

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: P1213861

Luminaire Tested: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213861  
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-LD5-65SL-RM-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

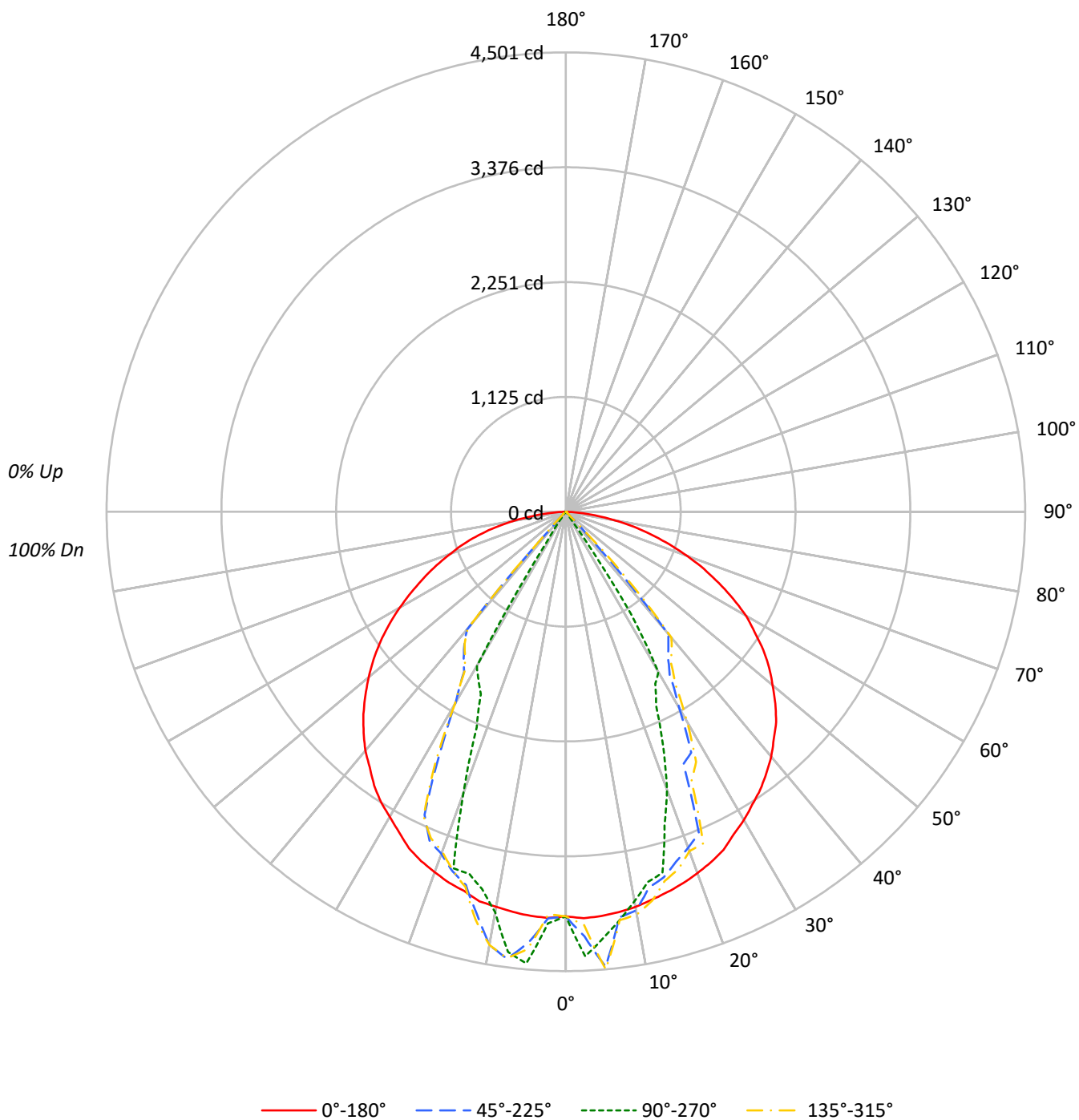
Lumens per Lamp: N/A  
Luminaire Lumens: 5636.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 55  
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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 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°  | 32031 | 32031 | 32031 | 32031 |
| 5°  | 32162 | 32943 | 32152 | 34886 |
| 10° | 32084 | 29809 | 32065 | 30670 |
| 15° | 31997 | 27824 | 31918 | 27896 |
| 20° | 32034 | 21915 | 31943 | 22186 |
| 25° | 32127 | 15860 | 31969 | 14966 |
| 30° | 31979 | 13912 | 31641 | 13374 |
| 35° | 32075 | 307   | 31604 | 372   |
| 40° | 32185 | 67    | 31414 | 67    |
| 45° | 32298 | 40    | 31085 | 30    |
| 50° | 32051 | 31    | 30581 | 31    |
| 55° | 31863 | 22    | 29906 | 22    |
| 60° | 31261 | 24    | 28817 | 24    |
| 65° | 29631 | 38    | 27520 | 25    |
| 70° | 27488 | 42    | 26170 | 42    |
| 75° | 24315 | 47    | 24715 | 47    |
| 80° | 19750 | 54    | 20880 | 54    |
| 85° | 11621 | 63    | 11867 | 63    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 34875 cd/sqm

TEST NUMBER: P1213861

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 397.7  | 7.1       |
| 10°-20°   | 1084.7 | 19.2      |
| 20°-30°   | 1380.2 | 24.5      |
| 30°-40°   | 1165.9 | 20.7      |
| 40°-50°   | 762.3  | 13.5      |
| 50°-60°   | 480.3  | 8.5       |
| 60°-70°   | 255.7  | 4.5       |
| 70°-80°   | 93.2   | 1.7       |
| 80°-90°   | 16.0   | 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°    | 2862.6 | 50.8      |
| 0°-40°    | 4028.5 | 71.5      |
| 0°-60°    | 5271.1 | 93.5      |
| 0°-90°    | 5636.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5636.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3964 | 3964 | 3964 | 3964 | 3964 |      |
| 5°  | 3976 | 4194 | 3974 | 4442 | 3976 | 378  |
| 15° | 3857 | 3660 | 3847 | 3670 | 3857 | 1090 |
| 25° | 3656 | 2090 | 3638 | 1972 | 3656 | 1681 |
| 35° | 3322 | 39   | 3274 | 48   | 3322 | 2078 |
| 45° | 2914 | 5    | 2805 | 4    | 2914 | 2241 |
| 55° | 2362 | 2    | 2217 | 2    | 2362 | 2105 |
| 65° | 1654 | 4    | 1536 | 2    | 1654 | 1638 |
| 75° | 870  | 4    | 884  | 4    | 870  | 923  |
| 85° | 170  | 4    | 174  | 4    | 170  | 215  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1213861

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3986.3 | 3988.6 | 3989.8 | 3992.2 | 3995.8 | 3997.0 | 3999.3 | 3997.0 | 3997.0 | 3997.0 | 3997.0 |
| 5°    | 3975.6 | 3980.3 | 3983.9 | 3988.6 | 3997.0 | 3998.2 | 4007.7 | 4008.9 | 4013.6 | 4023.1 | 4030.3 |
| 7.5°  | 3957.7 | 3962.5 | 3969.6 | 3981.5 | 3993.4 | 4006.5 | 4023.1 | 4041.0 | 4066.0 | 4089.8 | 4119.5 |
| 10°   | 3931.5 | 3937.5 | 3945.8 | 3956.5 | 4014.8 | 4023.1 | 4060.0 | 4111.2 | 4125.4 | 4200.4 | 4256.3 |
| 12.5° | 3893.5 | 3913.7 | 3935.1 | 3944.6 | 4000.5 | 4088.6 | 4212.3 | 4187.3 | 4159.9 | 4405.0 | 4401.4 |
| 15°   | 3856.6 | 3884.0 | 3873.2 | 3950.6 | 4001.7 | 4155.2 | 4102.8 | 4214.7 | 4419.3 | 4369.3 | 4371.7 |
| 17.5° | 3817.3 | 3823.3 | 3882.8 | 3947.0 | 4038.6 | 4117.1 | 4181.3 | 4334.8 | 4375.2 | 4378.8 | 4334.8 |
| 20°   | 3767.4 | 3795.9 | 3882.8 | 3941.1 | 4095.7 | 4132.6 | 4271.8 | 4350.3 | 4333.6 | 4293.2 | 4218.2 |
| 22.5° | 3716.2 | 3803.1 | 3891.1 | 3973.2 | 4081.4 | 4180.2 | 4249.2 | 4286.0 | 4199.2 | 4039.8 | 3954.1 |
| 25°   | 3655.6 | 3706.7 | 3822.1 | 3942.2 | 4077.9 | 4135.0 | 4175.4 | 4115.9 | 4002.9 | 3860.2 | 3716.2 |
| 27.5° | 3561.6 | 3643.7 | 3791.2 | 3926.8 | 4049.3 | 4118.3 | 4052.9 | 3910.1 | 3728.1 | 3634.1 | 3568.7 |
| 30°   | 3489.0 | 3596.1 | 3717.4 | 3848.3 | 3975.6 | 4016.0 | 3849.5 | 3686.5 | 3561.6 | 3467.6 | 3453.3 |
| 32.5° | 3401.0 | 3553.3 | 3668.6 | 3793.5 | 3900.6 | 3847.1 | 3685.3 | 3474.7 | 3371.2 | 3335.6 | 3349.8 |
| 35°   | 3322.5 | 3437.9 | 3588.9 | 3711.5 | 3788.8 | 3668.6 | 3412.9 | 3282.0 | 3232.1 | 3252.3 | 3226.1 |
| 37.5° | 3228.5 | 3380.8 | 3519.9 | 3625.8 | 3599.6 | 3418.8 | 3202.3 | 3119.1 | 3125.0 | 3108.4 | 3058.4 |
| 40°   | 3131.0 | 3276.1 | 3421.2 | 3521.1 | 3429.5 | 3153.6 | 3009.6 | 2991.8 | 2995.3 | 2941.8 | 2870.4 |
| 42.5° | 3016.8 | 3148.8 | 3293.9 | 3384.3 | 3186.9 | 2971.6 | 2874.0 | 2876.4 | 2845.5 | 2770.5 | 2732.4 |
| 45°   | 2914.5 | 3035.8 | 3186.9 | 3195.2 | 2952.5 | 2772.9 | 2744.3 | 2713.4 | 2644.4 | 2619.4 | 2590.9 |
| 47.5° | 2783.6 | 2918.0 | 3042.9 | 2997.7 | 2722.9 | 2611.1 | 2589.7 | 2521.9 | 2487.4 | 2468.4 | 2444.6 |
| 50°   | 2644.4 | 2780.0 | 2894.2 | 2765.8 | 2506.4 | 2480.3 | 2410.1 | 2356.5 | 2332.8 | 2312.5 | 2291.1 |
| 52.5° | 2512.4 | 2624.2 | 2740.8 | 2519.5 | 2339.9 | 2314.9 | 2235.2 | 2204.3 | 2180.5 | 2157.9 | 2153.1 |
| 55°   | 2362.5 | 2461.2 | 2540.9 | 2285.2 | 2180.5 | 2122.2 | 2065.1 | 2043.7 | 2021.1 | 2010.4 | 2028.2 |
| 57.5° | 2192.4 | 2304.2 | 2292.3 | 2054.4 | 2008.0 | 1923.5 | 1902.1 | 1887.9 | 1871.2 | 1878.3 | 1729.6 |
| 60°   | 2038.9 | 2124.6 | 2066.3 | 1885.5 | 1807.0 | 1749.9 | 1730.8 | 1721.3 | 1730.8 | 1585.7 | 1394.2 |
| 62.5° | 1849.8 | 1946.1 | 1828.4 | 1688.0 | 1604.7 | 1577.4 | 1560.7 | 1573.8 | 1434.6 | 1275.2 | 1228.8 |
| 65°   | 1653.5 | 1758.2 | 1584.5 | 1476.3 | 1423.9 | 1400.1 | 1398.9 | 1288.3 | 1151.5 | 1089.6 | 1089.6 |
| 67.5° | 1464.4 | 1572.6 | 1349.0 | 1258.6 | 1238.3 | 1240.7 | 1171.7 | 1004.0 | 965.9  | 924.3  | 804.2  |
| 70°   | 1263.3 | 1358.5 | 1114.6 | 1059.9 | 1048.0 | 1039.7 | 872.0  | 826.8  | 781.5  | 670.9  | 661.4  |
| 72.5° | 1063.5 | 1109.9 | 895.7  | 882.7  | 880.3  | 731.6  | 698.3  | 621.0  | 568.6  | 555.5  | 549.6  |
| 75°   | 869.6  | 855.3  | 707.8  | 719.7  | 606.7  | 554.3  | 500.8  | 455.6  | 448.5  | 443.7  | 110.6  |
| 77.5° | 686.4  | 615.0  | 557.9  | 485.3  | 434.2  | 368.8  | 358.1  | 350.9  | 230.8  | 83.3   | 67.8   |
| 80°   | 499.6  | 398.5  | 371.1  | 315.2  | 268.8  | 258.1  | 264.1  | 80.9   | 64.2   | 53.5   | 46.4   |
| 82.5° | 317.6  | 254.6  | 208.2  | 182.0  | 177.2  | 77.3   | 57.1   | 46.4   | 40.4   | 34.5   | 28.5   |
| 85°   | 170.1  | 113.0  | 104.7  | 88.0   | 52.3   | 35.7   | 29.7   | 22.6   | 19.0   | 15.5   | 14.3   |
| 87.5° | 53.5   | 45.2   | 36.9   | 29.7   | 17.8   | 11.9   | 9.5    | 8.3    | 7.1    | 5.9    | 5.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 11°    | 12°    | 13°    | 14°    | 15°    | 16°    | 17°    | 18°    | 19°    | 20°    | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3994.6 | 3997.0 | 3995.8 | 3999.3 | 3999.3 | 4004.1 | 4007.7 | 4011.2 | 4018.4 | 4021.9 | 4049.3 |
| 5°    | 4045.7 | 4051.7 | 4069.5 | 4086.2 | 4106.4 | 4112.4 | 4146.9 | 4155.2 | 4195.6 | 4200.4 | 4333.6 |
| 7.5°  | 4159.9 | 4182.5 | 4225.4 | 4268.2 | 4311.0 | 4338.4 | 4386.0 | 4415.7 | 4447.8 | 4476.4 | 4582.2 |
| 10°   | 4297.9 | 4336.0 | 4377.6 | 4420.5 | 4445.4 | 4497.8 | 4526.3 | 4531.1 | 4522.8 | 4476.4 | 4305.1 |
| 12.5° | 4433.5 | 4471.6 | 4453.8 | 4462.1 | 4491.8 | 4399.0 | 4412.1 | 4345.5 | 4391.9 | 4162.3 | 3992.2 |
| 15°   | 4414.5 | 4412.1 | 4368.1 | 4225.4 | 4249.2 | 4071.9 | 4000.5 | 3945.8 | 3989.8 | 3966.0 | 3939.9 |
| 17.5° | 4357.4 | 4249.2 | 4173.0 | 4001.7 | 3929.2 | 3879.2 | 3880.4 | 3881.6 | 3860.2 | 3882.8 | 3816.1 |
| 20°   | 4115.9 | 3994.6 | 3881.6 | 3820.9 | 3799.5 | 3763.8 | 3781.7 | 3763.8 | 3765.0 | 3772.1 | 3669.8 |
| 22.5° | 3794.7 | 3757.9 | 3692.4 | 3711.5 | 3704.3 | 3736.4 | 3712.7 | 3675.8 | 3687.7 | 3634.1 | 3556.8 |
| 25°   | 3665.1 | 3622.2 | 3619.9 | 3627.0 | 3616.3 | 3602.0 | 3580.6 | 3524.7 | 3521.1 | 3504.5 | 3468.8 |
| 27.5° | 3534.2 | 3536.6 | 3543.7 | 3522.3 | 3484.3 | 3455.7 | 3423.6 | 3396.2 | 3406.9 | 3387.9 | 3339.1 |
| 30°   | 3443.8 | 3442.6 | 3399.8 | 3380.8 | 3310.6 | 3311.8 | 3303.4 | 3286.8 | 3276.1 | 3277.3 | 3246.3 |
| 32.5° | 3315.3 | 3278.5 | 3229.7 | 3205.9 | 3200.0 | 3178.5 | 3161.9 | 3165.5 | 3173.8 | 3144.0 | 3176.2 |
| 35°   | 3183.3 | 3107.2 | 3100.0 | 3079.8 | 3060.8 | 3046.5 | 3052.4 | 3028.7 | 3027.5 | 3023.9 | 2762.2 |
| 37.5° | 3006.1 | 2969.2 | 2965.6 | 2944.2 | 2931.1 | 2927.5 | 2904.9 | 2908.5 | 2919.2 | 2938.2 | 2355.4 |
| 40°   | 2859.7 | 2826.4 | 2818.1 | 2816.9 | 2788.4 | 2786.0 | 2791.9 | 2814.5 | 2830.0 | 2711.0 | 2244.7 |
| 42.5° | 2702.7 | 2705.1 | 2678.9 | 2662.3 | 2665.8 | 2676.5 | 2705.1 | 2626.6 | 2275.7 | 2168.6 | 2052.0 |
| 45°   | 2568.3 | 2556.4 | 2542.1 | 2537.4 | 2568.3 | 2546.9 | 2232.8 | 2060.3 | 2018.7 | 2013.9 | 1686.8 |
| 47.5° | 2427.9 | 2424.3 | 2418.4 | 2422.0 | 2245.9 | 2002.1 | 1930.7 | 1908.1 | 1915.2 | 1910.5 | 1448.9 |
| 50°   | 2286.4 | 2291.1 | 2291.1 | 2000.9 | 1836.7 | 1796.3 | 1802.2 | 1822.4 | 1696.3 | 1583.3 | 1350.2 |
| 52.5° | 2163.8 | 2127.0 | 1822.4 | 1717.7 | 1680.9 | 1698.7 | 1655.9 | 1497.7 | 1383.5 | 1316.9 | 1249.1 |
| 55°   | 1936.6 | 1665.4 | 1597.6 | 1580.9 | 1594.0 | 1435.8 | 1338.3 | 1236.0 | 1206.2 | 1199.1 | 1159.8 |
| 57.5° | 1523.8 | 1469.1 | 1475.1 | 1408.5 | 1257.4 | 1168.2 | 1128.9 | 1114.6 | 1101.5 | 1092.0 | 95.2   |
| 60°   | 1347.8 | 1363.3 | 1247.9 | 1105.1 | 1044.4 | 1032.5 | 1023.0 | 1009.9 | 1007.6 | 990.9  | 60.7   |
| 62.5° | 1233.6 | 1084.9 | 985.0  | 949.3  | 935.0  | 931.4  | 913.6  | 907.6  | 770.8  | 105.9  | 45.2   |
| 65°   | 930.2  | 869.6  | 850.5  | 842.2  | 826.8  | 826.8  | 686.4  | 108.3  | 88.0   | 76.1   | 40.4   |
| 67.5° | 758.9  | 754.2  | 744.7  | 734.0  | 499.6  | 104.7  | 91.6   | 79.7   | 69.0   | 60.7   | 35.7   |
| 70°   | 642.4  | 640.0  | 582.9  | 107.1  | 89.2   | 78.5   | 69.0   | 61.9   | 57.1   | 51.2   | 32.1   |
| 72.5° | 527.0  | 107.1  | 90.4   | 78.5   | 67.8   | 61.9   | 55.9   | 50.0   | 45.2   | 41.6   | 26.2   |
| 75°   | 82.1   | 72.6   | 64.2   | 58.3   | 53.5   | 47.6   | 42.8   | 39.3   | 38.1   | 33.3   | 17.8   |
| 77.5° | 59.5   | 51.2   | 46.4   | 41.6   | 36.9   | 33.3   | 28.5   | 25.0   | 22.6   | 19.0   | 13.1   |
| 80°   | 41.6   | 36.9   | 33.3   | 27.4   | 23.8   | 20.2   | 17.8   | 15.5   | 14.3   | 11.9   | 5.9    |
| 82.5° | 23.8   | 20.2   | 17.8   | 14.3   | 13.1   | 10.7   | 9.5    | 8.3    | 8.3    | 5.9    | 5.9    |
| 85°   | 10.7   | 10.7   | 8.3    | 7.1    | 5.9    | 5.9    | 5.9    | 4.8    | 4.8    | 3.6    | 3.6    |
| 87.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 30°    | 35°    | 40°    | 45°    | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 4087.4 | 4102.8 | 4132.6 | 4163.5 | 4129.0 | 4252.7 | 4243.2 | 4284.8 | 4307.4 | 4318.1 | 4343.1 |
| 5°    | 4451.4 | 4520.4 | 4543.0 | 4475.2 | 4435.9 | 4395.5 | 4303.9 | 4234.9 | 4243.2 | 4220.6 | 4138.5 |
| 7.5°  | 4444.2 | 4296.7 | 4098.1 | 4007.7 | 4000.5 | 3989.8 | 4018.4 | 4035.0 | 4037.4 | 4036.2 | 4033.8 |
| 10°   | 4068.3 | 3992.2 | 3979.1 | 3967.2 | 3972.0 | 3928.0 | 3907.7 | 3850.6 | 3881.6 | 3864.9 | 3870.9 |
| 12.5° | 3954.1 | 3936.3 | 3866.1 | 3768.6 | 3826.9 | 3782.8 | 3757.9 | 3774.5 | 3755.5 | 3737.6 | 3731.7 |
| 15°   | 3886.3 | 3770.9 | 3731.7 | 3707.9 | 3691.2 | 3681.7 | 3690.1 | 3671.0 | 3665.1 | 3661.5 | 3669.8 |
| 17.5° | 3746.0 | 3699.6 | 3656.7 | 3593.7 | 3594.9 | 3591.3 | 3615.1 | 3650.8 | 3653.2 | 3470.0 | 3304.6 |
| 20°   | 3635.3 | 3597.3 | 3542.5 | 3503.3 | 3556.8 | 3461.7 | 3094.1 | 2919.2 | 2891.9 | 2891.9 | 2896.6 |
| 22.5° | 3547.3 | 3462.8 | 3466.4 | 3404.6 | 2903.7 | 2801.4 | 2803.8 | 2814.5 | 2765.8 | 2599.2 | 2581.4 |
| 25°   | 3427.2 | 3414.1 | 3153.6 | 2725.3 | 2728.9 | 2649.2 | 2526.7 | 2354.2 | 2167.4 | 2167.4 | 2136.5 |
| 27.5° | 3336.8 | 3059.6 | 2678.9 | 2661.1 | 2393.4 | 2224.5 | 2119.8 | 1961.6 | 1940.2 | 1920.0 | 1922.3 |
| 30°   | 3259.4 | 2588.5 | 2598.0 | 2224.5 | 2027.0 | 1886.7 | 1878.3 | 1852.2 | 1839.1 | 1835.5 | 1822.4 |
| 32.5° | 2576.6 | 2520.7 | 2174.5 | 1893.8 | 1816.5 | 1793.9 | 1783.2 | 1753.4 | 1752.2 | 1729.6 | 1572.6 |
| 35°   | 2416.0 | 2212.6 | 1820.0 | 1743.9 | 1721.3 | 1699.9 | 1682.1 | 1128.9 | 133.2  | 53.5   | 46.4   |
| 37.5° | 2232.8 | 1848.6 | 1683.2 | 1648.7 | 1627.3 | 1202.7 | 120.1  | 41.6   | 29.7   | 21.4   | 19.0   |
| 40°   | 1892.6 | 1651.1 | 1598.8 | 1560.7 | 643.6  | 41.6   | 26.2   | 20.2   | 11.9   | 10.7   | 9.5    |
| 42.5° | 1596.4 | 1556.0 | 1500.1 | 456.8  | 47.6   | 20.2   | 13.1   | 9.5    | 8.3    | 8.3    | 7.1    |
| 45°   | 1494.1 | 1458.4 | 604.3  | 45.2   | 29.7   | 9.5    | 8.3    | 8.3    | 7.1    | 4.8    | 4.8    |
| 47.5° | 1398.9 | 1231.2 | 54.7   | 28.5   | 19.0   | 8.3    | 7.1    | 4.8    | 4.8    | 4.8    | 3.6    |
| 50°   | 1297.8 | 67.8   | 38.1   | 21.4   | 11.9   | 4.8    | 4.8    | 4.8    | 4.8    | 3.6    | 3.6    |
| 52.5° | 242.7  | 47.6   | 30.9   | 19.0   | 5.9    | 4.8    | 4.8    | 4.8    | 3.6    | 3.6    | 3.6    |
| 55°   | 57.1   | 38.1   | 28.5   | 16.7   | 4.8    | 4.8    | 4.8    | 3.6    | 3.6    | 3.6    | 2.4    |
| 57.5° | 42.8   | 28.5   | 22.6   | 15.5   | 4.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    |
| 60°   | 35.7   | 20.2   | 17.8   | 14.3   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    |
| 62.5° | 25.0   | 16.7   | 13.1   | 10.7   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 65°   | 20.2   | 13.1   | 10.7   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 67.5° | 17.8   | 10.7   | 7.1    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 70°   | 14.3   | 3.6    | 3.6    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 72.5° | 11.9   | 3.6    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 75°   | 11.9   | 5.9    | 2.4    | 2.4    | 3.6    | 3.6    | 4.8    | 4.8    | 3.6    | 3.6    | 3.6    |
| 77.5° | 8.3    | 5.9    | 2.4    | 2.4    | 3.6    | 3.6    | 4.8    | 4.8    | 3.6    | 3.6    | 3.6    |
| 80°   | 4.8    | 5.9    | 2.4    | 3.6    | 3.6    | 7.1    | 8.3    | 4.8    | 3.6    | 3.6    | 3.6    |
| 82.5° | 4.8    | 5.9    | 7.1    | 7.1    | 3.6    | 5.9    | 7.1    | 5.9    | 4.8    | 3.6    | 3.6    |
| 85°   | 4.8    | 3.6    | 4.8    | 5.9    | 3.6    | 5.9    | 5.9    | 4.8    | 4.8    | 3.6    | 3.6    |
| 87.5° | 2.4    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    | 5.9    | 4.8    | 4.8    | 4.8    | 3.6    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 85°    | 90°    | 95°    | 100°   | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 4355.0 | 4359.8 | 4284.8 | 4258.7 | 4281.3 | 4276.5 | 4256.3 | 4181.3 | 4173.0 | 4123.1 | 4050.5 |
| 5°    | 4162.3 | 4194.4 | 4155.2 | 4223.0 | 4190.9 | 4223.0 | 4320.5 | 4365.7 | 4439.5 | 4484.7 | 4501.3 |
| 7.5°  | 4027.9 | 4035.0 | 4035.0 | 4041.0 | 4046.9 | 4048.1 | 4041.0 | 4036.2 | 4016.0 | 3991.0 | 4036.2 |
| 10°   | 3864.9 | 3873.2 | 3887.5 | 3885.1 | 3884.0 | 3908.9 | 3914.9 | 3966.0 | 3963.7 | 3973.2 | 4007.7 |
| 12.5° | 3780.5 | 3716.2 | 3774.5 | 3759.1 | 3780.5 | 3747.2 | 3809.0 | 3798.3 | 3801.9 | 3830.4 | 3904.2 |
| 15°   | 3640.1 | 3660.3 | 3674.6 | 3674.6 | 3682.9 | 3675.8 | 3668.6 | 3717.4 | 3747.2 | 3748.3 | 3743.6 |
| 17.5° | 3370.1 | 3216.6 | 3373.6 | 3333.2 | 3655.6 | 3663.9 | 3636.5 | 3613.9 | 3613.9 | 3631.8 | 3669.8 |
| 20°   | 2893.0 | 2896.6 | 2897.8 | 2913.3 | 2932.3 | 2931.1 | 2932.3 | 3401.0 | 3623.4 | 3572.3 | 3537.8 |
| 22.5° | 2536.2 | 2492.2 | 2574.2 | 2568.3 | 2670.6 | 2783.6 | 2891.9 | 2881.1 | 2888.3 | 3219.0 | 3516.4 |
| 25°   | 2033.0 | 2090.1 | 2043.7 | 2063.9 | 2179.3 | 2313.7 | 2397.0 | 2614.7 | 2851.4 | 2834.8 | 2912.1 |
| 27.5° | 1914.0 | 1898.6 | 1920.0 | 1920.0 | 1935.4 | 1953.3 | 1999.7 | 2122.2 | 2332.8 | 2554.0 | 2763.4 |
| 30°   | 1801.0 | 1814.1 | 1816.5 | 1837.9 | 1849.8 | 1861.7 | 1868.8 | 1915.2 | 1962.8 | 2116.3 | 2374.4 |
| 32.5° | 1352.5 | 1186.0 | 1560.7 | 1661.8 | 1747.5 | 1767.7 | 1782.0 | 1801.0 | 1835.5 | 1858.1 | 1987.8 |
| 35°   | 39.3   | 39.3   | 41.6   | 47.6   | 60.7   | 409.2  | 1558.3 | 1717.7 | 1740.3 | 1768.9 | 1792.7 |
| 37.5° | 19.0   | 14.3   | 16.7   | 17.8   | 21.4   | 29.7   | 42.8   | 133.2  | 1483.4 | 1677.3 | 1703.5 |
| 40°   | 8.3    | 8.3    | 8.3    | 8.3    | 9.5    | 11.9   | 17.8   | 29.7   | 45.2   | 1193.1 | 1609.5 |
| 42.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 8.3    | 10.7   | 21.4   | 51.2   | 844.6  |
| 45°   | 4.8    | 4.8    | 3.6    | 4.8    | 4.8    | 5.9    | 7.1    | 7.1    | 9.5    | 32.1   | 58.3   |
| 47.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.9    | 7.1    | 21.4   | 30.9   |
| 50°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 16.7   | 21.4   |
| 52.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 7.1    | 19.0   |
| 55°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    | 4.8    | 16.7   |
| 57.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 2.4    | 2.4    | 3.6    | 3.6    | 15.5   |
| 60°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 14.3   |
| 62.5° | 3.6    | 3.6    | 2.4    | 3.6    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 9.5    |
| 65°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 3.6    |
| 67.5° | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 3.6    | 2.4    | 3.6    | 3.6    | 2.4    | 2.4    |
| 70°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 2.4    | 2.4    | 2.4    |
| 72.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 2.4    | 2.4    | 2.4    |
| 75°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 2.4    | 2.4    | 2.4    |
| 77.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.9    | 7.1    | 5.9    | 5.9    | 2.4    |
| 80°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.9    | 5.9    | 5.9    | 5.9    | 8.3    |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    | 4.8    | 5.9    |
| 85°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    | 3.6    | 4.8    |
| 87.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 3.6    | 3.6    | 3.6    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 140°   | 145°   | 150°   | 155°   | 160°   | 161°   | 162°   | 163°   | 164°   | 165°   | 166°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 4056.4 | 4016.0 | 4002.9 | 3975.6 | 3973.2 | 3975.6 | 3969.6 | 3961.3 | 3966.0 | 3957.7 | 3950.6 |
| 5°    | 4510.9 | 4402.6 | 4332.4 | 4238.4 | 4108.8 | 4080.2 | 4073.1 | 4032.7 | 4018.4 | 4013.6 | 3994.6 |
| 7.5°  | 4143.3 | 4340.8 | 4459.7 | 4500.2 | 4347.9 | 4312.2 | 4270.6 | 4237.3 | 4205.1 | 4144.5 | 4107.6 |
| 10°   | 3980.3 | 3989.8 | 4104.0 | 4237.3 | 4453.8 | 4483.5 | 4506.1 | 4433.5 | 4413.3 | 4258.7 | 4225.4 |
| 12.5° | 3942.2 | 3943.4 | 3956.5 | 4037.4 | 4207.5 | 4226.6 | 4306.3 | 4349.1 | 4401.4 | 4431.2 | 4407.4 |
| 15°   | 3768.6 | 3864.9 | 3936.3 | 3943.4 | 3958.9 | 3992.2 | 4016.0 | 4164.7 | 4227.7 | 4396.7 | 4387.1 |
| 17.5° | 3687.7 | 3718.6 | 3822.1 | 3906.6 | 3892.3 | 3880.4 | 3899.4 | 3919.6 | 3980.3 | 4149.2 | 4146.9 |
| 20°   | 3553.3 | 3652.0 | 3707.9 | 3795.9 | 3875.6 | 3879.2 | 3857.8 | 3845.9 | 3822.1 | 3849.5 | 3874.4 |
| 22.5° | 3496.2 | 3511.6 | 3616.3 | 3678.2 | 3768.6 | 3800.7 | 3805.4 | 3806.6 | 3793.5 | 3779.3 | 3772.1 |
| 25°   | 3490.2 | 3441.4 | 3495.0 | 3572.3 | 3638.9 | 3673.4 | 3712.7 | 3725.7 | 3721.0 | 3721.0 | 3713.8 |
| 27.5° | 2856.2 | 3426.0 | 3397.4 | 3448.6 | 3529.5 | 3553.3 | 3573.5 | 3613.9 | 3638.9 | 3656.7 | 3665.1 |
| 30°   | 2720.6 | 2822.9 | 3321.3 | 3328.4 | 3410.5 | 3408.1 | 3430.7 | 3464.0 | 3496.2 | 3537.8 | 3548.5 |
| 32.5° | 2406.5 | 2657.5 | 3040.5 | 3208.3 | 3293.9 | 3302.3 | 3314.1 | 3323.7 | 3353.4 | 3399.8 | 3440.2 |
| 35°   | 1928.3 | 2420.8 | 2605.2 | 3151.2 | 3166.6 | 3183.3 | 3190.4 | 3213.0 | 3222.6 | 3241.6 | 3277.3 |
| 37.5° | 1745.1 | 2000.9 | 2499.3 | 2725.3 | 3020.3 | 3034.6 | 3072.7 | 3082.2 | 3097.6 | 3113.1 | 3140.5 |
| 40°   | 1639.2 | 1709.4 | 2080.6 | 2433.9 | 2902.6 | 2912.1 | 2925.2 | 2949.0 | 2950.1 | 2968.0 | 2993.0 |
| 42.5° | 1554.8 | 1600.0 | 1708.2 | 2324.4 | 2819.3 | 2818.1 | 2787.2 | 2802.6 | 2809.8 | 2828.8 | 2863.3 |
| 45°   | 1241.9 | 1501.2 | 1570.2 | 1898.6 | 2244.7 | 2406.5 | 2717.0 | 2665.8 | 2664.6 | 2671.8 | 2708.7 |
| 47.5° | 63.0   | 1412.0 | 1460.8 | 1566.7 | 2119.8 | 2125.8 | 2166.2 | 2506.4 | 2558.8 | 2542.1 | 2545.7 |
| 50°   | 42.8   | 97.5   | 1360.9 | 1409.6 | 1827.2 | 1974.7 | 2004.4 | 2019.9 | 2216.2 | 2435.1 | 2399.4 |
| 52.5° | 33.3   | 55.9   | 833.9  | 1308.5 | 1484.6 | 1592.8 | 1784.4 | 1893.8 | 1905.7 | 1993.7 | 2292.3 |
| 55°   | 29.7   | 42.8   | 90.4   | 1207.4 | 1262.1 | 1285.9 | 1397.7 | 1589.3 | 1743.9 | 1790.3 | 1793.9 |
| 57.5° | 26.2   | 39.3   | 61.9   | 546.0  | 1147.9 | 1152.7 | 1171.7 | 1238.3 | 1377.5 | 1504.8 | 1648.7 |
| 60°   | 23.8   | 34.5   | 48.8   | 94.0   | 1043.3 | 1055.2 | 1058.7 | 1076.6 | 1093.2 | 1180.1 | 1345.4 |
| 62.5° | 14.3   | 27.4   | 42.8   | 67.8   | 825.6  | 948.1  | 946.9  | 958.8  | 974.3  | 983.8  | 1017.1 |
| 65°   | 11.9   | 21.4   | 36.9   | 57.1   | 101.1  | 126.1  | 766.1  | 851.7  | 861.3  | 874.3  | 880.3  |
| 67.5° | 10.7   | 19.0   | 27.4   | 45.2   | 76.1   | 86.8   | 99.9   | 123.7  | 675.7  | 761.3  | 773.2  |
| 70°   | 9.5    | 13.1   | 22.6   | 38.1   | 61.9   | 66.6   | 74.9   | 85.6   | 101.1  | 124.9  | 611.4  |
| 72.5° | 5.9    | 9.5    | 15.5   | 27.4   | 47.6   | 53.5   | 58.3   | 65.4   | 72.6   | 86.8   | 99.9   |
| 75°   | 2.4    | 7.1    | 13.1   | 20.2   | 36.9   | 40.4   | 44.0   | 48.8   | 54.7   | 64.2   | 71.4   |
| 77.5° | 2.4    | 5.9    | 10.7   | 14.3   | 23.8   | 27.4   | 32.1   | 35.7   | 40.4   | 45.2   | 52.3   |
| 80°   | 8.3    | 4.8    | 7.1    | 10.7   | 16.7   | 17.8   | 20.2   | 22.6   | 26.2   | 29.7   | 34.5   |
| 82.5° | 5.9    | 7.1    | 8.3    | 7.1    | 8.3    | 10.7   | 11.9   | 14.3   | 15.5   | 17.8   | 19.0   |
| 85°   | 4.8    | 4.8    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 7.1    | 8.3    | 10.7   |
| 87.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 167°   | 168°   | 169°   | 170°   | 171°   | 172°   | 173°   | 174°   | 175°   | 176°   | 177°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3950.6 | 3948.2 | 3941.1 | 3941.1 | 3939.9 | 3944.6 | 3948.2 | 3951.8 | 3950.6 | 3957.7 | 3950.6 |
| 5°    | 3980.3 | 3974.4 | 3963.7 | 3954.1 | 3950.6 | 3953.0 | 3949.4 | 3953.0 | 3948.2 | 3954.1 | 3943.4 |
| 7.5°  | 4062.4 | 4042.2 | 4000.5 | 3983.9 | 3962.5 | 3961.3 | 3950.6 | 3948.2 | 3941.1 | 3941.1 | 3928.0 |
| 10°   | 4207.5 | 4110.0 | 4098.1 | 4048.1 | 4030.3 | 3943.4 | 3962.5 | 3930.3 | 3926.8 | 3911.3 | 3905.4 |
| 12.5° | 4326.5 | 4250.3 | 4227.7 | 4183.7 | 4133.8 | 3957.7 | 3997.0 | 3928.0 | 3924.4 | 3893.5 | 3861.4 |
| 15°   | 4328.9 | 4372.9 | 4311.0 | 4189.7 | 4179.0 | 4057.6 | 3977.9 | 3954.1 | 3923.2 | 3830.4 | 3845.9 |
| 17.5° | 4189.7 | 4290.8 | 4320.5 | 4294.4 | 4218.2 | 4136.1 | 4024.3 | 3976.7 | 3884.0 | 3842.3 | 3813.8 |
| 20°   | 3963.7 | 4066.0 | 4193.2 | 4201.6 | 4249.2 | 4190.9 | 4044.5 | 3967.2 | 3855.4 | 3782.8 | 3759.1 |
| 22.5° | 3784.0 | 3859.0 | 4005.3 | 4073.1 | 4131.4 | 4151.6 | 4058.8 | 3944.6 | 3805.4 | 3735.3 | 3721.0 |
| 25°   | 3688.9 | 3705.5 | 3749.5 | 3829.2 | 3957.7 | 4050.5 | 4063.6 | 3942.2 | 3869.7 | 3716.2 | 3635.3 |
| 27.5° | 3654.4 | 3640.1 | 3622.2 | 3662.7 | 3759.1 | 3872.1 | 3947.0 | 3967.2 | 3786.4 | 3640.1 | 3559.2 |
| 30°   | 3566.3 | 3574.7 | 3547.3 | 3533.0 | 3596.1 | 3712.7 | 3845.9 | 3879.2 | 3740.0 | 3588.9 | 3496.2 |
| 32.5° | 3458.1 | 3472.4 | 3477.1 | 3452.1 | 3439.1 | 3519.9 | 3663.9 | 3743.6 | 3736.4 | 3516.4 | 3412.9 |
| 35°   | 3322.5 | 3362.9 | 3373.6 | 3374.8 | 3353.4 | 3340.3 | 3423.6 | 3588.9 | 3652.0 | 3483.1 | 3333.2 |
| 37.5° | 3179.7 | 3191.6 | 3249.9 | 3265.4 | 3265.4 | 3226.1 | 3288.0 | 3420.0 | 3508.1 | 3408.1 | 3235.6 |
| 40°   | 3001.3 | 3039.4 | 3094.1 | 3121.4 | 3148.8 | 3152.4 | 3117.9 | 3210.7 | 3355.8 | 3330.8 | 3144.0 |
| 42.5° | 2871.6 | 2896.6 | 2929.9 | 2966.8 | 3022.7 | 3037.0 | 3001.3 | 3017.9 | 3169.0 | 3234.4 | 3025.1 |
| 45°   | 2720.6 | 2753.9 | 2763.4 | 2803.8 | 2862.1 | 2903.7 | 2902.6 | 2868.1 | 2989.4 | 3070.3 | 2938.2 |
| 47.5° | 2565.9 | 2598.0 | 2614.7 | 2634.9 | 2677.7 | 2731.3 | 2761.0 | 2745.5 | 2769.3 | 2927.5 | 2822.9 |
| 50°   | 2406.5 | 2424.3 | 2457.7 | 2480.3 | 2508.8 | 2539.7 | 2611.1 | 2625.4 | 2592.1 | 2718.2 | 2695.6 |
| 52.5° | 2255.4 | 2261.4 | 2284.0 | 2306.6 | 2344.6 | 2367.2 | 2424.3 | 2467.2 | 2464.8 | 2501.7 | 2554.0 |
| 55°   | 2137.7 | 2111.5 | 2116.3 | 2134.1 | 2159.1 | 2193.6 | 2225.7 | 2292.3 | 2314.9 | 2322.0 | 2405.3 |
| 57.5° | 1670.2 | 1939.0 | 1962.8 | 1961.6 | 1991.3 | 2006.8 | 2036.5 | 2080.6 | 2161.5 | 2143.6 | 2236.4 |
| 60°   | 1517.9 | 1547.6 | 1772.5 | 1798.6 | 1809.3 | 1823.6 | 1859.3 | 1899.7 | 1959.2 | 1997.3 | 2037.7 |
| 62.5° | 1157.5 | 1338.3 | 1406.1 | 1604.7 | 1635.7 | 1644.0 | 1667.8 | 1686.8 | 1748.7 | 1835.5 | 1818.9 |
| 65°   | 895.7  | 973.1  | 1180.1 | 1260.9 | 1429.9 | 1451.3 | 1484.6 | 1504.8 | 1522.7 | 1622.6 | 1627.3 |
| 67.5° | 774.4  | 786.3  | 842.2  | 998.1  | 1105.1 | 1270.5 | 1290.7 | 1308.5 | 1335.9 | 1407.3 | 1451.3 |
| 70°   | 661.4  | 675.7  | 691.1  | 704.2  | 843.4  | 952.8  | 1106.3 | 1112.3 | 1130.1 | 1177.7 | 1277.6 |
| 72.5° | 124.9  | 565.0  | 574.6  | 582.9  | 598.4  | 670.9  | 817.2  | 936.2  | 943.3  | 965.9  | 1057.5 |
| 75°   | 84.5   | 98.7   | 135.6  | 466.3  | 481.8  | 486.5  | 511.5  | 660.2  | 769.7  | 774.4  | 814.9  |
| 77.5° | 60.7   | 67.8   | 82.1   | 97.5   | 248.6  | 373.5  | 379.5  | 406.8  | 519.8  | 601.9  | 609.1  |
| 80°   | 41.6   | 46.4   | 54.7   | 61.9   | 76.1   | 99.9   | 276.0  | 284.3  | 298.6  | 411.6  | 433.0  |
| 82.5° | 23.8   | 27.4   | 32.1   | 39.3   | 45.2   | 57.1   | 73.8   | 95.2   | 193.9  | 207.0  | 274.8  |
| 85°   | 11.9   | 13.1   | 15.5   | 19.0   | 22.6   | 27.4   | 36.9   | 45.2   | 61.9   | 111.8  | 115.4  |
| 87.5° | 5.9    | 5.9    | 5.9    | 5.9    | 9.5    | 10.7   | 13.1   | 16.7   | 21.4   | 32.1   | 41.6   |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 178°   | 179°   | 180°   | 181°   | 182°   | 183°   | 184°   | 185°   | 186°   | 187°   | 188°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3951.8 | 3968.4 | 3982.7 | 3986.3 | 3986.3 | 3988.6 | 3992.2 | 3994.6 | 3997.0 | 3999.3 | 3997.0 |
| 5°    | 3944.6 | 3962.5 | 3974.4 | 3977.9 | 3977.9 | 3985.1 | 3991.0 | 3998.2 | 4001.7 | 4001.7 | 3999.3 |
| 7.5°  | 3926.8 | 3939.9 | 3955.3 | 3964.8 | 3966.0 | 3977.9 | 3988.6 | 3987.4 | 3992.2 | 3994.6 | 4000.5 |
| 10°   | 3903.0 | 3903.0 | 3929.2 | 3936.3 | 3942.2 | 3955.3 | 3958.9 | 3966.0 | 3982.7 | 3985.1 | 4000.5 |
| 12.5° | 3891.1 | 3879.2 | 3910.1 | 3913.7 | 3933.9 | 3917.3 | 3938.7 | 3945.8 | 3929.2 | 3951.8 | 3922.0 |
| 15°   | 3837.6 | 3851.8 | 3847.1 | 3857.8 | 3893.5 | 3874.4 | 3932.7 | 3913.7 | 3956.5 | 3905.4 | 3995.8 |
| 17.5° | 3793.5 | 3791.2 | 3810.2 | 3819.7 | 3826.9 | 3867.3 | 3882.8 | 3904.2 | 3920.8 | 3906.6 | 3942.2 |
| 20°   | 3761.4 | 3742.4 | 3756.7 | 3767.4 | 3792.4 | 3823.3 | 3832.8 | 3800.7 | 3856.6 | 3951.8 | 3974.4 |
| 22.5° | 3700.8 | 3687.7 | 3704.3 | 3704.3 | 3742.4 | 3737.6 | 3773.3 | 3753.1 | 3805.4 | 3916.1 | 4031.5 |
| 25°   | 3618.7 | 3619.9 | 3637.7 | 3659.1 | 3666.3 | 3719.8 | 3738.8 | 3765.0 | 3830.4 | 3962.5 | 4032.7 |
| 27.5° | 3535.4 | 3528.3 | 3539.0 | 3583.0 | 3619.9 | 3659.1 | 3665.1 | 3754.3 | 3843.5 | 3933.9 | 3995.8 |
| 30°   | 3452.1 | 3445.0 | 3452.1 | 3484.3 | 3528.3 | 3554.4 | 3619.9 | 3738.8 | 3822.1 | 3884.0 | 3942.2 |
| 32.5° | 3362.9 | 3355.8 | 3372.4 | 3396.2 | 3473.6 | 3477.1 | 3606.8 | 3718.6 | 3784.0 | 3829.2 | 3818.5 |
| 35°   | 3267.8 | 3258.2 | 3273.7 | 3310.6 | 3382.0 | 3408.1 | 3543.7 | 3627.0 | 3700.8 | 3722.2 | 3672.2 |
| 37.5° | 3153.6 | 3136.9 | 3155.9 | 3207.1 | 3282.0 | 3358.2 | 3471.2 | 3567.5 | 3606.8 | 3549.7 | 3490.2 |
| 40°   | 3034.6 | 3022.7 | 3056.0 | 3082.2 | 3170.2 | 3276.1 | 3405.7 | 3473.6 | 3448.6 | 3383.1 | 3317.7 |
| 42.5° | 2928.7 | 2903.7 | 2933.5 | 2983.4 | 3083.4 | 3203.5 | 3308.2 | 3346.3 | 3286.8 | 3190.4 | 3114.3 |
| 45°   | 2799.1 | 2769.3 | 2805.0 | 2871.6 | 2978.7 | 3115.5 | 3197.6 | 3184.5 | 3083.4 | 3000.1 | 2895.4 |
| 47.5° | 2663.5 | 2627.8 | 2663.5 | 2743.2 | 2863.3 | 3008.4 | 3067.9 | 3008.4 | 2881.1 | 2776.5 | 2692.0 |
| 50°   | 2530.2 | 2488.6 | 2523.1 | 2643.2 | 2761.0 | 2872.8 | 2871.6 | 2756.2 | 2680.1 | 2565.9 | 2492.2 |
| 52.5° | 2398.2 | 2338.7 | 2373.2 | 2504.1 | 2621.8 | 2749.1 | 2655.1 | 2548.1 | 2456.5 | 2356.5 | 2332.8 |
| 55°   | 2235.2 | 2171.0 | 2217.4 | 2407.7 | 2498.1 | 2573.0 | 2423.2 | 2329.2 | 2238.8 | 2188.8 | 2159.1 |
| 57.5° | 2080.6 | 2010.4 | 2050.8 | 2275.7 | 2342.3 | 2361.3 | 2223.3 | 2090.1 | 2036.5 | 2019.9 | 1977.1 |
| 60°   | 1921.2 | 1841.5 | 1879.5 | 2138.9 | 2185.2 | 2107.9 | 1972.3 | 1868.8 | 1858.1 | 1824.8 | 1791.5 |
| 62.5° | 1768.9 | 1680.9 | 1704.7 | 1968.7 | 1990.2 | 1849.8 | 1724.9 | 1697.5 | 1671.3 | 1638.0 | 1620.2 |
| 65°   | 1594.0 | 1502.4 | 1535.7 | 1787.9 | 1767.7 | 1586.9 | 1516.7 | 1510.8 | 1476.3 | 1448.9 | 1475.1 |
| 67.5° | 1433.4 | 1325.2 | 1371.6 | 1590.5 | 1498.9 | 1351.4 | 1322.8 | 1308.5 | 1281.2 | 1296.6 | 1021.8 |
| 70°   | 1257.4 | 1139.6 | 1202.7 | 1377.5 | 1241.9 | 1144.4 | 1133.7 | 1112.3 | 1113.4 | 885.0  | 745.9  |
| 72.5° | 1061.1 | 958.8  | 1050.4 | 1144.4 | 982.6  | 954.0  | 938.6  | 936.2  | 755.4  | 613.8  | 579.3  |
| 75°   | 888.6  | 785.1  | 883.9  | 919.5  | 782.7  | 763.7  | 762.5  | 630.5  | 496.1  | 473.4  | 462.7  |
| 77.5° | 693.5  | 613.8  | 707.8  | 654.3  | 600.7  | 579.3  | 519.8  | 390.2  | 373.5  | 358.1  | 134.4  |
| 80°   | 467.5  | 473.4  | 528.2  | 450.8  | 428.2  | 365.2  | 287.9  | 276.0  | 237.9  | 95.2   | 74.9   |
| 82.5° | 284.3  | 356.9  | 336.6  | 281.9  | 276.0  | 198.7  | 182.0  | 92.8   | 69.0   | 54.7   | 47.6   |
| 85°   | 147.5  | 180.8  | 173.7  | 153.5  | 114.2  | 102.3  | 57.1   | 44.0   | 35.7   | 27.4   | 22.6   |
| 87.5° | 50.0   | 66.6   | 64.2   | 51.2   | 39.3   | 30.9   | 20.2   | 16.7   | 11.9   | 9.5    | 8.3    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 189°   | 190°   | 191°   | 192°   | 193°   | 194°   | 195°   | 196°   | 197°   | 198°   | 199°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3994.6 | 3994.6 | 3992.2 | 3994.6 | 3995.8 | 3993.4 | 3993.4 | 3995.8 | 3997.0 | 3998.2 | 4004.1 |
| 5°    | 4000.5 | 4002.9 | 4006.5 | 4013.6 | 4014.8 | 4029.1 | 4035.0 | 4038.6 | 4042.2 | 4043.4 | 4035.0 |
| 7.5°  | 4013.6 | 4021.9 | 4029.1 | 4027.9 | 4019.6 | 3997.0 | 3989.8 | 3983.9 | 3994.6 | 4021.9 | 4054.1 |
| 10°   | 4025.5 | 3987.4 | 3916.1 | 4013.6 | 3983.9 | 4011.2 | 4092.1 | 4110.0 | 4164.7 | 4242.0 | 4264.6 |
| 12.5° | 3943.4 | 4048.1 | 4070.7 | 3961.3 | 4163.5 | 4088.6 | 4177.8 | 4256.3 | 4278.9 | 4357.4 | 4309.8 |
| 15°   | 4031.5 | 4082.6 | 4117.1 | 4226.6 | 4214.7 | 4278.9 | 4303.9 | 4288.4 | 4292.0 | 4312.2 | 4365.7 |
| 17.5° | 4030.3 | 4132.6 | 4155.2 | 4228.9 | 4278.9 | 4280.1 | 4272.9 | 4265.8 | 4284.8 | 4300.3 | 4268.2 |
| 20°   | 4099.3 | 4132.6 | 4176.6 | 4206.3 | 4215.8 | 4227.7 | 4250.3 | 4232.5 | 4196.8 | 4162.3 | 4148.0 |
| 22.5° | 4064.8 | 4139.7 | 4177.8 | 4182.5 | 4176.6 | 4139.7 | 4106.4 | 4056.4 | 4039.8 | 4021.9 | 4027.9 |
| 25°   | 4071.9 | 4106.4 | 4101.6 | 4082.6 | 4057.6 | 3988.6 | 3972.0 | 3950.6 | 3918.5 | 3841.1 | 3770.9 |
| 27.5° | 4020.8 | 4002.9 | 3981.5 | 3935.1 | 3889.9 | 3853.0 | 3811.4 | 3742.4 | 3685.3 | 3602.0 | 3571.1 |
| 30°   | 3935.1 | 3863.7 | 3811.4 | 3784.0 | 3740.0 | 3678.2 | 3615.1 | 3530.7 | 3458.1 | 3441.4 | 3426.0 |
| 32.5° | 3770.9 | 3700.8 | 3657.9 | 3591.3 | 3516.4 | 3442.6 | 3370.1 | 3336.8 | 3321.3 | 3323.7 | 3309.4 |
| 35°   | 3603.2 | 3541.4 | 3477.1 | 3377.2 | 3321.3 | 3247.5 | 3221.4 | 3214.2 | 3200.0 | 3184.5 | 3167.8 |
| 37.5° | 3424.8 | 3352.2 | 3255.9 | 3196.4 | 3140.5 | 3110.7 | 3097.6 | 3086.9 | 3062.0 | 3034.6 | 3015.6 |
| 40°   | 3252.3 | 3121.4 | 3067.9 | 3009.6 | 2993.0 | 2979.9 | 2960.8 | 2934.7 | 2900.2 | 2895.4 | 2887.1 |
| 42.5° | 3021.5 | 2927.5 | 2881.1 | 2869.2 | 2849.0 | 2826.4 | 2809.8 | 2781.2 | 2766.9 | 2776.5 | 2783.6 |
| 45°   | 2802.6 | 2755.1 | 2739.6 | 2725.3 | 2687.2 | 2655.1 | 2644.4 | 2634.9 | 2646.8 | 2699.1 | 2574.2 |
| 47.5° | 2625.4 | 2606.4 | 2587.3 | 2563.5 | 2527.8 | 2504.1 | 2514.8 | 2524.3 | 2535.0 | 2150.7 | 1962.8 |
| 50°   | 2471.9 | 2445.8 | 2416.0 | 2389.9 | 2368.4 | 2366.1 | 2422.0 | 2254.2 | 1887.9 | 1878.3 | 1688.0 |
| 52.5° | 2304.2 | 2264.9 | 2247.1 | 2231.6 | 2241.2 | 2276.8 | 1884.3 | 1748.7 | 1677.3 | 1457.2 | 1359.7 |
| 55°   | 2123.4 | 2088.9 | 2088.9 | 2103.2 | 2052.0 | 1663.0 | 1642.8 | 1420.3 | 1285.9 | 1247.9 | 1232.4 |
| 57.5° | 1942.6 | 1939.0 | 1959.2 | 1791.5 | 1509.6 | 1447.7 | 1216.9 | 1168.2 | 1146.7 | 1142.0 | 1117.0 |
| 60°   | 1777.2 | 1810.5 | 1515.5 | 1394.2 | 1212.2 | 1093.2 | 1059.9 | 1054.0 | 1031.4 | 1023.0 | 1000.4 |
| 62.5° | 1645.2 | 1364.4 | 1270.5 | 1037.3 | 976.6  | 961.2  | 943.3  | 935.0  | 914.8  | 807.7  | 236.7  |
| 65°   | 1188.4 | 1123.0 | 911.2  | 872.0  | 867.2  | 844.6  | 837.5  | 753.0  | 177.2  | 119.0  | 101.1  |
| 67.5° | 896.9  | 795.8  | 768.5  | 761.3  | 738.7  | 693.5  | 205.8  | 117.8  | 101.1  | 88.0   | 77.3   |
| 70°   | 688.8  | 670.9  | 650.7  | 634.0  | 186.8  | 116.6  | 101.1  | 85.6   | 73.8   | 65.4   | 59.5   |
| 72.5° | 563.9  | 552.0  | 321.2  | 122.5  | 99.9   | 84.5   | 74.9   | 65.4   | 57.1   | 52.3   | 47.6   |
| 75°   | 441.3  | 122.5  | 101.1  | 84.5   | 72.6   | 61.9   | 54.7   | 48.8   | 44.0   | 40.4   | 36.9   |
| 77.5° | 99.9   | 80.9   | 69.0   | 58.3   | 52.3   | 46.4   | 41.6   | 35.7   | 32.1   | 28.5   | 23.8   |
| 80°   | 61.9   | 53.5   | 45.2   | 41.6   | 35.7   | 29.7   | 26.2   | 23.8   | 19.0   | 17.8   | 15.5   |
| 82.5° | 40.4   | 32.1   | 28.5   | 23.8   | 19.0   | 17.8   | 15.5   | 11.9   | 10.7   | 9.5    | 8.3    |
| 85°   | 17.8   | 15.5   | 13.1   | 10.7   | 8.3    | 7.1    | 5.9    | 4.8    | 4.8    | 4.8    | 4.8    |
| 87.5° | 5.9    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 2.4    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 4006.5 | 4027.9 | 4048.1 | 4042.2 | 4020.8 | 3987.4 | 3977.9 | 3964.8 | 3974.4 | 3994.6 | 4002.9 |
| 5°    | 4035.0 | 4023.1 | 4066.0 | 4129.0 | 4231.3 | 4240.8 | 4312.2 | 4328.9 | 4386.0 | 4421.6 | 4420.5 |
| 7.5°  | 4075.5 | 4244.4 | 4314.6 | 4390.7 | 4425.2 | 4416.9 | 4427.6 | 4419.3 | 4406.2 | 4400.2 | 4393.1 |
| 10°   | 4281.3 | 4409.7 | 4435.9 | 4435.9 | 4382.4 | 4309.8 | 4278.9 | 4225.4 | 4118.3 | 4120.7 | 4102.8 |
| 12.5° | 4401.4 | 4446.6 | 4384.8 | 4332.4 | 4117.1 | 4033.8 | 3943.4 | 3900.6 | 3875.6 | 3837.6 | 3851.8 |
| 15°   | 4338.4 | 4274.1 | 4237.3 | 4068.3 | 3936.3 | 3786.4 | 3788.8 | 3762.6 | 3735.3 | 3737.6 | 3719.8 |
| 17.5° | 4245.6 | 4194.4 | 3932.7 | 3816.1 | 3751.9 | 3693.6 | 3682.9 | 3648.4 | 3630.6 | 3624.6 | 3623.4 |
| 20°   | 4118.3 | 3933.9 | 3738.8 | 3710.3 | 3633.0 | 3566.3 | 3555.6 | 3566.3 | 3621.1 | 3523.5 | 3192.8 |
| 22.5° | 3969.6 | 3704.3 | 3647.2 | 3566.3 | 3514.0 | 3487.8 | 3553.3 | 3255.9 | 2806.2 | 2860.9 | 2802.6 |
| 25°   | 3717.4 | 3602.0 | 3504.5 | 3442.6 | 3436.7 | 3276.1 | 2730.1 | 2673.0 | 2383.9 | 2229.3 | 2055.6 |
| 27.5° | 3533.0 | 3483.1 | 3380.8 | 3370.1 | 3292.7 | 2678.9 | 2394.6 | 2080.6 | 1965.2 | 1947.3 | 1909.3 |
| 30°   | 3421.2 | 3349.8 | 3288.0 | 3017.9 | 2627.8 | 2156.7 | 1921.2 | 1877.1 | 1856.9 | 1835.5 | 1802.2 |
| 32.5° | 3286.8 | 3219.0 | 3248.7 | 2537.4 | 2094.8 | 1856.9 | 1809.3 | 1777.2 | 1740.3 | 1726.1 | 1605.9 |
| 35°   | 3150.0 | 3119.1 | 2538.5 | 2132.9 | 1801.0 | 1743.9 | 1708.2 | 1674.9 | 1332.3 | 322.4  | 109.4  |
| 37.5° | 3003.7 | 2996.5 | 2281.6 | 1770.1 | 1686.8 | 1633.3 | 1532.2 | 316.4  | 74.9   | 51.2   | 38.1   |
| 40°   | 2889.5 | 2282.8 | 1803.4 | 1659.5 | 1591.6 | 1507.2 | 211.7  | 52.3   | 33.3   | 20.2   | 13.1   |
| 42.5° | 2813.3 | 2053.2 | 1614.3 | 1557.2 | 1409.6 | 155.8  | 53.5   | 22.6   | 13.1   | 10.7   | 8.3    |
| 45°   | 2168.6 | 1621.4 | 1508.4 | 1448.9 | 178.4  | 53.5   | 30.9   | 10.7   | 8.3    | 7.1    | 4.8    |
| 47.5° | 2000.9 | 1472.7 | 1406.1 | 316.4  | 59.5   | 28.5   | 21.4   | 7.1    | 4.8    | 4.8    | 4.8    |
| 50°   | 1515.5 | 1360.9 | 1119.4 | 77.3   | 38.1   | 20.2   | 15.5   | 4.8    | 4.8    | 4.8    | 3.6    |
| 52.5° | 1328.8 | 1256.2 | 120.1  | 51.2   | 29.7   | 15.5   | 9.5    | 3.6    | 3.6    | 3.6    | 3.6    |
| 55°   | 1214.6 | 797.0  | 71.4   | 39.3   | 25.0   | 14.3   | 5.9    | 3.6    | 3.6    | 3.6    | 2.4    |
| 57.5° | 1111.1 | 107.1  | 52.3   | 33.3   | 22.6   | 13.1   | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    |
| 60°   | 942.1  | 77.3   | 42.8   | 29.7   | 21.4   | 11.9   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 62.5° | 122.5  | 60.7   | 36.9   | 26.2   | 15.5   | 9.5    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 65°   | 89.2   | 47.6   | 33.3   | 17.8   | 9.5    | 3.6    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 67.5° | 69.0   | 39.3   | 25.0   | 15.5   | 8.3    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 70°   | 54.7   | 33.3   | 20.2   | 13.1   | 7.1    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 72.5° | 42.8   | 23.8   | 14.3   | 7.1    | 4.8    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 75°   | 32.1   | 19.0   | 10.7   | 5.9    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 77.5° | 21.4   | 11.9   | 8.3    | 4.8    | 4.8    | 4.8    | 5.9    | 5.9    | 3.6    | 3.6    | 3.6    |
| 80°   | 14.3   | 8.3    | 5.9    | 5.9    | 5.9    | 4.8    | 5.9    | 5.9    | 3.6    | 5.9    | 3.6    |
| 82.5° | 7.1    | 5.9    | 5.9    | 4.8    | 4.8    | 3.6    | 4.8    | 4.8    | 4.8    | 4.8    | 3.6    |
| 85°   | 4.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 3.6    |
| 87.5° | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 3.6    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3992.2 | 3995.8 | 3986.3 | 4037.4 | 4011.2 | 4013.6 | 4024.3 | 3997.0 | 4002.9 | 3983.9 | 3970.8 |
| 5°    | 4425.2 | 4432.3 | 4439.5 | 4441.9 | 4446.6 | 4452.6 | 4445.4 | 4441.9 | 4434.7 | 4410.9 | 4386.0 |
| 7.5°  | 4357.4 | 4349.1 | 4345.5 | 4350.3 | 4358.6 | 4362.2 | 4356.2 | 4364.5 | 4395.5 | 4408.6 | 4416.9 |
| 10°   | 4000.5 | 3962.5 | 3988.6 | 3985.1 | 3955.3 | 4055.3 | 4027.9 | 4043.4 | 4054.1 | 4163.5 | 4230.1 |
| 12.5° | 3830.4 | 3854.2 | 3809.0 | 3786.4 | 3816.1 | 3836.4 | 3856.6 | 3813.8 | 3873.2 | 3845.9 | 3933.9 |
| 15°   | 3687.7 | 3673.4 | 3668.6 | 3669.8 | 3663.9 | 3692.4 | 3699.6 | 3709.1 | 3717.4 | 3754.3 | 3768.6 |
| 17.5° | 3623.4 | 3647.2 | 3656.7 | 3663.9 | 3652.0 | 3638.9 | 3625.8 | 3606.8 | 3612.7 | 3603.2 | 3630.6 |
| 20°   | 2970.4 | 2890.7 | 2885.9 | 2932.3 | 2881.1 | 2909.7 | 2978.7 | 3440.2 | 3424.8 | 3604.4 | 3543.7 |
| 22.5° | 2479.1 | 2404.1 | 2339.9 | 2284.0 | 2363.7 | 2397.0 | 2525.5 | 2670.6 | 2906.1 | 2869.2 | 3125.0 |
| 25°   | 2024.7 | 1997.3 | 1980.6 | 1972.3 | 1978.3 | 1975.9 | 2004.4 | 2072.2 | 2179.3 | 2431.5 | 2757.4 |
| 27.5° | 1893.8 | 1880.7 | 1874.8 | 1855.7 | 1870.0 | 1865.3 | 1887.9 | 1902.1 | 1934.2 | 1959.2 | 2065.1 |
| 30°   | 1790.3 | 1774.8 | 1764.1 | 1743.9 | 1758.2 | 1759.4 | 1766.5 | 1803.4 | 1816.5 | 1837.9 | 1871.2 |
| 32.5° | 654.3  | 385.4  | 361.6  | 343.8  | 375.9  | 490.1  | 860.1  | 1503.6 | 1715.4 | 1732.0 | 1770.1 |
| 35°   | 64.2   | 53.5   | 47.6   | 47.6   | 48.8   | 53.5   | 71.4   | 188.0  | 343.8  | 1328.8 | 1663.0 |
| 37.5° | 25.0   | 21.4   | 17.8   | 16.7   | 17.8   | 20.2   | 27.4   | 35.7   | 48.8   | 101.1  | 450.8  |
| 40°   | 10.7   | 9.5    | 8.3    | 8.3    | 8.3    | 8.3    | 9.5    | 11.9   | 17.8   | 33.3   | 52.3   |
| 42.5° | 7.1    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 8.3    | 10.7   | 21.4   |
| 45°   | 4.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 5.9    | 9.5    |
| 47.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    |
| 50°   | 3.6    | 3.6    | 3.6    | 3.6    | 2.4    | 3.6    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    |
| 52.5° | 3.6    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    |
| 55°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    |
| 57.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 60°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 62.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 3.6    | 2.4    |
| 65°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6    | 2.4    |
| 67.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 70°   | 3.6    | 3.6    | 2.4    | 3.6    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 2.4    | 2.4    |
| 72.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 7.1    | 7.1    | 4.8    |
| 75°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.9    | 7.1    | 5.9    |
| 77.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.9    | 5.9    | 5.9    |
| 80°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    |
| 85°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 87.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 340°   | 341°   | 342°   | 343°   | 344°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3948.2 | 3947.0 | 3972.0 | 3991.0 | 3983.9 | 3991.0 | 3999.3 | 4000.5 | 4002.9 | 3993.4 | 3989.8 |
| 5°    | 4338.4 | 4301.5 | 4230.1 | 4179.0 | 4119.5 | 4011.2 | 3957.7 | 3963.7 | 3964.8 | 3961.3 | 3966.0 |
| 7.5°  | 4413.3 | 4409.7 | 4384.8 | 4374.1 | 4333.6 | 4256.3 | 4132.6 | 4111.2 | 4058.8 | 4025.5 | 3998.2 |
| 10°   | 4225.4 | 4311.0 | 4333.6 | 4371.7 | 4395.5 | 4381.2 | 4276.5 | 4261.0 | 4227.7 | 4189.7 | 4198.0 |
| 12.5° | 4021.9 | 4092.1 | 4095.7 | 4302.7 | 4349.1 | 4353.8 | 4313.4 | 4334.8 | 4339.6 | 4253.9 | 4204.0 |
| 15°   | 3772.1 | 3805.4 | 3875.6 | 4068.3 | 4208.7 | 4296.7 | 4322.9 | 4334.8 | 4276.5 | 4272.9 | 4252.7 |
| 17.5° | 3662.7 | 3684.1 | 3716.2 | 3824.5 | 4037.4 | 4167.1 | 4277.7 | 4269.4 | 4292.0 | 4275.3 | 4224.2 |
| 20°   | 3524.7 | 3542.5 | 3599.6 | 3654.4 | 3759.1 | 3931.5 | 4138.5 | 4154.0 | 4183.7 | 4180.2 | 4194.4 |
| 22.5° | 3522.3 | 3459.3 | 3468.8 | 3511.6 | 3621.1 | 3775.7 | 3995.8 | 4046.9 | 4066.0 | 4079.0 | 4094.5 |
| 25°   | 2794.3 | 3295.1 | 3386.7 | 3414.1 | 3485.4 | 3575.9 | 3835.2 | 3854.2 | 3889.9 | 3948.2 | 3991.0 |
| 27.5° | 2420.8 | 2761.0 | 3127.4 | 3317.7 | 3362.9 | 3437.9 | 3592.5 | 3621.1 | 3742.4 | 3756.7 | 3823.3 |
| 30°   | 1910.5 | 2173.3 | 2720.6 | 3178.5 | 3253.5 | 3305.8 | 3415.3 | 3472.4 | 3524.7 | 3581.8 | 3652.0 |
| 32.5° | 1797.4 | 1839.1 | 2142.4 | 2630.1 | 3213.0 | 3173.8 | 3254.7 | 3289.2 | 3346.3 | 3396.2 | 3447.4 |
| 35°   | 1694.0 | 1722.5 | 1786.7 | 2154.3 | 2617.1 | 3065.5 | 3120.2 | 3142.9 | 3175.0 | 3213.0 | 3249.9 |
| 37.5° | 1585.7 | 1628.5 | 1672.5 | 1771.3 | 2420.8 | 2979.9 | 2978.7 | 3004.9 | 3023.9 | 3056.0 | 3086.9 |
| 40°   | 287.9  | 1495.3 | 1566.7 | 1630.9 | 1877.1 | 2376.8 | 2845.5 | 2857.4 | 2870.4 | 2890.7 | 2922.8 |
| 42.5° | 46.4   | 249.8  | 1467.9 | 1529.8 | 1600.0 | 2128.1 | 2784.8 | 2736.0 | 2727.7 | 2742.0 | 2770.5 |
| 45°   | 23.8   | 60.7   | 295.0  | 1428.7 | 1491.7 | 1697.5 | 2276.8 | 2651.6 | 2643.2 | 2615.9 | 2621.8 |
| 47.5° | 17.8   | 38.1   | 72.6   | 493.7  | 1396.6 | 1457.2 | 2100.8 | 2078.2 | 2236.4 | 2539.7 | 2493.3 |
| 50°   | 15.5   | 26.2   | 42.8   | 101.1  | 1233.6 | 1341.8 | 1617.8 | 1890.2 | 1973.5 | 1984.2 | 2348.2 |
| 52.5° | 14.3   | 17.8   | 30.9   | 65.4   | 259.3  | 1240.7 | 1315.7 | 1410.8 | 1551.2 | 1852.2 | 1845.0 |
| 55°   | 13.1   | 16.7   | 26.2   | 44.0   | 90.4   | 1118.2 | 1195.5 | 1213.4 | 1243.1 | 1387.0 | 1577.4 |
| 57.5° | 7.1    | 15.5   | 25.0   | 38.1   | 67.8   | 204.6  | 1084.9 | 1099.2 | 1123.0 | 1128.9 | 1196.7 |
| 60°   | 3.6    | 14.3   | 22.6   | 33.3   | 50.0   | 95.2   | 975.4  | 992.1  | 1006.4 | 1008.8 | 1030.2 |
| 62.5° | 2.4    | 13.1   | 19.0   | 30.9   | 41.6   | 67.8   | 230.8  | 471.1  | 895.7  | 895.7  | 920.7  |
| 65°   | 2.4    | 9.5    | 11.9   | 20.2   | 38.1   | 55.9   | 97.5   | 113.0  | 220.1  | 541.3  | 807.7  |
| 67.5° | 2.4    | 3.6    | 10.7   | 16.7   | 28.5   | 42.8   | 71.4   | 83.3   | 99.9   | 114.2  | 211.7  |
| 70°   | 2.4    | 2.4    | 9.5    | 10.7   | 17.8   | 32.1   | 51.2   | 58.3   | 67.8   | 77.3   | 89.2   |
| 72.5° | 2.4    | 2.4    | 8.3    | 8.3    | 11.9   | 21.4   | 39.3   | 42.8   | 48.8   | 54.7   | 63.0   |
| 75°   | 5.9    | 4.8    | 7.1    | 7.1    | 8.3    | 16.7   | 29.7   | 33.3   | 35.7   | 40.4   | 46.4   |
| 77.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 10.7   | 19.0   | 21.4   | 25.0   | 27.4   | 32.1   |
| 80°   | 4.8    | 4.8    | 4.8    | 5.9    | 5.9    | 7.1    | 11.9   | 13.1   | 14.3   | 17.8   | 19.0   |
| 82.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 7.1    | 8.3    | 10.7   |
| 85°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    | 4.8    |
| 87.5° | 3.6    | 3.6    | 3.6    | 2.4    | 2.4    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 346°   | 347°   | 348°   | 349°   | 350°   | 351°   | 352°   | 353°   | 354°   | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3988.6 | 3981.5 | 3975.6 | 3979.1 | 3968.4 | 3963.7 | 3967.2 | 3968.4 | 3970.8 | 3976.7 | 3977.9 |
| 5°    | 3977.9 | 3975.6 | 3986.3 | 3992.2 | 3989.8 | 3992.2 | 3992.2 | 3987.4 | 3980.3 | 3985.1 | 3974.4 |
| 7.5°  | 3970.8 | 3955.3 | 3943.4 | 3945.8 | 3933.9 | 3948.2 | 3961.3 | 3980.3 | 3986.3 | 3986.3 | 3974.4 |
| 10°   | 4093.3 | 4076.7 | 4010.1 | 3964.8 | 3935.1 | 3908.9 | 3970.8 | 3907.7 | 3937.5 | 3824.5 | 3954.1 |
| 12.5° | 4194.4 | 4217.0 | 4187.3 | 4063.6 | 4042.2 | 3963.7 | 4008.9 | 3931.5 | 3908.9 | 3779.3 | 3820.9 |
| 15°   | 4234.9 | 4192.1 | 4182.5 | 4148.0 | 4101.6 | 4079.0 | 3957.7 | 3944.6 | 3907.7 | 3922.0 | 3867.3 |
| 17.5° | 4199.2 | 4220.6 | 4192.1 | 4169.5 | 4121.9 | 4068.3 | 3995.8 | 3931.5 | 3880.4 | 3766.2 | 3862.5 |
| 20°   | 4164.7 | 4193.2 | 4107.6 | 4121.9 | 4126.6 | 4064.8 | 4026.7 | 3973.2 | 3908.9 | 3801.9 | 3718.6 |
| 22.5° | 4107.6 | 4087.4 | 4094.5 | 4073.1 | 4055.3 | 4063.6 | 4011.2 | 3974.4 | 3866.1 | 3817.3 | 3704.3 |
| 25°   | 4014.8 | 4007.7 | 4026.7 | 4024.3 | 3981.5 | 3967.2 | 3941.1 | 3901.8 | 3859.0 | 3780.5 | 3687.7 |
| 27.5° | 3863.7 | 3900.6 | 3933.9 | 3949.4 | 3926.8 | 3888.7 | 3874.4 | 3851.8 | 3822.1 | 3742.4 | 3673.4 |
| 30°   | 3704.3 | 3746.0 | 3784.0 | 3817.3 | 3837.6 | 3820.9 | 3807.8 | 3794.7 | 3749.5 | 3697.2 | 3619.9 |
| 32.5° | 3522.3 | 3577.0 | 3629.4 | 3669.8 | 3713.8 | 3726.9 | 3717.4 | 3706.7 | 3668.6 | 3621.1 | 3559.2 |
| 35°   | 3311.8 | 3386.7 | 3462.8 | 3535.4 | 3554.4 | 3585.4 | 3616.3 | 3598.5 | 3578.2 | 3530.7 | 3473.6 |
| 37.5° | 3133.3 | 3186.9 | 3241.6 | 3333.2 | 3399.8 | 3439.1 | 3493.8 | 3500.9 | 3466.4 | 3443.8 | 3368.9 |
| 40°   | 2949.0 | 2997.7 | 3077.4 | 3131.0 | 3222.6 | 3267.8 | 3326.0 | 3352.2 | 3343.9 | 3330.8 | 3265.4 |
| 42.5° | 2803.8 | 2827.6 | 2880.0 | 2927.5 | 3017.9 | 3110.7 | 3161.9 | 3190.4 | 3220.2 | 3209.5 | 3176.2 |
| 45°   | 2649.2 | 2670.6 | 2688.4 | 2730.1 | 2818.1 | 2900.2 | 2963.2 | 3006.1 | 3059.6 | 3084.6 | 3044.1 |
| 47.5° | 2495.7 | 2501.7 | 2523.1 | 2557.6 | 2609.9 | 2673.0 | 2778.8 | 2843.1 | 2893.0 | 2941.8 | 2915.6 |
| 50°   | 2378.0 | 2356.5 | 2360.1 | 2381.5 | 2424.3 | 2486.2 | 2562.3 | 2652.7 | 2709.8 | 2769.3 | 2775.3 |
| 52.5° | 2078.2 | 2251.9 | 2210.2 | 2222.1 | 2244.7 | 2274.5 | 2354.2 | 2443.4 | 2513.6 | 2564.7 | 2615.9 |
| 55°   | 1743.9 | 1778.4 | 2112.7 | 2065.1 | 2079.4 | 2105.5 | 2142.4 | 2231.6 | 2299.4 | 2370.8 | 2442.2 |
| 57.5° | 1352.5 | 1609.5 | 1622.6 | 1931.9 | 1924.7 | 1927.1 | 1958.0 | 2009.2 | 2077.0 | 2166.2 | 2226.9 |
| 60°   | 1051.6 | 1159.8 | 1370.4 | 1477.4 | 1748.7 | 1758.2 | 1776.0 | 1805.8 | 1864.1 | 1948.5 | 2044.9 |
| 62.5° | 927.9  | 942.1  | 1017.1 | 1177.7 | 1353.7 | 1566.7 | 1604.7 | 1609.5 | 1635.7 | 1720.1 | 1831.9 |
| 65°   | 814.9  | 824.4  | 847.0  | 863.6  | 1011.1 | 1216.9 | 1400.1 | 1429.9 | 1446.5 | 1496.5 | 1591.6 |
| 67.5° | 561.5  | 710.2  | 730.4  | 742.3  | 756.6  | 851.7  | 1078.9 | 1230.0 | 1249.1 | 1293.1 | 1376.3 |
| 70°   | 108.3  | 224.8  | 615.0  | 628.1  | 635.2  | 656.6  | 693.5  | 933.8  | 1059.9 | 1101.5 | 1139.6 |
| 72.5° | 73.8   | 86.8   | 104.7  | 247.4  | 523.4  | 535.3  | 543.6  | 574.6  | 787.5  | 908.8  | 929.1  |
| 75°   | 53.5   | 59.5   | 70.2   | 86.8   | 107.1  | 348.5  | 431.8  | 447.3  | 462.7  | 638.8  | 741.1  |
| 77.5° | 38.1   | 42.8   | 47.6   | 55.9   | 65.4   | 84.5   | 121.3  | 334.3  | 349.7  | 358.1  | 505.6  |
| 80°   | 21.4   | 26.2   | 32.1   | 36.9   | 41.6   | 47.6   | 61.9   | 77.3   | 172.5  | 252.2  | 265.3  |
| 82.5° | 11.9   | 14.3   | 16.7   | 20.2   | 22.6   | 28.5   | 34.5   | 41.6   | 54.7   | 80.9   | 171.3  |
| 85°   | 5.9    | 5.9    | 5.9    | 8.3    | 9.5    | 13.1   | 15.5   | 17.8   | 25.0   | 34.5   | 47.6   |
| 87.5° | 3.6    | 3.6    | 4.8    | 4.8    | 4.8    | 5.9    | 5.9    | 5.9    | 7.1    | 10.7   | 15.5   |
| 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: P1213861

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 356°   | 357°   | 358°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3963.7 | 3963.7 | 3963.7 | 3963.7 | 3963.7 |
| 2.5°  | 3979.1 | 3975.6 | 3975.6 | 3989.8 | 3986.3 |
| 5°    | 3972.0 | 3968.4 | 3967.2 | 3982.7 | 3975.6 |
| 7.5°  | 3966.0 | 3953.0 | 3949.4 | 3963.7 | 3957.7 |
| 10°   | 3942.2 | 3932.7 | 3938.7 | 3933.9 | 3931.5 |
| 12.5° | 3901.8 | 3895.9 | 3870.9 | 3873.2 | 3893.5 |
| 15°   | 3829.2 | 3853.0 | 3810.2 | 3848.3 | 3856.6 |
| 17.5° | 3696.0 | 3749.5 | 3791.2 | 3813.8 | 3817.3 |
| 20°   | 3755.5 | 3773.3 | 3751.9 | 3753.1 | 3767.4 |
| 22.5° | 3678.2 | 3686.5 | 3692.4 | 3685.3 | 3716.2 |
| 25°   | 3554.4 | 3522.3 | 3591.3 | 3605.6 | 3655.6 |
| 27.5° | 3516.4 | 3490.2 | 3522.3 | 3519.9 | 3561.6 |
| 30°   | 3485.4 | 3401.0 | 3415.3 | 3437.9 | 3489.0 |
| 32.5° | 3441.4 | 3308.2 | 3293.9 | 3343.9 | 3401.0 |
| 35°   | 3364.1 | 3238.0 | 3204.7 | 3236.8 | 3322.5 |
| 37.5° | 3298.7 | 3140.5 | 3073.9 | 3116.7 | 3228.5 |
| 40°   | 3201.1 | 3064.3 | 2960.8 | 2998.9 | 3131.0 |
| 42.5° | 3084.6 | 2998.9 | 2839.5 | 2865.7 | 3016.8 |
| 45°   | 2966.8 | 2890.7 | 2721.7 | 2734.8 | 2914.5 |
| 47.5° | 2846.6 | 2776.5 | 2599.2 | 2601.6 | 2783.6 |
| 50°   | 2728.9 | 2636.1 | 2489.8 | 2448.1 | 2644.4 |
| 52.5° | 2575.4 | 2489.8 | 2379.1 | 2311.3 | 2512.4 |
| 55°   | 2430.3 | 2333.9 | 2253.1 | 2148.4 | 2362.5 |
| 57.5° | 2288.7 | 2181.7 | 2127.0 | 1992.5 | 2192.4 |
| 60°   | 2094.8 | 2043.7 | 1962.8 | 1834.3 | 2038.9 |
| 62.5° | 1896.2 | 1879.5 | 1797.4 | 1664.2 | 1849.8 |
| 65°   | 1664.2 | 1703.5 | 1619.0 | 1504.8 | 1653.5 |
| 67.5° | 1445.3 | 1515.5 | 1422.7 | 1352.5 | 1464.4 |
| 70°   | 1212.2 | 1293.1 | 1240.7 | 1215.7 | 1263.3 |
| 72.5° | 982.6  | 1061.1 | 1065.9 | 1048.0 | 1063.5 |
| 75°   | 758.9  | 845.8  | 893.4  | 866.0  | 869.6  |
| 77.5° | 575.8  | 617.4  | 669.7  | 691.1  | 686.4  |
| 80°   | 355.7  | 428.2  | 471.1  | 515.1  | 499.6  |
| 82.5° | 179.6  | 240.3  | 292.6  | 340.2  | 317.6  |
| 85°   | 74.9   | 96.4   | 134.4  | 177.2  | 170.1  |
| 87.5° | 22.6   | 38.1   | 40.4   | 57.1   | 53.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)