

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: P880596

Luminaire Tested: **LD4C60D010 EU4609050 4LBDWNH**

Issue Date: 10/4/2024

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: P880596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C60D010 EU4609050 4LBDWNH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

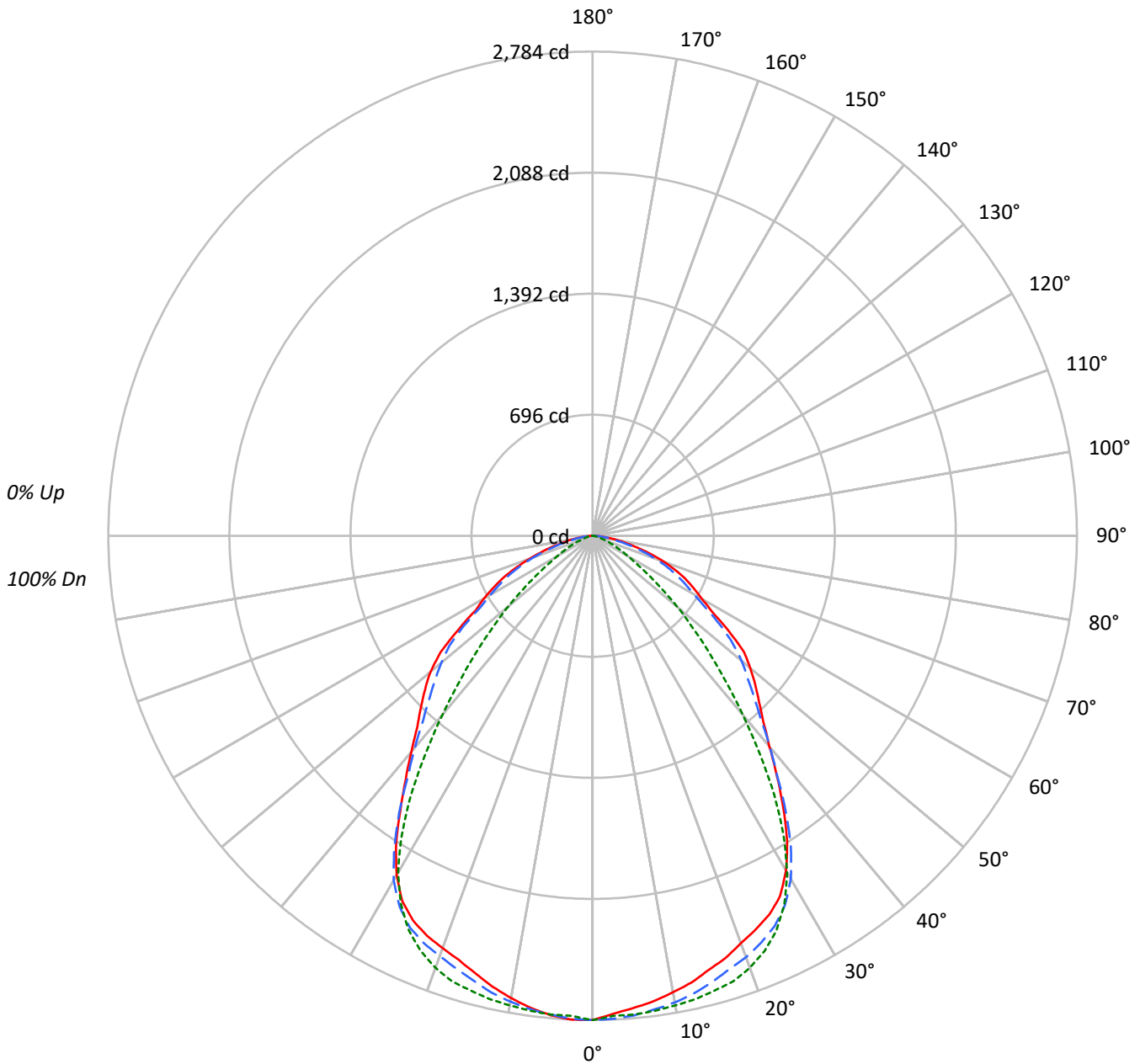
Lumens per Lamp: N/A  
Luminaire Lumens: 5667.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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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### Luminous Intensity Polar Plot





TEST NUMBER: P880596

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|--|--|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |     |  |  |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 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 |    |    |    | 100 |  |  |  |   |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 88  |    |    |    | 88  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    | 76  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    | 66  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 51  |    |    |    | 51  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    | 46  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    | 41  |  |  |  |   |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    | 37  |  |  |  |   |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    | 34  |  |  |  |   |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |    | 31  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 342086 | 342086 | 342086 |
| 5°  | 336018 | 340765 | 341283 |
| 10° | 332405 | 342036 | 336684 |
| 15° | 328550 | 344334 | 331272 |
| 20° | 325943 | 345580 | 329865 |
| 25° | 325776 | 339129 | 330982 |
| 30° | 315395 | 317225 | 319665 |
| 35° | 286545 | 273077 | 289110 |
| 40° | 253519 | 215013 | 259677 |
| 45° | 235193 | 163734 | 242647 |
| 50° | 225987 | 121193 | 232543 |
| 55° | 204614 | 83512  | 201851 |
| 60° | 177892 | 56832  | 176860 |
| 65° | 171860 | 41133  | 163139 |
| 70° | 155390 | 27730  | 138435 |
| 75° | 128066 | 18275  | 109791 |
| 80° | 103081 | 12098  | 81856  |
| 85° | 84716  | 5920   | 54269  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.9  | 4.6       |
| 10°-20°   | 751.6  | 13.3      |
| 20°-30°   | 1135.4 | 20.0      |
| 30°-40°   | 1188.3 | 21.0      |
| 40°-50°   | 962.4  | 17.0      |
| 50°-60°   | 700.0  | 12.4      |
| 60°-70°   | 431.7  | 7.6       |
| 70°-80°   | 195.1  | 3.4       |
| 80°-90°   | 39.6   | 0.7       |
| 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°    | 2149.9 | 37.9      |
| 0°-40°    | 3338.1 | 58.9      |
| 0°-60°    | 5000.6 | 88.2      |
| 0°-90°    | 5667.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5667.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2784 | 2784 | 2784 | 2784 | 2784 |      |
| 5°  | 2725 | 2767 | 2763 | 2763 | 2767 | 258  |
| 15° | 2583 | 2656 | 2707 | 2648 | 2605 | 730  |
| 25° | 2403 | 2476 | 2502 | 2485 | 2442 | 1101 |
| 35° | 1911 | 1936 | 1821 | 1936 | 1928 | 1191 |
| 45° | 1354 | 1311 | 942  | 1328 | 1397 | 1052 |
| 55° | 955  | 895  | 390  | 904  | 942  | 852  |
| 65° | 591  | 531  | 142  | 523  | 561  | 579  |
| 75° | 270  | 231  | 38   | 201  | 231  | 293  |
| 85° | 60   | 47   | 4    | 34   | 38   | 69   |
| 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°    | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 |
| 2.5°  | 2750.2 | 2750.2 | 2776.1 | 2805.8 | 2780.3 | 2754.5 | 2771.6 | 2763.2 | 2793.2 | 2793.2 | 2780.3 |
| 5°    | 2724.7 | 2733.1 | 2754.5 | 2780.3 | 2758.9 | 2733.1 | 2754.5 | 2746.0 | 2776.1 | 2776.1 | 2767.4 |
| 7.5°  | 2698.9 | 2703.1 | 2728.9 | 2758.9 | 2737.3 | 2711.8 | 2728.9 | 2724.7 | 2750.2 | 2754.5 | 2746.0 |
| 10°   | 2664.6 | 2668.8 | 2694.7 | 2724.7 | 2703.1 | 2681.7 | 2698.9 | 2694.7 | 2728.9 | 2728.9 | 2724.7 |
| 12.5° | 2630.4 | 2634.6 | 2660.4 | 2686.0 | 2664.6 | 2643.3 | 2660.4 | 2660.4 | 2694.7 | 2698.9 | 2694.7 |
| 15°   | 2583.2 | 2591.6 | 2613.2 | 2638.8 | 2626.2 | 2600.3 | 2617.5 | 2617.5 | 2647.5 | 2655.9 | 2655.9 |
| 17.5° | 2544.7 | 2549.0 | 2570.3 | 2596.1 | 2579.0 | 2557.4 | 2574.5 | 2574.5 | 2604.6 | 2613.2 | 2613.2 |
| 20°   | 2493.1 | 2501.8 | 2523.1 | 2549.0 | 2536.1 | 2518.9 | 2531.8 | 2531.8 | 2566.1 | 2574.5 | 2579.0 |
| 22.5° | 2450.4 | 2458.9 | 2476.0 | 2510.5 | 2488.9 | 2476.0 | 2493.1 | 2488.9 | 2527.6 | 2531.8 | 2531.8 |
| 25°   | 2403.3 | 2412.0 | 2433.3 | 2454.6 | 2441.7 | 2429.1 | 2441.7 | 2441.7 | 2471.8 | 2476.0 | 2476.0 |
| 27.5° | 2334.8 | 2339.0 | 2360.3 | 2381.9 | 2369.0 | 2351.9 | 2369.0 | 2364.8 | 2394.6 | 2399.1 | 2394.6 |
| 30°   | 2223.3 | 2232.0 | 2240.5 | 2270.5 | 2257.6 | 2244.7 | 2261.8 | 2253.4 | 2283.4 | 2283.4 | 2278.9 |
| 32.5° | 2081.9 | 2081.9 | 2099.2 | 2120.6 | 2103.5 | 2094.8 | 2107.7 | 2111.9 | 2133.5 | 2133.5 | 2120.6 |
| 35°   | 1910.6 | 1919.3 | 1931.9 | 1944.9 | 1931.9 | 1923.5 | 1936.4 | 1931.9 | 1957.8 | 1949.1 | 1936.4 |
| 37.5° | 1739.4 | 1743.6 | 1756.5 | 1773.6 | 1756.5 | 1743.6 | 1747.8 | 1743.6 | 1764.9 | 1764.9 | 1743.6 |
| 40°   | 1580.8 | 1589.4 | 1597.9 | 1615.0 | 1597.9 | 1589.4 | 1593.7 | 1580.8 | 1606.6 | 1597.9 | 1585.0 |
| 42.5° | 1452.2 | 1456.4 | 1469.3 | 1478.0 | 1460.9 | 1456.4 | 1460.9 | 1452.2 | 1465.1 | 1456.4 | 1430.8 |
| 45°   | 1353.7 | 1353.7 | 1358.1 | 1370.8 | 1353.7 | 1349.4 | 1349.4 | 1340.7 | 1353.7 | 1336.5 | 1311.0 |
| 47.5° | 1268.0 | 1272.2 | 1276.7 | 1285.2 | 1272.2 | 1259.6 | 1263.8 | 1246.7 | 1255.1 | 1242.2 | 1208.0 |
| 50°   | 1182.4 | 1190.8 | 1195.3 | 1203.7 | 1190.8 | 1182.4 | 1186.6 | 1169.5 | 1169.5 | 1148.2 | 1118.1 |
| 52.5° | 1096.8 | 1101.0 | 1096.8 | 1105.2 | 1096.8 | 1083.9 | 1088.1 | 1071.0 | 1071.0 | 1045.4 | 1015.4 |
| 55°   | 955.3  | 959.5  | 964.0  | 972.4  | 964.0  | 951.1  | 959.5  | 946.9  | 946.9  | 929.5  | 895.2  |
| 57.5° | 813.8  | 818.3  | 822.5  | 826.7  | 826.7  | 818.3  | 822.5  | 813.8  | 809.6  | 796.7  | 771.1  |
| 60°   | 724.0  | 724.0  | 724.0  | 728.2  | 724.0  | 719.8  | 719.8  | 711.1  | 711.1  | 694.0  | 668.4  |
| 62.5° | 655.5  | 659.7  | 659.7  | 663.9  | 659.7  | 655.5  | 651.3  | 642.6  | 638.4  | 621.2  | 599.6  |
| 65°   | 591.2  | 591.2  | 587.0  | 595.4  | 591.2  | 587.0  | 587.0  | 578.3  | 569.9  | 552.7  | 531.1  |
| 67.5° | 514.0  | 518.2  | 514.0  | 518.2  | 518.2  | 514.0  | 509.8  | 501.1  | 496.9  | 484.0  | 458.4  |
| 70°   | 432.6  | 432.6  | 432.6  | 437.1  | 432.6  | 432.6  | 437.1  | 424.2  | 420.0  | 402.6  | 381.2  |
| 72.5° | 351.2  | 355.7  | 355.7  | 351.2  | 355.7  | 347.0  | 347.0  | 347.0  | 342.8  | 325.6  | 304.0  |
| 75°   | 269.8  | 274.3  | 274.3  | 278.5  | 274.3  | 269.8  | 269.8  | 265.6  | 261.4  | 248.4  | 231.3  |
| 77.5° | 201.3  | 201.3  | 205.5  | 205.5  | 205.5  | 201.3  | 201.3  | 192.9  | 192.9  | 184.2  | 167.0  |
| 80°   | 145.7  | 145.7  | 141.5  | 145.7  | 145.7  | 141.5  | 141.5  | 137.0  | 137.0  | 128.6  | 115.7  |
| 82.5° | 94.3   | 98.5   | 98.5   | 98.5   | 98.5   | 94.3   | 94.3   | 94.3   | 89.8   | 85.6   | 77.2   |
| 85°   | 60.1   | 60.1   | 60.1   | 60.1   | 64.3   | 60.1   | 64.3   | 60.1   | 60.1   | 51.4   | 47.2   |
| 87.5° | 25.8   | 25.8   | 25.8   | 30.0   | 30.0   | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   | 21.3   |
| 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°    | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 |
| 2.5°  | 2780.3 | 2784.5 | 2771.6 | 2788.7 | 2776.1 | 2780.3 | 2784.5 | 2780.3 | 2763.2 | 2763.2 | 2810.3 |
| 5°    | 2763.2 | 2771.6 | 2758.9 | 2780.3 | 2771.6 | 2771.6 | 2780.3 | 2776.1 | 2758.9 | 2763.2 | 2805.8 |
| 7.5°  | 2746.0 | 2758.9 | 2750.2 | 2771.6 | 2758.9 | 2758.9 | 2767.4 | 2767.4 | 2750.2 | 2754.5 | 2793.2 |
| 10°   | 2720.2 | 2737.3 | 2733.1 | 2754.5 | 2741.8 | 2741.8 | 2754.5 | 2754.5 | 2737.3 | 2741.8 | 2780.3 |
| 12.5° | 2698.9 | 2716.0 | 2711.8 | 2733.1 | 2724.7 | 2728.9 | 2733.1 | 2741.8 | 2720.2 | 2728.9 | 2763.2 |
| 15°   | 2664.6 | 2681.7 | 2681.7 | 2703.1 | 2694.7 | 2703.1 | 2711.8 | 2724.7 | 2707.3 | 2707.3 | 2741.8 |
| 17.5° | 2626.2 | 2647.5 | 2647.5 | 2664.6 | 2664.6 | 2668.8 | 2686.0 | 2698.9 | 2681.7 | 2686.0 | 2716.0 |
| 20°   | 2583.2 | 2609.0 | 2609.0 | 2630.4 | 2626.2 | 2634.6 | 2647.5 | 2660.4 | 2643.3 | 2643.3 | 2677.5 |
| 22.5° | 2540.3 | 2561.9 | 2566.1 | 2579.0 | 2579.0 | 2583.2 | 2596.1 | 2604.6 | 2583.2 | 2583.2 | 2617.5 |
| 25°   | 2480.5 | 2501.8 | 2506.0 | 2514.7 | 2506.0 | 2506.0 | 2514.7 | 2523.1 | 2501.8 | 2501.8 | 2531.8 |
| 27.5° | 2399.1 | 2420.4 | 2420.4 | 2416.2 | 2407.5 | 2412.0 | 2407.5 | 2412.0 | 2390.4 | 2386.1 | 2416.2 |
| 30°   | 2278.9 | 2291.8 | 2291.8 | 2287.6 | 2274.7 | 2274.7 | 2261.8 | 2266.3 | 2236.2 | 2236.2 | 2261.8 |
| 32.5° | 2116.4 | 2129.0 | 2120.6 | 2111.9 | 2094.8 | 2086.3 | 2077.6 | 2073.4 | 2043.4 | 2043.4 | 2073.4 |
| 35°   | 1923.5 | 1931.9 | 1919.3 | 1902.2 | 1880.6 | 1867.7 | 1855.0 | 1837.9 | 1816.3 | 1820.8 | 1837.9 |
| 37.5° | 1726.4 | 1726.4 | 1709.3 | 1675.1 | 1657.9 | 1636.3 | 1615.0 | 1615.0 | 1580.8 | 1576.5 | 1589.4 |
| 40°   | 1559.4 | 1542.3 | 1512.3 | 1465.1 | 1435.1 | 1413.7 | 1383.7 | 1366.6 | 1340.7 | 1340.7 | 1362.3 |
| 42.5° | 1409.5 | 1375.3 | 1336.5 | 1272.2 | 1242.2 | 1216.7 | 1178.2 | 1161.1 | 1131.0 | 1126.5 | 1139.5 |
| 45°   | 1276.7 | 1242.2 | 1186.6 | 1118.1 | 1079.7 | 1049.6 | 993.8  | 972.4  | 946.9  | 942.4  | 951.1  |
| 47.5° | 1169.5 | 1131.0 | 1062.5 | 972.4  | 934.0  | 895.2  | 839.6  | 809.6  | 788.3  | 775.4  | 788.3  |
| 50°   | 1075.2 | 1023.8 | 951.1  | 856.8  | 805.4  | 771.1  | 702.6  | 672.6  | 642.6  | 634.1  | 638.4  |
| 52.5° | 972.4  | 921.1  | 843.9  | 745.3  | 698.2  | 646.8  | 582.5  | 539.8  | 514.0  | 501.1  | 514.0  |
| 55°   | 861.0  | 809.6  | 732.7  | 634.1  | 582.5  | 535.6  | 466.8  | 432.6  | 402.6  | 389.9  | 402.6  |
| 57.5° | 741.1  | 694.0  | 625.5  | 526.9  | 479.8  | 437.1  | 372.8  | 338.5  | 308.5  | 299.8  | 308.5  |
| 60°   | 638.4  | 599.6  | 531.1  | 437.1  | 398.3  | 351.2  | 295.6  | 261.4  | 235.5  | 231.3  | 235.5  |
| 62.5° | 569.9  | 526.9  | 462.6  | 372.8  | 334.1  | 295.6  | 244.2  | 210.0  | 188.4  | 184.2  | 188.4  |
| 65°   | 501.1  | 454.2  | 394.1  | 316.9  | 278.5  | 248.4  | 197.1  | 167.0  | 145.7  | 141.5  | 145.7  |
| 67.5° | 424.2  | 381.2  | 329.9  | 261.4  | 231.3  | 201.3  | 158.6  | 128.6  | 111.4  | 107.2  | 111.4  |
| 70°   | 351.2  | 312.7  | 261.4  | 210.0  | 179.9  | 158.6  | 119.9  | 98.5   | 81.4   | 77.2   | 81.4   |
| 72.5° | 278.5  | 244.2  | 201.3  | 158.6  | 141.5  | 119.9  | 94.3   | 72.7   | 60.1   | 55.6   | 60.1   |
| 75°   | 214.2  | 188.4  | 154.1  | 115.7  | 102.7  | 89.8   | 64.3   | 51.4   | 42.9   | 38.5   | 42.9   |
| 77.5° | 149.9  | 132.8  | 107.2  | 85.6   | 72.7   | 64.3   | 47.2   | 34.2   | 30.0   | 25.8   | 30.0   |
| 80°   | 102.7  | 89.8   | 72.7   | 55.6   | 47.2   | 38.5   | 30.0   | 21.3   | 17.1   | 17.1   | 17.1   |
| 82.5° | 68.5   | 55.6   | 42.9   | 34.2   | 30.0   | 25.8   | 17.1   | 12.9   | 12.9   | 8.7    | 8.7    |
| 85°   | 38.5   | 34.2   | 25.8   | 21.3   | 17.1   | 12.9   | 8.7    | 8.7    | 4.2    | 4.2    | 4.2    |
| 87.5° | 17.1   | 12.9   | 8.7    | 8.7    | 4.2    | 4.2    | 4.2    | 4.2    | 0.0    | 0.0    | 0.0    |
| 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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CATALOG NUMBER: LD4C60D010 EU4609050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 |
| 2.5°  | 2797.4 | 2784.5 | 2801.6 | 2784.5 | 2776.1 | 2784.5 | 2776.1 | 2801.6 | 2780.3 | 2763.2 | 2780.3 |
| 5°    | 2793.2 | 2776.1 | 2793.2 | 2780.3 | 2767.4 | 2771.6 | 2763.2 | 2788.7 | 2763.2 | 2750.2 | 2758.9 |
| 7.5°  | 2784.5 | 2771.6 | 2780.3 | 2767.4 | 2754.5 | 2758.9 | 2750.2 | 2771.6 | 2746.0 | 2733.1 | 2741.8 |
| 10°   | 2771.6 | 2758.9 | 2763.2 | 2754.5 | 2741.8 | 2741.8 | 2733.1 | 2750.2 | 2720.2 | 2703.1 | 2711.8 |
| 12.5° | 2754.5 | 2737.3 | 2746.0 | 2733.1 | 2716.0 | 2716.0 | 2707.3 | 2720.2 | 2690.2 | 2673.1 | 2677.5 |
| 15°   | 2733.1 | 2716.0 | 2716.0 | 2703.1 | 2686.0 | 2686.0 | 2668.8 | 2681.7 | 2647.5 | 2630.4 | 2630.4 |
| 17.5° | 2707.3 | 2686.0 | 2686.0 | 2673.1 | 2651.7 | 2647.5 | 2634.6 | 2647.5 | 2609.0 | 2591.6 | 2591.6 |
| 20°   | 2668.8 | 2651.7 | 2647.5 | 2638.8 | 2617.5 | 2613.2 | 2596.1 | 2600.3 | 2570.3 | 2557.4 | 2553.2 |
| 22.5° | 2617.5 | 2600.3 | 2604.6 | 2591.6 | 2574.5 | 2570.3 | 2553.2 | 2566.1 | 2536.1 | 2523.1 | 2527.6 |
| 25°   | 2527.6 | 2518.9 | 2527.6 | 2523.1 | 2510.5 | 2510.5 | 2501.8 | 2510.5 | 2484.7 | 2476.0 | 2480.5 |
| 27.5° | 2424.6 | 2420.4 | 2424.6 | 2424.6 | 2416.2 | 2416.2 | 2416.2 | 2429.1 | 2403.3 | 2399.1 | 2399.1 |
| 30°   | 2274.7 | 2274.7 | 2278.9 | 2283.4 | 2283.4 | 2291.8 | 2287.6 | 2304.7 | 2287.6 | 2278.9 | 2287.6 |
| 32.5° | 2077.6 | 2094.8 | 2107.7 | 2107.7 | 2107.7 | 2116.4 | 2124.8 | 2137.7 | 2120.6 | 2124.8 | 2124.8 |
| 35°   | 1855.0 | 1867.7 | 1876.4 | 1897.7 | 1885.0 | 1914.8 | 1923.5 | 1940.6 | 1936.4 | 1944.9 | 1940.6 |
| 37.5° | 1606.6 | 1623.7 | 1640.8 | 1670.9 | 1666.4 | 1700.6 | 1717.8 | 1752.0 | 1743.6 | 1760.7 | 1769.1 |
| 40°   | 1375.3 | 1400.8 | 1426.6 | 1448.0 | 1465.1 | 1499.3 | 1533.6 | 1576.5 | 1589.4 | 1602.1 | 1606.6 |
| 42.5° | 1152.4 | 1178.2 | 1220.9 | 1250.9 | 1276.7 | 1332.3 | 1379.5 | 1430.8 | 1443.8 | 1469.3 | 1478.0 |
| 45°   | 972.4  | 993.8  | 1045.4 | 1083.9 | 1105.2 | 1186.6 | 1242.2 | 1306.5 | 1328.1 | 1358.1 | 1370.8 |
| 47.5° | 805.4  | 843.9  | 895.2  | 942.4  | 972.4  | 1058.1 | 1131.0 | 1199.5 | 1229.6 | 1263.8 | 1280.9 |
| 50°   | 659.7  | 702.6  | 771.1  | 813.8  | 856.8  | 951.1  | 1032.5 | 1105.2 | 1135.2 | 1173.7 | 1190.8 |
| 52.5° | 539.8  | 587.0  | 651.3  | 698.2  | 745.3  | 843.9  | 929.5  | 998.2  | 1036.7 | 1062.5 | 1088.1 |
| 55°   | 424.2  | 475.5  | 539.8  | 591.2  | 629.7  | 736.9  | 809.6  | 878.1  | 903.9  | 925.3  | 938.2  |
| 57.5° | 329.9  | 368.3  | 432.6  | 475.5  | 522.7  | 616.8  | 689.7  | 741.1  | 762.4  | 788.3  | 796.7  |
| 60°   | 257.1  | 295.6  | 355.7  | 398.3  | 441.3  | 531.1  | 604.1  | 655.5  | 676.8  | 698.2  | 711.1  |
| 62.5° | 205.5  | 244.2  | 299.8  | 338.5  | 377.0  | 458.4  | 522.7  | 574.1  | 599.6  | 621.2  | 634.1  |
| 65°   | 162.8  | 197.1  | 244.2  | 282.7  | 312.7  | 385.4  | 449.7  | 496.9  | 522.7  | 544.0  | 557.0  |
| 67.5° | 128.6  | 158.6  | 201.3  | 227.1  | 257.1  | 316.9  | 372.8  | 415.5  | 437.1  | 462.6  | 475.5  |
| 70°   | 98.5   | 119.9  | 158.6  | 179.9  | 201.3  | 252.7  | 295.6  | 338.5  | 359.9  | 377.0  | 385.4  |
| 72.5° | 72.7   | 89.8   | 119.9  | 137.0  | 149.9  | 192.9  | 227.1  | 257.1  | 274.3  | 291.4  | 299.8  |
| 75°   | 51.4   | 64.3   | 85.6   | 98.5   | 107.2  | 137.0  | 167.0  | 188.4  | 201.3  | 214.2  | 227.1  |
| 77.5° | 34.2   | 42.9   | 55.6   | 64.3   | 72.7   | 94.3   | 111.4  | 128.6  | 141.5  | 154.1  | 158.6  |
| 80°   | 21.3   | 30.0   | 38.5   | 42.9   | 47.2   | 60.1   | 77.2   | 85.6   | 94.3   | 102.7  | 107.2  |
| 82.5° | 12.9   | 17.1   | 21.3   | 25.8   | 30.0   | 38.5   | 47.2   | 55.6   | 60.1   | 68.5   | 72.7   |
| 85°   | 4.2    | 8.7    | 8.7    | 12.9   | 12.9   | 21.3   | 25.8   | 30.0   | 34.2   | 38.5   | 42.9   |
| 87.5° | 0.0    | 0.0    | 4.2    | 4.2    | 4.2    | 4.2    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    |
| 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: P880596

CATALOG NUMBER: LD4C60D010 EU4609050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 | 2784.5 |
| 2.5°  | 2797.4 | 2784.5 | 2776.1 | 2771.6 | 2801.6 | 2763.2 | 2780.3 | 2784.5 |
| 5°    | 2780.3 | 2767.4 | 2758.9 | 2754.5 | 2780.3 | 2746.0 | 2758.9 | 2767.4 |
| 7.5°  | 2754.5 | 2746.0 | 2733.1 | 2728.9 | 2754.5 | 2716.0 | 2733.1 | 2737.3 |
| 10°   | 2724.7 | 2711.8 | 2703.1 | 2698.9 | 2720.2 | 2681.7 | 2698.9 | 2698.9 |
| 12.5° | 2686.0 | 2677.5 | 2660.4 | 2660.4 | 2677.5 | 2643.3 | 2655.9 | 2655.9 |
| 15°   | 2634.6 | 2626.2 | 2609.0 | 2609.0 | 2626.2 | 2591.6 | 2604.6 | 2604.6 |
| 17.5° | 2591.6 | 2583.2 | 2570.3 | 2566.1 | 2583.2 | 2549.0 | 2561.9 | 2557.4 |
| 20°   | 2557.4 | 2549.0 | 2531.8 | 2531.8 | 2544.7 | 2510.5 | 2523.1 | 2523.1 |
| 22.5° | 2527.6 | 2523.1 | 2506.0 | 2506.0 | 2523.1 | 2488.9 | 2497.6 | 2488.9 |
| 25°   | 2480.5 | 2476.0 | 2458.9 | 2463.3 | 2471.8 | 2437.5 | 2450.4 | 2441.7 |
| 27.5° | 2403.3 | 2403.3 | 2386.1 | 2381.9 | 2394.6 | 2364.8 | 2373.2 | 2369.0 |
| 30°   | 2283.4 | 2287.6 | 2266.3 | 2266.3 | 2270.5 | 2244.7 | 2257.6 | 2253.4 |
| 32.5° | 2120.6 | 2124.8 | 2107.7 | 2103.5 | 2116.4 | 2094.8 | 2103.5 | 2103.5 |
| 35°   | 1940.6 | 1944.9 | 1931.9 | 1931.9 | 1944.9 | 1931.9 | 1931.9 | 1927.7 |
| 37.5° | 1760.7 | 1769.1 | 1760.7 | 1764.9 | 1773.6 | 1760.7 | 1769.1 | 1764.9 |
| 40°   | 1615.0 | 1623.7 | 1610.8 | 1619.2 | 1627.9 | 1615.0 | 1627.9 | 1619.2 |
| 42.5° | 1482.2 | 1495.1 | 1486.4 | 1495.1 | 1503.6 | 1495.1 | 1503.6 | 1490.9 |
| 45°   | 1383.7 | 1392.4 | 1387.9 | 1392.4 | 1400.8 | 1396.6 | 1400.8 | 1396.6 |
| 47.5° | 1289.4 | 1306.5 | 1298.1 | 1306.5 | 1319.4 | 1311.0 | 1319.4 | 1306.5 |
| 50°   | 1203.7 | 1216.7 | 1212.4 | 1220.9 | 1225.1 | 1220.9 | 1229.6 | 1216.7 |
| 52.5° | 1092.3 | 1105.2 | 1101.0 | 1101.0 | 1109.4 | 1101.0 | 1109.4 | 1101.0 |
| 55°   | 946.9  | 951.1  | 951.1  | 955.3  | 951.1  | 946.9  | 951.1  | 942.4  |
| 57.5° | 805.4  | 813.8  | 801.2  | 813.8  | 809.6  | 805.4  | 805.4  | 796.7  |
| 60°   | 715.3  | 728.2  | 719.8  | 728.2  | 724.0  | 724.0  | 724.0  | 719.8  |
| 62.5° | 642.6  | 651.3  | 642.6  | 646.8  | 646.8  | 646.8  | 642.6  | 638.4  |
| 65°   | 561.2  | 574.1  | 565.4  | 569.9  | 565.4  | 561.2  | 565.4  | 561.2  |
| 67.5° | 479.8  | 484.0  | 484.0  | 479.8  | 479.8  | 479.8  | 479.8  | 471.3  |
| 70°   | 389.9  | 394.1  | 389.9  | 398.3  | 394.1  | 389.9  | 394.1  | 385.4  |
| 72.5° | 304.0  | 308.5  | 304.0  | 308.5  | 304.0  | 304.0  | 304.0  | 304.0  |
| 75°   | 227.1  | 231.3  | 231.3  | 231.3  | 231.3  | 231.3  | 222.9  | 231.3  |
| 77.5° | 162.8  | 162.8  | 162.8  | 167.0  | 162.8  | 162.8  | 162.8  | 162.8  |
| 80°   | 111.4  | 111.4  | 111.4  | 115.7  | 111.4  | 115.7  | 111.4  | 115.7  |
| 82.5° | 72.7   | 72.7   | 72.7   | 72.7   | 72.7   | 72.7   | 72.7   | 72.7   |
| 85°   | 38.5   | 42.9   | 42.9   | 38.5   | 38.5   | 38.5   | 38.5   | 38.5   |
| 87.5° | 8.7    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 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)