

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: P1213817

Luminaire Tested: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213817  
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-LD5-54SL-RM-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

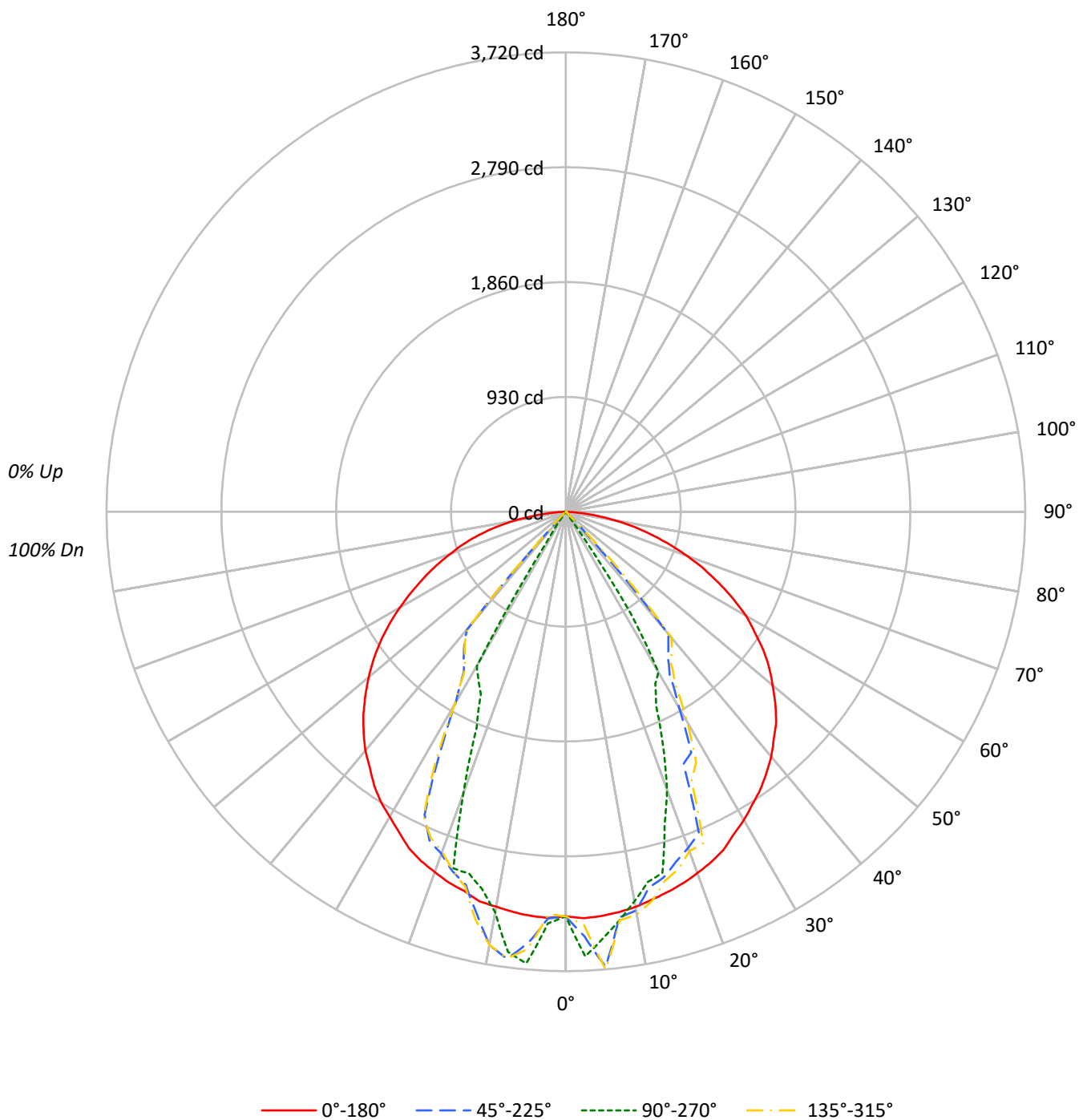
Lumens per Lamp: N/A  
Luminaire Lumens: 4657.9 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 41  
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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-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°  | 26473 | 26473 | 26473 | 26473 |
| 5°  | 26581 | 27227 | 26572 | 28833 |
| 10° | 26517 | 24637 | 26500 | 25348 |
| 15° | 26445 | 22996 | 26379 | 23055 |
| 20° | 26475 | 18113 | 26400 | 18336 |
| 25° | 26551 | 13108 | 26422 | 12369 |
| 30° | 26430 | 11498 | 26151 | 11053 |
| 35° | 26509 | 253   | 26119 | 307   |
| 40° | 26599 | 55    | 25963 | 55    |
| 45° | 26693 | 32    | 25691 | 24    |
| 50° | 26489 | 25    | 25275 | 25    |
| 55° | 26333 | 18    | 24716 | 18    |
| 60° | 25836 | 20    | 23817 | 20    |
| 65° | 24490 | 31    | 22745 | 21    |
| 70° | 22719 | 34    | 21629 | 34    |
| 75° | 20096 | 38    | 20426 | 38    |
| 80° | 16322 | 43    | 17255 | 43    |
| 85° | 9605  | 51    | 9804  | 51    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 28823 cd/sqm

TEST NUMBER: P1213817

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 328.7  | 7.1       |
| 10°-20°   | 896.5  | 19.2      |
| 20°-30°   | 1140.7 | 24.5      |
| 30°-40°   | 963.6  | 20.7      |
| 40°-50°   | 630.0  | 13.5      |
| 50°-60°   | 396.9  | 8.5       |
| 60°-70°   | 211.3  | 4.5       |
| 70°-80°   | 77.0   | 1.7       |
| 80°-90°   | 13.2   | 0.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2365.9 | 50.8      |
| 0°-40°    | 3329.5 | 71.5      |
| 0°-60°    | 4356.4 | 93.5      |
| 0°-90°    | 4657.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4657.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3276 | 3276 | 3276 | 3276 | 3276 |      |
| 5°  | 3286 | 3467 | 3285 | 3671 | 3286 | 312  |
| 15° | 3187 | 3025 | 3180 | 3033 | 3187 | 901  |
| 25° | 3021 | 1727 | 3006 | 1630 | 3021 | 1389 |
| 35° | 2746 | 32   | 2706 | 39   | 2746 | 1718 |
| 45° | 2409 | 4    | 2318 | 3    | 2409 | 1852 |
| 55° | 1952 | 2    | 1833 | 2    | 1952 | 1740 |
| 65° | 1367 | 3    | 1269 | 2    | 1367 | 1353 |
| 75° | 719  | 3    | 730  | 3    | 719  | 763  |
| 85° | 141  | 3    | 144  | 3    | 141  | 178  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1213817

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3294.5 | 3296.5 | 3297.5 | 3299.4 | 3302.4 | 3303.4 | 3305.3 | 3303.4 | 3303.4 | 3303.4 | 3303.4 |
| 5°    | 3285.7 | 3289.6 | 3292.6 | 3296.5 | 3303.4 | 3304.4 | 3312.2 | 3313.2 | 3317.1 | 3325.0 | 3330.9 |
| 7.5°  | 3270.9 | 3274.9 | 3280.8 | 3290.6 | 3300.4 | 3311.2 | 3325.0 | 3339.8 | 3360.4 | 3380.1 | 3404.6 |
| 10°   | 3249.3 | 3254.2 | 3261.1 | 3270.0 | 3318.1 | 3325.0 | 3355.5 | 3397.8 | 3409.6 | 3471.5 | 3517.7 |
| 12.5° | 3217.8 | 3234.6 | 3252.3 | 3260.1 | 3306.3 | 3379.1 | 3481.3 | 3460.7 | 3438.1 | 3640.6 | 3637.7 |
| 15°   | 3187.4 | 3210.0 | 3201.1 | 3265.0 | 3307.3 | 3434.1 | 3390.9 | 3483.3 | 3652.4 | 3611.1 | 3613.1 |
| 17.5° | 3154.9 | 3159.8 | 3209.0 | 3262.1 | 3337.8 | 3402.7 | 3455.8 | 3582.6 | 3616.0 | 3619.0 | 3582.6 |
| 20°   | 3113.6 | 3137.2 | 3209.0 | 3257.2 | 3385.0 | 3415.5 | 3530.5 | 3595.4 | 3581.6 | 3548.2 | 3486.2 |
| 22.5° | 3071.4 | 3143.1 | 3215.9 | 3283.7 | 3373.2 | 3454.8 | 3511.8 | 3542.3 | 3470.5 | 3338.8 | 3268.0 |
| 25°   | 3021.2 | 3063.5 | 3158.9 | 3258.2 | 3370.2 | 3417.4 | 3450.9 | 3401.7 | 3308.3 | 3190.3 | 3071.4 |
| 27.5° | 2943.5 | 3011.4 | 3133.3 | 3245.4 | 3346.6 | 3403.7 | 3349.6 | 3231.6 | 3081.2 | 3003.5 | 2949.4 |
| 30°   | 2883.6 | 2972.1 | 3072.3 | 3180.5 | 3285.7 | 3319.1 | 3181.5 | 3046.8 | 2943.5 | 2865.9 | 2854.1 |
| 32.5° | 2810.8 | 2936.7 | 3032.0 | 3135.3 | 3223.7 | 3179.5 | 3045.8 | 2871.8 | 2786.2 | 2756.8 | 2768.5 |
| 35°   | 2745.9 | 2841.3 | 2966.2 | 3067.4 | 3131.3 | 3032.0 | 2820.7 | 2712.5 | 2671.2 | 2687.9 | 2666.3 |
| 37.5° | 2668.3 | 2794.1 | 2909.1 | 2996.6 | 2975.0 | 2825.6 | 2646.6 | 2577.8 | 2582.7 | 2569.0 | 2527.7 |
| 40°   | 2587.6 | 2707.6 | 2827.5 | 2910.1 | 2834.4 | 2606.3 | 2487.4 | 2472.6 | 2475.6 | 2431.3 | 2372.3 |
| 42.5° | 2493.3 | 2602.4 | 2722.3 | 2797.1 | 2633.9 | 2455.9 | 2375.3 | 2377.3 | 2351.7 | 2289.8 | 2258.3 |
| 45°   | 2408.7 | 2509.0 | 2633.9 | 2640.7 | 2440.2 | 2291.7 | 2268.1 | 2242.6 | 2185.5 | 2164.9 | 2141.3 |
| 47.5° | 2300.6 | 2411.7 | 2514.9 | 2477.5 | 2250.4 | 2158.0 | 2140.3 | 2084.3 | 2055.8 | 2040.0 | 2020.4 |
| 50°   | 2185.5 | 2297.6 | 2392.0 | 2285.8 | 2071.5 | 2049.9 | 1991.9 | 1947.6 | 1928.0 | 1911.2 | 1893.5 |
| 52.5° | 2076.4 | 2168.8 | 2265.2 | 2082.3 | 1933.9 | 1913.2 | 1847.3 | 1821.8 | 1802.1 | 1783.4 | 1779.5 |
| 55°   | 1952.5 | 2034.1 | 2100.0 | 1888.6 | 1802.1 | 1753.9 | 1706.7 | 1689.1 | 1670.4 | 1661.5 | 1676.3 |
| 57.5° | 1811.9 | 1904.4 | 1894.5 | 1697.9 | 1659.6 | 1589.8 | 1572.1 | 1560.3 | 1546.5 | 1552.4 | 1429.5 |
| 60°   | 1685.1 | 1755.9 | 1707.7 | 1558.3 | 1493.4 | 1446.2 | 1430.5 | 1422.6 | 1430.5 | 1310.5 | 1152.3 |
| 62.5° | 1528.8 | 1608.4 | 1511.1 | 1395.1 | 1326.3 | 1303.7 | 1289.9 | 1300.7 | 1185.7 | 1053.9 | 1015.6 |
| 65°   | 1366.6 | 1453.1 | 1309.6 | 1220.1 | 1176.8 | 1157.2 | 1156.2 | 1064.8 | 951.7  | 900.6  | 900.6  |
| 67.5° | 1210.3 | 1299.7 | 1114.9 | 1040.2 | 1023.5 | 1025.4 | 968.4  | 829.8  | 798.3  | 763.9  | 664.6  |
| 70°   | 1044.1 | 1122.8 | 921.2  | 876.0  | 866.2  | 859.3  | 720.6  | 683.3  | 645.9  | 554.5  | 546.6  |
| 72.5° | 878.9  | 917.3  | 740.3  | 729.5  | 727.5  | 604.6  | 577.1  | 513.2  | 469.9  | 459.1  | 454.2  |
| 75°   | 718.7  | 706.9  | 585.0  | 594.8  | 501.4  | 458.1  | 413.9  | 376.5  | 370.6  | 366.7  | 91.4   |
| 77.5° | 567.3  | 508.3  | 461.1  | 401.1  | 358.8  | 304.8  | 295.9  | 290.0  | 190.7  | 68.8   | 56.0   |
| 80°   | 412.9  | 329.4  | 306.7  | 260.5  | 222.2  | 213.3  | 218.3  | 66.9   | 53.1   | 44.2   | 38.3   |
| 82.5° | 262.5  | 210.4  | 172.1  | 150.4  | 146.5  | 63.9   | 47.2   | 38.3   | 33.4   | 28.5   | 23.6   |
| 85°   | 140.6  | 93.4   | 86.5   | 72.8   | 43.3   | 29.5   | 24.6   | 18.7   | 15.7   | 12.8   | 11.8   |
| 87.5° | 44.2   | 37.4   | 30.5   | 24.6   | 14.7   | 9.8    | 7.9    | 6.9    | 5.9    | 4.9    | 4.9    |
| 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°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3301.4 | 3303.4 | 3302.4 | 3305.3 | 3305.3 | 3309.3 | 3312.2 | 3315.2 | 3321.1 | 3324.0 | 3346.6 |
| 5°    | 3343.7 | 3348.6 | 3363.4 | 3377.1 | 3393.8 | 3398.7 | 3427.3 | 3434.1 | 3467.6 | 3471.5 | 3581.6 |
| 7.5°  | 3438.1 | 3456.8 | 3492.1 | 3527.5 | 3562.9 | 3585.5 | 3624.9 | 3649.5 | 3676.0 | 3699.6 | 3787.1 |
| 10°   | 3552.1 | 3583.6 | 3618.0 | 3653.4 | 3674.0 | 3717.3 | 3740.9 | 3744.8 | 3737.9 | 3699.6 | 3558.0 |
| 12.5° | 3664.2 | 3695.7 | 3680.9 | 3687.8 | 3712.4 | 3635.7 | 3646.5 | 3591.4 | 3629.8 | 3440.0 | 3299.4 |
| 15°   | 3648.5 | 3646.5 | 3610.1 | 3492.1 | 3511.8 | 3365.3 | 3306.3 | 3261.1 | 3297.5 | 3277.8 | 3256.2 |
| 17.5° | 3601.3 | 3511.8 | 3448.9 | 3307.3 | 3247.3 | 3206.1 | 3207.0 | 3208.0 | 3190.3 | 3209.0 | 3153.9 |
| 20°   | 3401.7 | 3301.4 | 3208.0 | 3157.9 | 3140.2 | 3110.7 | 3125.4 | 3110.7 | 3111.7 | 3117.6 | 3033.0 |
| 22.5° | 3136.2 | 3105.8 | 3051.7 | 3067.4 | 3061.5 | 3088.1 | 3068.4 | 3037.9 | 3047.8 | 3003.5 | 2939.6 |
| 25°   | 3029.1 | 2993.7 | 2991.7 | 2997.6 | 2988.8 | 2977.0 | 2959.3 | 2913.1 | 2910.1 | 2896.4 | 2866.9 |
| 27.5° | 2920.9 | 2922.9 | 2928.8 | 2911.1 | 2879.6 | 2856.0 | 2829.5 | 2806.9 | 2815.7 | 2800.0 | 2759.7 |
| 30°   | 2846.2 | 2845.2 | 2809.8 | 2794.1 | 2736.1 | 2737.1 | 2730.2 | 2716.4 | 2707.6 | 2708.6 | 2683.0 |
| 32.5° | 2740.0 | 2709.6 | 2669.3 | 2649.6 | 2644.7 | 2627.0 | 2613.2 | 2616.2 | 2623.0 | 2598.5 | 2625.0 |
| 35°   | 2630.9 | 2568.0 | 2562.1 | 2545.4 | 2529.6 | 2517.8 | 2522.8 | 2503.1 | 2502.1 | 2499.2 | 2282.9 |
| 37.5° | 2484.4 | 2453.9 | 2451.0 | 2433.3 | 2422.5 | 2419.5 | 2400.9 | 2403.8 | 2412.6 | 2428.4 | 1946.6 |
| 40°   | 2363.5 | 2336.0 | 2329.1 | 2328.1 | 2304.5 | 2302.5 | 2307.5 | 2326.1 | 2338.9 | 2240.6 | 1855.2 |
| 42.5° | 2233.7 | 2235.7 | 2214.1 | 2200.3 | 2203.2 | 2212.1 | 2235.7 | 2170.8 | 1880.8 | 1792.3 | 1695.9 |
| 45°   | 2122.6 | 2112.8 | 2101.0 | 2097.1 | 2122.6 | 2104.9 | 1845.4 | 1702.8 | 1668.4 | 1664.5 | 1394.1 |
| 47.5° | 2006.6 | 2003.7 | 1998.7 | 2001.7 | 1856.2 | 1654.6 | 1595.7 | 1577.0 | 1582.9 | 1578.9 | 1197.5 |
| 50°   | 1889.6 | 1893.5 | 1893.5 | 1653.7 | 1518.0 | 1484.6 | 1489.5 | 1506.2 | 1402.0 | 1308.6 | 1115.9 |
| 52.5° | 1788.3 | 1757.9 | 1506.2 | 1419.7 | 1389.2 | 1403.9 | 1368.5 | 1237.8 | 1143.4 | 1088.3 | 1032.3 |
| 55°   | 1600.6 | 1376.4 | 1320.4 | 1306.6 | 1317.4 | 1186.7 | 1106.0 | 1021.5 | 996.9  | 991.0  | 958.6  |
| 57.5° | 1259.4 | 1214.2 | 1219.1 | 1164.0 | 1039.2 | 965.5  | 933.0  | 921.2  | 910.4  | 902.5  | 78.7   |
| 60°   | 1113.9 | 1126.7 | 1031.3 | 913.3  | 863.2  | 853.4  | 845.5  | 834.7  | 832.7  | 819.0  | 50.1   |
| 62.5° | 1019.5 | 896.6  | 814.0  | 784.6  | 772.8  | 769.8  | 755.1  | 750.1  | 637.1  | 87.5   | 37.4   |
| 65°   | 768.8  | 718.7  | 703.0  | 696.1  | 683.3  | 683.3  | 567.3  | 89.5   | 72.8   | 62.9   | 33.4   |
| 67.5° | 627.2  | 623.3  | 615.5  | 606.6  | 412.9  | 86.5   | 75.7   | 65.9   | 57.0   | 50.1   | 29.5   |
| 70°   | 530.9  | 528.9  | 481.7  | 88.5   | 73.7   | 64.9   | 57.0   | 51.1   | 47.2   | 42.3   | 26.5   |
| 72.5° | 435.5  | 88.5   | 74.7   | 64.9   | 56.0   | 51.1   | 46.2   | 41.3   | 37.4   | 34.4   | 21.6   |
| 75°   | 67.8   | 60.0   | 53.1   | 48.2   | 44.2   | 39.3   | 35.4   | 32.4   | 31.5   | 27.5   | 14.7   |
| 77.5° | 49.2   | 42.3   | 38.3   | 34.4   | 30.5   | 27.5   | 23.6   | 20.6   | 18.7   | 15.7   | 10.8   |
| 80°   | 34.4   | 30.5   | 27.5   | 22.6   | 19.7   | 16.7   | 14.7   | 12.8   | 11.8   | 9.8    | 4.9    |
| 82.5° | 19.7   | 16.7   | 14.7   | 11.8   | 10.8   | 8.8    | 7.9    | 6.9    | 6.9    | 4.9    | 4.9    |
| 85°   | 8.8    | 8.8    | 6.9    | 5.9    | 4.9    | 4.9    | 4.9    | 3.9    | 3.9    | 2.9    | 2.9    |
| 87.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 30°    | 35°    | 40°    | 45°    | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3378.1 | 3390.9 | 3415.5 | 3441.0 | 3412.5 | 3514.8 | 3506.9 | 3541.3 | 3560.0 | 3568.8 | 3589.5 |
| 5°    | 3678.9 | 3736.0 | 3754.6 | 3698.6 | 3666.2 | 3632.7 | 3557.0 | 3500.0 | 3506.9 | 3488.2 | 3420.4 |
| 7.5°  | 3673.0 | 3551.1 | 3386.9 | 3312.2 | 3306.3 | 3297.5 | 3321.1 | 3334.8 | 3336.8 | 3335.8 | 3333.9 |
| 10°   | 3362.4 | 3299.4 | 3288.6 | 3278.8 | 3282.7 | 3246.4 | 3229.6 | 3182.5 | 3208.0 | 3194.3 | 3199.2 |
| 12.5° | 3268.0 | 3253.2 | 3195.2 | 3114.6 | 3162.8 | 3126.4 | 3105.8 | 3119.5 | 3103.8 | 3089.1 | 3084.1 |
| 15°   | 3211.9 | 3116.6 | 3084.1 | 3064.5 | 3050.7 | 3042.8 | 3049.7 | 3034.0 | 3029.1 | 3026.1 | 3033.0 |
| 17.5° | 3095.9 | 3057.6 | 3022.2 | 2970.1 | 2971.1 | 2968.1 | 2987.8 | 3017.3 | 3019.3 | 2867.8 | 2731.2 |
| 20°   | 3004.5 | 2973.0 | 2927.8 | 2895.4 | 2939.6 | 2861.0 | 2557.2 | 2412.6 | 2390.0 | 2390.0 | 2394.0 |
| 22.5° | 2931.8 | 2861.9 | 2864.9 | 2813.8 | 2399.9 | 2315.3 | 2317.3 | 2326.1 | 2285.8 | 2148.2 | 2133.4 |
| 25°   | 2832.5 | 2821.6 | 2606.3 | 2252.4 | 2255.3 | 2189.5 | 2088.2 | 1945.7 | 1791.3 | 1791.3 | 1765.7 |
| 27.5° | 2757.7 | 2528.7 | 2214.1 | 2199.3 | 1978.1 | 1838.5 | 1752.0 | 1621.2 | 1603.5 | 1586.8 | 1588.8 |
| 30°   | 2693.8 | 2139.3 | 2147.2 | 1838.5 | 1675.3 | 1559.3 | 1552.4 | 1530.8 | 1519.9 | 1517.0 | 1506.2 |
| 32.5° | 2129.5 | 2083.3 | 1797.2 | 1565.2 | 1501.3 | 1482.6 | 1473.7 | 1449.2 | 1448.2 | 1429.5 | 1299.7 |
| 35°   | 1996.8 | 1828.7 | 1504.2 | 1441.3 | 1422.6 | 1404.9 | 1390.2 | 933.0  | 110.1  | 44.2   | 38.3   |
| 37.5° | 1845.4 | 1527.8 | 1391.2 | 1362.6 | 1344.9 | 994.0  | 99.3   | 34.4   | 24.6   | 17.7   | 15.7   |
| 40°   | 1564.2 | 1364.6 | 1321.4 | 1289.9 | 531.9  | 34.4   | 21.6   | 16.7   | 9.8    | 8.8    | 7.9    |
| 42.5° | 1319.4 | 1286.0 | 1239.8 | 377.5  | 39.3   | 16.7   | 10.8   | 7.9    | 6.9    | 6.9    | 5.9    |
| 45°   | 1234.8 | 1205.3 | 499.4  | 37.4   | 24.6   | 7.9    | 6.9    | 6.9    | 5.9    | 3.9    | 3.9    |
| 47.5° | 1156.2 | 1017.6 | 45.2   | 23.6   | 15.7   | 6.9    | 5.9    | 3.9    | 3.9    | 3.9    | 2.9    |
| 50°   | 1072.6 | 56.0   | 31.5   | 17.7   | 9.8    | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    | 2.9    |
| 52.5° | 200.6  | 39.3   | 25.6   | 15.7   | 4.9    | 3.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    |
| 55°   | 47.2   | 31.5   | 23.6   | 13.8   | 3.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 57.5° | 35.4   | 23.6   | 18.7   | 12.8   | 3.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 60°   | 29.5   | 16.7   | 14.7   | 11.8   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 62.5° | 20.6   | 13.8   | 10.8   | 8.8    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 65°   | 16.7   | 10.8   | 8.8    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 67.5° | 14.7   | 8.8    | 5.9    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 70°   | 11.8   | 2.9    | 2.9    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 72.5° | 9.8    | 2.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 75°   | 9.8    | 4.9    | 2.0    | 2.0    | 2.9    | 2.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    |
| 77.5° | 6.9    | 4.9    | 2.0    | 2.0    | 2.9    | 2.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    |
| 80°   | 3.9    | 4.9    | 2.0    | 2.9    | 2.9    | 5.9    | 6.9    | 3.9    | 2.9    | 2.9    | 2.9    |
| 82.5° | 3.9    | 4.9    | 5.9    | 5.9    | 2.9    | 4.9    | 5.9    | 4.9    | 3.9    | 2.9    | 2.9    |
| 85°   | 3.9    | 2.9    | 3.9    | 4.9    | 2.9    | 4.9    | 4.9    | 3.9    | 3.9    | 2.9    | 2.9    |
| 87.5° | 2.0    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 4.9    | 3.9    | 3.9    | 3.9    | 2.9    |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 85°    | 90°    | 95°    | 100°   | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3599.3 | 3603.2 | 3541.3 | 3519.7 | 3538.4 | 3534.4 | 3517.7 | 3455.8 | 3448.9 | 3407.6 | 3347.6 |
| 5°    | 3440.0 | 3466.6 | 3434.1 | 3490.2 | 3463.6 | 3490.2 | 3570.8 | 3608.2 | 3669.1 | 3706.5 | 3720.2 |
| 7.5°  | 3328.9 | 3334.8 | 3334.8 | 3339.8 | 3344.7 | 3345.7 | 3339.8 | 3335.8 | 3319.1 | 3298.5 | 3335.8 |
| 10°   | 3194.3 | 3201.1 | 3212.9 | 3211.0 | 3210.0 | 3230.6 | 3235.5 | 3277.8 | 3275.9 | 3283.7 | 3312.2 |
| 12.5° | 3124.4 | 3071.4 | 3119.5 | 3106.8 | 3124.4 | 3096.9 | 3148.0 | 3139.2 | 3142.1 | 3165.7 | 3226.7 |
| 15°   | 3008.4 | 3025.2 | 3036.9 | 3036.9 | 3043.8 | 3037.9 | 3032.0 | 3072.3 | 3096.9 | 3097.9 | 3094.0 |
| 17.5° | 2785.3 | 2658.4 | 2788.2 | 2754.8 | 3021.2 | 3028.1 | 3005.5 | 2986.8 | 2986.8 | 3001.6 | 3033.0 |
| 20°   | 2391.0 | 2394.0 | 2395.0 | 2407.7 | 2423.5 | 2422.5 | 2423.5 | 2810.8 | 2994.7 | 2952.4 | 2923.9 |
| 22.5° | 2096.1 | 2059.7 | 2127.5 | 2122.6 | 2207.2 | 2300.6 | 2390.0 | 2381.2 | 2387.1 | 2660.4 | 2906.2 |
| 25°   | 1680.2 | 1727.4 | 1689.1 | 1705.8 | 1801.1 | 1912.2 | 1981.0 | 2161.0 | 2356.6 | 2342.8 | 2406.7 |
| 27.5° | 1581.9 | 1569.1 | 1586.8 | 1586.8 | 1599.6 | 1614.3 | 1652.7 | 1753.9 | 1928.0 | 2110.8 | 2283.9 |
| 30°   | 1488.5 | 1499.3 | 1501.3 | 1519.0 | 1528.8 | 1538.6 | 1544.5 | 1582.9 | 1622.2 | 1749.0 | 1962.4 |
| 32.5° | 1117.8 | 980.2  | 1289.9 | 1373.5 | 1444.2 | 1461.0 | 1472.8 | 1488.5 | 1517.0 | 1535.7 | 1642.8 |
| 35°   | 32.4   | 32.4   | 34.4   | 39.3   | 50.1   | 338.2  | 1287.9 | 1419.7 | 1438.3 | 1461.9 | 1481.6 |
| 37.5° | 15.7   | 11.8   | 13.8   | 14.7   | 17.7   | 24.6   | 35.4   | 110.1  | 1226.0 | 1386.2 | 1407.9 |
| 40°   | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 9.8    | 14.7   | 24.6   | 37.4   | 986.1  | 1330.2 |
| 42.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 8.8    | 17.7   | 42.3   | 698.0  |
| 45°   | 3.9    | 3.9    | 2.9    | 3.9    | 3.9    | 4.9    | 5.9    | 5.9    | 7.9    | 26.5   | 48.2   |
| 47.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.9    | 5.9    | 17.7   | 25.6   |
| 50°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 13.8   | 17.7   |
| 52.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 5.9    | 15.7   |
| 55°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 2.9    | 3.9    | 13.8   |
| 57.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 2.0    | 2.0    | 2.9    | 2.9    | 12.8   |
| 60°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 11.8   |
| 62.5° | 2.9    | 2.9    | 2.0    | 2.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 7.9    |
| 65°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    | 2.9    |
| 67.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    | 2.9    | 2.0    | 2.9    | 2.9    | 2.0    | 2.0    |
| 70°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 2.0    | 2.0    | 2.0    |
| 77.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.9    | 5.9    | 4.9    | 4.9    | 2.0    |
| 80°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.9    | 4.9    | 4.9    | 4.9    | 6.9    |
| 82.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 3.9    | 4.9    |
| 85°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 2.9    | 3.9    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 2.9    | 2.9    | 2.9    |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 140°   | 145°   | 150°   | 155°   | 160°   | 161°   | 162°   | 163°   | 164°   | 165°   | 166°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3352.5 | 3319.1 | 3308.3 | 3285.7 | 3283.7 | 3285.7 | 3280.8 | 3273.9 | 3277.8 | 3270.9 | 3265.0 |
| 5°    | 3728.1 | 3638.6 | 3580.6 | 3503.0 | 3395.8 | 3372.2 | 3366.3 | 3332.9 | 3321.1 | 3317.1 | 3301.4 |
| 7.5°  | 3424.3 | 3587.5 | 3685.8 | 3719.3 | 3593.4 | 3563.9 | 3529.5 | 3502.0 | 3475.4 | 3425.3 | 3394.8 |
| 10°   | 3289.6 | 3297.5 | 3391.9 | 3502.0 | 3680.9 | 3705.5 | 3724.2 | 3664.2 | 3647.5 | 3519.7 | 3492.1 |
| 12.5° | 3258.2 | 3259.1 | 3270.0 | 3336.8 | 3477.4 | 3493.1 | 3559.0 | 3594.4 | 3637.7 | 3662.2 | 3642.6 |
| 15°   | 3114.6 | 3194.3 | 3253.2 | 3259.1 | 3271.9 | 3299.4 | 3319.1 | 3442.0 | 3494.1 | 3633.7 | 3625.9 |
| 17.5° | 3047.8 | 3073.3 | 3158.9 | 3228.7 | 3216.9 | 3207.0 | 3222.8 | 3239.5 | 3289.6 | 3429.2 | 3427.3 |
| 20°   | 2936.7 | 3018.3 | 3064.5 | 3137.2 | 3203.1 | 3206.1 | 3188.4 | 3178.5 | 3158.9 | 3181.5 | 3202.1 |
| 22.5° | 2889.5 | 2902.3 | 2988.8 | 3039.9 | 3114.6 | 3141.2 | 3145.1 | 3146.1 | 3135.3 | 3123.5 | 3117.6 |
| 25°   | 2884.6 | 2844.3 | 2888.5 | 2952.4 | 3007.5 | 3036.0 | 3068.4 | 3079.2 | 3075.3 | 3075.3 | 3069.4 |
| 27.5° | 2360.5 | 2831.5 | 2807.9 | 2850.2 | 2917.0 | 2936.7 | 2953.4 | 2986.8 | 3007.5 | 3022.2 | 3029.1 |
| 30°   | 2248.5 | 2333.0 | 2745.0 | 2750.9 | 2818.7 | 2816.7 | 2835.4 | 2862.9 | 2889.5 | 2923.9 | 2932.7 |
| 32.5° | 1988.9 | 2196.4 | 2512.9 | 2651.6 | 2722.3 | 2729.2 | 2739.1 | 2746.9 | 2771.5 | 2809.8 | 2843.3 |
| 35°   | 1593.7 | 2000.7 | 2153.1 | 2604.4 | 2617.1 | 2630.9 | 2636.8 | 2655.5 | 2663.4 | 2679.1 | 2708.6 |
| 37.5° | 1442.3 | 1653.7 | 2065.6 | 2252.4 | 2496.2 | 2508.0 | 2539.5 | 2547.3 | 2560.1 | 2572.9 | 2595.5 |
| 40°   | 1354.8 | 1412.8 | 1719.5 | 2011.5 | 2398.9 | 2406.7 | 2417.6 | 2437.2 | 2438.2 | 2453.0 | 2473.6 |
| 42.5° | 1285.0 | 1322.3 | 1411.8 | 1921.1 | 2330.1 | 2329.1 | 2303.5 | 2316.3 | 2322.2 | 2337.9 | 2366.4 |
| 45°   | 1026.4 | 1240.7 | 1297.8 | 1569.1 | 1855.2 | 1988.9 | 2245.5 | 2203.2 | 2202.3 | 2208.2 | 2238.6 |
| 47.5° | 52.1   | 1167.0 | 1207.3 | 1294.8 | 1752.0 | 1756.9 | 1790.3 | 2071.5 | 2114.8 | 2101.0 | 2103.9 |
| 50°   | 35.4   | 80.6   | 1124.7 | 1165.0 | 1510.1 | 1632.0 | 1656.6 | 1669.4 | 1831.6 | 2012.5 | 1983.0 |
| 52.5° | 27.5   | 46.2   | 689.2  | 1081.5 | 1227.0 | 1316.4 | 1474.7 | 1565.2 | 1575.0 | 1647.8 | 1894.5 |
| 55°   | 24.6   | 35.4   | 74.7   | 997.9  | 1043.1 | 1062.8 | 1155.2 | 1313.5 | 1441.3 | 1479.6 | 1482.6 |
| 57.5° | 21.6   | 32.4   | 51.1   | 451.3  | 948.7  | 952.7  | 968.4  | 1023.5 | 1138.5 | 1243.7 | 1362.6 |
| 60°   | 19.7   | 28.5   | 40.3   | 77.7   | 862.2  | 872.1  | 875.0  | 889.8  | 903.5  | 975.3  | 1111.9 |
| 62.5° | 11.8   | 22.6   | 35.4   | 56.0   | 682.3  | 783.6  | 782.6  | 792.4  | 805.2  | 813.1  | 840.6  |
| 65°   | 9.8    | 17.7   | 30.5   | 47.2   | 83.6   | 104.2  | 633.1  | 703.9  | 711.8  | 722.6  | 727.5  |
| 67.5° | 8.8    | 15.7   | 22.6   | 37.4   | 62.9   | 71.8   | 82.6   | 102.2  | 558.4  | 629.2  | 639.0  |
| 70°   | 7.9    | 10.8   | 18.7   | 31.5   | 51.1   | 55.1   | 61.9   | 70.8   | 83.6   | 103.2  | 505.3  |
| 72.5° | 4.9    | 7.9    | 12.8   | 22.6   | 39.3   | 44.2   | 48.2   | 54.1   | 60.0   | 71.8   | 82.6   |
| 75°   | 2.0    | 5.9    | 10.8   | 16.7   | 30.5   | 33.4   | 36.4   | 40.3   | 45.2   | 53.1   | 59.0   |
| 77.5° | 2.0    | 4.9    | 8.8    | 11.8   | 19.7   | 22.6   | 26.5   | 29.5   | 33.4   | 37.4   | 43.3   |
| 80°   | 6.9    | 3.9    | 5.9    | 8.8    | 13.8   | 14.7   | 16.7   | 18.7   | 21.6   | 24.6   | 28.5   |
| 82.5° | 4.9    | 5.9    | 6.9    | 5.9    | 6.9    | 8.8    | 9.8    | 11.8   | 12.8   | 14.7   | 15.7   |
| 85°   | 3.9    | 3.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 5.9    | 6.9    | 8.8    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 167°   | 168°   | 169°   | 170°   | 171°   | 172°   | 173°   | 174°   | 175°   | 176°   | 177°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3265.0 | 3263.1 | 3257.2 | 3257.2 | 3256.2 | 3260.1 | 3263.1 | 3266.0 | 3265.0 | 3270.9 | 3265.0 |
| 5°    | 3289.6 | 3284.7 | 3275.9 | 3268.0 | 3265.0 | 3267.0 | 3264.1 | 3267.0 | 3263.1 | 3268.0 | 3259.1 |
| 7.5°  | 3357.5 | 3340.7 | 3306.3 | 3292.6 | 3274.9 | 3273.9 | 3265.0 | 3263.1 | 3257.2 | 3257.2 | 3246.4 |
| 10°   | 3477.4 | 3396.8 | 3386.9 | 3345.7 | 3330.9 | 3259.1 | 3274.9 | 3248.3 | 3245.4 | 3232.6 | 3227.7 |
| 12.5° | 3575.7 | 3512.8 | 3494.1 | 3457.7 | 3416.4 | 3270.9 | 3303.4 | 3246.4 | 3243.4 | 3217.8 | 3191.3 |
| 15°   | 3577.7 | 3614.1 | 3562.9 | 3462.7 | 3453.8 | 3353.5 | 3287.7 | 3268.0 | 3242.4 | 3165.7 | 3178.5 |
| 17.5° | 3462.7 | 3546.2 | 3570.8 | 3549.2 | 3486.2 | 3418.4 | 3326.0 | 3286.7 | 3210.0 | 3175.6 | 3152.0 |
| 20°   | 3275.9 | 3360.4 | 3465.6 | 3472.5 | 3511.8 | 3463.6 | 3342.7 | 3278.8 | 3186.4 | 3126.4 | 3106.8 |
| 22.5° | 3127.4 | 3189.3 | 3310.3 | 3366.3 | 3414.5 | 3431.2 | 3354.5 | 3260.1 | 3145.1 | 3087.1 | 3075.3 |
| 25°   | 3048.7 | 3062.5 | 3098.9 | 3164.8 | 3270.9 | 3347.6 | 3358.4 | 3258.2 | 3198.2 | 3071.4 | 3004.5 |
| 27.5° | 3020.2 | 3008.4 | 2993.7 | 3027.1 | 3106.8 | 3200.2 | 3262.1 | 3278.8 | 3129.4 | 3008.4 | 2941.6 |
| 30°   | 2947.5 | 2954.4 | 2931.8 | 2920.0 | 2972.1 | 3068.4 | 3178.5 | 3206.1 | 3091.0 | 2966.2 | 2889.5 |
| 32.5° | 2858.0 | 2869.8 | 2873.7 | 2853.1 | 2842.3 | 2909.1 | 3028.1 | 3094.0 | 3088.1 | 2906.2 | 2820.7 |
| 35°   | 2745.9 | 2779.4 | 2788.2 | 2789.2 | 2771.5 | 2760.7 | 2829.5 | 2966.2 | 3018.3 | 2878.7 | 2754.8 |
| 37.5° | 2628.0 | 2637.8 | 2686.0 | 2698.7 | 2698.7 | 2666.3 | 2717.4 | 2826.6 | 2899.3 | 2816.7 | 2674.2 |
| 40°   | 2480.5 | 2511.9 | 2557.2 | 2579.8 | 2602.4 | 2605.3 | 2576.8 | 2653.5 | 2773.5 | 2752.8 | 2598.5 |
| 42.5° | 2373.3 | 2394.0 | 2421.5 | 2452.0 | 2498.2 | 2510.0 | 2480.5 | 2494.3 | 2619.1 | 2673.2 | 2500.1 |
| 45°   | 2248.5 | 2276.0 | 2283.9 | 2317.3 | 2365.5 | 2399.9 | 2398.9 | 2370.4 | 2470.7 | 2537.5 | 2428.4 |
| 47.5° | 2120.7 | 2147.2 | 2161.0 | 2177.7 | 2213.1 | 2257.3 | 2281.9 | 2269.1 | 2288.8 | 2419.5 | 2333.0 |
| 50°   | 1988.9 | 2003.7 | 2031.2 | 2049.9 | 2073.5 | 2099.0 | 2158.0 | 2169.8 | 2142.3 | 2246.5 | 2227.8 |
| 52.5° | 1864.1 | 1869.0 | 1887.6 | 1906.3 | 1937.8 | 1956.5 | 2003.7 | 2039.1 | 2037.1 | 2067.6 | 2110.8 |
| 55°   | 1766.7 | 1745.1 | 1749.0 | 1763.8 | 1784.4 | 1812.9 | 1839.5 | 1894.5 | 1913.2 | 1919.1 | 1987.9 |
| 57.5° | 1380.3 | 1602.5 | 1622.2 | 1621.2 | 1645.8 | 1658.6 | 1683.2 | 1719.5 | 1786.4 | 1771.6 | 1848.3 |
| 60°   | 1254.5 | 1279.1 | 1464.9 | 1486.5 | 1495.4 | 1507.2 | 1536.7 | 1570.1 | 1619.2 | 1650.7 | 1684.1 |
| 62.5° | 956.6  | 1106.0 | 1162.1 | 1326.3 | 1351.8 | 1358.7 | 1378.4 | 1394.1 | 1445.2 | 1517.0 | 1503.2 |
| 65°   | 740.3  | 804.2  | 975.3  | 1042.1 | 1181.7 | 1199.4 | 1227.0 | 1243.7 | 1258.4 | 1341.0 | 1344.9 |
| 67.5° | 640.0  | 649.9  | 696.1  | 824.9  | 913.3  | 1050.0 | 1066.7 | 1081.5 | 1104.1 | 1163.1 | 1199.4 |
| 70°   | 546.6  | 558.4  | 571.2  | 582.0  | 697.1  | 787.5  | 914.3  | 919.2  | 934.0  | 973.3  | 1055.9 |
| 72.5° | 103.2  | 467.0  | 474.9  | 481.7  | 494.5  | 554.5  | 675.4  | 773.7  | 779.6  | 798.3  | 874.0  |
| 75°   | 69.8   | 81.6   | 112.1  | 385.4  | 398.2  | 402.1  | 422.8  | 545.6  | 636.1  | 640.0  | 673.5  |
| 77.5° | 50.1   | 56.0   | 67.8   | 80.6   | 205.5  | 308.7  | 313.6  | 336.2  | 429.6  | 497.5  | 503.4  |
| 80°   | 34.4   | 38.3   | 45.2   | 51.1   | 62.9   | 82.6   | 228.1  | 235.0  | 246.8  | 340.2  | 357.9  |
| 82.5° | 19.7   | 22.6   | 26.5   | 32.4   | 37.4   | 47.2   | 61.0   | 78.7   | 160.3  | 171.1  | 227.1  |
| 85°   | 9.8    | 10.8   | 12.8   | 15.7   | 18.7   | 22.6   | 30.5   | 37.4   | 51.1   | 92.4   | 95.4   |
| 87.5° | 4.9    | 4.9    | 4.9    | 4.9    | 7.9    | 8.8    | 10.8   | 13.8   | 17.7   | 26.5   | 34.4   |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 178°   | 179°   | 180°   | 181°   | 182°   | 183°   | 184°   | 185°   | 186°   | 187°   | 188°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3266.0 | 3279.8 | 3291.6 | 3294.5 | 3294.5 | 3296.5 | 3299.4 | 3301.4 | 3303.4 | 3305.3 | 3303.4 |
| 5°    | 3260.1 | 3274.9 | 3284.7 | 3287.7 | 3287.7 | 3293.6 | 3298.5 | 3304.4 | 3307.3 | 3307.3 | 3305.3 |
| 7.5°  | 3245.4 | 3256.2 | 3269.0 | 3276.8 | 3277.8 | 3287.7 | 3296.5 | 3295.5 | 3299.4 | 3301.4 | 3306.3 |
| 10°   | 3225.7 | 3225.7 | 3247.3 | 3253.2 | 3258.2 | 3269.0 | 3271.9 | 3277.8 | 3291.6 | 3293.6 | 3306.3 |
| 12.5° | 3215.9 | 3206.1 | 3231.6 | 3234.6 | 3251.3 | 3237.5 | 3255.2 | 3261.1 | 3247.3 | 3266.0 | 3241.4 |
| 15°   | 3171.6 | 3183.4 | 3179.5 | 3188.4 | 3217.8 | 3202.1 | 3250.3 | 3234.6 | 3270.0 | 3227.7 | 3302.4 |
| 17.5° | 3135.3 | 3133.3 | 3149.0 | 3156.9 | 3162.8 | 3196.2 | 3209.0 | 3226.7 | 3240.5 | 3228.7 | 3258.2 |
| 20°   | 3108.7 | 3093.0 | 3104.8 | 3113.6 | 3134.3 | 3159.8 | 3167.7 | 3141.2 | 3187.4 | 3266.0 | 3284.7 |
| 22.5° | 3058.6 | 3047.8 | 3061.5 | 3061.5 | 3093.0 | 3089.1 | 3118.6 | 3101.8 | 3145.1 | 3236.5 | 3331.9 |
| 25°   | 2990.7 | 2991.7 | 3006.5 | 3024.2 | 3030.1 | 3074.3 | 3090.0 | 3111.7 | 3165.7 | 3274.9 | 3332.9 |
| 27.5° | 2921.9 | 2916.0 | 2924.9 | 2961.2 | 2991.7 | 3024.2 | 3029.1 | 3102.8 | 3176.6 | 3251.3 | 3302.4 |
| 30°   | 2853.1 | 2847.2 | 2853.1 | 2879.6 | 2916.0 | 2937.7 | 2991.7 | 3090.0 | 3158.9 | 3210.0 | 3258.2 |
| 32.5° | 2779.4 | 2773.5 | 2787.2 | 2806.9 | 2870.8 | 2873.7 | 2980.9 | 3073.3 | 3127.4 | 3164.8 | 3155.9 |
| 35°   | 2700.7 | 2692.8 | 2705.6 | 2736.1 | 2795.1 | 2816.7 | 2928.8 | 2997.6 | 3058.6 | 3076.3 | 3035.0 |
| 37.5° | 2606.3 | 2592.6 | 2608.3 | 2650.6 | 2712.5 | 2775.4 | 2868.8 | 2948.5 | 2980.9 | 2933.7 | 2884.6 |
| 40°   | 2508.0 | 2498.2 | 2525.7 | 2547.3 | 2620.1 | 2707.6 | 2814.8 | 2870.8 | 2850.2 | 2796.1 | 2742.0 |
| 42.5° | 2420.5 | 2399.9 | 2424.4 | 2465.7 | 2548.3 | 2647.6 | 2734.1 | 2765.6 | 2716.4 | 2636.8 | 2573.9 |
| 45°   | 2313.4 | 2288.8 | 2318.3 | 2373.3 | 2461.8 | 2574.9 | 2642.7 | 2631.9 | 2548.3 | 2479.5 | 2393.0 |
| 47.5° | 2201.3 | 2171.8 | 2201.3 | 2267.1 | 2366.4 | 2486.4 | 2535.5 | 2486.4 | 2381.2 | 2294.7 | 2224.9 |
| 50°   | 2091.2 | 2056.7 | 2085.3 | 2184.6 | 2281.9 | 2374.3 | 2373.3 | 2278.0 | 2215.0 | 2120.7 | 2059.7 |
| 52.5° | 1982.0 | 1932.9 | 1961.4 | 2069.5 | 2166.9 | 2272.1 | 2194.4 | 2105.9 | 2030.2 | 1947.6 | 1928.0 |
| 55°   | 1847.3 | 1794.2 | 1832.6 | 1989.9 | 2064.6 | 2126.6 | 2002.7 | 1925.0 | 1850.3 | 1809.0 | 1784.4 |
| 57.5° | 1719.5 | 1661.5 | 1694.9 | 1880.8 | 1935.8 | 1951.6 | 1837.5 | 1727.4 | 1683.2 | 1669.4 | 1634.0 |
| 60°   | 1587.8 | 1521.9 | 1553.4 | 1767.7 | 1806.0 | 1742.1 | 1630.1 | 1544.5 | 1535.7 | 1508.2 | 1480.6 |
| 62.5° | 1461.9 | 1389.2 | 1408.9 | 1627.1 | 1644.8 | 1528.8 | 1425.6 | 1403.0 | 1381.3 | 1353.8 | 1339.0 |
| 65°   | 1317.4 | 1241.7 | 1269.2 | 1477.7 | 1461.0 | 1311.5 | 1253.5 | 1248.6 | 1220.1 | 1197.5 | 1219.1 |
| 67.5° | 1184.7 | 1095.2 | 1133.6 | 1314.5 | 1238.8 | 1116.9 | 1093.3 | 1081.5 | 1058.9 | 1071.6 | 844.5  |
| 70°   | 1039.2 | 941.9  | 994.0  | 1138.5 | 1026.4 | 945.8  | 936.9  | 919.2  | 920.2  | 731.5  | 616.4  |
| 72.5° | 877.0  | 792.4  | 868.1  | 945.8  | 812.1  | 788.5  | 775.7  | 773.7  | 624.3  | 507.3  | 478.8  |
| 75°   | 734.4  | 648.9  | 730.5  | 760.0  | 646.9  | 631.2  | 630.2  | 521.1  | 410.0  | 391.3  | 382.4  |
| 77.5° | 573.2  | 507.3  | 585.0  | 540.7  | 496.5  | 478.8  | 429.6  | 322.5  | 308.7  | 295.9  | 111.1  |
| 80°   | 386.4  | 391.3  | 436.5  | 372.6  | 353.9  | 301.8  | 237.9  | 228.1  | 196.6  | 78.7   | 61.9   |
| 82.5° | 235.0  | 294.9  | 278.2  | 233.0  | 228.1  | 164.2  | 150.4  | 76.7   | 57.0   | 45.2   | 39.3   |
| 85°   | 121.9  | 149.4  | 143.5  | 126.8  | 94.4   | 84.6   | 47.2   | 36.4   | 29.5   | 22.6   | 18.7   |
| 87.5° | 41.3   | 55.1   | 53.1   | 42.3   | 32.4   | 25.6   | 16.7   | 13.8   | 9.8    | 7.9    | 6.9    |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 189°   | 190°   | 191°   | 192°   | 193°   | 194°   | 195°   | 196°   | 197°   | 198°   | 199°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3301.4 | 3301.4 | 3299.4 | 3301.4 | 3302.4 | 3300.4 | 3300.4 | 3302.4 | 3303.4 | 3304.4 | 3309.3 |
| 5°    | 3306.3 | 3308.3 | 3311.2 | 3317.1 | 3318.1 | 3329.9 | 3334.8 | 3337.8 | 3340.7 | 3341.7 | 3334.8 |
| 7.5°  | 3317.1 | 3324.0 | 3329.9 | 3328.9 | 3322.1 | 3303.4 | 3297.5 | 3292.6 | 3301.4 | 3324.0 | 3350.6 |
| 10°   | 3327.0 | 3295.5 | 3236.5 | 3317.1 | 3292.6 | 3315.2 | 3382.0 | 3396.8 | 3442.0 | 3505.9 | 3524.6 |
| 12.5° | 3259.1 | 3345.7 | 3364.3 | 3273.9 | 3441.0 | 3379.1 | 3452.8 | 3517.7 | 3536.4 | 3601.3 | 3562.0 |
| 15°   | 3331.9 | 3374.2 | 3402.7 | 3493.1 | 3483.3 | 3536.4 | 3557.0 | 3544.3 | 3547.2 | 3563.9 | 3608.2 |
| 17.5° | 3330.9 | 3415.5 | 3434.1 | 3495.1 | 3536.4 | 3537.4 | 3531.5 | 3525.6 | 3541.3 | 3554.1 | 3527.5 |
| 20°   | 3387.9 | 3415.5 | 3451.8 | 3476.4 | 3484.3 | 3494.1 | 3512.8 | 3498.0 | 3468.6 | 3440.0 | 3428.2 |
| 22.5° | 3359.4 | 3421.4 | 3452.8 | 3456.8 | 3451.8 | 3421.4 | 3393.8 | 3352.5 | 3338.8 | 3324.0 | 3328.9 |
| 25°   | 3365.3 | 3393.8 | 3389.9 | 3374.2 | 3353.5 | 3296.5 | 3282.7 | 3265.0 | 3238.5 | 3174.6 | 3116.6 |
| 27.5° | 3323.0 | 3308.3 | 3290.6 | 3252.3 | 3214.9 | 3184.4 | 3150.0 | 3093.0 | 3045.8 | 2977.0 | 2951.4 |
| 30°   | 3252.3 | 3193.3 | 3150.0 | 3127.4 | 3091.0 | 3039.9 | 2987.8 | 2918.0 | 2858.0 | 2844.3 | 2831.5 |
| 32.5° | 3116.6 | 3058.6 | 3023.2 | 2968.1 | 2906.2 | 2845.2 | 2785.3 | 2757.7 | 2745.0 | 2746.9 | 2735.1 |
| 35°   | 2978.0 | 2926.8 | 2873.7 | 2791.2 | 2745.0 | 2684.0 | 2662.4 | 2656.5 | 2644.7 | 2631.9 | 2618.1 |
| 37.5° | 2830.5 | 2770.5 | 2690.9 | 2641.7 | 2595.5 | 2570.9 | 2560.1 | 2551.3 | 2530.6 | 2508.0 | 2492.3 |
| 40°   | 2687.9 | 2579.8 | 2535.5 | 2487.4 | 2473.6 | 2462.8 | 2447.1 | 2425.4 | 2396.9 | 2393.0 | 2386.1 |
| 42.5° | 2497.2 | 2419.5 | 2381.2 | 2371.4 | 2354.6 | 2336.0 | 2322.2 | 2298.6 | 2286.8 | 2294.7 | 2300.6 |
| 45°   | 2316.3 | 2277.0 | 2264.2 | 2252.4 | 2220.9 | 2194.4 | 2185.5 | 2177.7 | 2187.5 | 2230.8 | 2127.5 |
| 47.5° | 2169.8 | 2154.1 | 2138.4 | 2118.7 | 2089.2 | 2069.5 | 2078.4 | 2086.2 | 2095.1 | 1777.5 | 1622.2 |
| 50°   | 2043.0 | 2021.4 | 1996.8 | 1975.1 | 1957.5 | 1955.5 | 2001.7 | 1863.1 | 1560.3 | 1552.4 | 1395.1 |
| 52.5° | 1904.4 | 1871.9 | 1857.2 | 1844.4 | 1852.3 | 1881.7 | 1557.3 | 1445.2 | 1386.2 | 1204.4 | 1123.7 |
| 55°   | 1754.9 | 1726.4 | 1726.4 | 1738.2 | 1695.9 | 1374.4 | 1357.7 | 1173.9 | 1062.8 | 1031.3 | 1018.5 |
| 57.5° | 1605.5 | 1602.5 | 1619.2 | 1480.6 | 1247.6 | 1196.5 | 1005.8 | 965.5  | 947.8  | 943.8  | 923.2  |
| 60°   | 1468.8 | 1496.4 | 1252.5 | 1152.3 | 1001.8 | 903.5  | 876.0  | 871.1  | 852.4  | 845.5  | 826.8  |
| 62.5° | 1359.7 | 1127.7 | 1050.0 | 857.3  | 807.2  | 794.4  | 779.6  | 772.8  | 756.0  | 667.6  | 195.6  |
| 65°   | 982.2  | 928.1  | 753.1  | 720.6  | 716.7  | 698.0  | 692.1  | 622.3  | 146.5  | 98.3   | 83.6   |
| 67.5° | 741.3  | 657.7  | 635.1  | 629.2  | 610.5  | 573.2  | 170.1  | 97.3   | 83.6   | 72.8   | 63.9   |
| 70°   | 569.2  | 554.5  | 537.8  | 524.0  | 154.4  | 96.3   | 83.6   | 70.8   | 61.0   | 54.1   | 49.2   |
| 72.5° | 466.0  | 456.2  | 265.5  | 101.3  | 82.6   | 69.8   | 61.9   | 54.1   | 47.2   | 43.3   | 39.3   |
| 75°   | 364.7  | 101.3  | 83.6   | 69.8   | 60.0   | 51.1   | 45.2   | 40.3   | 36.4   | 33.4   | 30.5   |
| 77.5° | 82.6   | 66.9   | 57.0   | 48.2   | 43.3   | 38.3   | 34.4   | 29.5   | 26.5   | 23.6   | 19.7   |
| 80°   | 51.1   | 44.2   | 37.4   | 34.4   | 29.5   | 24.6   | 21.6   | 19.7   | 15.7   | 14.7   | 12.8   |
| 82.5° | 33.4   | 26.5   | 23.6   | 19.7   | 15.7   | 14.7   | 12.8   | 9.8    | 8.8    | 7.9    | 6.9    |
| 85°   | 14.7   | 12.8   | 10.8   | 8.8    | 6.9    | 5.9    | 4.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 87.5° | 4.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3311.2 | 3328.9 | 3345.7 | 3340.7 | 3323.0 | 3295.5 | 3287.7 | 3276.8 | 3284.7 | 3301.4 | 3308.3 |
| 5°    | 3334.8 | 3325.0 | 3360.4 | 3412.5 | 3497.1 | 3504.9 | 3563.9 | 3577.7 | 3624.9 | 3654.4 | 3653.4 |
| 7.5°  | 3368.3 | 3507.9 | 3565.9 | 3628.8 | 3657.3 | 3650.4 | 3659.3 | 3652.4 | 3641.6 | 3636.7 | 3630.8 |
| 10°   | 3538.4 | 3644.5 | 3666.2 | 3666.2 | 3621.9 | 3562.0 | 3536.4 | 3492.1 | 3403.7 | 3405.6 | 3390.9 |
| 12.5° | 3637.7 | 3675.0 | 3623.9 | 3580.6 | 3402.7 | 3333.9 | 3259.1 | 3223.7 | 3203.1 | 3171.6 | 3183.4 |
| 15°   | 3585.5 | 3532.5 | 3502.0 | 3362.4 | 3253.2 | 3129.4 | 3131.3 | 3109.7 | 3087.1 | 3089.1 | 3074.3 |
| 17.5° | 3508.9 | 3466.6 | 3250.3 | 3153.9 | 3100.9 | 3052.7 | 3043.8 | 3015.3 | 3000.6 | 2995.7 | 2994.7 |
| 20°   | 3403.7 | 3251.3 | 3090.0 | 3066.4 | 3002.5 | 2947.5 | 2938.6 | 2947.5 | 2992.7 | 2912.1 | 2638.8 |
| 22.5° | 3280.8 | 3061.5 | 3014.3 | 2947.5 | 2904.2 | 2882.6 | 2936.7 | 2690.9 | 2319.2 | 2364.5 | 2316.3 |
| 25°   | 3072.3 | 2977.0 | 2896.4 | 2845.2 | 2840.3 | 2707.6 | 2256.3 | 2209.1 | 1970.2 | 1842.4 | 1698.9 |
| 27.5° | 2920.0 | 2878.7 | 2794.1 | 2785.3 | 2721.4 | 2214.1 | 1979.1 | 1719.5 | 1624.2 | 1609.4 | 1578.0 |
| 30°   | 2827.5 | 2768.5 | 2717.4 | 2494.3 | 2171.8 | 1782.4 | 1587.8 | 1551.4 | 1534.7 | 1517.0 | 1489.5 |
| 32.5° | 2716.4 | 2660.4 | 2685.0 | 2097.1 | 1731.3 | 1534.7 | 1495.4 | 1468.8 | 1438.3 | 1426.5 | 1327.3 |
| 35°   | 2603.4 | 2577.8 | 2098.0 | 1762.8 | 1488.5 | 1441.3 | 1411.8 | 1384.3 | 1101.1 | 266.4  | 90.4   |
| 37.5° | 2482.5 | 2476.6 | 1885.7 | 1462.9 | 1394.1 | 1349.9 | 1266.3 | 261.5  | 61.9   | 42.3   | 31.5   |
| 40°   | 2388.1 | 1886.7 | 1490.5 | 1371.5 | 1315.5 | 1245.7 | 175.0  | 43.3   | 27.5   | 16.7   | 10.8   |
| 42.5° | 2325.1 | 1696.9 | 1334.1 | 1286.9 | 1165.0 | 128.8  | 44.2   | 18.7   | 10.8   | 8.8    | 6.9    |
| 45°   | 1792.3 | 1340.0 | 1246.6 | 1197.5 | 147.5  | 44.2   | 25.6   | 8.8    | 6.9    | 5.9    | 3.9    |
| 47.5° | 1653.7 | 1217.1 | 1162.1 | 261.5  | 49.2   | 23.6   | 17.7   | 5.9    | 3.9    | 3.9    | 3.9    |
| 50°   | 1252.5 | 1124.7 | 925.1  | 63.9   | 31.5   | 16.7   | 12.8   | 3.9    | 3.9    | 3.9    | 2.9    |
| 52.5° | 1098.2 | 1038.2 | 99.3   | 42.3   | 24.6   | 12.8   | 7.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 55°   | 1003.8 | 658.7  | 59.0   | 32.4   | 20.6   | 11.8   | 4.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 57.5° | 918.3  | 88.5   | 43.3   | 27.5   | 18.7   | 10.8   | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 60°   | 778.7  | 63.9   | 35.4   | 24.6   | 17.7   | 9.8    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 62.5° | 101.3  | 50.1   | 30.5   | 21.6   | 12.8   | 7.9    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 65°   | 73.7   | 39.3   | 27.5   | 14.7   | 7.9    | 2.9    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 67.5° | 57.0   | 32.4   | 20.6   | 12.8   | 6.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 70°   | 45.2   | 27.5   | 16.7   | 10.8   | 5.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 72.5° | 35.4   | 19.7   | 11.8   | 5.9    | 3.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 75°   | 26.5   | 15.7   | 8.8    | 4.9    | 2.0    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 77.5° | 17.7   | 9.8    | 6.9    | 3.9    | 3.9    | 3.9    | 4.9    | 4.9    | 2.9    | 2.9    | 2.9    |
| 80°   | 11.8   | 6.9    | 4.9    | 4.9    | 4.9    | 3.9    | 4.9    | 4.9    | 2.9    | 4.9    | 2.9    |
| 82.5° | 5.9    | 4.9    | 4.9    | 3.9    | 3.9    | 2.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    |
| 85°   | 3.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 2.9    |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 2.9    |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3299.4 | 3302.4 | 3294.5 | 3336.8 | 3315.2 | 3317.1 | 3326.0 | 3303.4 | 3308.3 | 3292.6 | 3281.8 |
| 5°    | 3657.3 | 3663.2 | 3669.1 | 3671.1 | 3675.0 | 3679.9 | 3674.0 | 3671.1 | 3665.2 | 3645.5 | 3624.9 |
| 7.5°  | 3601.3 | 3594.4 | 3591.4 | 3595.4 | 3602.3 | 3605.2 | 3600.3 | 3607.2 | 3632.7 | 3643.6 | 3650.4 |
| 10°   | 3306.3 | 3274.9 | 3296.5 | 3293.6 | 3269.0 | 3351.6 | 3328.9 | 3341.7 | 3350.6 | 3441.0 | 3496.1 |
| 12.5° | 3165.7 | 3185.4 | 3148.0 | 3129.4 | 3153.9 | 3170.7 | 3187.4 | 3152.0 | 3201.1 | 3178.5 | 3251.3 |
| 15°   | 3047.8 | 3036.0 | 3032.0 | 3033.0 | 3028.1 | 3051.7 | 3057.6 | 3065.5 | 3072.3 | 3102.8 | 3114.6 |
| 17.5° | 2994.7 | 3014.3 | 3022.2 | 3028.1 | 3018.3 | 3007.5 | 2996.6 | 2980.9 | 2985.8 | 2978.0 | 3000.6 |
| 20°   | 2454.9 | 2389.1 | 2385.1 | 2423.5 | 2381.2 | 2404.8 | 2461.8 | 2843.3 | 2830.5 | 2978.9 | 2928.8 |
| 22.5° | 2048.9 | 1986.9 | 1933.9 | 1887.6 | 1953.5 | 1981.0 | 2087.2 | 2207.2 | 2401.8 | 2371.4 | 2582.7 |
| 25°   | 1673.3 | 1650.7 | 1636.9 | 1630.1 | 1635.0 | 1633.0 | 1656.6 | 1712.6 | 1801.1 | 2009.6 | 2278.9 |
| 27.5° | 1565.2 | 1554.4 | 1549.4 | 1533.7 | 1545.5 | 1541.6 | 1560.3 | 1572.1 | 1598.6 | 1619.2 | 1706.7 |
| 30°   | 1479.6 | 1466.9 | 1458.0 | 1441.3 | 1453.1 | 1454.1 | 1460.0 | 1490.5 | 1501.3 | 1519.0 | 1546.5 |
| 32.5° | 540.7  | 318.5  | 298.9  | 284.1  | 310.7  | 405.1  | 710.8  | 1242.7 | 1417.7 | 1431.5 | 1462.9 |
| 35°   | 53.1   | 44.2   | 39.3   | 39.3   | 40.3   | 44.2   | 59.0   | 155.3  | 284.1  | 1098.2 | 1374.4 |
| 37.5° | 20.6   | 17.7   | 14.7   | 13.8   | 14.7   | 16.7   | 22.6   | 29.5   | 40.3   | 83.6   | 372.6  |
| 40°   | 8.8    | 7.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 9.8    | 14.7   | 27.5   | 43.3   |
| 42.5° | 5.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 6.9    | 8.8    | 17.7   |
| 45°   | 3.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 4.9    | 7.9    |
| 47.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    |
| 50°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.0    | 2.9    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 52.5° | 2.9    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 2.9    |
| 55°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    |
| 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    | 2.9    | 2.9    | 2.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.9    | 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°   | 2.9    | 2.9    | 2.0    | 2.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.0    | 2.0    |
| 72.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 5.9    | 5.9    | 3.9    |
| 75°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.9    | 5.9    | 4.9    |
| 77.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.9    | 4.9    | 4.9    |
| 80°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    |
| 85°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 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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CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 340°   | 341°   | 342°   | 343°   | 344°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3263.1 | 3262.1 | 3282.7 | 3298.5 | 3292.6 | 3298.5 | 3305.3 | 3306.3 | 3308.3 | 3300.4 | 3297.5 |
| 5°    | 3585.5 | 3555.1 | 3496.1 | 3453.8 | 3404.6 | 3315.2 | 3270.9 | 3275.9 | 3276.8 | 3273.9 | 3277.8 |
| 7.5°  | 3647.5 | 3644.5 | 3623.9 | 3615.0 | 3581.6 | 3517.7 | 3415.5 | 3397.8 | 3354.5 | 3327.0 | 3304.4 |
| 10°   | 3492.1 | 3562.9 | 3581.6 | 3613.1 | 3632.7 | 3620.9 | 3534.4 | 3521.6 | 3494.1 | 3462.7 | 3469.5 |
| 12.5° | 3324.0 | 3382.0 | 3385.0 | 3556.1 | 3594.4 | 3598.3 | 3564.9 | 3582.6 | 3586.5 | 3515.7 | 3474.5 |
| 15°   | 3117.6 | 3145.1 | 3203.1 | 3362.4 | 3478.4 | 3551.1 | 3572.8 | 3582.6 | 3534.4 | 3531.5 | 3514.8 |
| 17.5° | 3027.1 | 3044.8 | 3071.4 | 3160.8 | 3336.8 | 3444.0 | 3535.4 | 3528.5 | 3547.2 | 3533.4 | 3491.2 |
| 20°   | 2913.1 | 2927.8 | 2975.0 | 3020.2 | 3106.8 | 3249.3 | 3420.4 | 3433.2 | 3457.7 | 3454.8 | 3466.6 |
| 22.5° | 2911.1 | 2859.0 | 2866.9 | 2902.3 | 2992.7 | 3120.5 | 3302.4 | 3344.7 | 3360.4 | 3371.2 | 3384.0 |
| 25°   | 2309.4 | 2723.3 | 2799.0 | 2821.6 | 2880.6 | 2955.3 | 3169.7 | 3185.4 | 3214.9 | 3263.1 | 3298.5 |
| 27.5° | 2000.7 | 2281.9 | 2584.7 | 2742.0 | 2779.4 | 2841.3 | 2969.1 | 2992.7 | 3093.0 | 3104.8 | 3159.8 |
| 30°   | 1578.9 | 1796.2 | 2248.5 | 2627.0 | 2688.9 | 2732.2 | 2822.6 | 2869.8 | 2913.1 | 2960.3 | 3018.3 |
| 32.5° | 1485.5 | 1519.9 | 1770.7 | 2173.7 | 2655.5 | 2623.0 | 2689.9 | 2718.4 | 2765.6 | 2806.9 | 2849.2 |
| 35°   | 1400.0 | 1423.6 | 1476.7 | 1780.5 | 2162.9 | 2533.6 | 2578.8 | 2597.5 | 2624.0 | 2655.5 | 2686.0 |
| 37.5° | 1310.5 | 1345.9 | 1382.3 | 1463.9 | 2000.7 | 2462.8 | 2461.8 | 2483.4 | 2499.2 | 2525.7 | 2551.3 |
| 40°   | 237.9  | 1235.8 | 1294.8 | 1347.9 | 1551.4 | 1964.3 | 2351.7 | 2361.5 | 2372.3 | 2389.1 | 2415.6 |
| 42.5° | 38.3   | 206.5  | 1213.2 | 1264.3 | 1322.3 | 1758.9 | 2301.6 | 2261.2 | 2254.4 | 2266.2 | 2289.8 |
| 45°   | 19.7   | 50.1   | 243.8  | 1180.8 | 1232.9 | 1403.0 | 1881.7 | 2191.4 | 2184.6 | 2161.9 | 2166.9 |
| 47.5° | 14.7   | 31.5   | 60.0   | 408.0  | 1154.2 | 1204.4 | 1736.2 | 1717.6 | 1848.3 | 2099.0 | 2060.7 |
| 50°   | 12.8   | 21.6   | 35.4   | 83.6   | 1019.5 | 1109.0 | 1337.1 | 1562.2 | 1631.0 | 1639.9 | 1940.7 |
| 52.5° | 11.8   | 14.7   | 25.6   | 54.1   | 214.3  | 1025.4 | 1087.4 | 1166.0 | 1282.0 | 1530.8 | 1524.9 |
| 55°   | 10.8   | 13.8   | 21.6   | 36.4   | 74.7   | 924.2  | 988.1  | 1002.8 | 1027.4 | 1146.4 | 1303.7 |
| 57.5° | 5.9    | 12.8   | 20.6   | 31.5   | 56.0   | 169.1  | 896.6  | 908.4  | 928.1  | 933.0  | 989.0  |
| 60°   | 2.9    | 11.8   | 18.7   | 27.5   | 41.3   | 78.7   | 806.2  | 819.9  | 831.7  | 833.7  | 851.4  |
| 62.5° | 2.0    | 10.8   | 15.7   | 25.6   | 34.4   | 56.0   | 190.7  | 389.3  | 740.3  | 740.3  | 761.0  |
| 65°   | 2.0    | 7.9    | 9.8    | 16.7   | 31.5   | 46.2   | 80.6   | 93.4   | 181.9  | 447.3  | 667.6  |
| 67.5° | 2.0    | 2.9    | 8.8    | 13.8   | 23.6   | 35.4   | 59.0   | 68.8   | 82.6   | 94.4   | 175.0  |
| 70°   | 2.0    | 2.0    | 7.9    | 8.8    | 14.7   | 26.5   | 42.3   | 48.2   | 56.0   | 63.9   | 73.7   |
| 72.5° | 2.0    | 2.0    | 6.9    | 6.9    | 9.8    | 17.7   | 32.4   | 35.4   | 40.3   | 45.2   | 52.1   |
| 75°   | 4.9    | 3.9    | 5.9    | 5.9    | 6.9    | 13.8   | 24.6   | 27.5   | 29.5   | 33.4   | 38.3   |
| 77.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 8.8    | 15.7   | 17.7   | 20.6   | 22.6   | 26.5   |
| 80°   | 3.9    | 3.9    | 3.9    | 4.9    | 4.9    | 5.9    | 9.8    | 10.8   | 11.8   | 14.7   | 15.7   |
| 82.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 5.9    | 6.9    | 8.8    |
| 85°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.0    | 2.0    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 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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CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 346°   | 347°   | 348°   | 349°   | 350°   | 351°   | 352°   | 353°   | 354°   | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3296.5 | 3290.6 | 3285.7 | 3288.6 | 3279.8 | 3275.9 | 3278.8 | 3279.8 | 3281.8 | 3286.7 | 3287.7 |
| 5°    | 3287.7 | 3285.7 | 3294.5 | 3299.4 | 3297.5 | 3299.4 | 3299.4 | 3295.5 | 3289.6 | 3293.6 | 3284.7 |
| 7.5°  | 3281.8 | 3269.0 | 3259.1 | 3261.1 | 3251.3 | 3263.1 | 3273.9 | 3289.6 | 3294.5 | 3294.5 | 3284.7 |
| 10°   | 3383.0 | 3369.3 | 3314.2 | 3276.8 | 3252.3 | 3230.6 | 3281.8 | 3229.6 | 3254.2 | 3160.8 | 3268.0 |
| 12.5° | 3466.6 | 3485.3 | 3460.7 | 3358.4 | 3340.7 | 3275.9 | 3313.2 | 3249.3 | 3230.6 | 3123.5 | 3157.9 |
| 15°   | 3500.0 | 3464.6 | 3456.8 | 3428.2 | 3389.9 | 3371.2 | 3270.9 | 3260.1 | 3229.6 | 3241.4 | 3196.2 |
| 17.5° | 3470.5 | 3488.2 | 3464.6 | 3445.9 | 3406.6 | 3362.4 | 3302.4 | 3249.3 | 3207.0 | 3112.7 | 3192.3 |
| 20°   | 3442.0 | 3465.6 | 3394.8 | 3406.6 | 3410.5 | 3359.4 | 3328.0 | 3283.7 | 3230.6 | 3142.1 | 3073.3 |
| 22.5° | 3394.8 | 3378.1 | 3384.0 | 3366.3 | 3351.6 | 3358.4 | 3315.2 | 3284.7 | 3195.2 | 3154.9 | 3061.5 |
| 25°   | 3318.1 | 3312.2 | 3328.0 | 3326.0 | 3290.6 | 3278.8 | 3257.2 | 3224.7 | 3189.3 | 3124.4 | 3047.8 |
| 27.5° | 3193.3 | 3223.7 | 3251.3 | 3264.1 | 3245.4 | 3213.9 | 3202.1 | 3183.4 | 3158.9 | 3093.0 | 3036.0 |
| 30°   | 3061.5 | 3095.9 | 3127.4 | 3154.9 | 3171.6 | 3157.9 | 3147.1 | 3136.2 | 3098.9 | 3055.6 | 2991.7 |
| 32.5° | 2911.1 | 2956.3 | 2999.6 | 3033.0 | 3069.4 | 3080.2 | 3072.3 | 3063.5 | 3032.0 | 2992.7 | 2941.6 |
| 35°   | 2737.1 | 2799.0 | 2861.9 | 2921.9 | 2937.7 | 2963.2 | 2988.8 | 2974.0 | 2957.3 | 2918.0 | 2870.8 |
| 37.5° | 2589.6 | 2633.9 | 2679.1 | 2754.8 | 2809.8 | 2842.3 | 2887.5 | 2893.4 | 2864.9 | 2846.2 | 2784.3 |
| 40°   | 2437.2 | 2477.5 | 2543.4 | 2587.6 | 2663.4 | 2700.7 | 2748.9 | 2770.5 | 2763.6 | 2752.8 | 2698.7 |
| 42.5° | 2317.3 | 2336.9 | 2380.2 | 2419.5 | 2494.3 | 2570.9 | 2613.2 | 2636.8 | 2661.4 | 2652.5 | 2625.0 |
| 45°   | 2189.5 | 2207.2 | 2221.9 | 2256.3 | 2329.1 | 2396.9 | 2449.0 | 2484.4 | 2528.7 | 2549.3 | 2515.9 |
| 47.5° | 2062.6 | 2067.6 | 2085.3 | 2113.8 | 2157.0 | 2209.1 | 2296.6 | 2349.7 | 2391.0 | 2431.3 | 2409.7 |
| 50°   | 1965.3 | 1947.6 | 1950.6 | 1968.3 | 2003.7 | 2054.8 | 2117.7 | 2192.4 | 2239.6 | 2288.8 | 2293.7 |
| 52.5° | 1717.6 | 1861.1 | 1826.7 | 1836.5 | 1855.2 | 1879.8 | 1945.7 | 2019.4 | 2077.4 | 2119.7 | 2161.9 |
| 55°   | 1441.3 | 1469.8 | 1746.1 | 1706.7 | 1718.5 | 1740.2 | 1770.7 | 1844.4 | 1900.4 | 1959.4 | 2018.4 |
| 57.5° | 1117.8 | 1330.2 | 1341.0 | 1596.6 | 1590.7 | 1592.7 | 1618.3 | 1660.5 | 1716.6 | 1790.3 | 1840.5 |
| 60°   | 869.1  | 958.6  | 1132.6 | 1221.1 | 1445.2 | 1453.1 | 1467.8 | 1492.4 | 1540.6 | 1610.4 | 1690.0 |
| 62.5° | 766.9  | 778.7  | 840.6  | 973.3  | 1118.8 | 1294.8 | 1326.3 | 1330.2 | 1351.8 | 1421.6 | 1514.1 |
| 65°   | 673.5  | 681.3  | 700.0  | 713.8  | 835.7  | 1005.8 | 1157.2 | 1181.7 | 1195.5 | 1236.8 | 1315.5 |
| 67.5° | 464.0  | 586.9  | 603.7  | 613.5  | 625.3  | 703.9  | 891.7  | 1016.6 | 1032.3 | 1068.7 | 1137.5 |
| 70°   | 89.5   | 185.8  | 508.3  | 519.1  | 525.0  | 542.7  | 573.2  | 771.8  | 876.0  | 910.4  | 941.9  |
| 72.5° | 61.0   | 71.8   | 86.5   | 204.5  | 432.6  | 442.4  | 449.3  | 474.9  | 650.8  | 751.1  | 767.8  |
| 75°   | 44.2   | 49.2   | 58.0   | 71.8   | 88.5   | 288.1  | 356.9  | 369.7  | 382.4  | 528.0  | 612.5  |
| 77.5° | 31.5   | 35.4   | 39.3   | 46.2   | 54.1   | 69.8   | 100.3  | 276.3  | 289.0  | 295.9  | 417.8  |
| 80°   | 17.7   | 21.6   | 26.5   | 30.5   | 34.4   | 39.3   | 51.1   | 63.9   | 142.6  | 208.4  | 219.2  |
| 82.5° | 9.8    | 11.8   | 13.8   | 16.7   | 18.7   | 23.6   | 28.5   | 34.4   | 45.2   | 66.9   | 141.6  |
| 85°   | 4.9    | 4.9    | 4.9    | 6.9    | 7.9    | 10.8   | 12.8   | 14.7   | 20.6   | 28.5   | 39.3   |
| 87.5° | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 4.9    | 4.9    | 4.9    | 5.9    | 8.8    | 12.8   |
| 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: P1213817

CATALOG NUMBER: 4SNLED-LD5-54SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 356°   | 357°   | 358°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3275.9 | 3275.9 | 3275.9 | 3275.9 | 3275.9 |
| 2.5°  | 3288.6 | 3285.7 | 3285.7 | 3297.5 | 3294.5 |
| 5°    | 3282.7 | 3279.8 | 3278.8 | 3291.6 | 3285.7 |
| 7.5°  | 3277.8 | 3267.0 | 3264.1 | 3275.9 | 3270.9 |
| 10°   | 3258.2 | 3250.3 | 3255.2 | 3251.3 | 3249.3 |
| 12.5° | 3224.7 | 3219.8 | 3199.2 | 3201.1 | 3217.8 |
| 15°   | 3164.8 | 3184.4 | 3149.0 | 3180.5 | 3187.4 |
| 17.5° | 3054.6 | 3098.9 | 3133.3 | 3152.0 | 3154.9 |
| 20°   | 3103.8 | 3118.6 | 3100.9 | 3101.8 | 3113.6 |
| 22.5° | 3039.9 | 3046.8 | 3051.7 | 3045.8 | 3071.4 |
| 25°   | 2937.7 | 2911.1 | 2968.1 | 2979.9 | 3021.2 |
| 27.5° | 2906.2 | 2884.6 | 2911.1 | 2909.1 | 2943.5 |
| 30°   | 2880.6 | 2810.8 | 2822.6 | 2841.3 | 2883.6 |
| 32.5° | 2844.3 | 2734.1 | 2722.3 | 2763.6 | 2810.8 |
| 35°   | 2780.3 | 2676.1 | 2648.6 | 2675.1 | 2745.9 |
| 37.5° | 2726.3 | 2595.5 | 2540.5 | 2575.9 | 2668.3 |
| 40°   | 2645.7 | 2532.6 | 2447.1 | 2478.5 | 2587.6 |
| 42.5° | 2549.3 | 2478.5 | 2346.8 | 2368.4 | 2493.3 |
| 45°   | 2452.0 | 2389.1 | 2249.4 | 2260.3 | 2408.7 |
| 47.5° | 2352.7 | 2294.7 | 2148.2 | 2150.1 | 2300.6 |
| 50°   | 2255.3 | 2178.7 | 2057.7 | 2023.3 | 2185.5 |
| 52.5° | 2128.5 | 2057.7 | 1966.3 | 1910.3 | 2076.4 |
| 55°   | 2008.6 | 1928.9 | 1862.1 | 1775.6 | 1952.5 |
| 57.5° | 1891.6 | 1803.1 | 1757.9 | 1646.8 | 1811.9 |
| 60°   | 1731.3 | 1689.1 | 1622.2 | 1516.0 | 1685.1 |
| 62.5° | 1567.1 | 1553.4 | 1485.5 | 1375.4 | 1528.8 |
| 65°   | 1375.4 | 1407.9 | 1338.1 | 1243.7 | 1366.6 |
| 67.5° | 1194.5 | 1252.5 | 1175.8 | 1117.8 | 1210.3 |
| 70°   | 1001.8 | 1068.7 | 1025.4 | 1004.8 | 1044.1 |
| 72.5° | 812.1  | 877.0  | 880.9  | 866.2  | 878.9  |
| 75°   | 627.2  | 699.0  | 738.3  | 715.7  | 718.7  |
| 77.5° | 475.8  | 510.3  | 553.5  | 571.2  | 567.3  |
| 80°   | 294.0  | 353.9  | 389.3  | 425.7  | 412.9  |
| 82.5° | 148.5  | 198.6  | 241.9  | 281.2  | 262.5  |
| 85°   | 61.9   | 79.6   | 111.1  | 146.5  | 140.6  |
| 87.5° | 18.7   | 31.5   | 33.4   | 47.2   | 44.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)