

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: P834581

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-2STD-40-120-EDD**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834581  
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-LD4-2STD-40-120-EDD  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

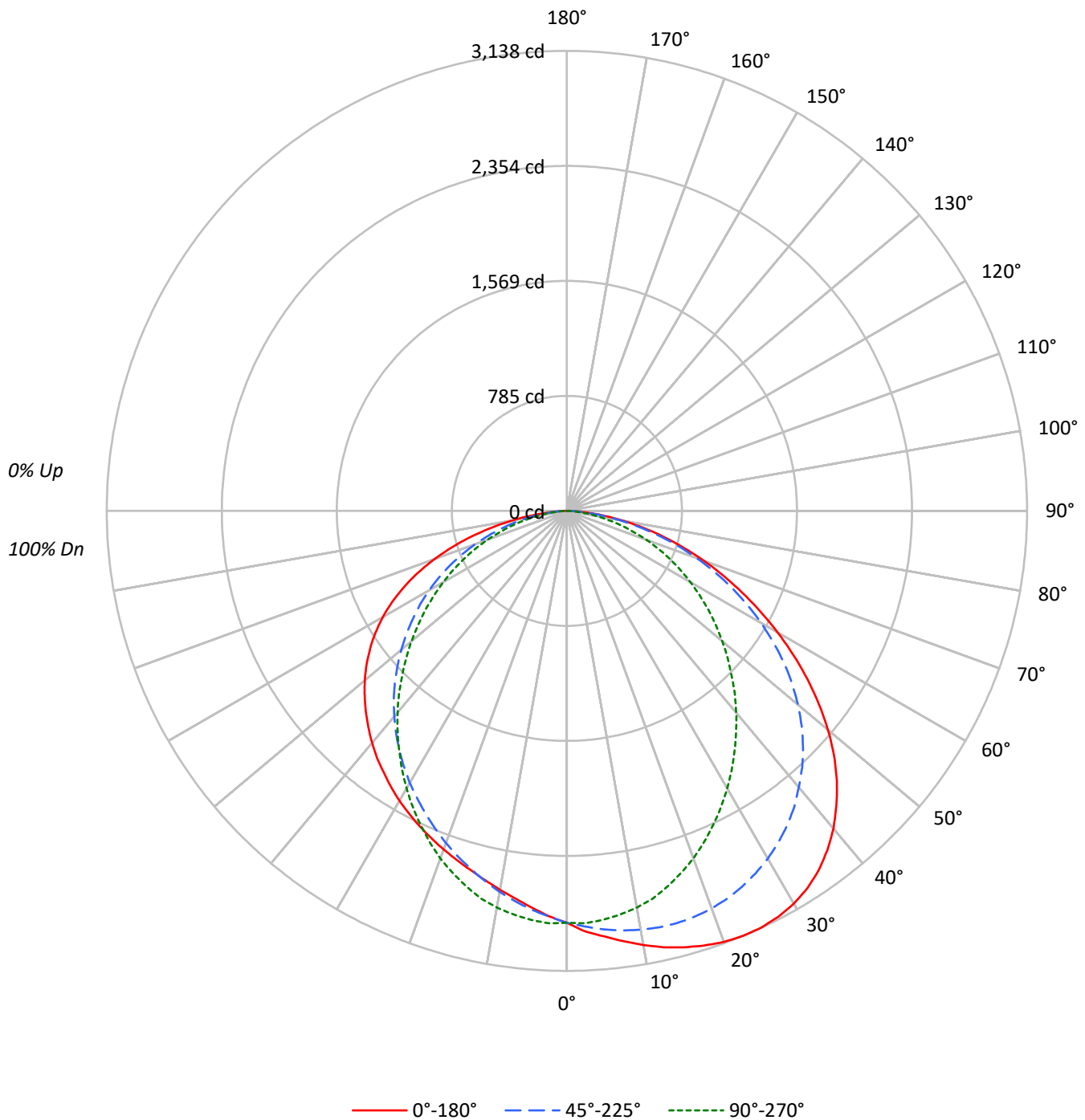
Lumens per Lamp: N/A  
Luminaire Lumens: 8263.9 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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: P834581

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-2STD-40-120-EDD

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834581

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-2STD-40-120-EDD

**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°  | 3780 | 3780 | 3780 |
| 5°  | 3935 | 3782 | 3670 |
| 10° | 4108 | 3753 | 3585 |
| 15° | 4292 | 3694 | 3534 |
| 20° | 4480 | 3612 | 3519 |
| 25° | 4656 | 3507 | 3524 |
| 30° | 4807 | 3397 | 3547 |
| 35° | 4917 | 3276 | 3577 |
| 40° | 4967 | 3155 | 3629 |
| 45° | 4953 | 3022 | 3689 |
| 50° | 4865 | 2895 | 3765 |
| 55° | 4699 | 2761 | 3843 |
| 60° | 4470 | 2619 | 3901 |
| 65° | 4197 | 2459 | 3896 |
| 70° | 3906 | 2268 | 3781 |
| 75° | 3546 | 1992 | 3486 |
| 80° | 3045 | 1636 | 2941 |
| 85° | 2322 | 1119 | 2019 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834581

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-2STD-40-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 266.4  | 3.2       |
| 10°-20°   | 769.5  | 9.3       |
| 20°-30°   | 1178.8 | 14.3      |
| 30°-40°   | 1438.6 | 17.4      |
| 40°-50°   | 1504.4 | 18.2      |
| 50°-60°   | 1361.6 | 16.5      |
| 60°-70°   | 1031.2 | 12.5      |
| 70°-80°   | 574.7  | 7.0       |
| 80°-90°   | 138.6  | 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°    | 2214.7 | 26.8      |
| 0°-40°    | 3653.3 | 44.2      |
| 0°-60°    | 6519.3 | 78.9      |
| 0°-90°    | 8263.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8263.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2809 | 2809 | 2809 | 2809 | 2809 |      |
| 5°  | 2914 | 2865 | 2800 | 2731 | 2717 | 281  |
| 15° | 3081 | 2910 | 2652 | 2528 | 2537 | 874  |
| 25° | 3136 | 2828 | 2362 | 2279 | 2374 | 1447 |
| 35° | 2994 | 2618 | 1994 | 1992 | 2178 | 1869 |
| 45° | 2603 | 2277 | 1588 | 1658 | 1939 | 2003 |
| 55° | 2003 | 1808 | 1177 | 1281 | 1638 | 1787 |
| 65° | 1318 | 1240 | 772  | 878  | 1224 | 1308 |
| 75° | 682  | 644  | 383  | 458  | 671  | 724  |
| 85° | 150  | 133  | 72   | 97   | 131  | 181  |
| 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°    | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 |
| 2.5°  | 2871.4 | 2857.9 | 2846.8 | 2851.1 | 2853.6 | 2845.0 | 2837.6 | 2838.8 | 2831.5 | 2845.6 | 2812.4 |
| 5°    | 2913.8 | 2901.5 | 2888.6 | 2893.5 | 2888.6 | 2875.7 | 2865.2 | 2862.2 | 2842.5 | 2850.5 | 2816.7 |
| 7.5°  | 2961.0 | 2947.5 | 2928.5 | 2934.0 | 2923.6 | 2899.6 | 2886.1 | 2878.1 | 2848.1 | 2848.7 | 2811.2 |
| 10°   | 3006.5 | 2994.8 | 2969.0 | 2972.7 | 2953.7 | 2921.7 | 2900.3 | 2889.2 | 2846.8 | 2840.7 | 2802.0 |
| 12.5° | 3048.9 | 3032.9 | 3005.3 | 3007.1 | 2979.5 | 2937.1 | 2909.5 | 2893.5 | 2838.2 | 2819.8 | 2781.7 |
| 15°   | 3081.4 | 3066.1 | 3032.9 | 3032.3 | 2996.7 | 2941.4 | 2910.1 | 2888.0 | 2818.0 | 2789.1 | 2749.2 |
| 17.5° | 3109.0 | 3094.9 | 3053.8 | 3052.5 | 3009.6 | 2939.6 | 2902.1 | 2874.5 | 2788.5 | 2752.9 | 2708.7 |
| 20°   | 3128.7 | 3114.6 | 3068.5 | 3064.2 | 3012.6 | 2930.3 | 2885.5 | 2850.5 | 2749.8 | 2707.4 | 2658.3 |
| 22.5° | 3137.9 | 3123.8 | 3071.6 | 3065.4 | 3005.3 | 2911.9 | 2861.6 | 2820.4 | 2705.6 | 2650.3 | 2599.4 |
| 25°   | 3136.1 | 3122.5 | 3063.6 | 3057.5 | 2991.1 | 2884.3 | 2827.8 | 2780.5 | 2649.7 | 2584.6 | 2534.3 |
| 27.5° | 3120.7 | 3110.3 | 3048.2 | 3040.3 | 2965.3 | 2846.8 | 2786.6 | 2734.5 | 2587.7 | 2515.2 | 2460.6 |
| 30°   | 3094.3 | 3086.3 | 3020.6 | 3013.2 | 2933.4 | 2805.7 | 2738.8 | 2678.6 | 2520.8 | 2439.1 | 2383.8 |
| 32.5° | 3051.9 | 3044.6 | 2978.2 | 2971.5 | 2890.4 | 2752.9 | 2682.9 | 2620.8 | 2447.7 | 2357.4 | 2302.1 |
| 35°   | 2993.6 | 2989.3 | 2924.8 | 2917.4 | 2835.2 | 2692.7 | 2618.4 | 2550.2 | 2371.5 | 2269.6 | 2216.8 |
| 37.5° | 2916.8 | 2916.8 | 2854.8 | 2846.8 | 2766.4 | 2619.0 | 2545.9 | 2473.5 | 2285.6 | 2177.5 | 2125.3 |
| 40°   | 2827.8 | 2835.8 | 2772.5 | 2764.5 | 2686.6 | 2539.8 | 2460.0 | 2383.8 | 2192.8 | 2080.5 | 2029.5 |
| 42.5° | 2720.9 | 2728.3 | 2675.5 | 2668.1 | 2595.1 | 2448.3 | 2374.0 | 2291.1 | 2095.8 | 1981.6 | 1928.8 |
| 45°   | 2603.0 | 2612.9 | 2565.6 | 2560.1 | 2491.9 | 2348.2 | 2277.0 | 2192.8 | 1994.5 | 1878.4 | 1826.9 |
| 47.5° | 2471.6 | 2484.5 | 2443.4 | 2440.3 | 2377.1 | 2245.7 | 2171.4 | 2086.0 | 1888.3 | 1771.0 | 1722.5 |
| 50°   | 2324.3 | 2342.7 | 2308.9 | 2308.9 | 2252.4 | 2121.6 | 2057.1 | 1971.8 | 1777.7 | 1660.4 | 1612.5 |
| 52.5° | 2166.4 | 2189.8 | 2164.6 | 2165.2 | 2119.2 | 2001.9 | 1934.9 | 1851.4 | 1662.3 | 1546.8 | 1502.6 |
| 55°   | 2003.1 | 2025.8 | 2009.9 | 2012.3 | 1976.1 | 1869.2 | 1808.4 | 1725.5 | 1544.4 | 1432.0 | 1390.3 |
| 57.5° | 1832.4 | 1856.9 | 1846.5 | 1851.4 | 1826.2 | 1730.4 | 1667.2 | 1594.7 | 1422.8 | 1311.7 | 1276.0 |
| 60°   | 1661.1 | 1684.4 | 1678.9 | 1685.6 | 1669.7 | 1586.8 | 1529.0 | 1454.1 | 1300.6 | 1193.8 | 1162.4 |
| 62.5° | 1487.9 | 1509.4 | 1508.2 | 1515.5 | 1506.9 | 1438.2 | 1386.6 | 1322.7 | 1174.1 | 1075.9 | 1047.0 |
| 65°   | 1318.4 | 1336.8 | 1335.6 | 1343.6 | 1341.7 | 1286.5 | 1239.8 | 1181.5 | 1047.6 | 957.3  | 932.2  |
| 67.5° | 1153.8 | 1169.2 | 1164.9 | 1174.1 | 1176.6 | 1132.3 | 1091.8 | 1039.6 | 927.2  | 839.4  | 817.9  |
| 70°   | 993.0  | 1003.4 | 997.9  | 1004.0 | 1009.5 | 976.4  | 942.0  | 895.9  | 798.9  | 721.5  | 703.7  |
| 72.5° | 835.1  | 842.5  | 833.9  | 840.0  | 845.0  | 821.0  | 792.8  | 752.8  | 672.4  | 605.5  | 590.7  |
| 75°   | 682.2  | 692.7  | 674.9  | 681.0  | 684.7  | 660.7  | 644.2  | 611.6  | 542.2  | 490.6  | 480.8  |
| 77.5° | 534.2  | 540.4  | 530.6  | 528.1  | 530.6  | 513.4  | 500.5  | 475.3  | 423.1  | 380.7  | 374.6  |
| 80°   | 393.0  | 396.7  | 386.9  | 384.4  | 386.2  | 374.0  | 364.1  | 345.7  | 308.9  | 276.9  | 274.5  |
| 82.5° | 263.4  | 265.3  | 256.7  | 254.2  | 255.5  | 251.8  | 240.1  | 227.2  | 210.0  | 183.0  | 182.4  |
| 85°   | 150.4  | 150.4  | 144.3  | 141.9  | 143.1  | 136.9  | 132.6  | 125.9  | 119.1  | 100.7  | 101.9  |
| 87.5° | 55.3   | 55.3   | 52.2   | 51.6   | 57.7   | 51.0   | 49.1   | 46.1   | 47.9   | 38.1   | 40.5   |
| 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°    | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 | 2809.4 |
| 2.5°  | 2821.7 | 2815.5 | 2810.0 | 2790.9 | 2798.9 | 2779.3 | 2778.1 | 2770.7 | 2765.2 | 2754.7 | 2768.2 |
| 5°    | 2812.4 | 2800.2 | 2784.2 | 2761.5 | 2768.2 | 2744.9 | 2740.0 | 2731.4 | 2724.0 | 2710.5 | 2720.9 |
| 7.5°  | 2797.7 | 2777.4 | 2752.3 | 2723.4 | 2732.6 | 2703.7 | 2696.4 | 2687.2 | 2681.0 | 2665.1 | 2674.3 |
| 10°   | 2776.2 | 2747.3 | 2717.9 | 2682.9 | 2689.6 | 2658.3 | 2649.1 | 2639.3 | 2633.7 | 2619.6 | 2628.8 |
| 12.5° | 2743.0 | 2708.0 | 2668.1 | 2630.1 | 2637.4 | 2608.0 | 2595.7 | 2585.2 | 2583.4 | 2571.7 | 2582.8 |
| 15°   | 2700.1 | 2651.6 | 2610.4 | 2569.9 | 2578.5 | 2544.1 | 2538.6 | 2528.1 | 2531.2 | 2523.2 | 2536.7 |
| 17.5° | 2645.4 | 2589.5 | 2544.7 | 2501.1 | 2509.7 | 2480.8 | 2476.5 | 2471.6 | 2474.7 | 2473.5 | 2488.2 |
| 20°   | 2584.0 | 2522.6 | 2471.0 | 2428.0 | 2432.9 | 2410.2 | 2412.1 | 2410.8 | 2417.0 | 2423.7 | 2444.0 |
| 22.5° | 2514.6 | 2445.2 | 2391.2 | 2347.0 | 2354.3 | 2334.7 | 2343.3 | 2345.7 | 2356.2 | 2371.5 | 2397.3 |
| 25°   | 2436.6 | 2362.3 | 2305.8 | 2264.1 | 2270.8 | 2257.9 | 2272.7 | 2278.8 | 2295.4 | 2321.2 | 2347.6 |
| 27.5° | 2355.0 | 2276.4 | 2216.2 | 2176.3 | 2189.2 | 2176.3 | 2198.4 | 2210.7 | 2235.8 | 2264.1 | 2296.6 |
| 30°   | 2268.4 | 2186.7 | 2124.7 | 2089.1 | 2101.3 | 2089.7 | 2125.3 | 2141.9 | 2167.1 | 2205.7 | 2244.4 |
| 32.5° | 2177.5 | 2091.5 | 2030.7 | 2003.1 | 2011.7 | 2009.9 | 2049.8 | 2068.2 | 2102.0 | 2146.2 | 2187.3 |
| 35°   | 2084.2 | 1994.5 | 1933.1 | 1909.8 | 1920.2 | 1922.7 | 1970.5 | 1992.0 | 2028.9 | 2082.3 | 2126.5 |
| 37.5° | 1987.7 | 1896.2 | 1836.1 | 1817.0 | 1826.2 | 1835.5 | 1891.3 | 1912.8 | 1954.6 | 2012.9 | 2061.4 |
| 40°   | 1887.7 | 1796.2 | 1737.2 | 1721.9 | 1731.1 | 1740.9 | 1801.7 | 1831.2 | 1876.6 | 1939.8 | 1992.7 |
| 42.5° | 1786.3 | 1694.8 | 1637.7 | 1626.7 | 1635.9 | 1654.9 | 1719.4 | 1747.0 | 1794.9 | 1864.9 | 1923.3 |
| 45°   | 1683.2 | 1588.0 | 1538.2 | 1529.6 | 1539.5 | 1561.6 | 1624.8 | 1658.0 | 1709.0 | 1785.7 | 1848.3 |
| 47.5° | 1578.8 | 1486.0 | 1438.8 | 1433.2 | 1443.1 | 1467.6 | 1537.6 | 1567.7 | 1621.8 | 1703.4 | 1771.0 |
| 50°   | 1473.2 | 1382.9 | 1337.4 | 1335.6 | 1344.8 | 1371.2 | 1438.2 | 1473.8 | 1529.6 | 1621.1 | 1690.5 |
| 52.5° | 1366.3 | 1279.7 | 1238.6 | 1238.6 | 1247.2 | 1274.2 | 1341.7 | 1378.6 | 1436.3 | 1532.7 | 1609.5 |
| 55°   | 1259.5 | 1177.2 | 1137.9 | 1140.9 | 1153.2 | 1176.6 | 1242.3 | 1280.9 | 1339.3 | 1439.4 | 1520.4 |
| 57.5° | 1152.6 | 1074.6 | 1039.0 | 1043.3 | 1055.0 | 1078.3 | 1142.8 | 1186.4 | 1239.2 | 1343.0 | 1425.9 |
| 60°   | 1047.0 | 973.3  | 942.0  | 946.9  | 957.3  | 980.7  | 1047.6 | 1085.1 | 1137.9 | 1243.5 | 1326.4 |
| 62.5° | 940.1  | 873.2  | 843.7  | 849.9  | 859.1  | 882.4  | 945.7  | 981.9  | 1034.1 | 1137.9 | 1221.4 |
| 65°   | 834.5  | 772.5  | 747.3  | 753.5  | 762.1  | 783.6  | 843.1  | 878.1  | 927.9  | 1029.2 | 1109.0 |
| 67.5° | 730.1  | 673.6  | 652.8  | 658.9  | 665.7  | 685.9  | 735.0  | 773.1  | 819.8  | 916.2  | 991.7  |
| 70°   | 627.0  | 576.6  | 558.2  | 564.3  | 570.5  | 588.9  | 631.9  | 666.9  | 709.9  | 798.3  | 868.3  |
| 72.5° | 525.0  | 475.9  | 466.7  | 472.2  | 477.1  | 493.1  | 534.2  | 561.9  | 599.3  | 677.9  | 738.1  |
| 75°   | 425.6  | 383.2  | 377.0  | 382.6  | 386.9  | 399.1  | 433.5  | 457.5  | 488.8  | 557.0  | 606.1  |
| 77.5° | 329.8  | 294.1  | 291.7  | 296.0  | 300.3  | 308.9  | 335.9  | 361.1  | 385.6  | 436.0  | 479.6  |
| 80°   | 240.1  | 211.2  | 211.2  | 215.5  | 214.3  | 224.7  | 243.8  | 264.0  | 281.9  | 318.1  | 350.0  |
| 82.5° | 158.4  | 135.7  | 138.8  | 141.9  | 143.7  | 148.0  | 159.7  | 175.0  | 186.1  | 208.2  | 229.0  |
| 85°   | 87.8   | 72.5   | 75.5   | 78.0   | 76.8   | 81.7   | 87.8   | 97.0   | 102.5  | 113.0  | 124.0  |
| 87.5° | 32.5   | 27.0   | 27.6   | 29.5   | 30.7   | 33.2   | 33.2   | 38.7   | 39.3   | 40.5   | 43.0   |
| 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):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 2809.4 | 2809.4 | 2809.4 |
| 2.5°  | 2742.4 | 2757.2 | 2768.2 |
| 5°    | 2695.2 | 2707.4 | 2717.3 |
| 7.5°  | 2649.1 | 2660.1 | 2668.7 |
| 10°   | 2605.5 | 2617.8 | 2623.9 |
| 12.5° | 2560.7 | 2574.8 | 2579.7 |
| 15°   | 2516.5 | 2530.6 | 2536.7 |
| 17.5° | 2471.0 | 2489.4 | 2496.2 |
| 20°   | 2428.6 | 2452.0 | 2457.5 |
| 22.5° | 2385.7 | 2409.6 | 2416.4 |
| 25°   | 2339.0 | 2367.2 | 2374.0 |
| 27.5° | 2289.3 | 2323.0 | 2329.8 |
| 30°   | 2239.5 | 2276.4 | 2283.1 |
| 32.5° | 2186.1 | 2226.0 | 2232.1 |
| 35°   | 2130.2 | 2170.1 | 2177.5 |
| 37.5° | 2068.2 | 2111.8 | 2126.5 |
| 40°   | 2003.7 | 2051.0 | 2066.3 |
| 42.5° | 1936.2 | 1987.7 | 2003.7 |
| 45°   | 1863.7 | 1920.2 | 1938.6 |
| 47.5° | 1790.6 | 1854.5 | 1870.5 |
| 50°   | 1711.4 | 1779.6 | 1798.6 |
| 52.5° | 1628.5 | 1702.8 | 1721.9 |
| 55°   | 1542.5 | 1617.5 | 1638.3 |
| 57.5° | 1449.2 | 1526.6 | 1548.7 |
| 60°   | 1351.6 | 1428.9 | 1449.8 |
| 62.5° | 1251.5 | 1321.5 | 1341.7 |
| 65°   | 1139.7 | 1205.4 | 1223.8 |
| 67.5° | 1021.2 | 1081.4 | 1096.7 |
| 70°   | 895.3  | 947.5  | 961.0  |
| 72.5° | 763.9  | 800.1  | 817.9  |
| 75°   | 628.2  | 657.1  | 670.6  |
| 77.5° | 491.9  | 512.1  | 523.2  |
| 80°   | 358.6  | 370.3  | 379.5  |
| 82.5° | 234.6  | 239.5  | 246.2  |
| 85°   | 126.5  | 126.5  | 130.8  |
| 87.5° | 43.0   | 41.1   | 43.0   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)