

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: P837853

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5HI-27-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08  
Report Number: P837853  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-5HI-27-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

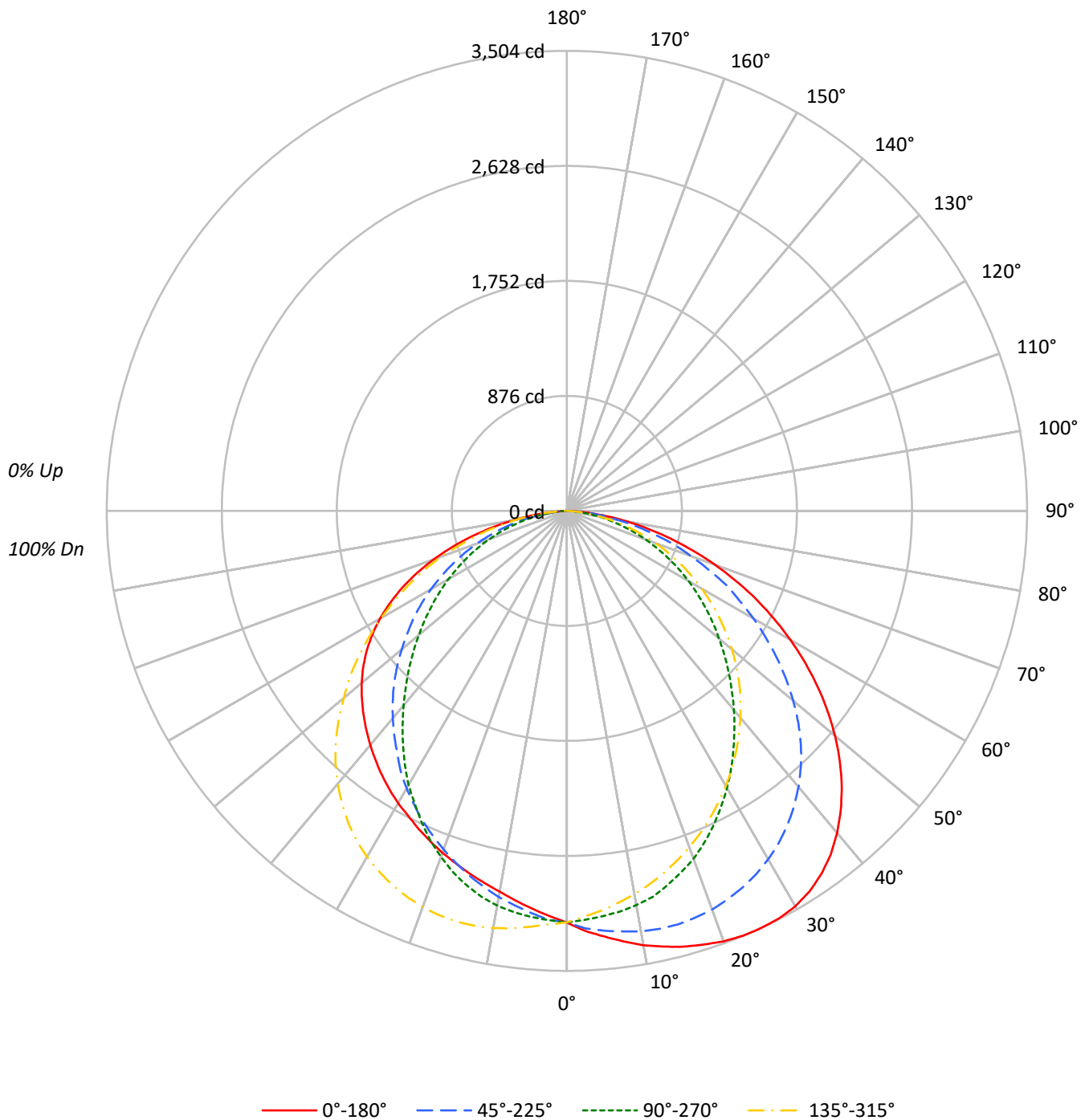
Lumens per Lamp: N/A  
Luminaire Lumens: 9194.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 110  
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: 25 FT

TEST NUMBER: P837853

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### Luminous Intensity Polar Plot



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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  | 89  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 59  |
| 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  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 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  | 38  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 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° | 270° |
|-----|-------|------|------|------|
| 0°  | 8433  | 8433 | 8433 | 8433 |
| 5°  | 8789  | 8373 | 8215 | 8386 |
| 10° | 9180  | 8329 | 8048 | 8341 |
| 15° | 9574  | 8223 | 7969 | 8225 |
| 20° | 9992  | 8074 | 7934 | 8028 |
| 25° | 10405 | 7848 | 7933 | 7768 |
| 30° | 10807 | 7575 | 7986 | 7491 |
| 35° | 11095 | 7264 | 8067 | 7149 |
| 40° | 11242 | 6951 | 8179 | 6795 |
| 45° | 11264 | 6635 | 8337 | 6468 |
| 50° | 11158 | 6332 | 8541 | 6164 |
| 55° | 10927 | 6050 | 8731 | 5882 |
| 60° | 10583 | 5756 | 8848 | 5606 |
| 65° | 10110 | 5418 | 8802 | 5293 |
| 70° | 9444  | 5021 | 8489 | 4929 |
| 75° | 8498  | 4477 | 7791 | 4454 |
| 80° | 7204  | 3750 | 6547 | 3806 |
| 85° | 5011  | 2482 | 4153 | 2550 |

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°    | 297.5  | 3.2       |
| 10°-20°   | 861.6  | 9.4       |
| 20°-30°   | 1320.4 | 14.4      |
| 30°-40°   | 1605.6 | 17.5      |
| 40°-50°   | 1669.1 | 18.2      |
| 50°-60°   | 1507.7 | 16.4      |
| 60°-70°   | 1146.2 | 12.5      |
| 70°-80°   | 639.0  | 7.0       |
| 80°-90°   | 147.1  | 1.6       |
| 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°    | 2479.6 | 27.0      |
| 0°-40°    | 4085.1 | 44.4      |
| 0°-60°    | 7261.9 | 79.0      |
| 0°-90°    | 9194.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9194.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3134 | 3134 | 3134 | 3134 | 3134 |      |
| 5°  | 3254 | 3100 | 3041 | 3105 | 3254 | 314  |
| 15° | 3436 | 2952 | 2860 | 2952 | 3436 | 974  |
| 25° | 3504 | 2643 | 2672 | 2616 | 3504 | 1619 |
| 35° | 3377 | 2211 | 2456 | 2176 | 3377 | 2109 |
| 45° | 2960 | 1744 | 2191 | 1700 | 2960 | 2279 |
| 55° | 2329 | 1290 | 1861 | 1254 | 2329 | 2079 |
| 65° | 1588 | 851  | 1382 | 831  | 1588 | 1569 |
| 75° | 817  | 431  | 749  | 428  | 817  | 868  |
| 85° | 162  | 80   | 134  | 83   | 162  | 204  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 |
| 2.5°  | 3203.3 | 3156.5 | 3157.2 | 3198.2 | 3166.7 | 3182.1 | 3138.2 | 3155.0 | 3149.9 | 3153.6 | 3117.7 |
| 5°    | 3253.7 | 3203.3 | 3202.5 | 3237.6 | 3202.5 | 3209.1 | 3153.6 | 3164.5 | 3148.5 | 3138.2 | 3099.5 |
| 7.5°  | 3307.1 | 3256.6 | 3251.5 | 3282.2 | 3236.2 | 3231.1 | 3169.7 | 3169.7 | 3140.4 | 3114.8 | 3078.3 |
| 10°   | 3359.7 | 3307.8 | 3301.2 | 3324.6 | 3267.6 | 3250.8 | 3176.2 | 3164.5 | 3125.8 | 3087.8 | 3048.3 |
| 12.5° | 3399.2 | 3346.6 | 3341.4 | 3356.1 | 3291.7 | 3261.0 | 3176.2 | 3153.6 | 3096.6 | 3043.2 | 3012.5 |
| 15°   | 3436.5 | 3382.4 | 3368.5 | 3375.8 | 3302.0 | 3261.0 | 3166.0 | 3130.9 | 3057.8 | 2987.6 | 2951.8 |
| 17.5° | 3462.8 | 3410.9 | 3397.0 | 3396.3 | 3307.1 | 3248.6 | 3144.1 | 3095.8 | 3008.1 | 2923.3 | 2887.5 |
| 20°   | 3489.1 | 3437.2 | 3419.7 | 3406.5 | 3305.6 | 3231.8 | 3111.9 | 3046.8 | 2944.5 | 2849.5 | 2819.5 |
| 22.5° | 3502.3 | 3448.9 | 3429.9 | 3410.2 | 3296.1 | 3201.1 | 3072.4 | 2989.8 | 2872.9 | 2759.6 | 2734.7 |
| 25°   | 3504.5 | 3449.6 | 3429.2 | 3400.6 | 3277.1 | 3164.5 | 3021.3 | 2921.1 | 2790.3 | 2664.5 | 2643.3 |
| 27.5° | 3498.6 | 3438.7 | 3418.2 | 3383.8 | 3248.6 | 3119.9 | 2960.6 | 2842.9 | 2702.5 | 2563.6 | 2541.0 |
| 30°   | 3478.1 | 3417.5 | 3397.7 | 3353.1 | 3208.4 | 3065.1 | 2894.1 | 2755.9 | 2605.3 | 2457.6 | 2437.9 |
| 32.5° | 3437.2 | 3378.0 | 3361.9 | 3317.3 | 3164.5 | 3001.5 | 2816.6 | 2662.3 | 2497.9 | 2356.8 | 2327.5 |
| 35°   | 3377.3 | 3318.0 | 3307.8 | 3261.0 | 3103.1 | 2925.5 | 2731.8 | 2560.0 | 2383.8 | 2239.8 | 2211.3 |
| 37.5° | 3299.0 | 3249.3 | 3234.0 | 3187.9 | 3030.8 | 2839.2 | 2634.6 | 2448.9 | 2267.6 | 2112.6 | 2095.1 |
| 40°   | 3200.4 | 3153.6 | 3141.9 | 3100.9 | 2946.7 | 2743.5 | 2529.3 | 2334.1 | 2147.7 | 2003.7 | 1978.8 |
| 42.5° | 3087.8 | 3043.9 | 3037.3 | 2994.9 | 2842.9 | 2637.5 | 2415.3 | 2215.0 | 2022.7 | 1883.8 | 1859.0 |
| 45°   | 2959.9 | 2917.5 | 2916.0 | 2875.8 | 2729.6 | 2519.8 | 2295.4 | 2094.3 | 1900.6 | 1756.6 | 1743.5 |
| 47.5° | 2818.8 | 2780.8 | 2780.8 | 2743.5 | 2603.1 | 2390.4 | 2171.8 | 1968.6 | 1777.8 | 1650.6 | 1627.2 |
| 50°   | 2665.3 | 2629.4 | 2618.5 | 2600.2 | 2463.5 | 2249.3 | 2041.7 | 1845.8 | 1656.5 | 1535.1 | 1512.5 |
| 52.5° | 2501.5 | 2470.8 | 2478.1 | 2444.5 | 2312.2 | 2102.4 | 1910.1 | 1707.6 | 1534.4 | 1424.0 | 1401.3 |
| 55°   | 2329.0 | 2285.1 | 2291.7 | 2279.3 | 2154.3 | 1951.1 | 1762.5 | 1593.6 | 1414.5 | 1310.7 | 1289.5 |
| 57.5° | 2149.9 | 2092.9 | 2116.3 | 2109.0 | 1986.1 | 1796.1 | 1627.2 | 1464.2 | 1295.3 | 1199.6 | 1179.1 |
| 60°   | 1966.4 | 1911.6 | 1935.7 | 1929.1 | 1813.6 | 1641.1 | 1487.6 | 1336.3 | 1176.9 | 1089.9 | 1069.5 |
| 62.5° | 1777.8 | 1727.4 | 1749.3 | 1744.2 | 1638.2 | 1482.5 | 1348.7 | 1209.8 | 1057.8 | 979.6  | 960.5  |
| 65°   | 1587.7 | 1539.5 | 1559.2 | 1555.6 | 1457.6 | 1339.2 | 1206.2 | 1079.0 | 937.9  | 869.9  | 850.9  |
| 67.5° | 1393.3 | 1348.7 | 1367.0 | 1367.0 | 1277.1 | 1163.8 | 1062.9 | 946.7  | 820.2  | 761.7  | 744.2  |
| 70°   | 1200.3 | 1158.6 | 1174.7 | 1173.3 | 1097.2 | 1005.1 | 918.1  | 814.3  | 701.0  | 652.8  | 638.2  |
| 72.5° | 1005.9 | 969.3  | 983.9  | 982.5  | 918.9  | 859.7  | 773.4  | 683.5  | 584.8  | 546.1  | 532.9  |
| 75°   | 817.3  | 782.9  | 796.8  | 795.3  | 743.4  | 687.9  | 630.1  | 555.6  | 470.8  | 443.7  | 430.6  |
| 77.5° | 637.4  | 602.4  | 614.0  | 614.0  | 576.0  | 535.8  | 489.8  | 432.0  | 372.1  | 342.8  | 333.3  |
| 80°   | 464.9  | 448.1  | 442.3  | 443.0  | 417.4  | 391.1  | 367.7  | 312.1  | 268.3  | 248.5  | 242.0  |
| 82.5° | 305.6  | 291.7  | 285.8  | 287.3  | 272.7  | 256.6  | 242.0  | 203.2  | 174.0  | 162.3  | 158.6  |
| 85°   | 162.3  | 152.0  | 146.9  | 150.6  | 147.7  | 138.9  | 131.6  | 105.3  | 87.0   | 82.6   | 80.4   |
| 87.5° | 51.2   | 44.6   | 40.9   | 54.1   | 46.1   | 40.9   | 39.5   | 31.4   | 24.1   | 24.1   | 23.4   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 |
| 2.5°  | 3129.4 | 3129.4 | 3100.9 | 3094.4 | 3091.4 | 3095.1 | 3066.6 | 3061.5 | 3102.4 | 3088.5 | 3057.1 |
| 5°    | 3104.6 | 3103.1 | 3062.9 | 3055.6 | 3055.6 | 3051.2 | 3019.1 | 3011.8 | 3052.7 | 3041.0 | 3006.6 |
| 7.5°  | 3073.9 | 3069.5 | 3022.0 | 3016.9 | 3009.6 | 3006.6 | 2970.8 | 2965.7 | 3000.8 | 2993.5 | 2961.3 |
| 10°   | 3036.6 | 3032.2 | 2975.9 | 2972.3 | 2964.2 | 2958.4 | 2924.8 | 2921.1 | 2956.9 | 2945.2 | 2919.6 |
| 12.5° | 2987.6 | 2979.6 | 2921.8 | 2918.2 | 2911.6 | 2909.4 | 2876.5 | 2875.1 | 2914.5 | 2902.8 | 2875.8 |
| 15°   | 2923.3 | 2916.7 | 2852.4 | 2853.9 | 2854.6 | 2854.6 | 2828.3 | 2826.8 | 2865.6 | 2860.4 | 2831.2 |
| 17.5° | 2852.4 | 2843.6 | 2782.2 | 2786.6 | 2791.7 | 2797.6 | 2777.1 | 2780.8 | 2821.7 | 2815.1 | 2788.8 |
| 20°   | 2772.0 | 2763.2 | 2703.3 | 2715.7 | 2726.7 | 2738.4 | 2725.2 | 2735.4 | 2773.4 | 2770.5 | 2750.8 |
| 22.5° | 2682.1 | 2673.3 | 2617.7 | 2636.7 | 2655.0 | 2677.0 | 2671.1 | 2682.8 | 2723.0 | 2722.3 | 2704.7 |
| 25°   | 2572.4 | 2574.6 | 2525.6 | 2549.0 | 2579.7 | 2610.4 | 2612.6 | 2631.6 | 2676.2 | 2671.8 | 2655.8 |
| 27.5° | 2470.1 | 2473.0 | 2421.1 | 2460.6 | 2501.5 | 2541.0 | 2550.5 | 2576.8 | 2622.1 | 2618.5 | 2604.6 |
| 30°   | 2362.6 | 2366.3 | 2315.8 | 2369.9 | 2419.6 | 2467.9 | 2488.4 | 2524.2 | 2570.2 | 2570.2 | 2555.6 |
| 32.5° | 2250.8 | 2257.4 | 2204.7 | 2277.1 | 2334.8 | 2391.1 | 2426.9 | 2464.2 | 2516.9 | 2515.4 | 2503.0 |
| 35°   | 2136.0 | 2143.3 | 2095.1 | 2187.2 | 2244.9 | 2313.6 | 2358.2 | 2407.9 | 2454.7 | 2455.5 | 2446.0 |
| 37.5° | 2019.0 | 2027.8 | 1984.0 | 2084.8 | 2150.6 | 2231.8 | 2288.8 | 2338.5 | 2390.4 | 2393.3 | 2384.5 |
| 40°   | 1902.8 | 1912.3 | 1874.3 | 1971.5 | 2054.9 | 2145.5 | 2211.3 | 2269.8 | 2326.8 | 2328.3 | 2322.4 |
| 42.5° | 1786.6 | 1796.8 | 1768.3 | 1863.3 | 1957.6 | 2054.9 | 2132.4 | 2198.9 | 2257.4 | 2261.0 | 2254.4 |
| 45°   | 1673.3 | 1682.0 | 1661.6 | 1765.4 | 1856.0 | 1962.0 | 2051.2 | 2126.5 | 2185.7 | 2190.8 | 2188.6 |
| 47.5° | 1560.7 | 1568.7 | 1550.5 | 1645.5 | 1750.0 | 1862.6 | 1965.7 | 2049.0 | 2111.9 | 2117.7 | 2116.3 |
| 50°   | 1450.3 | 1456.9 | 1437.2 | 1536.6 | 1640.4 | 1760.3 | 1867.7 | 1964.2 | 2034.4 | 2040.2 | 2039.5 |
| 52.5° | 1340.7 | 1347.2 | 1330.4 | 1435.0 | 1529.3 | 1655.7 | 1772.7 | 1877.2 | 1946.7 | 1955.4 | 1956.9 |
| 55°   | 1234.7 | 1237.6 | 1224.4 | 1324.6 | 1416.0 | 1548.3 | 1682.8 | 1784.4 | 1853.8 | 1861.1 | 1865.5 |
| 57.5° | 1128.7 | 1129.4 | 1118.4 | 1214.2 | 1301.9 | 1437.2 | 1578.2 | 1685.0 | 1750.8 | 1758.1 | 1764.7 |
| 60°   | 1023.4 | 1022.7 | 1010.3 | 1103.1 | 1187.2 | 1320.9 | 1467.9 | 1573.9 | 1637.5 | 1644.0 | 1652.8 |
| 62.5° | 918.9  | 916.7  | 905.7  | 991.2  | 1070.2 | 1202.5 | 1350.2 | 1452.5 | 1513.2 | 1517.6 | 1529.3 |
| 65°   | 815.1  | 812.9  | 802.6  | 881.6  | 953.2  | 1079.7 | 1224.4 | 1321.7 | 1376.5 | 1382.3 | 1380.1 |
| 67.5° | 712.7  | 708.3  | 700.3  | 771.2  | 836.3  | 953.2  | 1092.1 | 1185.0 | 1230.3 | 1235.4 | 1249.3 |
| 70°   | 610.4  | 605.3  | 587.0  | 662.3  | 719.3  | 823.8  | 953.2  | 1035.8 | 1073.9 | 1079.0 | 1076.8 |
| 72.5° | 509.5  | 504.4  | 484.7  | 554.1  | 602.4  | 693.7  | 809.2  | 877.9  | 910.8  | 915.2  | 915.2  |
| 75°   | 411.6  | 408.6  | 396.2  | 448.8  | 489.0  | 563.6  | 661.6  | 718.6  | 744.2  | 749.3  | 747.8  |
| 77.5° | 317.3  | 315.1  | 302.6  | 348.0  | 379.4  | 434.9  | 513.9  | 558.5  | 577.5  | 583.3  | 595.8  |
| 80°   | 227.3  | 226.6  | 206.9  | 251.5  | 265.4  | 312.1  | 369.9  | 404.2  | 414.5  | 422.5  | 431.3  |
| 82.5° | 145.5  | 146.2  | 126.5  | 164.5  | 170.3  | 200.3  | 236.1  | 257.3  | 264.6  | 271.2  | 277.8  |
| 85°   | 70.9   | 73.8   | 62.9   | 87.0   | 87.7   | 103.1  | 118.4  | 126.5  | 129.4  | 134.5  | 140.4  |
| 87.5° | 18.3   | 21.2   | 11.7   | 24.9   | 21.9   | 28.5   | 32.9   | 35.1   | 34.4   | 38.0   | 40.2   |
| 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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CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5HI-27-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 |
| 2.5°  | 3067.3 | 3090.7 | 3079.0 | 3117.0 | 3131.6 | 3108.2 | 3149.2 | 3149.9 | 3120.7 | 3155.0 | 3174.0 |
| 5°    | 3019.8 | 3043.9 | 3036.6 | 3076.1 | 3094.4 | 3073.9 | 3123.6 | 3133.1 | 3104.6 | 3143.3 | 3174.0 |
| 7.5°  | 2971.5 | 3000.1 | 2990.6 | 3030.8 | 3052.7 | 3036.6 | 3090.0 | 3105.3 | 3083.4 | 3125.8 | 3166.7 |
| 10°   | 2929.9 | 2954.0 | 2943.8 | 2986.2 | 3005.2 | 2992.0 | 3044.6 | 3073.2 | 3052.7 | 3104.6 | 3153.6 |
| 12.5° | 2888.9 | 2908.7 | 2897.0 | 2932.1 | 2950.3 | 2933.5 | 2997.9 | 3024.2 | 3009.6 | 3063.7 | 3126.5 |
| 15°   | 2836.3 | 2858.2 | 2842.2 | 2873.6 | 2887.5 | 2872.9 | 2925.5 | 2970.8 | 2952.5 | 3011.8 | 3081.2 |
| 17.5° | 2796.1 | 2808.5 | 2786.6 | 2811.5 | 2819.5 | 2799.8 | 2853.1 | 2897.7 | 2884.6 | 2948.9 | 3029.3 |
| 20°   | 2751.5 | 2761.7 | 2731.0 | 2744.9 | 2744.2 | 2719.4 | 2768.3 | 2812.2 | 2803.4 | 2874.3 | 2965.7 |
| 22.5° | 2701.8 | 2706.9 | 2671.1 | 2674.0 | 2672.6 | 2631.6 | 2675.5 | 2720.1 | 2716.4 | 2788.1 | 2890.4 |
| 25°   | 2649.2 | 2649.9 | 2603.9 | 2602.4 | 2586.3 | 2538.1 | 2576.8 | 2627.2 | 2616.3 | 2693.8 | 2801.2 |
| 27.5° | 2597.3 | 2590.0 | 2534.4 | 2521.2 | 2495.7 | 2437.9 | 2472.3 | 2517.6 | 2511.0 | 2587.0 | 2706.2 |
| 30°   | 2541.7 | 2532.2 | 2464.2 | 2440.1 | 2402.8 | 2336.3 | 2364.8 | 2407.2 | 2410.9 | 2477.4 | 2602.4 |
| 32.5° | 2489.1 | 2465.0 | 2389.7 | 2354.6 | 2307.8 | 2230.3 | 2245.7 | 2288.8 | 2294.6 | 2361.9 | 2490.5 |
| 35°   | 2421.1 | 2405.0 | 2312.2 | 2252.2 | 2206.2 | 2121.4 | 2137.5 | 2167.4 | 2176.2 | 2242.0 | 2372.9 |
| 37.5° | 2356.8 | 2331.2 | 2232.5 | 2159.4 | 2100.2 | 2011.0 | 2015.4 | 2046.1 | 2054.9 | 2121.4 | 2250.8 |
| 40°   | 2290.2 | 2253.7 | 2147.7 | 2062.2 | 1994.2 | 1900.6 | 1895.5 | 1927.7 | 1934.2 | 1999.3 | 2116.3 |
| 42.5° | 2219.3 | 2175.5 | 2056.3 | 1962.8 | 1884.5 | 1789.5 | 1779.3 | 1807.1 | 1814.4 | 1878.0 | 1992.7 |
| 45°   | 2147.7 | 2095.1 | 1962.8 | 1860.4 | 1774.9 | 1677.7 | 1667.4 | 1688.6 | 1699.6 | 1759.5 | 1869.9 |
| 47.5° | 2071.7 | 2010.3 | 1866.3 | 1752.2 | 1663.8 | 1566.6 | 1554.1 | 1575.3 | 1584.1 | 1643.3 | 1747.8 |
| 50°   | 1992.0 | 1917.4 | 1766.8 | 1641.1 | 1553.4 | 1457.6 | 1439.4 | 1464.2 | 1472.3 | 1527.8 | 1630.1 |
| 52.5° | 1904.3 | 1821.7 | 1660.9 | 1529.3 | 1441.5 | 1350.2 | 1328.2 | 1352.4 | 1361.9 | 1416.0 | 1510.3 |
| 55°   | 1811.4 | 1722.3 | 1554.1 | 1426.2 | 1331.2 | 1242.0 | 1223.7 | 1233.2 | 1253.7 | 1304.8 | 1392.6 |
| 57.5° | 1706.9 | 1618.5 | 1441.5 | 1311.4 | 1220.1 | 1134.5 | 1119.2 | 1127.9 | 1147.0 | 1196.7 | 1275.6 |
| 60°   | 1595.8 | 1502.2 | 1326.8 | 1196.7 | 1108.2 | 1027.1 | 1013.2 | 1021.2 | 1041.7 | 1087.0 | 1160.1 |
| 62.5° | 1486.1 | 1380.9 | 1208.4 | 1079.0 | 998.6  | 923.3  | 919.6  | 916.7  | 935.7  | 979.6  | 1043.9 |
| 65°   | 1353.1 | 1252.2 | 1084.8 | 962.0  | 888.9  | 820.9  | 806.3  | 812.9  | 831.2  | 871.4  | 938.6  |
| 67.5° | 1210.5 | 1119.2 | 958.4  | 845.0  | 780.0  | 719.3  | 706.9  | 709.8  | 728.8  | 763.9  | 822.4  |
| 70°   | 1059.2 | 978.8  | 829.0  | 727.4  | 672.5  | 615.5  | 607.5  | 608.2  | 626.5  | 657.2  | 708.3  |
| 72.5° | 900.6  | 828.2  | 698.1  | 611.1  | 565.8  | 524.9  | 517.6  | 508.8  | 525.6  | 551.9  | 595.8  |
| 75°   | 739.0  | 675.5  | 568.0  | 497.1  | 461.3  | 426.9  | 420.3  | 411.6  | 428.4  | 451.0  | 485.4  |
| 77.5° | 576.0  | 524.9  | 441.5  | 386.7  | 358.9  | 333.3  | 327.5  | 318.0  | 334.8  | 351.6  | 378.7  |
| 80°   | 416.7  | 379.4  | 329.7  | 271.9  | 262.4  | 245.6  | 239.8  | 229.5  | 245.6  | 256.6  | 277.1  |
| 82.5° | 269.0  | 244.2  | 215.6  | 175.4  | 174.0  | 161.6  | 158.6  | 146.9  | 161.6  | 168.1  | 183.5  |
| 85°   | 136.0  | 124.3  | 117.0  | 89.2   | 92.1   | 84.1   | 83.3   | 70.9   | 82.6   | 85.5   | 94.3   |
| 87.5° | 38.7   | 40.9   | 36.6   | 21.9   | 27.8   | 26.3   | 26.3   | 19.0   | 26.3   | 26.3   | 30.0   |
| 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):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 | 3133.8 |
| 2.5°  | 3136.8 | 3149.2 | 3152.1 | 3151.4 | 3159.4 | 3203.3 | 3188.7 | 3203.3 |
| 5°    | 3144.1 | 3171.8 | 3179.2 | 3189.4 | 3202.5 | 3252.3 | 3236.2 | 3253.7 |
| 7.5°  | 3148.5 | 3190.1 | 3206.2 | 3225.9 | 3247.1 | 3302.7 | 3289.5 | 3307.1 |
| 10°   | 3148.5 | 3202.5 | 3225.9 | 3258.8 | 3287.3 | 3351.7 | 3339.2 | 3359.7 |
| 12.5° | 3135.3 | 3204.7 | 3237.6 | 3283.7 | 3320.2 | 3389.7 | 3384.6 | 3399.2 |
| 15°   | 3108.2 | 3193.8 | 3239.1 | 3298.3 | 3343.6 | 3421.1 | 3418.9 | 3436.5 |
| 17.5° | 3071.7 | 3174.8 | 3229.6 | 3304.2 | 3361.2 | 3448.2 | 3453.3 | 3462.8 |
| 20°   | 3025.6 | 3138.9 | 3210.6 | 3302.0 | 3373.6 | 3469.4 | 3475.9 | 3489.1 |
| 22.5° | 2965.0 | 3095.8 | 3182.1 | 3292.5 | 3375.1 | 3478.1 | 3489.8 | 3502.3 |
| 25°   | 2893.3 | 3043.9 | 3144.8 | 3274.2 | 3367.8 | 3477.4 | 3493.5 | 3504.5 |
| 27.5° | 2811.5 | 2976.7 | 3097.3 | 3244.9 | 3347.3 | 3465.7 | 3485.4 | 3498.6 |
| 30°   | 2716.4 | 2905.0 | 3043.2 | 3206.9 | 3319.5 | 3443.8 | 3465.0 | 3478.1 |
| 32.5° | 2618.5 | 2826.1 | 2978.9 | 3158.0 | 3279.3 | 3408.7 | 3427.0 | 3437.2 |
| 35°   | 2511.7 | 2730.3 | 2901.4 | 3095.1 | 3227.4 | 3352.4 | 3366.3 | 3377.3 |
| 37.5° | 2395.5 | 2626.5 | 2812.9 | 3024.2 | 3154.3 | 3274.2 | 3286.6 | 3299.0 |
| 40°   | 2275.6 | 2517.6 | 2713.5 | 2937.2 | 3067.3 | 3178.4 | 3191.6 | 3200.4 |
| 42.5° | 2155.0 | 2397.0 | 2607.5 | 2834.8 | 2964.2 | 3071.0 | 3079.0 | 3087.8 |
| 45°   | 2032.9 | 2272.0 | 2488.4 | 2721.5 | 2849.5 | 2949.6 | 2952.5 | 2959.9 |
| 47.5° | 1908.7 | 2142.6 | 2357.5 | 2592.2 | 2718.6 | 2810.0 | 2812.9 | 2818.8 |
| 50°   | 1783.7 | 2013.2 | 2217.9 | 2452.5 | 2576.1 | 2672.6 | 2659.4 | 2665.3 |
| 52.5° | 1660.9 | 1877.2 | 2086.3 | 2301.9 | 2424.0 | 2509.6 | 2513.2 | 2501.5 |
| 55°   | 1540.2 | 1744.2 | 1936.4 | 2144.0 | 2260.3 | 2326.8 | 2324.6 | 2329.0 |
| 57.5° | 1418.2 | 1609.7 | 1785.9 | 1975.9 | 2089.2 | 2152.1 | 2165.2 | 2149.9 |
| 60°   | 1293.9 | 1473.7 | 1631.6 | 1803.4 | 1913.0 | 1965.7 | 1981.0 | 1966.4 |
| 62.5° | 1170.3 | 1335.6 | 1478.8 | 1628.7 | 1730.3 | 1795.4 | 1793.9 | 1777.8 |
| 65°   | 1046.8 | 1196.7 | 1324.6 | 1451.8 | 1540.2 | 1605.3 | 1602.4 | 1587.7 |
| 67.5° | 932.8  | 1056.3 | 1171.1 | 1274.1 | 1350.9 | 1395.5 | 1410.8 | 1393.3 |
| 70°   | 807.0  | 913.8  | 1014.6 | 1097.2 | 1160.8 | 1201.0 | 1215.7 | 1200.3 |
| 72.5° | 681.3  | 771.9  | 842.9  | 922.5  | 971.5  | 1005.1 | 1020.5 | 1005.9 |
| 75°   | 557.0  | 631.6  | 689.3  | 751.5  | 785.8  | 814.3  | 831.9  | 817.3  |
| 77.5° | 436.4  | 494.2  | 540.2  | 585.5  | 625.0  | 631.6  | 646.9  | 637.4  |
| 80°   | 321.6  | 363.3  | 396.9  | 426.9  | 455.4  | 458.3  | 470.8  | 464.9  |
| 82.5° | 214.2  | 242.0  | 250.7  | 282.2  | 300.4  | 297.5  | 309.9  | 305.6  |
| 85°   | 113.3  | 130.1  | 145.5  | 155.0  | 165.2  | 155.7  | 166.7  | 162.3  |
| 87.5° | 38.0   | 40.2   | 35.1   | 49.7   | 54.8   | 46.8   | 53.4   | 51.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)