

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P834278

Luminaire Tested: **ORLG-12-4-INS-ASY2-LD4-3STD-40-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834278  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-12-4-INS-ASY2-LD4-3STD-40-120-EDD-90  
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

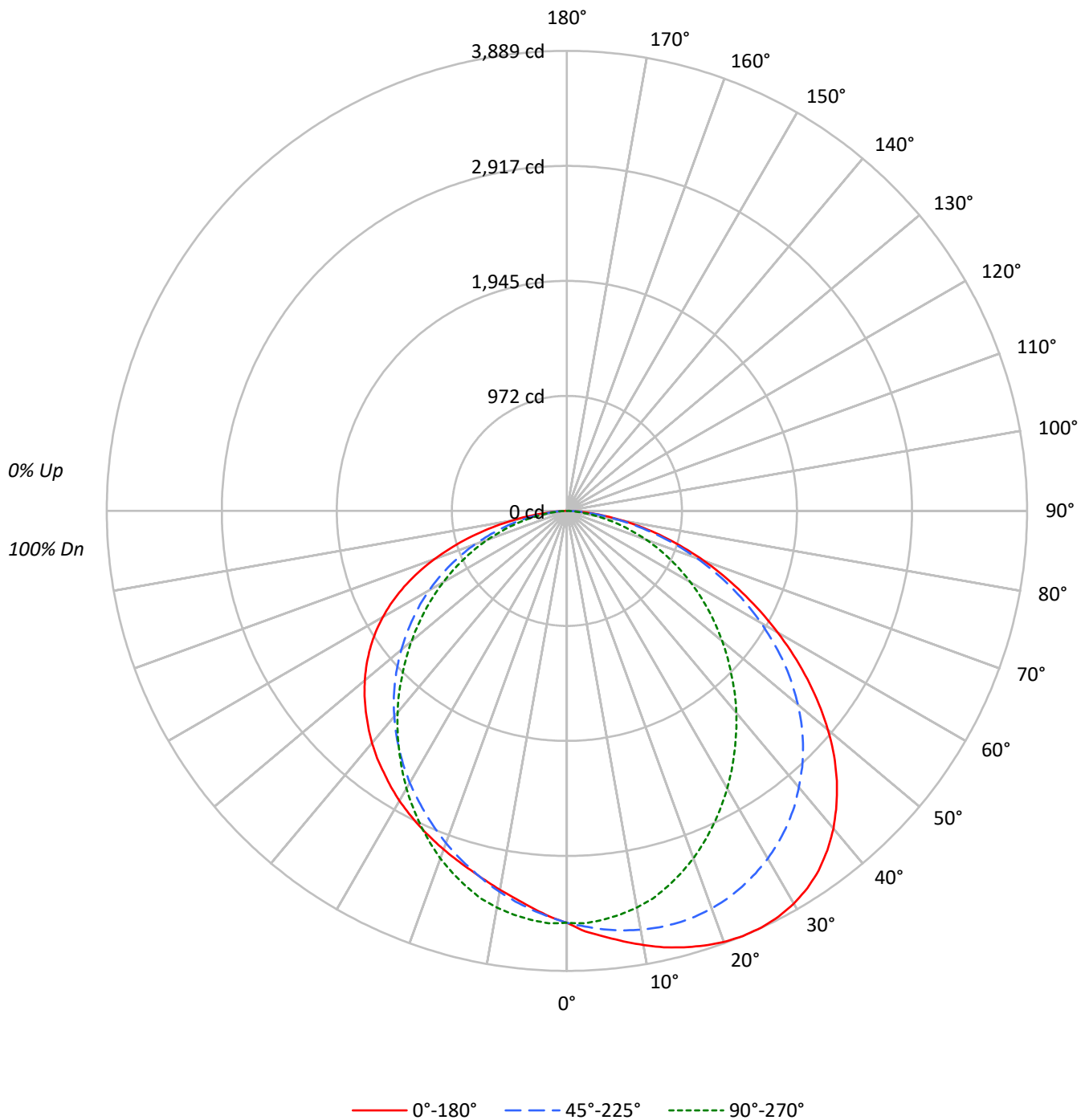
Lumens per Lamp: N/A  
Luminaire Lumens: 10242.9 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
Input Voltage (V): 120  
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: 28.75 FT

TEST NUMBER: P834278

CATALOG NUMBER: ORLG-12-4-INS-ASY2-LD4-3STD-40-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**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 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 58  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 52  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 45  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 40  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 26  | 26  | 24  |

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

|     | 0°    | 90°  | 180° |
|-----|-------|------|------|
| 0°  | 9371  | 9371 | 9371 |
| 5°  | 9756  | 9376 | 9098 |
| 10° | 10183 | 9305 | 8887 |
| 15° | 10640 | 9156 | 8759 |
| 20° | 11105 | 8954 | 8723 |
| 25° | 11541 | 8694 | 8737 |
| 30° | 11917 | 8422 | 8793 |
| 35° | 12189 | 8121 | 8866 |
| 40° | 12312 | 7821 | 8997 |
| 45° | 12278 | 7491 | 9145 |
| 50° | 12061 | 7176 | 9333 |
| 55° | 11648 | 6845 | 9527 |
| 60° | 11081 | 6493 | 9671 |
| 65° | 10405 | 6097 | 9659 |
| 70° | 9683  | 5623 | 9372 |
| 75° | 8792  | 4938 | 8642 |
| 80° | 7548  | 4057 | 7290 |
| 85° | 5758  | 2773 | 5005 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 330.3   | 3.2       |
| 10°-20°   | 953.7   | 9.3       |
| 20°-30°   | 1461.1  | 14.3      |
| 30°-40°   | 1783.1  | 17.4      |
| 40°-50°   | 1864.7  | 18.2      |
| 50°-60°   | 1687.7  | 16.5      |
| 60°-70°   | 1278.2  | 12.5      |
| 70°-80°   | 712.3   | 7.0       |
| 80°-90°   | 171.8   | 1.7       |
| 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°    | 2745.1  | 26.8      |
| 0°-40°    | 4528.2  | 44.2      |
| 0°-60°    | 8080.6  | 78.9      |
| 0°-90°    | 10242.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10242.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3482 | 3482 | 3482 | 3482 | 3482 |      |
| 5°  | 3612 | 3551 | 3471 | 3386 | 3368 | 348  |
| 15° | 3819 | 3607 | 3287 | 3134 | 3144 | 1083 |
| 25° | 3887 | 3505 | 2928 | 2825 | 2942 | 1793 |
| 35° | 3710 | 3246 | 2472 | 2469 | 2699 | 2317 |
| 45° | 3226 | 2822 | 1968 | 2055 | 2403 | 2482 |
| 55° | 2483 | 2242 | 1459 | 1588 | 2031 | 2215 |
| 65° | 1634 | 1537 | 958  | 1088 | 1517 | 1621 |
| 75° | 846  | 798  | 475  | 567  | 831  | 897  |
| 85° | 186  | 164  | 90   | 120  | 162  | 224  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 |
| 2.5°  | 3559.0 | 3542.3 | 3528.6 | 3533.9 | 3537.0 | 3526.3 | 3517.2 | 3518.7 | 3509.6 | 3527.1 | 3486.0 |
| 5°    | 3611.6 | 3596.3 | 3580.4 | 3586.4 | 3580.4 | 3564.4 | 3551.4 | 3547.6 | 3523.3 | 3533.2 | 3491.3 |
| 7.5°  | 3670.2 | 3653.4 | 3629.8 | 3636.7 | 3623.7 | 3594.1 | 3577.3 | 3567.4 | 3530.1 | 3530.9 | 3484.5 |
| 10°   | 3726.5 | 3712.0 | 3680.1 | 3684.6 | 3661.0 | 3621.5 | 3594.8 | 3581.1 | 3528.6 | 3521.0 | 3473.0 |
| 12.5° | 3779.0 | 3759.2 | 3725.0 | 3727.3 | 3693.0 | 3640.5 | 3606.2 | 3586.4 | 3517.9 | 3495.1 | 3447.9 |
| 15°   | 3819.4 | 3800.3 | 3759.2 | 3758.5 | 3714.3 | 3645.8 | 3607.0 | 3579.6 | 3492.8 | 3457.1 | 3407.6 |
| 17.5° | 3853.6 | 3836.1 | 3785.1 | 3783.6 | 3730.3 | 3643.5 | 3597.1 | 3562.9 | 3456.3 | 3412.1 | 3357.3 |
| 20°   | 3878.0 | 3860.5 | 3803.4 | 3798.0 | 3734.1 | 3632.1 | 3576.6 | 3533.2 | 3408.3 | 3355.8 | 3294.9 |
| 22.5° | 3889.4 | 3871.9 | 3807.2 | 3799.6 | 3725.0 | 3609.3 | 3546.9 | 3495.9 | 3353.5 | 3285.0 | 3221.9 |
| 25°   | 3887.1 | 3870.3 | 3797.3 | 3789.7 | 3707.5 | 3575.0 | 3505.0 | 3446.4 | 3284.3 | 3203.6 | 3141.2 |
| 27.5° | 3868.1 | 3855.1 | 3778.3 | 3768.4 | 3675.5 | 3528.6 | 3454.0 | 3389.3 | 3207.4 | 3117.6 | 3049.9 |
| 30°   | 3835.3 | 3825.4 | 3744.0 | 3734.9 | 3635.9 | 3477.6 | 3394.6 | 3320.1 | 3124.4 | 3023.2 | 2954.7 |
| 32.5° | 3782.8 | 3773.7 | 3691.5 | 3683.1 | 3582.6 | 3412.1 | 3325.4 | 3248.5 | 3033.9 | 2922.0 | 2853.5 |
| 35°   | 3710.5 | 3705.2 | 3625.3 | 3616.1 | 3514.1 | 3337.6 | 3245.5 | 3161.0 | 2939.5 | 2813.1 | 2747.7 |
| 37.5° | 3615.4 | 3615.4 | 3538.5 | 3528.6 | 3428.9 | 3246.2 | 3155.6 | 3065.8 | 2832.9 | 2699.0 | 2634.3 |
| 40°   | 3505.0 | 3514.9 | 3436.5 | 3426.6 | 3329.9 | 3148.0 | 3049.1 | 2954.7 | 2718.0 | 2578.7 | 2515.5 |
| 42.5° | 3372.6 | 3381.7 | 3316.2 | 3307.1 | 3216.5 | 3034.6 | 2942.5 | 2839.8 | 2597.7 | 2456.2 | 2390.7 |
| 45°   | 3226.4 | 3238.6 | 3180.0 | 3173.2 | 3088.7 | 2910.6 | 2822.3 | 2718.0 | 2472.2 | 2328.3 | 2264.4 |
| 47.5° | 3063.6 | 3079.5 | 3028.5 | 3024.7 | 2946.3 | 2783.5 | 2691.4 | 2585.6 | 2340.5 | 2195.1 | 2135.0 |
| 50°   | 2880.9 | 2903.7 | 2861.9 | 2861.9 | 2791.8 | 2629.7 | 2549.8 | 2444.0 | 2203.5 | 2058.1 | 1998.7 |
| 52.5° | 2685.3 | 2714.2 | 2683.0 | 2683.7 | 2626.7 | 2481.3 | 2398.3 | 2294.8 | 2060.4 | 1917.3 | 1862.5 |
| 55°   | 2482.8 | 2511.0 | 2491.2 | 2494.2 | 2449.3 | 2316.9 | 2241.5 | 2138.8 | 1914.2 | 1775.0 | 1723.2 |
| 57.5° | 2271.2 | 2301.7 | 2288.7 | 2294.8 | 2263.6 | 2144.9 | 2066.5 | 1976.7 | 1763.5 | 1625.8 | 1581.6 |
| 60°   | 2058.9 | 2087.8 | 2080.9 | 2089.3 | 2069.5 | 1966.8 | 1895.2 | 1802.4 | 1612.1 | 1479.6 | 1440.8 |
| 62.5° | 1844.2 | 1870.9 | 1869.3 | 1878.5 | 1867.8 | 1782.6 | 1718.6 | 1639.5 | 1455.3 | 1333.5 | 1297.7 |
| 65°   | 1634.1 | 1657.0 | 1655.5 | 1665.4 | 1663.1 | 1594.6 | 1536.7 | 1464.4 | 1298.5 | 1186.6 | 1155.4 |
| 67.5° | 1430.2 | 1449.2 | 1443.9 | 1455.3 | 1458.3 | 1403.5 | 1353.3 | 1288.6 | 1149.3 | 1040.5 | 1013.8 |
| 70°   | 1230.7 | 1243.7 | 1236.8 | 1244.4 | 1251.3 | 1210.2 | 1167.6 | 1110.5 | 990.2  | 894.3  | 872.3  |
| 72.5° | 1035.1 | 1044.3 | 1033.6 | 1041.2 | 1047.3 | 1017.6 | 982.6  | 933.1  | 833.4  | 750.5  | 732.2  |
| 75°   | 845.6  | 858.6  | 836.5  | 844.1  | 848.7  | 819.0  | 798.4  | 758.1  | 672.1  | 608.1  | 596.0  |
| 77.5° | 662.2  | 669.8  | 657.6  | 654.6  | 657.6  | 636.3  | 620.3  | 589.1  | 524.4  | 471.9  | 464.3  |
| 80°   | 487.1  | 491.7  | 479.5  | 476.5  | 478.8  | 463.5  | 451.4  | 428.5  | 382.8  | 343.3  | 340.2  |
| 82.5° | 326.5  | 328.8  | 318.2  | 315.1  | 316.6  | 312.1  | 297.6  | 281.6  | 260.3  | 226.8  | 226.1  |
| 85°   | 186.5  | 186.5  | 178.9  | 175.8  | 177.3  | 169.7  | 164.4  | 156.0  | 147.7  | 124.8  | 126.3  |
| 87.5° | 68.5   | 68.5   | 64.7   | 63.9   | 71.5   | 63.2   | 60.9   | 57.1   | 59.4   | 47.2   | 50.2   |
| 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):**

|       | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 | 3482.2 |
| 2.5°  | 3497.4 | 3489.8 | 3482.9 | 3459.3 | 3469.2 | 3444.9 | 3443.4 | 3434.2 | 3427.4 | 3414.4 | 3431.2 |
| 5°    | 3486.0 | 3470.8 | 3451.0 | 3422.8 | 3431.2 | 3402.3 | 3396.2 | 3385.5 | 3376.4 | 3359.6 | 3372.6 |
| 7.5°  | 3467.7 | 3442.6 | 3411.4 | 3375.6 | 3387.0 | 3351.3 | 3342.1 | 3330.7 | 3323.1 | 3303.3 | 3314.7 |
| 10°   | 3441.1 | 3405.3 | 3368.8 | 3325.4 | 3333.8 | 3294.9 | 3283.5 | 3271.3 | 3264.5 | 3247.0 | 3258.4 |
| 12.5° | 3400.0 | 3356.6 | 3307.1 | 3259.9 | 3269.1 | 3232.5 | 3217.3 | 3204.4 | 3202.1 | 3187.6 | 3201.3 |
| 15°   | 3346.7 | 3286.6 | 3235.6 | 3185.3 | 3196.0 | 3153.4 | 3146.5 | 3133.6 | 3137.4 | 3127.5 | 3144.2 |
| 17.5° | 3279.0 | 3209.7 | 3154.1 | 3100.1 | 3110.7 | 3075.0 | 3069.6 | 3063.6 | 3067.4 | 3065.8 | 3084.1 |
| 20°   | 3202.8 | 3126.7 | 3062.8 | 3009.5 | 3015.6 | 2987.4 | 2989.7 | 2988.2 | 2995.8 | 3004.2 | 3029.3 |
| 22.5° | 3116.8 | 3030.8 | 2963.8 | 2909.0 | 2918.2 | 2893.8 | 2904.5 | 2907.5 | 2920.5 | 2939.5 | 2971.5 |
| 25°   | 3020.2 | 2928.1 | 2858.0 | 2806.3 | 2814.7 | 2798.7 | 2816.9 | 2824.6 | 2845.1 | 2877.1 | 2909.8 |
| 27.5° | 2918.9 | 2821.5 | 2746.9 | 2697.4 | 2713.4 | 2697.4 | 2724.8 | 2740.1 | 2771.3 | 2806.3 | 2846.6 |
| 30°   | 2811.6 | 2710.4 | 2633.5 | 2589.4 | 2604.6 | 2590.1 | 2634.3 | 2654.8 | 2686.0 | 2734.0 | 2781.9 |
| 32.5° | 2699.0 | 2592.4 | 2517.1 | 2482.8 | 2493.5 | 2491.2 | 2540.7 | 2563.5 | 2605.3 | 2660.2 | 2711.1 |
| 35°   | 2583.3 | 2472.2 | 2396.0 | 2367.1 | 2380.1 | 2383.1 | 2442.5 | 2469.1 | 2514.8 | 2581.0 | 2635.8 |
| 37.5° | 2463.8 | 2350.4 | 2275.8 | 2252.2 | 2263.6 | 2275.0 | 2344.3 | 2370.9 | 2422.7 | 2495.0 | 2555.1 |
| 40°   | 2339.7 | 2226.3 | 2153.2 | 2134.2 | 2145.6 | 2157.8 | 2233.2 | 2269.7 | 2326.0 | 2404.4 | 2469.9 |
| 42.5° | 2214.1 | 2100.7 | 2029.9 | 2016.2 | 2027.7 | 2051.2 | 2131.2 | 2165.4 | 2224.8 | 2311.6 | 2383.9 |
| 45°   | 2086.3 | 1968.3 | 1906.6 | 1896.0 | 1908.2 | 1935.6 | 2014.0 | 2055.1 | 2118.2 | 2213.4 | 2291.0 |
| 47.5° | 1956.9 | 1841.9 | 1783.3 | 1776.5 | 1788.7 | 1819.1 | 1905.9 | 1943.2 | 2010.1 | 2111.4 | 2195.1 |
| 50°   | 1826.0 | 1714.1 | 1657.7 | 1655.5 | 1666.9 | 1699.6 | 1782.6 | 1826.7 | 1896.0 | 2009.4 | 2095.4 |
| 52.5° | 1693.5 | 1586.2 | 1535.2 | 1535.2 | 1545.9 | 1579.3 | 1663.1 | 1708.7 | 1780.3 | 1899.8 | 1994.9 |
| 55°   | 1561.1 | 1459.1 | 1410.4 | 1414.2 | 1429.4 | 1458.3 | 1539.8 | 1587.7 | 1660.0 | 1784.1 | 1884.6 |
| 57.5° | 1428.6 | 1332.0 | 1287.8 | 1293.2 | 1307.6 | 1336.5 | 1416.5 | 1470.5 | 1536.0 | 1664.6 | 1767.3 |
| 60°   | 1297.7 | 1206.4 | 1167.6 | 1173.7 | 1186.6 | 1215.5 | 1298.5 | 1344.9 | 1410.4 | 1541.3 | 1644.0 |
| 62.5° | 1165.3 | 1082.3 | 1045.8 | 1053.4 | 1064.8 | 1093.7 | 1172.1 | 1217.0 | 1281.7 | 1410.4 | 1513.9 |
| 65°   | 1034.4 | 957.5  | 926.3  | 933.9  | 944.6  | 971.2  | 1045.0 | 1088.4 | 1150.1 | 1275.7 | 1374.6 |
| 67.5° | 905.0  | 835.0  | 809.1  | 816.7  | 825.1  | 850.2  | 911.1  | 958.3  | 1016.1 | 1135.6 | 1229.2 |
| 70°   | 777.1  | 714.7  | 691.9  | 699.5  | 707.1  | 729.9  | 783.2  | 826.6  | 879.9  | 989.5  | 1076.2 |
| 72.5° | 650.8  | 589.9  | 578.5  | 585.3  | 591.4  | 611.2  | 662.2  | 696.4  | 742.9  | 840.3  | 914.9  |
| 75°   | 527.5  | 474.9  | 467.3  | 474.2  | 479.5  | 494.7  | 537.4  | 567.0  | 605.9  | 690.3  | 751.2  |
| 77.5° | 408.7  | 364.6  | 361.5  | 366.9  | 372.2  | 382.8  | 416.3  | 447.5  | 478.0  | 540.4  | 594.4  |
| 80°   | 297.6  | 261.8  | 261.8  | 267.2  | 265.6  | 278.6  | 302.2  | 327.3  | 349.4  | 394.3  | 433.8  |
| 82.5° | 196.4  | 168.2  | 172.0  | 175.8  | 178.1  | 183.4  | 197.9  | 216.9  | 230.6  | 258.0  | 283.9  |
| 85°   | 108.8  | 89.8   | 93.6   | 96.7   | 95.1   | 101.2  | 108.8  | 120.3  | 127.1  | 140.0  | 153.7  |
| 87.5° | 40.3   | 33.5   | 34.3   | 36.5   | 38.1   | 41.1   | 41.1   | 48.0   | 48.7   | 50.2   | 53.3   |
| 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):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 3482.2 | 3482.2 | 3482.2 |
| 2.5°  | 3399.2 | 3417.5 | 3431.2 |
| 5°    | 3340.6 | 3355.8 | 3368.0 |
| 7.5°  | 3283.5 | 3297.2 | 3307.9 |
| 10°   | 3229.5 | 3244.7 | 3252.3 |
| 12.5° | 3173.9 | 3191.4 | 3197.5 |
| 15°   | 3119.1 | 3136.6 | 3144.2 |
| 17.5° | 3062.8 | 3085.6 | 3094.0 |
| 20°   | 3010.3 | 3039.2 | 3046.0 |
| 22.5° | 2957.0 | 2986.7 | 2995.0 |
| 25°   | 2899.1 | 2934.2 | 2942.5 |
| 27.5° | 2837.5 | 2879.4 | 2887.7 |
| 30°   | 2775.8 | 2821.5 | 2829.9 |
| 32.5° | 2709.6 | 2759.1 | 2766.7 |
| 35°   | 2640.4 | 2689.8 | 2699.0 |
| 37.5° | 2563.5 | 2617.5 | 2635.8 |
| 40°   | 2483.6 | 2542.2 | 2561.2 |
| 42.5° | 2399.8 | 2463.8 | 2483.6 |
| 45°   | 2310.0 | 2380.1 | 2402.9 |
| 47.5° | 2219.5 | 2298.6 | 2318.4 |
| 50°   | 2121.3 | 2205.8 | 2229.4 |
| 52.5° | 2018.5 | 2110.6 | 2134.2 |
| 55°   | 1912.0 | 2004.8 | 2030.7 |
| 57.5° | 1796.3 | 1892.2 | 1919.6 |
| 60°   | 1675.2 | 1771.2 | 1797.0 |
| 62.5° | 1551.2 | 1638.0 | 1663.1 |
| 65°   | 1412.7 | 1494.1 | 1516.9 |
| 67.5° | 1265.8 | 1340.4 | 1359.4 |
| 70°   | 1109.7 | 1174.4 | 1191.2 |
| 72.5° | 946.8  | 991.8  | 1013.8 |
| 75°   | 778.6  | 814.4  | 831.2  |
| 77.5° | 609.7  | 634.8  | 648.5  |
| 80°   | 444.5  | 459.0  | 470.4  |
| 82.5° | 290.8  | 296.8  | 305.2  |
| 85°   | 156.8  | 156.8  | 162.1  |
| 87.5° | 53.3   | 51.0   | 53.3   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)