

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: PORTFOLIO

Report Number: P879482

Luminaire Tested: **LD4C70D010 EU4709035 4LBDWWH**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P879482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EU4709035 4LBLDWWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

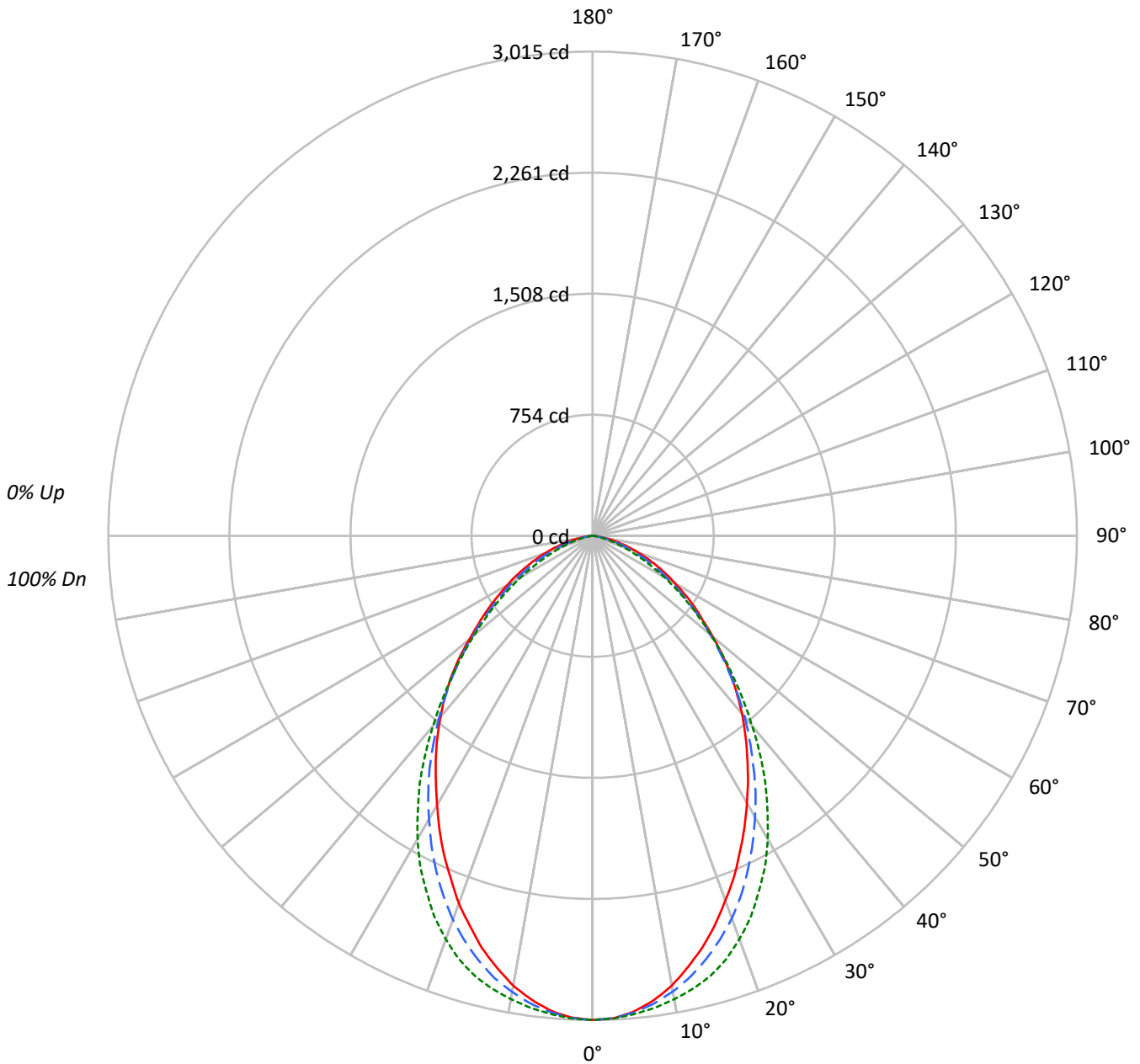
Lumens per Lamp: N/A  
Luminaire Lumens: 5393.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
Input Voltage (V): NR  
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

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CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWH

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 68  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 370416 | 370416 | 370416 |
| 5°  | 366651 | 368698 | 366232 |
| 10° | 354723 | 365501 | 354860 |
| 15° | 337008 | 360818 | 338140 |
| 20° | 315876 | 349463 | 318478 |
| 25° | 294192 | 331565 | 296890 |
| 30° | 272525 | 309281 | 274568 |
| 35° | 251420 | 281146 | 255245 |
| 40° | 231917 | 247729 | 236183 |
| 45° | 210088 | 214692 | 216429 |
| 50° | 186233 | 183902 | 190897 |
| 55° | 166018 | 154880 | 169809 |
| 60° | 145287 | 125704 | 150717 |
| 65° | 127150 | 97209  | 131656 |
| 70° | 107006 | 71193  | 112573 |
| 75° | 83589  | 46233  | 88289  |
| 80° | 54830  | 24267  | 60348  |
| 85° | 18747  | 10995  | 24950  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 281.5  | 5.2       |
| 10°-20°   | 769.0  | 14.3      |
| 20°-30°   | 1057.7 | 19.6      |
| 30°-40°   | 1103.4 | 20.5      |
| 40°-50°   | 944.0  | 17.5      |
| 50°-60°   | 675.2  | 12.5      |
| 60°-70°   | 391.8  | 7.3       |
| 70°-80°   | 151.1  | 2.8       |
| 80°-90°   | 19.2   | 0.4       |
| 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°    | 2108.2 | 39.1      |
| 0°-40°    | 3211.6 | 59.6      |
| 0°-60°    | 4830.9 | 89.6      |
| 0°-90°    | 5393.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5393.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3015 | 3015 | 3015 | 3015 | 3015 |      |
| 5°  | 2973 | 2979 | 2990 | 2979 | 2970 | 280  |
| 15° | 2650 | 2730 | 2837 | 2739 | 2659 | 743  |
| 25° | 2170 | 2290 | 2446 | 2304 | 2190 | 998  |
| 35° | 1676 | 1743 | 1875 | 1770 | 1702 | 1050 |
| 45° | 1209 | 1199 | 1236 | 1229 | 1246 | 932  |
| 55° | 775  | 736  | 723  | 756  | 793  | 693  |
| 65° | 437  | 386  | 334  | 400  | 453  | 436  |
| 75° | 176  | 132  | 97   | 140  | 186  | 189  |
| 85° | 13   | 10   | 8    | 11   | 18   | 26   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 |
| 2.5°  | 3007.4 | 3005.2 | 3006.3 | 3006.3 | 3006.3 | 3005.2 | 3007.4 | 3007.4 | 3006.3 | 3006.3 | 3006.3 |
| 5°    | 2973.1 | 2970.8 | 2971.9 | 2973.1 | 2973.1 | 2973.1 | 2974.2 | 2975.3 | 2976.4 | 2977.5 | 2978.6 |
| 7.5°  | 2917.7 | 2914.4 | 2917.7 | 2922.1 | 2922.1 | 2923.2 | 2924.3 | 2925.4 | 2928.8 | 2934.3 | 2937.6 |
| 10°   | 2843.5 | 2843.5 | 2844.6 | 2847.9 | 2853.5 | 2852.4 | 2855.7 | 2861.2 | 2867.9 | 2875.6 | 2881.1 |
| 12.5° | 2749.4 | 2751.6 | 2754.9 | 2758.2 | 2763.8 | 2767.1 | 2772.6 | 2779.3 | 2790.4 | 2801.4 | 2813.6 |
| 15°   | 2649.7 | 2650.8 | 2651.9 | 2659.7 | 2665.2 | 2673.0 | 2677.4 | 2690.7 | 2700.7 | 2716.2 | 2729.5 |
| 17.5° | 2537.9 | 2536.8 | 2540.1 | 2546.8 | 2560.0 | 2563.4 | 2568.9 | 2583.3 | 2597.7 | 2618.7 | 2636.4 |
| 20°   | 2416.1 | 2422.7 | 2427.2 | 2436.0 | 2443.8 | 2452.6 | 2457.1 | 2474.8 | 2491.4 | 2511.3 | 2534.6 |
| 22.5° | 2300.9 | 2295.4 | 2303.1 | 2313.1 | 2319.8 | 2326.4 | 2334.2 | 2353.0 | 2370.7 | 2395.1 | 2418.3 |
| 25°   | 2170.3 | 2173.6 | 2179.1 | 2186.9 | 2195.7 | 2204.6 | 2213.5 | 2233.4 | 2243.4 | 2268.8 | 2289.9 |
| 27.5° | 2046.3 | 2051.8 | 2054.0 | 2064.0 | 2071.7 | 2078.4 | 2082.8 | 2106.1 | 2114.9 | 2137.1 | 2158.1 |
| 30°   | 1921.1 | 1926.7 | 1926.7 | 1937.7 | 1943.3 | 1949.9 | 1961.0 | 1976.5 | 1989.8 | 2005.3 | 2020.8 |
| 32.5° | 1800.4 | 1800.4 | 1804.9 | 1814.8 | 1820.4 | 1828.1 | 1831.4 | 1842.5 | 1855.8 | 1871.3 | 1887.9 |
| 35°   | 1676.4 | 1679.7 | 1684.2 | 1684.2 | 1694.1 | 1698.6 | 1703.0 | 1714.1 | 1722.9 | 1729.6 | 1742.9 |
| 37.5° | 1562.4 | 1562.4 | 1559.1 | 1564.6 | 1571.2 | 1570.1 | 1576.8 | 1582.3 | 1587.8 | 1595.6 | 1606.7 |
| 40°   | 1446.1 | 1446.1 | 1441.7 | 1445.0 | 1449.4 | 1448.3 | 1446.1 | 1451.6 | 1456.1 | 1461.6 | 1472.7 |
| 42.5° | 1327.6 | 1325.4 | 1324.3 | 1324.3 | 1326.5 | 1324.3 | 1326.5 | 1327.6 | 1327.6 | 1327.6 | 1334.3 |
| 45°   | 1209.2 | 1214.7 | 1208.0 | 1205.8 | 1202.5 | 1199.2 | 1198.1 | 1199.2 | 1203.6 | 1198.1 | 1199.2 |
| 47.5° | 1092.9 | 1095.1 | 1090.7 | 1087.4 | 1084.0 | 1081.8 | 1084.0 | 1077.4 | 1079.6 | 1080.7 | 1076.3 |
| 50°   | 974.4  | 970.0  | 970.0  | 966.7  | 967.8  | 966.7  | 964.4  | 962.2  | 962.2  | 956.7  | 953.4  |
| 52.5° | 864.8  | 867.0  | 869.2  | 861.5  | 862.6  | 857.0  | 858.1  | 852.6  | 852.6  | 846.0  | 848.2  |
| 55°   | 775.1  | 771.8  | 771.8  | 768.5  | 767.3  | 761.8  | 760.7  | 757.4  | 749.6  | 745.2  | 736.3  |
| 57.5° | 682.1  | 681.0  | 676.5  | 677.7  | 671.0  | 669.9  | 667.7  | 662.2  | 656.6  | 651.1  | 641.1  |
| 60°   | 591.3  | 592.4  | 592.4  | 590.2  | 586.9  | 581.3  | 582.4  | 574.7  | 566.9  | 557.0  | 548.1  |
| 62.5° | 516.0  | 512.7  | 511.6  | 509.4  | 502.7  | 502.7  | 497.2  | 491.6  | 483.9  | 473.9  | 466.2  |
| 65°   | 437.4  | 438.5  | 435.2  | 431.8  | 425.2  | 424.1  | 419.7  | 415.2  | 407.5  | 397.5  | 386.4  |
| 67.5° | 366.5  | 364.3  | 363.2  | 359.9  | 353.2  | 352.1  | 348.8  | 338.8  | 332.2  | 322.2  | 313.4  |
| 70°   | 297.9  | 295.6  | 296.8  | 291.2  | 284.6  | 281.2  | 280.1  | 272.4  | 262.4  | 254.7  | 245.8  |
| 72.5° | 233.6  | 233.6  | 232.5  | 227.0  | 223.7  | 221.5  | 217.0  | 208.2  | 202.6  | 193.8  | 187.1  |
| 75°   | 176.1  | 175.0  | 172.7  | 169.4  | 165.0  | 162.8  | 160.6  | 155.0  | 147.3  | 137.3  | 131.8  |
| 77.5° | 121.8  | 122.9  | 120.7  | 119.6  | 114.1  | 110.7  | 109.6  | 106.3  | 99.7   | 93.0   | 87.5   |
| 80°   | 77.5   | 76.4   | 75.3   | 73.1   | 72.0   | 70.9   | 67.5   | 65.3   | 58.7   | 55.4   | 52.0   |
| 82.5° | 42.1   | 39.9   | 39.9   | 38.8   | 36.5   | 35.4   | 34.3   | 32.1   | 31.0   | 28.8   | 26.6   |
| 85°   | 13.3   | 14.4   | 13.3   | 13.3   | 13.3   | 12.2   | 12.2   | 12.2   | 11.1   | 11.1   | 10.0   |
| 87.5° | 1.1    | 2.2    | 1.1    | 1.1    | 2.2    | 1.1    | 1.1    | 2.2    | 1.1    | 1.1    | 2.2    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 |
| 2.5°  | 3006.3 | 3007.4 | 3007.4 | 3008.5 | 3008.5 | 3008.5 | 3008.5 | 3008.5 | 3008.5 | 3008.5 | 3008.5 |
| 5°    | 2981.9 | 2981.9 | 2984.1 | 2986.3 | 2986.3 | 2986.3 | 2987.4 | 2989.7 | 2989.7 | 2989.7 | 2988.6 |
| 7.5°  | 2942.1 | 2946.5 | 2950.9 | 2955.3 | 2956.4 | 2957.6 | 2959.8 | 2964.2 | 2964.2 | 2964.2 | 2964.2 |
| 10°   | 2890.0 | 2900.0 | 2905.5 | 2912.2 | 2915.5 | 2917.7 | 2924.3 | 2925.4 | 2928.8 | 2929.9 | 2928.8 |
| 12.5° | 2823.6 | 2836.9 | 2849.0 | 2860.1 | 2864.5 | 2869.0 | 2875.6 | 2882.3 | 2885.6 | 2888.9 | 2887.8 |
| 15°   | 2749.4 | 2763.8 | 2782.6 | 2794.8 | 2803.6 | 2810.3 | 2820.2 | 2829.1 | 2834.6 | 2836.9 | 2836.9 |
| 17.5° | 2659.7 | 2677.4 | 2697.3 | 2717.3 | 2722.8 | 2733.9 | 2745.0 | 2757.1 | 2763.8 | 2764.9 | 2763.8 |
| 20°   | 2560.0 | 2580.0 | 2596.6 | 2616.5 | 2628.7 | 2634.2 | 2649.7 | 2665.2 | 2671.9 | 2673.0 | 2671.9 |
| 22.5° | 2441.6 | 2460.4 | 2482.5 | 2503.6 | 2513.5 | 2523.5 | 2540.1 | 2555.6 | 2564.5 | 2571.1 | 2564.5 |
| 25°   | 2309.8 | 2336.4 | 2357.4 | 2375.1 | 2389.5 | 2399.5 | 2420.5 | 2432.7 | 2447.1 | 2446.0 | 2447.1 |
| 27.5° | 2180.2 | 2202.4 | 2225.6 | 2246.7 | 2255.5 | 2266.6 | 2283.2 | 2303.1 | 2315.3 | 2323.1 | 2322.0 |
| 30°   | 2047.4 | 2065.1 | 2085.0 | 2103.8 | 2118.2 | 2127.1 | 2151.5 | 2160.3 | 2175.8 | 2180.2 | 2176.9 |
| 32.5° | 1906.7 | 1918.9 | 1938.9 | 1964.3 | 1969.9 | 1978.7 | 1994.2 | 2016.4 | 2021.9 | 2024.1 | 2025.2 |
| 35°   | 1757.3 | 1780.5 | 1797.1 | 1812.6 | 1817.1 | 1824.8 | 1842.5 | 1859.1 | 1864.7 | 1874.6 | 1870.2 |
| 37.5° | 1618.8 | 1632.1 | 1639.9 | 1655.4 | 1668.7 | 1675.3 | 1684.2 | 1695.2 | 1706.3 | 1710.8 | 1709.6 |
| 40°   | 1480.4 | 1487.1 | 1493.7 | 1510.3 | 1511.4 | 1511.4 | 1524.7 | 1540.2 | 1540.2 | 1544.7 | 1544.7 |
| 42.5° | 1338.7 | 1339.8 | 1348.7 | 1357.5 | 1359.7 | 1362.0 | 1375.2 | 1377.5 | 1384.1 | 1387.4 | 1391.9 |
| 45°   | 1201.4 | 1208.0 | 1213.6 | 1214.7 | 1220.2 | 1221.3 | 1224.7 | 1228.0 | 1237.9 | 1235.7 | 1237.9 |
| 47.5° | 1076.3 | 1079.6 | 1082.9 | 1082.9 | 1086.2 | 1085.1 | 1090.7 | 1087.4 | 1094.0 | 1096.2 | 1099.5 |
| 50°   | 953.4  | 958.9  | 955.6  | 957.8  | 956.7  | 960.0  | 957.8  | 957.8  | 957.8  | 962.2  | 965.6  |
| 52.5° | 840.4  | 841.5  | 838.2  | 839.3  | 839.3  | 837.1  | 839.3  | 838.2  | 837.1  | 837.1  | 838.2  |
| 55°   | 736.3  | 731.9  | 729.7  | 725.3  | 719.7  | 726.4  | 723.1  | 720.8  | 725.3  | 723.1  | 725.3  |
| 57.5° | 635.6  | 630.0  | 625.6  | 623.4  | 615.6  | 620.1  | 615.6  | 613.4  | 613.4  | 613.4  | 619.0  |
| 60°   | 540.4  | 534.8  | 529.3  | 522.6  | 521.5  | 519.3  | 517.1  | 511.6  | 512.7  | 511.6  | 513.8  |
| 62.5° | 457.3  | 446.2  | 438.5  | 432.9  | 431.8  | 428.5  | 425.2  | 419.7  | 420.8  | 420.8  | 421.9  |
| 65°   | 380.9  | 368.7  | 357.7  | 349.9  | 349.9  | 344.4  | 338.8  | 338.8  | 332.2  | 334.4  | 335.5  |
| 67.5° | 304.5  | 294.5  | 283.5  | 277.9  | 274.6  | 270.2  | 266.9  | 264.6  | 261.3  | 261.3  | 263.5  |
| 70°   | 235.9  | 225.9  | 220.3  | 211.5  | 210.4  | 207.1  | 202.6  | 199.3  | 198.2  | 198.2  | 197.1  |
| 72.5° | 178.3  | 169.4  | 162.8  | 157.2  | 153.9  | 150.6  | 146.2  | 145.1  | 142.8  | 142.8  | 145.1  |
| 75°   | 124.0  | 118.5  | 112.9  | 107.4  | 105.2  | 104.1  | 100.8  | 98.5   | 98.5   | 97.4   | 98.5   |
| 77.5° | 83.0   | 77.5   | 72.0   | 69.8   | 67.5   | 65.3   | 64.2   | 63.1   | 59.8   | 59.8   | 59.8   |
| 80°   | 47.6   | 45.4   | 43.2   | 39.9   | 39.9   | 38.8   | 36.5   | 35.4   | 34.3   | 34.3   | 34.3   |
| 82.5° | 24.4   | 23.3   | 21.0   | 19.9   | 19.9   | 19.9   | 18.8   | 18.8   | 17.7   | 17.7   | 17.7   |
| 85°   | 10.0   | 8.9    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 8.9    | 7.8    | 8.9    |
| 87.5° | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P879482

CATALOG NUMBER: LD4C70D010 EU4709035 4LBDWWH

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 |
| 2.5°  | 3008.5 | 3007.4 | 3007.4 | 3007.4 | 3007.4 | 3007.4 | 3006.3 | 3006.3 | 3005.2 | 3005.2 | 3005.2 |
| 5°    | 2989.7 | 2988.6 | 2987.4 | 2986.3 | 2985.2 | 2984.1 | 2983.0 | 2981.9 | 2978.6 | 2977.5 | 2975.3 |
| 7.5°  | 2963.1 | 2960.9 | 2957.6 | 2956.4 | 2954.2 | 2950.9 | 2946.5 | 2944.3 | 2939.8 | 2934.3 | 2932.1 |
| 10°   | 2927.7 | 2923.2 | 2919.9 | 2914.4 | 2913.3 | 2908.8 | 2897.8 | 2892.2 | 2884.5 | 2877.8 | 2870.1 |
| 12.5° | 2884.5 | 2880.0 | 2872.3 | 2864.5 | 2860.1 | 2850.1 | 2840.2 | 2831.3 | 2821.4 | 2807.0 | 2795.9 |
| 15°   | 2831.3 | 2824.7 | 2809.2 | 2807.0 | 2800.3 | 2784.8 | 2771.5 | 2754.9 | 2739.4 | 2723.9 | 2710.6 |
| 17.5° | 2760.5 | 2746.1 | 2738.3 | 2728.3 | 2720.6 | 2700.7 | 2686.3 | 2667.4 | 2646.4 | 2628.7 | 2609.9 |
| 20°   | 2667.4 | 2651.9 | 2638.7 | 2633.1 | 2623.2 | 2605.4 | 2587.7 | 2564.5 | 2543.4 | 2521.3 | 2504.7 |
| 22.5° | 2556.7 | 2546.8 | 2526.8 | 2520.2 | 2508.0 | 2490.3 | 2469.2 | 2447.1 | 2427.2 | 2402.8 | 2380.7 |
| 25°   | 2438.2 | 2423.8 | 2408.3 | 2395.1 | 2386.2 | 2369.6 | 2343.0 | 2326.4 | 2304.3 | 2277.7 | 2261.1 |
| 27.5° | 2312.0 | 2295.4 | 2273.3 | 2264.4 | 2256.6 | 2234.5 | 2212.4 | 2191.3 | 2173.6 | 2150.3 | 2135.9 |
| 30°   | 2165.8 | 2153.7 | 2139.3 | 2128.2 | 2117.1 | 2099.4 | 2079.5 | 2055.1 | 2036.3 | 2025.2 | 2005.3 |
| 32.5° | 2017.5 | 2007.5 | 1988.7 | 1983.1 | 1971.0 | 1956.6 | 1942.2 | 1924.5 | 1904.5 | 1887.9 | 1872.4 |
| 35°   | 1859.1 | 1849.2 | 1835.9 | 1825.9 | 1821.5 | 1811.5 | 1796.0 | 1780.5 | 1770.5 | 1751.7 | 1744.0 |
| 37.5° | 1700.8 | 1697.5 | 1684.2 | 1674.2 | 1670.9 | 1658.7 | 1651.0 | 1639.9 | 1625.5 | 1621.1 | 1612.2 |
| 40°   | 1538.0 | 1535.8 | 1528.1 | 1526.9 | 1520.3 | 1517.0 | 1505.9 | 1497.0 | 1490.4 | 1487.1 | 1481.5 |
| 42.5° | 1388.5 | 1386.3 | 1379.7 | 1380.8 | 1374.1 | 1371.9 | 1370.8 | 1363.1 | 1357.5 | 1350.9 | 1352.0 |
| 45°   | 1241.3 | 1239.0 | 1234.6 | 1232.4 | 1235.7 | 1234.6 | 1232.4 | 1229.1 | 1229.1 | 1230.2 | 1226.9 |
| 47.5° | 1099.5 | 1101.7 | 1097.3 | 1099.5 | 1099.5 | 1096.2 | 1096.2 | 1100.6 | 1101.7 | 1104.0 | 1106.2 |
| 50°   | 965.6  | 972.2  | 970.0  | 973.3  | 974.4  | 975.5  | 972.2  | 977.7  | 976.6  | 986.6  | 984.4  |
| 52.5° | 843.7  | 844.9  | 849.3  | 850.4  | 851.5  | 852.6  | 858.1  | 862.6  | 863.7  | 868.1  | 875.9  |
| 55°   | 726.4  | 727.5  | 736.3  | 736.3  | 741.9  | 743.0  | 750.7  | 753.0  | 756.3  | 768.5  | 770.7  |
| 57.5° | 615.6  | 622.3  | 626.7  | 628.9  | 632.3  | 637.8  | 642.2  | 652.2  | 657.7  | 665.5  | 673.2  |
| 60°   | 516.0  | 523.7  | 529.3  | 531.5  | 535.9  | 542.6  | 548.1  | 559.2  | 569.1  | 578.0  | 583.5  |
| 62.5° | 424.1  | 430.7  | 435.2  | 442.9  | 442.9  | 448.4  | 461.7  | 468.4  | 479.5  | 487.2  | 497.2  |
| 65°   | 342.2  | 346.6  | 354.3  | 354.3  | 358.8  | 367.6  | 378.7  | 388.7  | 399.7  | 410.8  | 420.8  |
| 67.5° | 268.0  | 271.3  | 275.7  | 280.1  | 282.4  | 293.4  | 302.3  | 316.7  | 326.6  | 334.4  | 346.6  |
| 70°   | 202.6  | 204.8  | 210.4  | 214.8  | 218.1  | 225.9  | 235.9  | 245.8  | 255.8  | 264.6  | 276.8  |
| 72.5° | 145.1  | 149.5  | 155.0  | 158.3  | 160.6  | 166.1  | 176.1  | 186.0  | 194.9  | 203.7  | 210.4  |
| 75°   | 99.7   | 103.0  | 105.2  | 108.5  | 111.8  | 116.3  | 122.9  | 129.6  | 139.5  | 148.4  | 156.1  |
| 77.5° | 62.0   | 65.3   | 68.7   | 69.8   | 70.9   | 75.3   | 79.7   | 86.4   | 93.0   | 99.7   | 105.2  |
| 80°   | 36.5   | 37.6   | 38.8   | 39.9   | 42.1   | 45.4   | 47.6   | 52.0   | 56.5   | 60.9   | 66.4   |
| 82.5° | 18.8   | 19.9   | 21.0   | 21.0   | 21.0   | 22.1   | 25.5   | 27.7   | 28.8   | 31.0   | 34.3   |
| 85°   | 7.8    | 7.8    | 7.8    | 8.9    | 8.9    | 10.0   | 10.0   | 11.1   | 11.1   | 12.2   | 13.3   |
| 87.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P879482

CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 | 3015.1 |
| 2.5°  | 3004.1 | 3004.1 | 3004.1 | 3003.0 | 3004.1 | 3004.1 | 3004.1 | 3003.0 |
| 5°    | 2975.3 | 2973.1 | 2973.1 | 2971.9 | 2970.8 | 2970.8 | 2971.9 | 2969.7 |
| 7.5°  | 2927.7 | 2924.3 | 2922.1 | 2922.1 | 2921.0 | 2919.9 | 2919.9 | 2914.4 |
| 10°   | 2865.6 | 2859.0 | 2859.0 | 2856.8 | 2847.9 | 2846.8 | 2844.6 | 2844.6 |
| 12.5° | 2788.1 | 2780.4 | 2776.0 | 2770.4 | 2764.9 | 2760.5 | 2759.3 | 2754.9 |
| 15°   | 2696.2 | 2686.3 | 2678.5 | 2676.3 | 2667.4 | 2660.8 | 2660.8 | 2658.6 |
| 17.5° | 2596.6 | 2581.1 | 2575.5 | 2570.0 | 2557.8 | 2556.7 | 2554.5 | 2544.5 |
| 20°   | 2483.6 | 2469.2 | 2461.5 | 2456.0 | 2448.2 | 2437.1 | 2434.9 | 2436.0 |
| 22.5° | 2365.2 | 2345.2 | 2338.6 | 2333.0 | 2325.3 | 2315.3 | 2315.3 | 2307.6 |
| 25°   | 2242.2 | 2224.5 | 2217.9 | 2211.2 | 2199.1 | 2194.6 | 2189.1 | 2190.2 |
| 27.5° | 2117.1 | 2100.5 | 2095.0 | 2082.8 | 2075.0 | 2069.5 | 2064.0 | 2064.0 |
| 30°   | 1986.5 | 1977.6 | 1968.7 | 1967.6 | 1952.1 | 1945.5 | 1940.0 | 1935.5 |
| 32.5° | 1860.2 | 1849.2 | 1844.7 | 1840.3 | 1832.6 | 1823.7 | 1822.6 | 1814.8 |
| 35°   | 1736.2 | 1725.1 | 1719.6 | 1715.2 | 1706.3 | 1703.0 | 1699.7 | 1701.9 |
| 37.5° | 1605.6 | 1603.3 | 1600.0 | 1594.5 | 1589.0 | 1587.8 | 1583.4 | 1589.0 |
| 40°   | 1477.1 | 1476.0 | 1471.6 | 1472.7 | 1472.7 | 1470.5 | 1472.7 | 1472.7 |
| 42.5° | 1353.1 | 1353.1 | 1348.7 | 1350.9 | 1352.0 | 1354.2 | 1357.5 | 1359.7 |
| 45°   | 1232.4 | 1231.3 | 1232.4 | 1234.6 | 1232.4 | 1237.9 | 1242.4 | 1245.7 |
| 47.5° | 1108.4 | 1109.5 | 1113.9 | 1115.0 | 1117.2 | 1125.0 | 1125.0 | 1125.0 |
| 50°   | 989.9  | 995.4  | 993.2  | 999.9  | 998.8  | 1003.2 | 998.8  | 998.8  |
| 52.5° | 877.0  | 882.5  | 883.6  | 884.7  | 891.4  | 892.5  | 892.5  | 891.4  |
| 55°   | 776.2  | 784.0  | 780.6  | 786.2  | 789.5  | 791.7  | 795.0  | 792.8  |
| 57.5° | 683.2  | 686.5  | 689.8  | 690.9  | 695.4  | 697.6  | 699.8  | 697.6  |
| 60°   | 591.3  | 597.9  | 603.5  | 604.6  | 606.8  | 609.0  | 610.1  | 613.4  |
| 62.5° | 504.9  | 516.0  | 518.2  | 519.3  | 524.9  | 528.2  | 530.4  | 532.6  |
| 65°   | 428.5  | 436.3  | 441.8  | 445.1  | 449.6  | 449.6  | 452.9  | 452.9  |
| 67.5° | 354.3  | 362.1  | 365.4  | 367.6  | 374.3  | 375.4  | 380.9  | 380.9  |
| 70°   | 286.8  | 292.3  | 294.5  | 297.9  | 304.5  | 308.9  | 311.1  | 313.4  |
| 72.5° | 221.5  | 228.1  | 231.4  | 235.9  | 240.3  | 243.6  | 244.7  | 248.0  |
| 75°   | 161.7  | 171.6  | 172.7  | 177.2  | 180.5  | 184.9  | 187.1  | 186.0  |
| 77.5° | 112.9  | 116.3  | 120.7  | 122.9  | 126.2  | 129.6  | 132.9  | 132.9  |
| 80°   | 69.8   | 74.2   | 75.3   | 76.4   | 80.8   | 83.0   | 85.3   | 85.3   |
| 82.5° | 36.5   | 38.8   | 41.0   | 42.1   | 44.3   | 44.3   | 45.4   | 46.5   |
| 85°   | 14.4   | 15.5   | 15.5   | 15.5   | 16.6   | 17.7   | 17.7   | 17.7   |
| 87.5° | 2.2    | 3.3    | 2.2    | 2.2    | 3.3    | 3.3    | 3.3    | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)