

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: P834709

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-3LO-50-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834709  
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-LD4-3LO-50-120-EDD-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

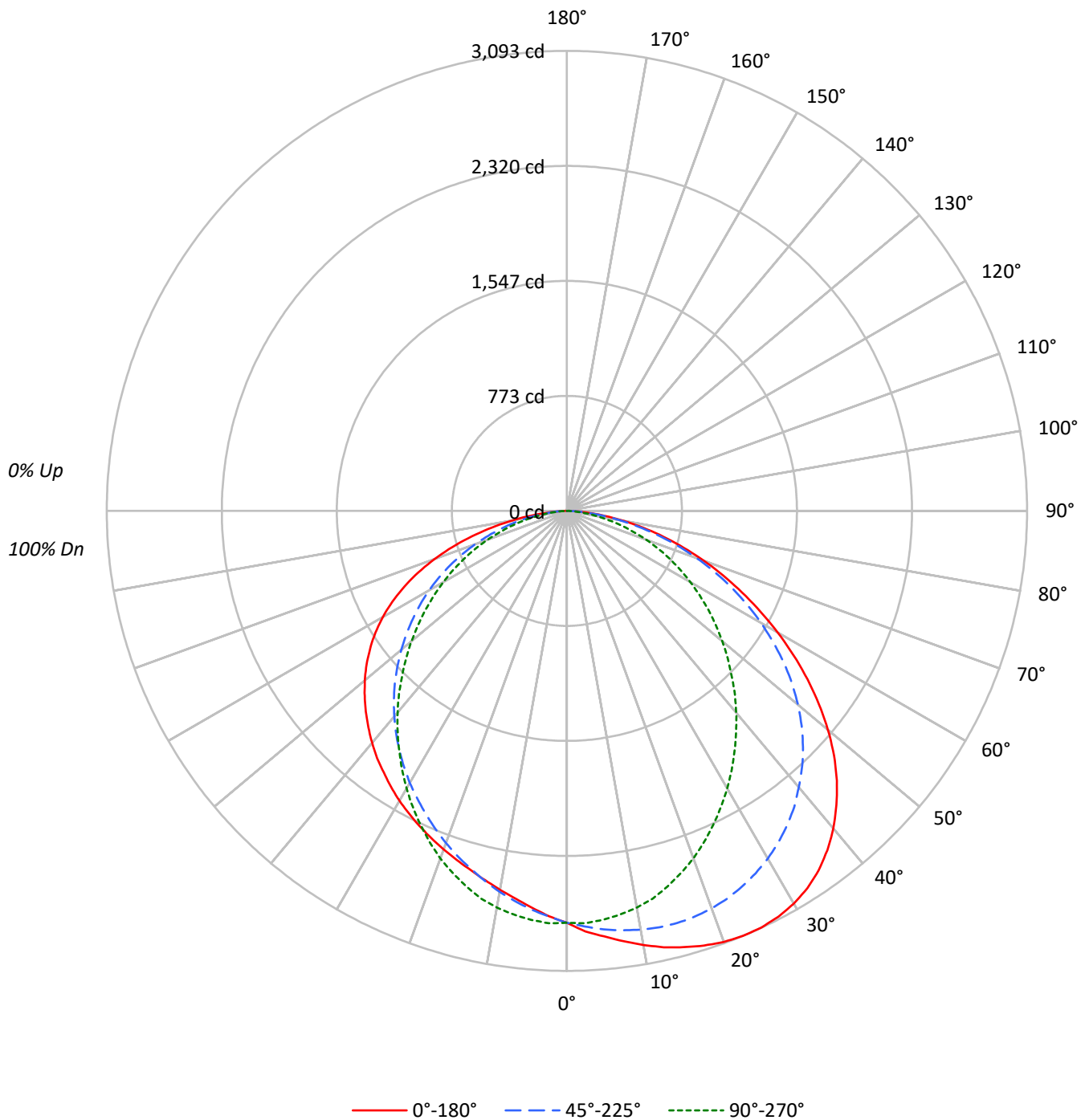
Lumens per Lamp: N/A  
Luminaire Lumens: 8145.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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: P834709

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-3LO-50-120-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  |
| 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°  | 3726 | 3726 | 3726 |
| 5°  | 3879 | 3728 | 3617 |
| 10° | 4049 | 3700 | 3533 |
| 15° | 4231 | 3640 | 3483 |
| 20° | 4415 | 3560 | 3468 |
| 25° | 4589 | 3457 | 3474 |
| 30° | 4738 | 3349 | 3496 |
| 35° | 4846 | 3229 | 3525 |
| 40° | 4895 | 3109 | 3577 |
| 45° | 4882 | 2978 | 3636 |
| 50° | 4795 | 2853 | 3711 |
| 55° | 4631 | 2722 | 3788 |
| 60° | 4406 | 2581 | 3845 |
| 65° | 4137 | 2424 | 3840 |
| 70° | 3850 | 2236 | 3726 |
| 75° | 3496 | 1964 | 3436 |
| 80° | 3002 | 1613 | 2898 |
| 85° | 2289 | 1102 | 1990 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.6  | 3.2       |
| 10°-20°   | 758.4  | 9.3       |
| 20°-30°   | 1161.9 | 14.3      |
| 30°-40°   | 1417.9 | 17.4      |
| 40°-50°   | 1482.8 | 18.2      |
| 50°-60°   | 1342.0 | 16.5      |
| 60°-70°   | 1016.4 | 12.5      |
| 70°-80°   | 566.4  | 7.0       |
| 80°-90°   | 136.6  | 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°    | 2182.9 | 26.8      |
| 0°-40°    | 3600.8 | 44.2      |
| 0°-60°    | 6425.6 | 78.9      |
| 0°-90°    | 8145.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8145.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2769 | 2769 | 2769 | 2769 | 2769 |      |
| 5°  | 2872 | 2824 | 2760 | 2692 | 2678 | 277  |
| 15° | 3037 | 2868 | 2613 | 2492 | 2500 | 861  |
| 25° | 3091 | 2787 | 2328 | 2246 | 2340 | 1426 |
| 35° | 2950 | 2581 | 1966 | 1963 | 2146 | 1842 |
| 45° | 2566 | 2244 | 1565 | 1634 | 1911 | 1974 |
| 55° | 1974 | 1782 | 1160 | 1262 | 1615 | 1762 |
| 65° | 1300 | 1222 | 761  | 866  | 1206 | 1289 |
| 75° | 672  | 635  | 378  | 451  | 661  | 713  |
| 85° | 148  | 131  | 71   | 96   | 129  | 178  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-3LO-50-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 |
| 2.5°  | 2830.1 | 2816.8 | 2805.9 | 2810.1 | 2812.6 | 2804.1 | 2796.8 | 2798.0 | 2790.8 | 2804.7 | 2772.0 |
| 5°    | 2871.9 | 2859.8 | 2847.0 | 2851.9 | 2847.0 | 2834.3 | 2824.0 | 2821.0 | 2801.7 | 2809.5 | 2776.2 |
| 7.5°  | 2918.5 | 2905.2 | 2886.4 | 2891.8 | 2881.5 | 2857.9 | 2844.6 | 2836.8 | 2807.1 | 2807.7 | 2770.8 |
| 10°   | 2963.3 | 2951.8 | 2926.3 | 2930.0 | 2911.2 | 2879.7 | 2858.5 | 2847.7 | 2805.9 | 2799.8 | 2761.7 |
| 12.5° | 3005.0 | 2989.3 | 2962.0 | 2963.9 | 2936.6 | 2894.9 | 2867.6 | 2851.9 | 2797.4 | 2779.3 | 2741.7 |
| 15°   | 3037.1 | 3022.0 | 2989.3 | 2988.7 | 2953.6 | 2899.1 | 2868.2 | 2846.4 | 2777.4 | 2749.0 | 2709.7 |
| 17.5° | 3064.3 | 3050.4 | 3009.9 | 3008.6 | 2966.3 | 2897.3 | 2860.4 | 2833.1 | 2748.4 | 2713.3 | 2669.7 |
| 20°   | 3083.7 | 3069.8 | 3024.4 | 3020.1 | 2969.3 | 2888.2 | 2844.0 | 2809.5 | 2710.3 | 2668.5 | 2620.1 |
| 22.5° | 3092.8 | 3078.9 | 3027.4 | 3021.4 | 2962.0 | 2870.0 | 2820.4 | 2779.9 | 2666.7 | 2612.2 | 2562.0 |
| 25°   | 3091.0 | 3077.6 | 3019.5 | 3013.5 | 2948.1 | 2842.8 | 2787.1 | 2740.5 | 2611.6 | 2547.5 | 2497.8 |
| 27.5° | 3075.8 | 3065.5 | 3004.4 | 2996.5 | 2922.7 | 2805.9 | 2746.6 | 2695.1 | 2550.5 | 2479.1 | 2425.2 |
| 30°   | 3049.8 | 3041.9 | 2977.2 | 2969.9 | 2891.2 | 2765.3 | 2699.4 | 2640.1 | 2484.5 | 2404.0 | 2349.5 |
| 32.5° | 3008.0 | 3000.8 | 2935.4 | 2928.8 | 2848.9 | 2713.3 | 2644.3 | 2583.2 | 2412.5 | 2323.5 | 2269.0 |
| 35°   | 2950.5 | 2946.3 | 2882.8 | 2875.5 | 2794.4 | 2654.0 | 2580.7 | 2513.6 | 2337.4 | 2237.0 | 2184.9 |
| 37.5° | 2874.9 | 2874.9 | 2813.8 | 2805.9 | 2726.6 | 2581.3 | 2509.3 | 2437.9 | 2252.7 | 2146.2 | 2094.7 |
| 40°   | 2787.1 | 2795.0 | 2732.7 | 2724.8 | 2647.9 | 2503.3 | 2424.6 | 2349.5 | 2161.3 | 2050.6 | 2000.3 |
| 42.5° | 2681.8 | 2689.1 | 2637.0 | 2629.8 | 2557.7 | 2413.1 | 2339.9 | 2258.2 | 2065.7 | 1953.1 | 1901.1 |
| 45°   | 2565.6 | 2575.3 | 2528.7 | 2523.2 | 2456.1 | 2314.4 | 2244.2 | 2161.3 | 1965.8 | 1851.4 | 1800.6 |
| 47.5° | 2436.1 | 2448.8 | 2408.2 | 2405.2 | 2342.9 | 2213.4 | 2140.1 | 2056.0 | 1861.1 | 1745.5 | 1697.7 |
| 50°   | 2290.8 | 2309.0 | 2275.7 | 2275.7 | 2220.0 | 2091.1 | 2027.6 | 1943.4 | 1752.2 | 1636.6 | 1589.4 |
| 52.5° | 2135.3 | 2158.3 | 2133.5 | 2134.1 | 2088.7 | 1973.1 | 1907.1 | 1824.8 | 1638.4 | 1524.6 | 1481.0 |
| 55°   | 1974.3 | 1996.7 | 1981.0 | 1983.4 | 1947.7 | 1842.4 | 1782.4 | 1700.7 | 1522.2 | 1411.4 | 1370.3 |
| 57.5° | 1806.0 | 1830.2 | 1820.0 | 1824.8 | 1800.0 | 1705.6 | 1643.2 | 1571.8 | 1402.3 | 1292.8 | 1257.7 |
| 60°   | 1637.2 | 1660.2 | 1654.7 | 1661.4 | 1645.6 | 1563.9 | 1507.0 | 1433.2 | 1281.9 | 1176.6 | 1145.7 |
| 62.5° | 1466.5 | 1487.7 | 1486.5 | 1493.7 | 1485.3 | 1417.5 | 1366.6 | 1303.7 | 1157.2 | 1060.4 | 1031.9 |
| 65°   | 1299.5 | 1317.6 | 1316.4 | 1324.3 | 1322.4 | 1268.0 | 1222.0 | 1164.5 | 1032.5 | 943.6  | 918.8  |
| 67.5° | 1137.2 | 1152.4 | 1148.1 | 1157.2 | 1159.6 | 1116.1 | 1076.1 | 1024.7 | 913.9  | 827.4  | 806.2  |
| 70°   | 978.7  | 989.0  | 983.5  | 989.6  | 995.0  | 962.3  | 928.4  | 883.0  | 787.4  | 711.2  | 693.6  |
| 72.5° | 823.1  | 830.4  | 821.9  | 828.0  | 832.8  | 809.2  | 781.4  | 742.0  | 662.7  | 596.8  | 582.2  |
| 75°   | 672.4  | 682.7  | 665.2  | 671.2  | 674.8  | 651.2  | 634.9  | 602.8  | 534.4  | 483.6  | 473.9  |
| 77.5° | 526.6  | 532.6  | 522.9  | 520.5  | 522.9  | 506.0  | 493.3  | 468.5  | 417.0  | 375.2  | 369.2  |
| 80°   | 387.4  | 391.0  | 381.3  | 378.9  | 380.7  | 368.6  | 358.9  | 340.8  | 304.4  | 273.0  | 270.5  |
| 82.5° | 259.6  | 261.5  | 253.0  | 250.6  | 251.8  | 248.1  | 236.6  | 223.9  | 207.0  | 180.4  | 179.8  |
| 85°   | 148.3  | 148.3  | 142.2  | 139.8  | 141.0  | 135.0  | 130.7  | 124.1  | 117.4  | 99.3   | 100.5  |
| 87.5° | 54.5   | 54.5   | 51.4   | 50.8   | 56.9   | 50.2   | 48.4   | 45.4   | 47.2   | 37.5   | 39.9   |
| 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):**

|       | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 | 2769.0 |
| 2.5°  | 2781.1 | 2775.0 | 2769.6 | 2750.8 | 2758.7 | 2739.3 | 2738.1 | 2730.8 | 2725.4 | 2715.1 | 2728.4 |
| 5°    | 2772.0 | 2759.9 | 2744.2 | 2721.8 | 2728.4 | 2705.4 | 2700.6 | 2692.1 | 2684.8 | 2671.5 | 2681.8 |
| 7.5°  | 2757.5 | 2737.5 | 2712.7 | 2684.2 | 2693.3 | 2664.9 | 2657.6 | 2648.5 | 2642.5 | 2626.7 | 2635.8 |
| 10°   | 2736.3 | 2707.8 | 2678.8 | 2644.3 | 2651.0 | 2620.1 | 2611.0 | 2601.3 | 2595.9 | 2582.0 | 2591.0 |
| 12.5° | 2703.6 | 2669.1 | 2629.8 | 2592.2 | 2599.5 | 2570.5 | 2558.3 | 2548.1 | 2546.2 | 2534.7 | 2545.6 |
| 15°   | 2661.2 | 2613.4 | 2572.9 | 2532.9 | 2541.4 | 2507.5 | 2502.1 | 2491.8 | 2494.8 | 2486.9 | 2500.2 |
| 17.5° | 2607.4 | 2552.3 | 2508.1 | 2465.1 | 2473.6 | 2445.2 | 2440.9 | 2436.1 | 2439.1 | 2437.9 | 2452.4 |
| 20°   | 2546.8 | 2486.3 | 2435.5 | 2393.1 | 2398.0 | 2375.6 | 2377.4 | 2376.2 | 2382.2 | 2388.9 | 2408.9 |
| 22.5° | 2478.5 | 2410.1 | 2356.8 | 2313.2 | 2320.5 | 2301.1 | 2309.6 | 2312.0 | 2322.3 | 2337.4 | 2362.9 |
| 25°   | 2401.6 | 2328.4 | 2272.7 | 2231.5 | 2238.2 | 2225.5 | 2240.0 | 2246.0 | 2262.4 | 2287.8 | 2313.8 |
| 27.5° | 2321.1 | 2243.6 | 2184.3 | 2145.0 | 2157.7 | 2145.0 | 2166.8 | 2178.9 | 2203.7 | 2231.5 | 2263.6 |
| 30°   | 2235.8 | 2155.3 | 2094.1 | 2059.0 | 2071.1 | 2059.6 | 2094.7 | 2111.1 | 2135.9 | 2174.0 | 2212.2 |
| 32.5° | 2146.2 | 2061.4 | 2001.5 | 1974.3 | 1982.8 | 1981.0 | 2020.3 | 2038.4 | 2071.7 | 2115.3 | 2155.9 |
| 35°   | 2054.2 | 1965.8 | 1905.3 | 1882.3 | 1892.6 | 1895.0 | 1942.2 | 1963.4 | 1999.7 | 2052.4 | 2095.9 |
| 37.5° | 1959.2 | 1869.0 | 1809.7 | 1790.9 | 1800.0 | 1809.1 | 1864.1 | 1885.3 | 1926.5 | 1984.0 | 2031.8 |
| 40°   | 1860.5 | 1770.3 | 1712.2 | 1697.1 | 1706.2 | 1715.9 | 1775.8 | 1804.8 | 1849.6 | 1912.0 | 1964.0 |
| 42.5° | 1760.6 | 1670.5 | 1614.2 | 1603.3 | 1612.4 | 1631.1 | 1694.7 | 1721.9 | 1769.1 | 1838.1 | 1895.6 |
| 45°   | 1659.0 | 1565.2 | 1516.1 | 1507.7 | 1517.3 | 1539.1 | 1601.5 | 1634.1 | 1684.4 | 1760.0 | 1821.8 |
| 47.5° | 1556.1 | 1464.7 | 1418.1 | 1412.6 | 1422.3 | 1446.5 | 1515.5 | 1545.2 | 1598.4 | 1678.9 | 1745.5 |
| 50°   | 1452.0 | 1363.0 | 1318.2 | 1316.4 | 1325.5 | 1351.5 | 1417.5 | 1452.6 | 1507.7 | 1597.8 | 1666.2 |
| 52.5° | 1346.7 | 1261.3 | 1220.8 | 1220.8 | 1229.2 | 1255.9 | 1322.4 | 1358.8 | 1415.7 | 1510.7 | 1586.3 |
| 55°   | 1241.3 | 1160.2 | 1121.5 | 1124.5 | 1136.6 | 1159.6 | 1224.4 | 1262.5 | 1320.0 | 1418.7 | 1498.6 |
| 57.5° | 1136.0 | 1059.2 | 1024.1 | 1028.3 | 1039.8 | 1062.8 | 1126.4 | 1169.3 | 1221.4 | 1323.7 | 1405.4 |
| 60°   | 1031.9 | 959.3  | 928.4  | 933.3  | 943.6  | 966.6  | 1032.5 | 1069.5 | 1121.5 | 1225.6 | 1307.3 |
| 62.5° | 926.6  | 860.7  | 831.6  | 837.7  | 846.7  | 869.7  | 932.1  | 967.8  | 1019.2 | 1121.5 | 1203.8 |
| 65°   | 822.5  | 761.4  | 736.6  | 742.6  | 751.1  | 772.3  | 831.0  | 865.5  | 914.5  | 1014.4 | 1093.1 |
| 67.5° | 719.6  | 663.9  | 643.4  | 649.4  | 656.1  | 676.1  | 724.5  | 762.0  | 808.0  | 903.0  | 977.5  |
| 70°   | 618.0  | 568.3  | 550.2  | 556.2  | 562.3  | 580.4  | 622.8  | 657.3  | 699.7  | 786.8  | 855.8  |
| 72.5° | 517.5  | 469.1  | 460.0  | 465.4  | 470.3  | 486.0  | 526.6  | 553.8  | 590.7  | 668.2  | 727.5  |
| 75°   | 419.4  | 377.7  | 371.6  | 377.1  | 381.3  | 393.4  | 427.3  | 450.9  | 481.8  | 549.0  | 597.4  |
| 77.5° | 325.0  | 289.9  | 287.5  | 291.7  | 296.0  | 304.4  | 331.1  | 355.9  | 380.1  | 429.7  | 472.7  |
| 80°   | 236.6  | 208.2  | 208.2  | 212.4  | 211.2  | 221.5  | 240.3  | 260.3  | 277.8  | 313.5  | 345.0  |
| 82.5° | 156.2  | 133.8  | 136.8  | 139.8  | 141.6  | 145.9  | 157.4  | 172.5  | 183.4  | 205.2  | 225.8  |
| 85°   | 86.5   | 71.4   | 74.4   | 76.9   | 75.7   | 80.5   | 86.5   | 95.6   | 101.1  | 111.4  | 122.3  |
| 87.5° | 32.1   | 26.6   | 27.2   | 29.1   | 30.3   | 32.7   | 32.7   | 38.1   | 38.7   | 39.9   | 42.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 2769.0 | 2769.0 | 2769.0 |
| 2.5°  | 2703.0 | 2717.5 | 2728.4 |
| 5°    | 2656.4 | 2668.5 | 2678.2 |
| 7.5°  | 2611.0 | 2621.9 | 2630.4 |
| 10°   | 2568.0 | 2580.1 | 2586.2 |
| 12.5° | 2523.9 | 2537.8 | 2542.6 |
| 15°   | 2480.3 | 2494.2 | 2500.2 |
| 17.5° | 2435.5 | 2453.6 | 2460.3 |
| 20°   | 2393.7 | 2416.7 | 2422.2 |
| 22.5° | 2351.4 | 2375.0 | 2381.6 |
| 25°   | 2305.4 | 2333.2 | 2339.9 |
| 27.5° | 2256.3 | 2289.6 | 2296.3 |
| 30°   | 2207.3 | 2243.6 | 2250.3 |
| 32.5° | 2154.7 | 2194.0 | 2200.0 |
| 35°   | 2099.6 | 2138.9 | 2146.2 |
| 37.5° | 2038.4 | 2081.4 | 2095.9 |
| 40°   | 1974.9 | 2021.5 | 2036.6 |
| 42.5° | 1908.3 | 1959.2 | 1974.9 |
| 45°   | 1836.9 | 1892.6 | 1910.7 |
| 47.5° | 1764.9 | 1827.8 | 1843.6 |
| 50°   | 1686.8 | 1754.0 | 1772.7 |
| 52.5° | 1605.1 | 1678.3 | 1697.1 |
| 55°   | 1520.4 | 1594.2 | 1614.8 |
| 57.5° | 1428.4 | 1504.6 | 1526.4 |
| 60°   | 1332.1 | 1408.4 | 1429.0 |
| 62.5° | 1233.5 | 1302.5 | 1322.4 |
| 65°   | 1123.3 | 1188.1 | 1206.2 |
| 67.5° | 1006.5 | 1065.8 | 1081.0 |
| 70°   | 882.4  | 933.9  | 947.2  |
| 72.5° | 752.9  | 788.6  | 806.2  |
| 75°   | 619.2  | 647.6  | 660.9  |
| 77.5° | 484.8  | 504.8  | 515.7  |
| 80°   | 353.5  | 365.0  | 374.0  |
| 82.5° | 231.2  | 236.0  | 242.7  |
| 85°   | 124.7  | 124.7  | 128.9  |
| 87.5° | 42.4   | 40.6   | 42.4   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)