 |
| 32.5° | 1530.2 | 1565.6 | 1823.9 | 2239.1 | 2735.3 | 2701.9 | 2770.7 | 2800.1 | 2848.7 | 2891.3 | 2934.8 |
| 35°   | 1442.1 | 1466.4 | 1521.1 | 1834.0 | 2227.9 | 2609.7 | 2656.3 | 2675.6 | 2702.9 | 2735.3 | 2766.7 |
| 37.5° | 1349.9 | 1386.4 | 1423.9 | 1507.9 | 2060.8 | 2536.8 | 2535.8 | 2558.1 | 2574.3 | 2601.6 | 2628.0 |
| 40°   | 245.1  | 1273.0 | 1333.7 | 1388.4 | 1598.0 | 2023.4 | 2422.4 | 2432.5 | 2443.6 | 2460.9 | 2488.2 |
| 42.5° | 39.5   | 212.7  | 1249.7 | 1302.3 | 1362.1 | 1811.7 | 2370.7 | 2329.2 | 2322.1 | 2334.3 | 2358.6 |
| 45°   | 20.3   | 51.6   | 251.1  | 1216.3 | 1269.9 | 1445.1 | 1938.3 | 2257.3 | 2250.2 | 2226.9 | 2232.0 |
| 47.5° | 15.2   | 32.4   | 61.8   | 420.3  | 1188.9 | 1240.6 | 1788.4 | 1769.2 | 1903.9 | 2162.1 | 2122.6 |
| 50°   | 13.2   | 22.3   | 36.5   | 86.1   | 1050.2 | 1142.3 | 1377.3 | 1609.2 | 1680.1 | 1689.2 | 1999.1 |
| 52.5° | 12.2   | 15.2   | 26.3   | 55.7   | 220.8  | 1056.2 | 1120.0 | 1201.1 | 1320.6 | 1576.8 | 1570.7 |
| 55°   | 11.1   | 14.2   | 22.3   | 37.5   | 77.0   | 951.9  | 1017.8 | 1033.0 | 1058.3 | 1180.8 | 1342.8 |
| 57.5° | 6.1    | 13.2   | 21.3   | 32.4   | 57.7   | 174.2  | 923.6  | 935.7  | 956.0  | 961.1  | 1018.8 |
| 60°   | 3.0    | 12.2   | 19.2   | 28.4   | 42.5   | 81.0   | 830.4  | 844.6  | 856.7  | 858.8  | 877.0  |
| 62.5° | 2.0    | 11.1   | 16.2   | 26.3   | 35.4   | 57.7   | 196.5  | 401.0  | 762.6  | 762.6  | 783.8  |
| 65°   | 2.0    | 8.1    | 10.1   | 17.2   | 32.4   | 47.6   | 83.0   | 96.2   | 187.3  | 460.8  | 687.6  |
| 67.5° | 2.0    | 3.0    | 9.1    | 14.2   | 24.3   | 36.5   | 60.8   | 70.9   | 85.1   | 97.2   | 180.3  |
| 70°   | 2.0    | 2.0    | 8.1    | 9.1    | 15.2   | 27.3   | 43.5   | 49.6   | 57.7   | 65.8   | 76.0   |
| 72.5° | 2.0    | 2.0    | 7.1    | 7.1    | 10.1   | 18.2   | 33.4   | 36.5   | 41.5   | 46.6   | 53.7   |
| 75°   | 5.1    | 4.1    | 6.1    | 6.1    | 7.1    | 14.2   | 25.3   | 28.4   | 30.4   | 34.4   | 39.5   |
| 77.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 9.1    | 16.2   | 18.2   | 21.3   | 23.3   | 27.3   |
| 80°   | 4.1    | 4.1    | 4.1    | 5.1    | 5.1    | 6.1    | 10.1   | 11.1   | 12.2   | 15.2   | 16.2   |
| 82.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 6.1    | 7.1    | 9.1    |
| 85°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    | 4.1    |
| 87.5° | 3.0    | 3.0    | 3.0    | 2.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 346°   | 347°   | 348°   | 349°   | 350°   | 351°   | 352°   | 353°   | 354°   | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3395.6 | 3389.5 | 3384.4 | 3387.5 | 3378.4 | 3374.3 | 3377.4 | 3378.4 | 3380.4 | 3385.5 | 3386.5 |
| 5°    | 3386.5 | 3384.4 | 3393.6 | 3398.6 | 3396.6 | 3398.6 | 3398.6 | 3394.6 | 3388.5 | 3392.5 | 3383.4 |
| 7.5°  | 3380.4 | 3367.2 | 3357.1 | 3359.1 | 3349.0 | 3361.1 | 3372.3 | 3388.5 | 3393.6 | 3393.6 | 3383.4 |
| 10°   | 3484.7 | 3470.5 | 3413.8 | 3375.3 | 3350.0 | 3327.7 | 3380.4 | 3326.7 | 3352.0 | 3255.8 | 3366.2 |
| 12.5° | 3570.8 | 3590.0 | 3564.7 | 3459.4 | 3441.2 | 3374.3 | 3412.8 | 3347.0 | 3327.7 | 3217.3 | 3252.8 |
| 15°   | 3605.2 | 3568.8 | 3560.6 | 3531.3 | 3491.8 | 3472.5 | 3369.2 | 3358.1 | 3326.7 | 3338.9 | 3292.3 |
| 17.5° | 3574.8 | 3593.1 | 3568.8 | 3549.5 | 3509.0 | 3463.4 | 3401.7 | 3347.0 | 3303.4 | 3206.2 | 3288.2 |
| 20°   | 3545.5 | 3569.8 | 3496.8 | 3509.0 | 3513.1 | 3460.4 | 3428.0 | 3382.4 | 3327.7 | 3236.6 | 3165.7 |
| 22.5° | 3496.8 | 3479.6 | 3485.7 | 3467.5 | 3452.3 | 3459.4 | 3414.8 | 3383.4 | 3291.3 | 3249.8 | 3153.5 |
| 25°   | 3417.9 | 3411.8 | 3428.0 | 3426.0 | 3389.5 | 3377.4 | 3355.1 | 3321.7 | 3285.2 | 3218.4 | 3139.4 |
| 27.5° | 3289.2 | 3320.6 | 3349.0 | 3362.2 | 3342.9 | 3310.5 | 3298.4 | 3279.1 | 3253.8 | 3186.0 | 3127.2 |
| 30°   | 3153.5 | 3189.0 | 3221.4 | 3249.8 | 3267.0 | 3252.8 | 3241.6 | 3230.5 | 3192.0 | 3147.5 | 3081.6 |
| 32.5° | 2998.6 | 3045.2 | 3089.7 | 3124.2 | 3161.6 | 3172.8 | 3164.7 | 3155.6 | 3123.2 | 3082.7 | 3030.0 |
| 35°   | 2819.4 | 2883.2 | 2948.0 | 3009.7 | 3025.9 | 3052.3 | 3078.6 | 3063.4 | 3046.2 | 3005.7 | 2957.1 |
| 37.5° | 2667.4 | 2713.0 | 2759.6 | 2837.6 | 2894.3 | 2927.7 | 2974.3 | 2980.4 | 2951.0 | 2931.8 | 2868.0 |
| 40°   | 2510.5 | 2552.0 | 2619.9 | 2665.4 | 2743.4 | 2781.9 | 2831.5 | 2853.8 | 2846.7 | 2835.6 | 2779.9 |
| 42.5° | 2386.9 | 2407.2 | 2451.7 | 2492.3 | 2569.2 | 2648.2 | 2691.8 | 2716.1 | 2741.4 | 2732.3 | 2703.9 |
| 45°   | 2255.3 | 2273.5 | 2288.7 | 2324.1 | 2399.1 | 2469.0 | 2522.6 | 2559.1 | 2604.7 | 2625.9 | 2591.5 |
| 47.5° | 2124.6 | 2129.7 | 2147.9 | 2177.3 | 2221.9 | 2275.5 | 2365.7 | 2420.4 | 2462.9 | 2504.4 | 2482.1 |
| 50°   | 2024.4 | 2006.2 | 2009.2 | 2027.4 | 2063.9 | 2116.5 | 2181.4 | 2258.3 | 2306.9 | 2357.6 | 2362.6 |
| 52.5° | 1769.2 | 1917.0 | 1881.6 | 1891.7 | 1911.0 | 1936.3 | 2004.1 | 2080.1 | 2139.8 | 2183.4 | 2226.9 |
| 55°   | 1484.6 | 1514.0 | 1798.6 | 1758.0 | 1770.2 | 1792.5 | 1823.9 | 1899.8 | 1957.5 | 2018.3 | 2079.1 |
| 57.5° | 1151.4 | 1370.2 | 1381.3 | 1644.6 | 1638.5 | 1640.6 | 1666.9 | 1710.4 | 1768.2 | 1844.1 | 1895.8 |
| 60°   | 895.2  | 987.4  | 1166.6 | 1257.8 | 1488.7 | 1496.8 | 1512.0 | 1537.3 | 1586.9 | 1658.8 | 1740.8 |
| 62.5° | 789.9  | 802.1  | 865.9  | 1002.6 | 1152.5 | 1333.7 | 1366.1 | 1370.2 | 1392.5 | 1464.4 | 1559.6 |
| 65°   | 693.7  | 701.8  | 721.0  | 735.2  | 860.8  | 1036.0 | 1191.9 | 1217.3 | 1231.4 | 1274.0 | 1355.0 |
| 67.5° | 478.0  | 604.6  | 621.8  | 631.9  | 644.1  | 725.1  | 918.5  | 1047.1 | 1063.3 | 1100.8 | 1171.7 |
| 70°   | 92.2   | 191.4  | 523.6  | 534.7  | 540.8  | 559.0  | 590.4  | 795.0  | 902.3  | 937.8  | 970.2  |
| 72.5° | 62.8   | 73.9   | 89.1   | 210.6  | 445.6  | 455.7  | 462.8  | 489.1  | 670.4  | 773.7  | 790.9  |
| 75°   | 45.6   | 50.6   | 59.7   | 73.9   | 91.1   | 296.7  | 367.6  | 380.8  | 393.9  | 543.8  | 630.9  |
| 77.5° | 32.4   | 36.5   | 40.5   | 47.6   | 55.7   | 71.9   | 103.3  | 284.6  | 297.7  | 304.8  | 430.4  |
| 80°   | 18.2   | 22.3   | 27.3   | 31.4   | 35.4   | 40.5   | 52.7   | 65.8   | 146.8  | 214.7  | 225.8  |
| 82.5° | 10.1   | 12.2   | 14.2   | 17.2   | 19.2   | 24.3   | 29.4   | 35.4   | 46.6   | 68.9   | 145.8  |
| 85°   | 5.1    | 5.1    | 5.1    | 7.1    | 8.1    | 11.1   | 13.2   | 15.2   | 21.3   | 29.4   | 40.5   |
| 87.5° | 3.0    | 3.0    | 4.1    | 4.1    | 4.1    | 5.1    | 5.1    | 5.1    | 6.1    | 9.1    | 13.2   |
| 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: P1213140

CATALOG NUMBER: 4SNLED-LD5-61HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 356°   | 357°   | 358°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3374.3 | 3374.3 | 3374.3 | 3374.3 | 3374.3 |
| 2.5°  | 3387.5 | 3384.4 | 3384.4 | 3396.6 | 3393.6 |
| 5°    | 3381.4 | 3378.4 | 3377.4 | 3390.5 | 3384.4 |
| 7.5°  | 3376.3 | 3365.2 | 3362.2 | 3374.3 | 3369.2 |
| 10°   | 3356.1 | 3348.0 | 3353.0 | 3349.0 | 3347.0 |
| 12.5° | 3321.7 | 3316.6 | 3295.3 | 3297.3 | 3314.6 |
| 15°   | 3259.9 | 3280.1 | 3243.7 | 3276.1 | 3283.2 |
| 17.5° | 3146.5 | 3192.0 | 3227.5 | 3246.7 | 3249.8 |
| 20°   | 3197.1 | 3212.3 | 3194.1 | 3195.1 | 3207.2 |
| 22.5° | 3131.3 | 3138.4 | 3143.4 | 3137.3 | 3163.7 |
| 25°   | 3025.9 | 2998.6 | 3057.3 | 3069.5 | 3112.0 |
| 27.5° | 2993.5 | 2971.3 | 2998.6 | 2996.6 | 3032.0 |
| 30°   | 2967.2 | 2895.3 | 2907.5 | 2926.7 | 2970.2 |
| 32.5° | 2929.7 | 2816.3 | 2804.2 | 2846.7 | 2895.3 |
| 35°   | 2863.9 | 2756.6 | 2728.2 | 2755.6 | 2828.5 |
| 37.5° | 2808.2 | 2673.5 | 2616.8 | 2653.3 | 2748.5 |
| 40°   | 2725.2 | 2608.7 | 2520.6 | 2553.0 | 2665.4 |
| 42.5° | 2625.9 | 2553.0 | 2417.3 | 2439.6 | 2568.2 |
| 45°   | 2525.7 | 2460.9 | 2317.1 | 2328.2 | 2481.1 |
| 47.5° | 2423.4 | 2363.6 | 2212.7 | 2214.8 | 2369.7 |
| 50°   | 2323.1 | 2244.1 | 2119.6 | 2084.1 | 2251.2 |
| 52.5° | 2192.5 | 2119.6 | 2025.4 | 1967.7 | 2138.8 |
| 55°   | 2068.9 | 1986.9 | 1918.1 | 1828.9 | 2011.2 |
| 57.5° | 1948.4 | 1857.3 | 1810.7 | 1696.3 | 1866.4 |
| 60°   | 1783.4 | 1739.8 | 1671.0 | 1561.6 | 1735.8 |
| 62.5° | 1614.2 | 1600.1 | 1530.2 | 1416.8 | 1574.7 |
| 65°   | 1416.8 | 1450.2 | 1378.3 | 1281.1 | 1407.7 |
| 67.5° | 1230.4 | 1290.2 | 1211.2 | 1151.4 | 1246.6 |
| 70°   | 1031.9 | 1100.8 | 1056.2 | 1035.0 | 1075.5 |
| 72.5° | 836.5  | 903.3  | 907.4  | 892.2  | 905.4  |
| 75°   | 646.1  | 720.0  | 760.5  | 737.2  | 740.3  |
| 77.5° | 490.1  | 525.6  | 570.1  | 588.4  | 584.3  |
| 80°   | 302.8  | 364.6  | 401.0  | 438.5  | 425.3  |
| 82.5° | 152.9  | 204.6  | 249.1  | 289.6  | 270.4  |
| 85°   | 63.8   | 82.0   | 114.4  | 150.9  | 144.8  |
| 87.5° | 19.2   | 32.4   | 34.4   | 48.6   | 45.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)