

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: P834694

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-4LO-40-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834694  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-4-INS-ASY2-LD4-4LO-40-120-EDD-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

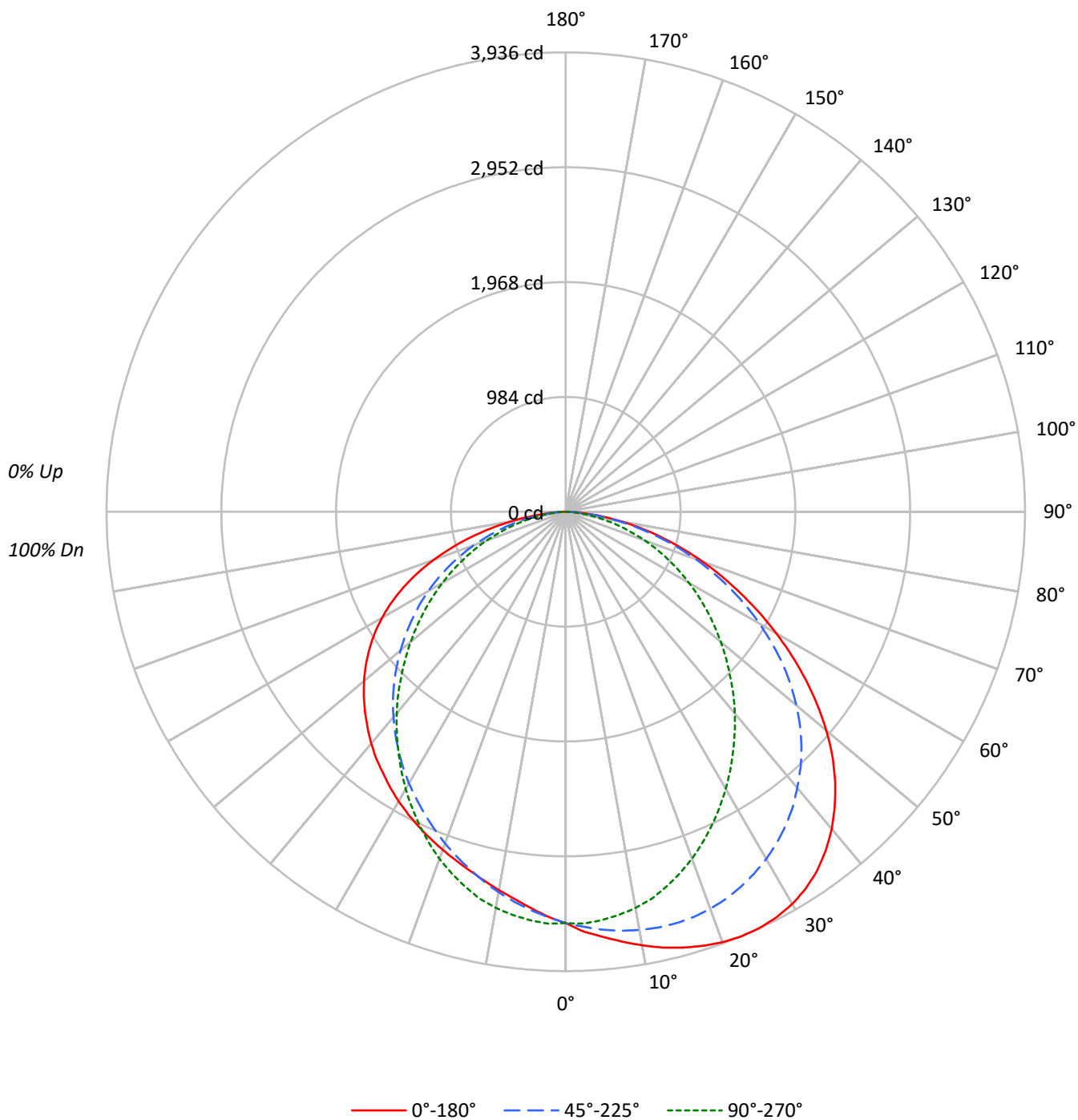
Lumens per Lamp: N/A  
Luminaire Lumens: 10366.9 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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: P834694

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-4LO-40-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834694

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 94  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 4742 | 4742 | 4742 |
| 5°  | 4937 | 4744 | 4604 |
| 10° | 5153 | 4709 | 4497 |
| 15° | 5385 | 4634 | 4433 |
| 20° | 5620 | 4531 | 4414 |
| 25° | 5841 | 4400 | 4421 |
| 30° | 6031 | 4262 | 4450 |
| 35° | 6168 | 4110 | 4487 |
| 40° | 6231 | 3958 | 4553 |
| 45° | 6214 | 3791 | 4628 |
| 50° | 6103 | 3631 | 4723 |
| 55° | 5895 | 3464 | 4821 |
| 60° | 5607 | 3286 | 4894 |
| 65° | 5266 | 3085 | 4888 |
| 70° | 4901 | 2846 | 4743 |
| 75° | 4449 | 2499 | 4373 |
| 80° | 3820 | 2053 | 3689 |
| 85° | 2913 | 1403 | 2533 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834694

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-4LO-40-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 334.3   | 3.2       |
| 10°-20°   | 965.3   | 9.3       |
| 20°-30°   | 1478.8  | 14.3      |
| 30°-40°   | 1804.7  | 17.4      |
| 40°-50°   | 1887.3  | 18.2      |
| 50°-60°   | 1708.1  | 16.5      |
| 60°-70°   | 1293.6  | 12.5      |
| 70°-80°   | 720.9   | 7.0       |
| 80°-90°   | 173.9   | 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°    | 2778.3  | 26.8      |
| 0°-40°    | 4583.0  | 44.2      |
| 0°-60°    | 8178.5  | 78.9      |
| 0°-90°    | 10366.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10366.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3524 | 3524 | 3524 | 3524 | 3524 |      |
| 5°  | 3655 | 3594 | 3513 | 3426 | 3409 | 352  |
| 15° | 3866 | 3651 | 3326 | 3172 | 3182 | 1096 |
| 25° | 3934 | 3547 | 2964 | 2859 | 2978 | 1815 |
| 35° | 3755 | 3285 | 2502 | 2499 | 2732 | 2345 |
| 45° | 3266 | 2856 | 1992 | 2080 | 2432 | 2512 |
| 55° | 2513 | 2269 | 1477 | 1607 | 2055 | 2242 |
| 65° | 1654 | 1555 | 969  | 1102 | 1535 | 1641 |
| 75° | 856  | 808  | 481  | 574  | 841  | 908  |
| 85° | 189  | 166  | 91   | 122  | 164  | 227  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-4LO-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 |
| 2.5°  | 3602.1 | 3585.2 | 3571.3 | 3576.7 | 3579.8 | 3569.0 | 3559.8 | 3561.3 | 3552.1 | 3569.8 | 3528.2 |
| 5°    | 3655.3 | 3639.9 | 3623.7 | 3629.9 | 3623.7 | 3607.5 | 3594.4 | 3590.6 | 3565.9 | 3575.9 | 3533.6 |
| 7.5°  | 3714.6 | 3697.7 | 3673.8 | 3680.7 | 3667.6 | 3637.6 | 3620.6 | 3610.6 | 3572.9 | 3573.6 | 3526.6 |
| 10°   | 3771.6 | 3757.0 | 3724.6 | 3729.2 | 3705.4 | 3665.3 | 3638.3 | 3624.5 | 3571.3 | 3563.6 | 3515.1 |
| 12.5° | 3824.8 | 3804.7 | 3770.1 | 3772.4 | 3737.7 | 3684.6 | 3649.9 | 3629.9 | 3560.5 | 3537.4 | 3489.7 |
| 15°   | 3865.6 | 3846.3 | 3804.7 | 3804.0 | 3759.3 | 3690.0 | 3650.7 | 3622.9 | 3535.1 | 3498.9 | 3448.8 |
| 17.5° | 3900.3 | 3882.5 | 3830.9 | 3829.4 | 3775.5 | 3687.6 | 3640.7 | 3606.0 | 3498.1 | 3453.5 | 3398.0 |
| 20°   | 3924.9 | 3907.2 | 3849.4 | 3844.0 | 3779.3 | 3676.1 | 3619.9 | 3575.9 | 3449.6 | 3396.5 | 3334.8 |
| 22.5° | 3936.5 | 3918.8 | 3853.3 | 3845.6 | 3770.1 | 3653.0 | 3589.8 | 3538.2 | 3394.1 | 3324.8 | 3260.9 |
| 25°   | 3934.2 | 3917.2 | 3843.3 | 3835.6 | 3752.4 | 3618.3 | 3547.4 | 3488.1 | 3324.0 | 3242.4 | 3179.2 |
| 27.5° | 3914.9 | 3901.8 | 3824.0 | 3814.0 | 3720.0 | 3571.3 | 3495.8 | 3430.4 | 3246.2 | 3155.3 | 3086.8 |
| 30°   | 3881.8 | 3871.8 | 3789.3 | 3780.1 | 3679.9 | 3519.7 | 3435.7 | 3360.3 | 3162.3 | 3059.8 | 2990.5 |
| 32.5° | 3828.6 | 3819.4 | 3736.2 | 3727.7 | 3626.0 | 3453.5 | 3365.6 | 3287.8 | 3070.6 | 2957.4 | 2888.0 |
| 35°   | 3755.4 | 3750.0 | 3669.2 | 3659.9 | 3556.7 | 3378.0 | 3284.8 | 3199.2 | 2975.1 | 2847.2 | 2781.0 |
| 37.5° | 3659.1 | 3659.1 | 3581.3 | 3571.3 | 3470.4 | 3285.5 | 3193.9 | 3103.0 | 2867.2 | 2731.6 | 2666.2 |
| 40°   | 3547.4 | 3557.5 | 3478.1 | 3468.1 | 3370.3 | 3186.2 | 3086.0 | 2990.5 | 2750.9 | 2609.9 | 2546.0 |
| 42.5° | 3413.4 | 3422.6 | 3356.4 | 3347.2 | 3255.5 | 3071.4 | 2978.2 | 2874.2 | 2629.2 | 2485.9 | 2419.7 |
| 45°   | 3265.5 | 3277.8 | 3218.5 | 3211.6 | 3126.1 | 2945.8 | 2856.4 | 2750.9 | 2502.1 | 2356.5 | 2291.8 |
| 47.5° | 3100.6 | 3116.8 | 3065.2 | 3061.4 | 2982.0 | 2817.2 | 2723.9 | 2616.9 | 2368.8 | 2221.7 | 2160.8 |
| 50°   | 2915.8 | 2938.9 | 2896.5 | 2896.5 | 2825.6 | 2661.5 | 2580.7 | 2473.6 | 2230.2 | 2083.0 | 2022.9 |
| 52.5° | 2717.8 | 2747.1 | 2715.5 | 2716.2 | 2658.5 | 2511.3 | 2427.4 | 2322.6 | 2085.3 | 1940.5 | 1885.0 |
| 55°   | 2512.9 | 2541.4 | 2521.3 | 2524.4 | 2479.0 | 2344.9 | 2268.7 | 2164.7 | 1937.4 | 1796.4 | 1744.1 |
| 57.5° | 2298.7 | 2329.5 | 2316.4 | 2322.6 | 2291.0 | 2170.8 | 2091.5 | 2000.6 | 1784.9 | 1645.5 | 1600.8 |
| 60°   | 2083.8 | 2113.1 | 2106.1 | 2114.6 | 2094.6 | 1990.6 | 1918.2 | 1824.2 | 1631.6 | 1497.6 | 1458.3 |
| 62.5° | 1866.5 | 1893.5 | 1892.0 | 1901.2 | 1890.4 | 1804.2 | 1739.4 | 1659.3 | 1472.9 | 1349.6 | 1313.4 |
| 65°   | 1653.9 | 1677.0 | 1675.5 | 1685.5 | 1683.2 | 1613.9 | 1555.3 | 1482.1 | 1314.2 | 1201.0 | 1169.4 |
| 67.5° | 1447.5 | 1466.7 | 1461.3 | 1472.9 | 1476.0 | 1420.5 | 1369.7 | 1304.2 | 1163.2 | 1053.1 | 1026.1 |
| 70°   | 1245.7 | 1258.7 | 1251.8 | 1259.5 | 1266.4 | 1224.9 | 1181.7 | 1123.9 | 1002.2 | 905.2  | 882.8  |
| 72.5° | 1047.7 | 1056.9 | 1046.1 | 1053.8 | 1060.0 | 1030.0 | 994.5  | 944.4  | 843.5  | 759.6  | 741.1  |
| 75°   | 855.9  | 869.0  | 846.6  | 854.3  | 858.9  | 828.9  | 808.1  | 767.3  | 680.2  | 615.5  | 603.2  |
| 77.5° | 670.2  | 677.9  | 665.6  | 662.5  | 665.6  | 644.0  | 627.8  | 596.2  | 530.8  | 477.6  | 469.9  |
| 80°   | 493.0  | 497.6  | 485.3  | 482.2  | 484.5  | 469.1  | 456.8  | 433.7  | 387.5  | 347.4  | 344.3  |
| 82.5° | 330.5  | 332.8  | 322.0  | 318.9  | 320.5  | 315.8  | 301.2  | 285.0  | 263.5  | 229.6  | 228.8  |
| 85°   | 188.7  | 188.7  | 181.0  | 178.0  | 179.5  | 171.8  | 166.4  | 157.9  | 149.4  | 126.3  | 127.9  |
| 87.5° | 69.3   | 69.3   | 65.5   | 64.7   | 72.4   | 63.9   | 61.6   | 57.8   | 60.1   | 47.8   | 50.8   |
| 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°    | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 | 3524.3 |
| 2.5°  | 3539.7 | 3532.0 | 3525.1 | 3501.2 | 3511.2 | 3486.6 | 3485.0 | 3475.8 | 3468.9 | 3455.8 | 3472.7 |
| 5°    | 3528.2 | 3512.8 | 3492.8 | 3464.2 | 3472.7 | 3443.4 | 3437.3 | 3426.5 | 3417.3 | 3400.3 | 3413.4 |
| 7.5°  | 3509.7 | 3484.3 | 3452.7 | 3416.5 | 3428.0 | 3391.8 | 3382.6 | 3371.0 | 3363.3 | 3343.3 | 3354.9 |
| 10°   | 3482.7 | 3446.5 | 3409.6 | 3365.6 | 3374.1 | 3334.8 | 3323.3 | 3310.9 | 3304.0 | 3286.3 | 3297.9 |
| 12.5° | 3441.1 | 3397.2 | 3347.2 | 3299.4 | 3308.6 | 3271.7 | 3256.3 | 3243.2 | 3240.8 | 3226.2 | 3240.1 |
| 15°   | 3387.2 | 3326.4 | 3274.7 | 3223.9 | 3234.7 | 3191.5 | 3184.6 | 3171.5 | 3175.4 | 3165.4 | 3182.3 |
| 17.5° | 3318.7 | 3248.6 | 3192.3 | 3137.6 | 3148.4 | 3112.2 | 3106.8 | 3100.6 | 3104.5 | 3103.0 | 3121.4 |
| 20°   | 3241.6 | 3164.6 | 3099.9 | 3045.9 | 3052.1 | 3023.6 | 3025.9 | 3024.4 | 3032.1 | 3040.6 | 3066.0 |
| 22.5° | 3154.6 | 3067.5 | 2999.7 | 2944.3 | 2953.5 | 2928.9 | 2939.6 | 2942.7 | 2955.8 | 2975.1 | 3007.4 |
| 25°   | 3056.7 | 2963.5 | 2892.7 | 2840.3 | 2848.7 | 2832.6 | 2851.1 | 2858.8 | 2879.6 | 2911.9 | 2945.0 |
| 27.5° | 2954.3 | 2855.7 | 2780.2 | 2730.1 | 2746.3 | 2730.1 | 2757.8 | 2773.2 | 2804.8 | 2840.3 | 2881.1 |
| 30°   | 2845.7 | 2743.2 | 2665.4 | 2620.7 | 2636.1 | 2621.5 | 2666.2 | 2687.0 | 2718.6 | 2767.1 | 2815.6 |
| 32.5° | 2731.6 | 2623.8 | 2547.5 | 2512.9 | 2523.7 | 2521.3 | 2571.4 | 2594.5 | 2636.9 | 2692.4 | 2744.0 |
| 35°   | 2614.6 | 2502.1 | 2425.1 | 2395.8 | 2408.9 | 2412.0 | 2472.0 | 2499.0 | 2545.2 | 2612.2 | 2667.7 |
| 37.5° | 2493.6 | 2378.8 | 2303.3 | 2279.5 | 2291.0 | 2302.6 | 2372.7 | 2399.6 | 2452.0 | 2525.2 | 2586.1 |
| 40°   | 2368.0 | 2253.3 | 2179.3 | 2160.1 | 2171.6 | 2183.9 | 2260.2 | 2297.2 | 2354.2 | 2433.5 | 2499.8 |
| 42.5° | 2240.9 | 2126.2 | 2054.5 | 2040.6 | 2052.2 | 2076.1 | 2157.0 | 2191.6 | 2251.7 | 2339.5 | 2412.7 |
| 45°   | 2111.5 | 1992.1 | 1929.7 | 1918.9 | 1931.3 | 1959.0 | 2038.3 | 2079.9 | 2143.9 | 2240.2 | 2318.7 |
| 47.5° | 1980.6 | 1864.2 | 1804.9 | 1798.0 | 1810.3 | 1841.1 | 1928.9 | 1966.7 | 2034.5 | 2136.9 | 2221.7 |
| 50°   | 1848.1 | 1734.8 | 1677.8 | 1675.5 | 1687.1 | 1720.2 | 1804.2 | 1848.8 | 1918.9 | 2033.7 | 2120.8 |
| 52.5° | 1714.0 | 1605.4 | 1553.8 | 1553.8 | 1564.6 | 1598.5 | 1683.2 | 1729.4 | 1801.8 | 1922.8 | 2019.1 |
| 55°   | 1580.0 | 1476.8 | 1427.5 | 1431.3 | 1446.7 | 1476.0 | 1558.4 | 1606.9 | 1680.1 | 1805.7 | 1907.4 |
| 57.5° | 1445.9 | 1348.1 | 1303.4 | 1308.8 | 1323.5 | 1352.7 | 1433.6 | 1488.3 | 1554.6 | 1684.7 | 1788.7 |
| 60°   | 1313.4 | 1221.0 | 1181.7 | 1187.9 | 1201.0 | 1230.2 | 1314.2 | 1361.2 | 1427.5 | 1560.0 | 1663.9 |
| 62.5° | 1179.4 | 1095.4 | 1058.5 | 1066.2 | 1077.7 | 1107.0 | 1186.3 | 1231.8 | 1297.3 | 1427.5 | 1532.2 |
| 65°   | 1046.9 | 969.1  | 937.5  | 945.2  | 956.0  | 983.0  | 1057.7 | 1101.6 | 1164.0 | 1291.1 | 1391.2 |
| 67.5° | 915.9  | 845.1  | 818.9  | 826.6  | 835.1  | 860.5  | 922.1  | 969.9  | 1028.4 | 1149.4 | 1244.1 |
| 70°   | 786.5  | 723.4  | 700.2  | 707.9  | 715.7  | 738.8  | 792.7  | 836.6  | 890.5  | 1001.5 | 1089.3 |
| 72.5° | 658.6  | 597.0  | 585.5  | 592.4  | 598.6  | 618.6  | 670.2  | 704.9  | 751.9  | 850.5  | 926.0  |
| 75°   | 533.9  | 480.7  | 473.0  | 479.9  | 485.3  | 500.7  | 543.9  | 573.9  | 613.2  | 698.7  | 760.3  |
| 77.5° | 413.7  | 369.0  | 365.9  | 371.3  | 376.7  | 387.5  | 421.4  | 453.0  | 483.8  | 546.9  | 601.6  |
| 80°   | 301.2  | 265.0  | 265.0  | 270.4  | 268.9  | 281.9  | 305.8  | 331.2  | 353.6  | 399.0  | 439.1  |
| 82.5° | 198.7  | 170.2  | 174.1  | 178.0  | 180.3  | 185.7  | 200.3  | 219.5  | 233.4  | 261.1  | 287.3  |
| 85°   | 110.2  | 90.9   | 94.8   | 97.8   | 96.3   | 102.5  | 110.2  | 121.7  | 128.6  | 141.7  | 155.6  |
| 87.5° | 40.8   | 33.9   | 34.7   | 37.0   | 38.5   | 41.6   | 41.6   | 48.5   | 49.3   | 50.8   | 53.9   |
| 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):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 3524.3 | 3524.3 | 3524.3 |
| 2.5°  | 3440.4 | 3458.9 | 3472.7 |
| 5°    | 3381.1 | 3396.5 | 3408.8 |
| 7.5°  | 3323.3 | 3337.1 | 3347.9 |
| 10°   | 3268.6 | 3284.0 | 3291.7 |
| 12.5° | 3212.3 | 3230.1 | 3236.2 |
| 15°   | 3156.9 | 3174.6 | 3182.3 |
| 17.5° | 3099.9 | 3123.0 | 3131.5 |
| 20°   | 3046.7 | 3076.0 | 3082.9 |
| 22.5° | 2992.8 | 3022.8 | 3031.3 |
| 25°   | 2934.2 | 2969.7 | 2978.2 |
| 27.5° | 2871.9 | 2914.2 | 2922.7 |
| 30°   | 2809.5 | 2855.7 | 2864.1 |
| 32.5° | 2742.4 | 2792.5 | 2800.2 |
| 35°   | 2672.3 | 2722.4 | 2731.6 |
| 37.5° | 2594.5 | 2649.2 | 2667.7 |
| 40°   | 2513.6 | 2573.0 | 2592.2 |
| 42.5° | 2428.9 | 2493.6 | 2513.6 |
| 45°   | 2338.0 | 2408.9 | 2432.0 |
| 47.5° | 2246.3 | 2326.4 | 2346.5 |
| 50°   | 2147.0 | 2232.5 | 2256.3 |
| 52.5° | 2043.0 | 2136.2 | 2160.1 |
| 55°   | 1935.1 | 2029.1 | 2055.3 |
| 57.5° | 1818.0 | 1915.1 | 1942.8 |
| 60°   | 1695.5 | 1792.6 | 1818.8 |
| 62.5° | 1570.0 | 1657.8 | 1683.2 |
| 65°   | 1429.8 | 1512.2 | 1535.3 |
| 67.5° | 1281.1 | 1356.6 | 1375.8 |
| 70°   | 1123.2 | 1188.6 | 1205.6 |
| 72.5° | 958.3  | 1003.8 | 1026.1 |
| 75°   | 788.1  | 824.3  | 841.2  |
| 77.5° | 617.0  | 642.5  | 656.3  |
| 80°   | 449.9  | 464.5  | 476.1  |
| 82.5° | 294.3  | 300.4  | 308.9  |
| 85°   | 158.7  | 158.7  | 164.1  |
| 87.5° | 53.9   | 51.6   | 53.9   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)