

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: P880574

Luminaire Tested: **LD4C40D010 EU4409035 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: P880574  
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: LD4C40D010 EU4409035 4LBDWNH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

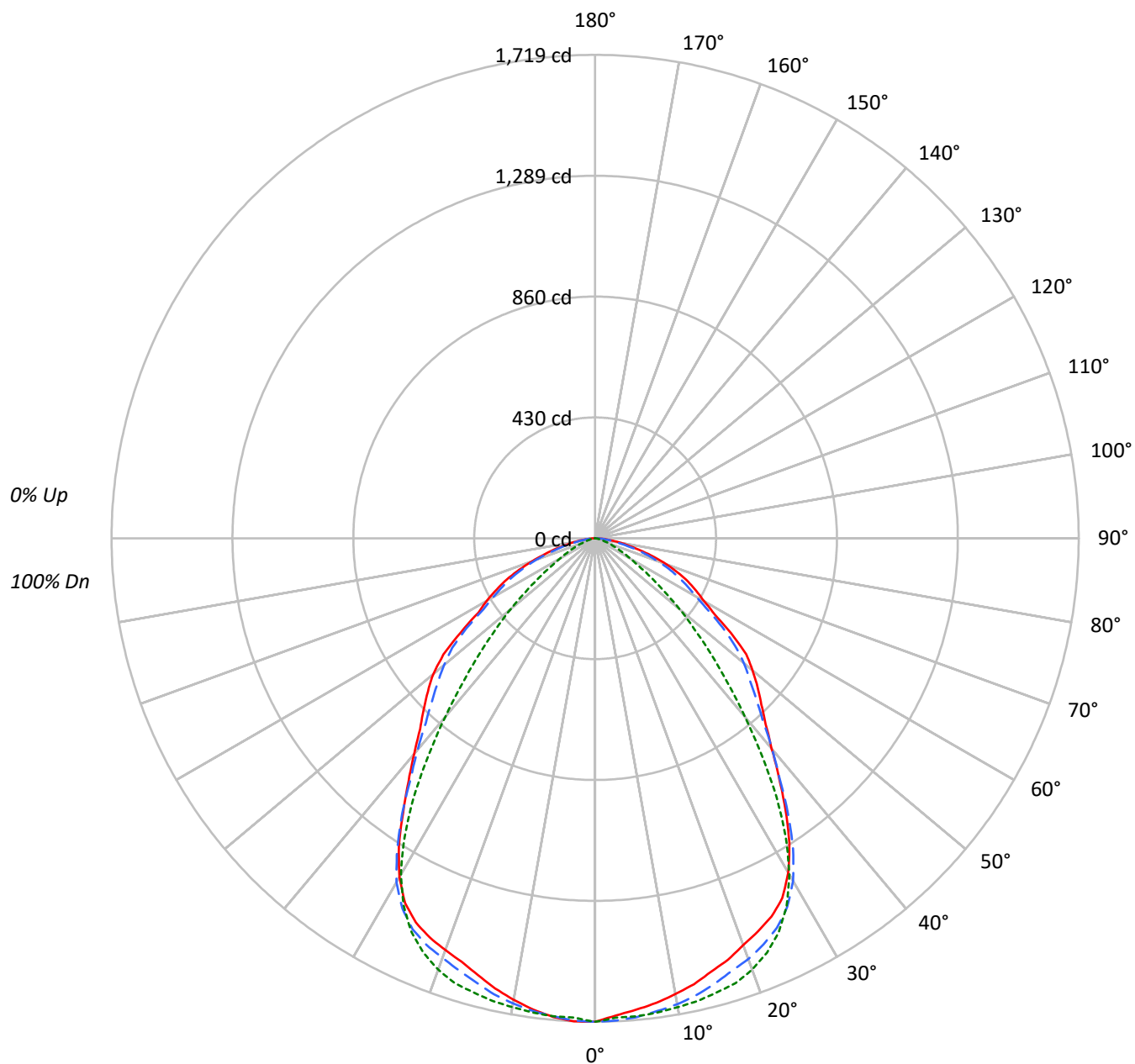
Lumens per Lamp: N/A  
Luminaire Lumens: 3499.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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





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

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 211210 | 211210 | 211210 |
| 5°  | 207466 | 210401 | 210722 |
| 10° | 205237 | 211187 | 207881 |
| 15° | 202864 | 212606 | 204530 |
| 20° | 201245 | 213377 | 203677 |
| 25° | 201148 | 209390 | 204361 |
| 30° | 194744 | 195865 | 197368 |
| 35° | 176927 | 168603 | 178502 |
| 40° | 156525 | 132757 | 160342 |
| 45° | 145213 | 101100 | 149817 |
| 50° | 139541 | 74826  | 143574 |
| 55° | 126328 | 51555  | 124636 |
| 60° | 109831 | 35087  | 109192 |
| 65° | 106104 | 25407  | 100726 |
| 70° | 95942  | 17134  | 85489  |
| 75° | 79080  | 11250  | 67783  |
| 80° | 63674  | 7499   | 50514  |
| 85° | 52296  | 3665   | 33407  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.3  | 4.6       |
| 10°-20°   | 464.0  | 13.3      |
| 20°-30°   | 701.1  | 20.0      |
| 30°-40°   | 733.7  | 21.0      |
| 40°-50°   | 594.2  | 17.0      |
| 50°-60°   | 432.2  | 12.4      |
| 60°-70°   | 266.6  | 7.6       |
| 70°-80°   | 120.4  | 3.4       |
| 80°-90°   | 24.5   | 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°    | 1327.4 | 37.9      |
| 0°-40°    | 2061.1 | 58.9      |
| 0°-60°    | 3087.5 | 88.2      |
| 0°-90°    | 3499.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3499.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1719 | 1719 | 1719 | 1719 | 1719 |      |
| 5°  | 1682 | 1709 | 1706 | 1706 | 1709 | 160  |
| 15° | 1595 | 1640 | 1672 | 1635 | 1608 | 451  |
| 25° | 1484 | 1529 | 1545 | 1534 | 1508 | 680  |
| 35° | 1180 | 1196 | 1124 | 1196 | 1190 | 735  |
| 45° | 836  | 809  | 582  | 820  | 862  | 650  |
| 55° | 590  | 553  | 241  | 558  | 582  | 526  |
| 65° | 365  | 328  | 87   | 323  | 346  | 357  |
| 75° | 167  | 143  | 24   | 124  | 143  | 181  |
| 85° | 37   | 29   | 3    | 21   | 24   | 42   |
| 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°    | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 |
| 2.5°  | 1698.1 | 1698.1 | 1714.0 | 1732.4 | 1716.6 | 1700.7 | 1711.3 | 1706.1 | 1724.6 | 1724.6 | 1716.6 |
| 5°    | 1682.3 | 1687.5 | 1700.7 | 1716.6 | 1703.5 | 1687.5 | 1700.7 | 1695.5 | 1714.0 | 1714.0 | 1708.7 |
| 7.5°  | 1666.4 | 1669.0 | 1684.9 | 1703.5 | 1690.1 | 1674.3 | 1684.9 | 1682.3 | 1698.1 | 1700.7 | 1695.5 |
| 10°   | 1645.2 | 1647.8 | 1663.8 | 1682.3 | 1669.0 | 1655.8 | 1666.4 | 1663.8 | 1684.9 | 1684.9 | 1682.3 |
| 12.5° | 1624.1 | 1626.7 | 1642.6 | 1658.4 | 1645.2 | 1632.1 | 1642.6 | 1642.6 | 1663.8 | 1666.4 | 1663.8 |
| 15°   | 1595.0 | 1600.2 | 1613.5 | 1629.3 | 1621.5 | 1605.5 | 1616.1 | 1616.1 | 1634.7 | 1639.9 | 1639.9 |
| 17.5° | 1571.2 | 1573.8 | 1587.0 | 1602.9 | 1592.4 | 1579.0 | 1589.6 | 1589.6 | 1608.1 | 1613.5 | 1613.5 |
| 20°   | 1539.3 | 1544.7 | 1557.9 | 1573.8 | 1565.8 | 1555.3 | 1563.2 | 1563.2 | 1584.4 | 1589.6 | 1592.4 |
| 22.5° | 1513.0 | 1518.2 | 1528.8 | 1550.1 | 1536.7 | 1528.8 | 1539.3 | 1536.7 | 1560.6 | 1563.2 | 1563.2 |
| 25°   | 1483.9 | 1489.2 | 1502.4 | 1515.6 | 1507.6 | 1499.8 | 1507.6 | 1507.6 | 1526.2 | 1528.8 | 1528.8 |
| 27.5° | 1441.6 | 1444.2 | 1457.3 | 1470.7 | 1462.7 | 1452.1 | 1462.7 | 1460.1 | 1478.5 | 1481.3 | 1478.5 |
| 30°   | 1372.8 | 1378.1 | 1383.3 | 1401.9 | 1393.9 | 1385.9 | 1396.5 | 1391.3 | 1409.8 | 1409.8 | 1407.1 |
| 32.5° | 1285.4 | 1285.4 | 1296.1 | 1309.3 | 1298.7 | 1293.4 | 1301.3 | 1304.0 | 1317.3 | 1317.3 | 1309.3 |
| 35°   | 1179.7 | 1185.0 | 1192.8 | 1200.8 | 1192.8 | 1187.6 | 1195.6 | 1192.8 | 1208.8 | 1203.4 | 1195.6 |
| 37.5° | 1073.9 | 1076.5 | 1084.5 | 1095.1 | 1084.5 | 1076.5 | 1079.1 | 1076.5 | 1089.7 | 1089.7 | 1076.5 |
| 40°   | 976.0  | 981.4  | 986.6  | 997.2  | 986.6  | 981.4  | 984.0  | 976.0  | 992.0  | 986.6  | 978.6  |
| 42.5° | 896.6  | 899.2  | 907.2  | 912.6  | 902.0  | 899.2  | 902.0  | 896.6  | 904.6  | 899.2  | 883.5  |
| 45°   | 835.8  | 835.8  | 838.6  | 846.4  | 835.8  | 833.2  | 833.2  | 827.8  | 835.8  | 825.2  | 809.4  |
| 47.5° | 782.9  | 785.5  | 788.3  | 793.5  | 785.5  | 777.7  | 780.3  | 769.7  | 775.0  | 767.0  | 745.8  |
| 50°   | 730.1  | 735.3  | 738.0  | 743.2  | 735.3  | 730.1  | 732.7  | 722.1  | 722.1  | 708.9  | 690.4  |
| 52.5° | 677.2  | 679.8  | 677.2  | 682.4  | 677.2  | 669.2  | 671.8  | 661.2  | 661.2  | 645.5  | 626.9  |
| 55°   | 589.8  | 592.4  | 595.2  | 600.4  | 595.2  | 587.2  | 592.4  | 584.6  | 584.6  | 573.9  | 552.7  |
| 57.5° | 502.5  | 505.2  | 507.9  | 510.5  | 510.5  | 505.2  | 507.9  | 502.5  | 499.9  | 491.9  | 476.1  |
| 60°   | 447.0  | 447.0  | 447.0  | 449.6  | 447.0  | 444.4  | 444.4  | 439.0  | 439.0  | 428.5  | 412.7  |
| 62.5° | 404.7  | 407.3  | 407.3  | 409.9  | 407.3  | 404.7  | 402.1  | 396.7  | 394.1  | 383.6  | 370.2  |
| 65°   | 365.0  | 365.0  | 362.4  | 367.6  | 365.0  | 362.4  | 362.4  | 357.1  | 351.9  | 341.3  | 327.9  |
| 67.5° | 317.4  | 320.0  | 317.4  | 320.0  | 320.0  | 317.4  | 314.8  | 309.4  | 306.8  | 298.8  | 283.0  |
| 70°   | 267.1  | 267.1  | 267.1  | 269.9  | 267.1  | 267.1  | 269.9  | 261.9  | 259.3  | 248.6  | 235.4  |
| 72.5° | 216.8  | 219.6  | 219.6  | 216.8  | 219.6  | 214.2  | 214.2  | 214.2  | 211.6  | 201.1  | 187.7  |
| 75°   | 166.6  | 169.3  | 169.3  | 171.9  | 169.3  | 166.6  | 166.6  | 164.0  | 161.4  | 153.4  | 142.8  |
| 77.5° | 124.3  | 124.3  | 126.9  | 126.9  | 126.9  | 124.3  | 124.3  | 119.1  | 119.1  | 113.7  | 103.1  |
| 80°   | 90.0   | 90.0   | 87.4   | 90.0   | 90.0   | 87.4   | 87.4   | 84.6   | 84.6   | 79.4   | 71.4   |
| 82.5° | 58.2   | 60.8   | 60.8   | 60.8   | 60.8   | 58.2   | 58.2   | 58.2   | 55.5   | 52.9   | 47.7   |
| 85°   | 37.1   | 37.1   | 37.1   | 37.1   | 39.7   | 37.1   | 39.7   | 37.1   | 37.1   | 31.7   | 29.1   |
| 87.5° | 15.9   | 15.9   | 15.9   | 18.5   | 18.5   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 13.2   |
| 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°    | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 |
| 2.5°  | 1716.6 | 1719.2 | 1711.3 | 1721.8 | 1714.0 | 1716.6 | 1719.2 | 1716.6 | 1706.1 | 1706.1 | 1735.2 |
| 5°    | 1706.1 | 1711.3 | 1703.5 | 1716.6 | 1711.3 | 1711.3 | 1716.6 | 1714.0 | 1703.5 | 1706.1 | 1732.4 |
| 7.5°  | 1695.5 | 1703.5 | 1698.1 | 1711.3 | 1703.5 | 1703.5 | 1708.7 | 1708.7 | 1698.1 | 1700.7 | 1724.6 |
| 10°   | 1679.6 | 1690.1 | 1687.5 | 1700.7 | 1692.9 | 1692.9 | 1700.7 | 1700.7 | 1690.1 | 1692.9 | 1716.6 |
| 12.5° | 1666.4 | 1676.9 | 1674.3 | 1687.5 | 1682.3 | 1684.9 | 1687.5 | 1692.9 | 1679.6 | 1684.9 | 1706.1 |
| 15°   | 1645.2 | 1655.8 | 1655.8 | 1669.0 | 1663.8 | 1669.0 | 1674.3 | 1682.3 | 1671.6 | 1671.6 | 1692.9 |
| 17.5° | 1621.5 | 1634.7 | 1634.7 | 1645.2 | 1645.2 | 1647.8 | 1658.4 | 1666.4 | 1655.8 | 1658.4 | 1676.9 |
| 20°   | 1595.0 | 1610.9 | 1610.9 | 1624.1 | 1621.5 | 1626.7 | 1634.7 | 1642.6 | 1632.1 | 1632.1 | 1653.2 |
| 22.5° | 1568.4 | 1581.8 | 1584.4 | 1592.4 | 1592.4 | 1595.0 | 1602.9 | 1608.1 | 1595.0 | 1595.0 | 1616.1 |
| 25°   | 1531.5 | 1544.7 | 1547.3 | 1552.7 | 1547.3 | 1547.3 | 1552.7 | 1557.9 | 1544.7 | 1544.7 | 1563.2 |
| 27.5° | 1481.3 | 1494.4 | 1494.4 | 1491.8 | 1486.5 | 1489.2 | 1486.5 | 1489.2 | 1475.9 | 1473.3 | 1491.8 |
| 30°   | 1407.1 | 1415.1 | 1415.1 | 1412.5 | 1404.5 | 1404.5 | 1396.5 | 1399.3 | 1380.7 | 1380.7 | 1396.5 |
| 32.5° | 1306.7 | 1314.5 | 1309.3 | 1304.0 | 1293.4 | 1288.2 | 1282.8 | 1280.2 | 1261.7 | 1261.7 | 1280.2 |
| 35°   | 1187.6 | 1192.8 | 1185.0 | 1174.5 | 1161.1 | 1153.2 | 1145.3 | 1134.8 | 1121.4 | 1124.2 | 1134.8 |
| 37.5° | 1066.0 | 1066.0 | 1055.4 | 1034.2 | 1023.7 | 1010.3 | 997.2  | 997.2  | 976.0  | 973.4  | 981.4  |
| 40°   | 962.8  | 952.3  | 933.7  | 904.6  | 886.1  | 872.9  | 854.3  | 843.8  | 827.8  | 827.8  | 841.2  |
| 42.5° | 870.3  | 849.1  | 825.2  | 785.5  | 767.0  | 751.2  | 727.5  | 716.9  | 698.3  | 695.6  | 703.5  |
| 45°   | 788.3  | 767.0  | 732.7  | 690.4  | 666.6  | 648.1  | 613.6  | 600.4  | 584.6  | 581.9  | 587.2  |
| 47.5° | 722.1  | 698.3  | 656.0  | 600.4  | 576.7  | 552.7  | 518.4  | 499.9  | 486.7  | 478.7  | 486.7  |
| 50°   | 663.9  | 632.1  | 587.2  | 529.0  | 497.3  | 476.1  | 433.8  | 415.3  | 396.7  | 391.5  | 394.1  |
| 52.5° | 600.4  | 568.7  | 521.0  | 460.2  | 431.1  | 399.4  | 359.7  | 333.3  | 317.4  | 309.4  | 317.4  |
| 55°   | 531.6  | 499.9  | 452.4  | 391.5  | 359.7  | 330.7  | 288.2  | 267.1  | 248.6  | 240.7  | 248.6  |
| 57.5° | 457.6  | 428.5  | 386.2  | 325.3  | 296.2  | 269.9  | 230.2  | 209.0  | 190.5  | 185.1  | 190.5  |
| 60°   | 394.1  | 370.2  | 327.9  | 269.9  | 246.0  | 216.8  | 182.5  | 161.4  | 145.4  | 142.8  | 145.4  |
| 62.5° | 351.9  | 325.3  | 285.6  | 230.2  | 206.3  | 182.5  | 150.8  | 129.6  | 116.3  | 113.7  | 116.3  |
| 65°   | 309.4  | 280.4  | 243.4  | 195.7  | 171.9  | 153.4  | 121.7  | 103.1  | 90.0   | 87.4   | 90.0   |
| 67.5° | 261.9  | 235.4  | 203.7  | 161.4  | 142.8  | 124.3  | 97.9   | 79.4   | 68.8   | 66.2   | 68.8   |
| 70°   | 216.8  | 193.1  | 161.4  | 129.6  | 111.1  | 97.9   | 74.0   | 60.8   | 50.3   | 47.7   | 50.3   |
| 72.5° | 171.9  | 150.8  | 124.3  | 97.9   | 87.4   | 74.0   | 58.2   | 44.9   | 37.1   | 34.3   | 37.1   |
| 75°   | 132.2  | 116.3  | 95.2   | 71.4   | 63.4   | 55.5   | 39.7   | 31.7   | 26.5   | 23.7   | 26.5   |
| 77.5° | 92.6   | 82.0   | 66.2   | 52.9   | 44.9   | 39.7   | 29.1   | 21.1   | 18.5   | 15.9   | 18.5   |
| 80°   | 63.4   | 55.5   | 44.9   | 34.3   | 29.1   | 23.7   | 18.5   | 13.2   | 10.6   | 10.6   | 10.6   |
| 82.5° | 42.3   | 34.3   | 26.5   | 21.1   | 18.5   | 15.9   | 10.6   | 8.0    | 8.0    | 5.4    | 5.4    |
| 85°   | 23.7   | 21.1   | 15.9   | 13.2   | 10.6   | 8.0    | 5.4    | 5.4    | 2.6    | 2.6    | 2.6    |
| 87.5° | 10.6   | 8.0    | 5.4    | 5.4    | 2.6    | 2.6    | 2.6    | 2.6    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 |
| 2.5°  | 1727.2 | 1719.2 | 1729.8 | 1719.2 | 1714.0 | 1719.2 | 1714.0 | 1729.8 | 1716.6 | 1706.1 | 1716.6 |
| 5°    | 1724.6 | 1714.0 | 1724.6 | 1716.6 | 1708.7 | 1711.3 | 1706.1 | 1721.8 | 1706.1 | 1698.1 | 1703.5 |
| 7.5°  | 1719.2 | 1711.3 | 1716.6 | 1708.7 | 1700.7 | 1703.5 | 1698.1 | 1711.3 | 1695.5 | 1687.5 | 1692.9 |
| 10°   | 1711.3 | 1703.5 | 1706.1 | 1700.7 | 1692.9 | 1692.9 | 1687.5 | 1698.1 | 1679.6 | 1669.0 | 1674.3 |
| 12.5° | 1700.7 | 1690.1 | 1695.5 | 1687.5 | 1676.9 | 1676.9 | 1671.6 | 1679.6 | 1661.0 | 1650.4 | 1653.2 |
| 15°   | 1687.5 | 1676.9 | 1676.9 | 1669.0 | 1658.4 | 1658.4 | 1647.8 | 1655.8 | 1634.7 | 1624.1 | 1624.1 |
| 17.5° | 1671.6 | 1658.4 | 1658.4 | 1650.4 | 1637.3 | 1634.7 | 1626.7 | 1634.7 | 1610.9 | 1600.2 | 1600.2 |
| 20°   | 1647.8 | 1637.3 | 1634.7 | 1629.3 | 1616.1 | 1613.5 | 1602.9 | 1605.5 | 1587.0 | 1579.0 | 1576.4 |
| 22.5° | 1616.1 | 1605.5 | 1608.1 | 1600.2 | 1589.6 | 1587.0 | 1576.4 | 1584.4 | 1565.8 | 1557.9 | 1560.6 |
| 25°   | 1560.6 | 1555.3 | 1560.6 | 1557.9 | 1550.1 | 1550.1 | 1544.7 | 1550.1 | 1534.1 | 1528.8 | 1531.5 |
| 27.5° | 1497.0 | 1494.4 | 1497.0 | 1497.0 | 1491.8 | 1491.8 | 1491.8 | 1499.8 | 1483.9 | 1481.3 | 1481.3 |
| 30°   | 1404.5 | 1404.5 | 1407.1 | 1409.8 | 1409.8 | 1415.1 | 1412.5 | 1423.0 | 1412.5 | 1407.1 | 1412.5 |
| 32.5° | 1282.8 | 1293.4 | 1301.3 | 1301.3 | 1301.3 | 1306.7 | 1311.9 | 1319.9 | 1309.3 | 1311.9 | 1311.9 |
| 35°   | 1145.3 | 1153.2 | 1158.5 | 1171.7 | 1163.9 | 1182.3 | 1187.6 | 1198.2 | 1195.6 | 1200.8 | 1198.2 |
| 37.5° | 992.0  | 1002.5 | 1013.1 | 1031.6 | 1028.9 | 1050.0 | 1060.6 | 1081.7 | 1076.5 | 1087.1 | 1092.3 |
| 40°   | 849.1  | 864.9  | 880.8  | 894.0  | 904.6  | 925.7  | 946.9  | 973.4  | 981.4  | 989.2  | 992.0  |
| 42.5° | 711.5  | 727.5  | 753.8  | 772.3  | 788.3  | 822.6  | 851.7  | 883.5  | 891.4  | 907.2  | 912.6  |
| 45°   | 600.4  | 613.6  | 645.5  | 669.2  | 682.4  | 732.7  | 767.0  | 806.7  | 820.0  | 838.6  | 846.4  |
| 47.5° | 497.3  | 521.0  | 552.7  | 581.9  | 600.4  | 653.3  | 698.3  | 740.6  | 759.2  | 780.3  | 790.9  |
| 50°   | 407.3  | 433.8  | 476.1  | 502.5  | 529.0  | 587.2  | 637.5  | 682.4  | 700.9  | 724.7  | 735.3  |
| 52.5° | 333.3  | 362.4  | 402.1  | 431.1  | 460.2  | 521.0  | 573.9  | 616.4  | 640.1  | 656.0  | 671.8  |
| 55°   | 261.9  | 293.6  | 333.3  | 365.0  | 388.8  | 455.0  | 499.9  | 542.2  | 558.1  | 571.3  | 579.3  |
| 57.5° | 203.7  | 227.4  | 267.1  | 293.6  | 322.7  | 380.8  | 425.9  | 457.6  | 470.8  | 486.7  | 491.9  |
| 60°   | 158.8  | 182.5  | 219.6  | 246.0  | 272.5  | 327.9  | 373.0  | 404.7  | 417.9  | 431.1  | 439.0  |
| 62.5° | 126.9  | 150.8  | 185.1  | 209.0  | 232.8  | 283.0  | 322.7  | 354.5  | 370.2  | 383.6  | 391.5  |
| 65°   | 100.5  | 121.7  | 150.8  | 174.5  | 193.1  | 238.0  | 277.7  | 306.8  | 322.7  | 335.9  | 343.9  |
| 67.5° | 79.4   | 97.9   | 124.3  | 140.2  | 158.8  | 195.7  | 230.2  | 256.5  | 269.9  | 285.6  | 293.6  |
| 70°   | 60.8   | 74.0   | 97.9   | 111.1  | 124.3  | 156.0  | 182.5  | 209.0  | 222.2  | 232.8  | 238.0  |
| 72.5° | 44.9   | 55.5   | 74.0   | 84.6   | 92.6   | 119.1  | 140.2  | 158.8  | 169.3  | 179.9  | 185.1  |
| 75°   | 31.7   | 39.7   | 52.9   | 60.8   | 66.2   | 84.6   | 103.1  | 116.3  | 124.3  | 132.2  | 140.2  |
| 77.5° | 21.1   | 26.5   | 34.3   | 39.7   | 44.9   | 58.2   | 68.8   | 79.4   | 87.4   | 95.2   | 97.9   |
| 80°   | 13.2   | 18.5   | 23.7   | 26.5   | 29.1   | 37.1   | 47.7   | 52.9   | 58.2   | 63.4   | 66.2   |
| 82.5° | 8.0    | 10.6   | 13.2   | 15.9   | 18.5   | 23.7   | 29.1   | 34.3   | 37.1   | 42.3   | 44.9   |
| 85°   | 2.6    | 5.4    | 5.4    | 8.0    | 8.0    | 13.2   | 15.9   | 18.5   | 21.1   | 23.7   | 26.5   |
| 87.5° | 0.0    | 0.0    | 2.6    | 2.6    | 2.6    | 2.6    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    |
| 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: P880574

CATALOG NUMBER: LD4C40D010 EU4409035 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 | 1719.2 |
| 2.5°  | 1727.2 | 1719.2 | 1714.0 | 1711.3 | 1729.8 | 1706.1 | 1716.6 | 1719.2 |
| 5°    | 1716.6 | 1708.7 | 1703.5 | 1700.7 | 1716.6 | 1695.5 | 1703.5 | 1708.7 |
| 7.5°  | 1700.7 | 1695.5 | 1687.5 | 1684.9 | 1700.7 | 1676.9 | 1687.5 | 1690.1 |
| 10°   | 1682.3 | 1674.3 | 1669.0 | 1666.4 | 1679.6 | 1655.8 | 1666.4 | 1666.4 |
| 12.5° | 1658.4 | 1653.2 | 1642.6 | 1642.6 | 1653.2 | 1632.1 | 1639.9 | 1639.9 |
| 15°   | 1626.7 | 1621.5 | 1610.9 | 1610.9 | 1621.5 | 1600.2 | 1608.1 | 1608.1 |
| 17.5° | 1600.2 | 1595.0 | 1587.0 | 1584.4 | 1595.0 | 1573.8 | 1581.8 | 1579.0 |
| 20°   | 1579.0 | 1573.8 | 1563.2 | 1563.2 | 1571.2 | 1550.1 | 1557.9 | 1557.9 |
| 22.5° | 1560.6 | 1557.9 | 1547.3 | 1547.3 | 1557.9 | 1536.7 | 1542.1 | 1536.7 |
| 25°   | 1531.5 | 1528.8 | 1518.2 | 1521.0 | 1526.2 | 1505.0 | 1513.0 | 1507.6 |
| 27.5° | 1483.9 | 1483.9 | 1473.3 | 1470.7 | 1478.5 | 1460.1 | 1465.3 | 1462.7 |
| 30°   | 1409.8 | 1412.5 | 1399.3 | 1399.3 | 1401.9 | 1385.9 | 1393.9 | 1391.3 |
| 32.5° | 1309.3 | 1311.9 | 1301.3 | 1298.7 | 1306.7 | 1293.4 | 1298.7 | 1298.7 |
| 35°   | 1198.2 | 1200.8 | 1192.8 | 1192.8 | 1200.8 | 1192.8 | 1192.8 | 1190.2 |
| 37.5° | 1087.1 | 1092.3 | 1087.1 | 1089.7 | 1095.1 | 1087.1 | 1092.3 | 1089.7 |
| 40°   | 997.2  | 1002.5 | 994.6  | 999.8  | 1005.1 | 997.2  | 1005.1 | 999.8  |
| 42.5° | 915.2  | 923.1  | 917.8  | 923.1  | 928.3  | 923.1  | 928.3  | 920.5  |
| 45°   | 854.3  | 859.7  | 856.9  | 859.7  | 864.9  | 862.3  | 864.9  | 862.3  |
| 47.5° | 796.1  | 806.7  | 801.5  | 806.7  | 814.6  | 809.4  | 814.6  | 806.7  |
| 50°   | 743.2  | 751.2  | 748.6  | 753.8  | 756.4  | 753.8  | 759.2  | 751.2  |
| 52.5° | 674.4  | 682.4  | 679.8  | 679.8  | 685.0  | 679.8  | 685.0  | 679.8  |
| 55°   | 584.6  | 587.2  | 587.2  | 589.8  | 587.2  | 584.6  | 587.2  | 581.9  |
| 57.5° | 497.3  | 502.5  | 494.7  | 502.5  | 499.9  | 497.3  | 497.3  | 491.9  |
| 60°   | 441.6  | 449.6  | 444.4  | 449.6  | 447.0  | 447.0  | 447.0  | 444.4  |
| 62.5° | 396.7  | 402.1  | 396.7  | 399.4  | 399.4  | 399.4  | 396.7  | 394.1  |
| 65°   | 346.5  | 354.5  | 349.1  | 351.9  | 349.1  | 346.5  | 349.1  | 346.5  |
| 67.5° | 296.2  | 298.8  | 298.8  | 296.2  | 296.2  | 296.2  | 296.2  | 291.0  |
| 70°   | 240.7  | 243.4  | 240.7  | 246.0  | 243.4  | 240.7  | 243.4  | 238.0  |
| 72.5° | 187.7  | 190.5  | 187.7  | 190.5  | 187.7  | 187.7  | 187.7  | 187.7  |
| 75°   | 140.2  | 142.8  | 142.8  | 142.8  | 142.8  | 142.8  | 137.6  | 142.8  |
| 77.5° | 100.5  | 100.5  | 100.5  | 103.1  | 100.5  | 100.5  | 100.5  | 100.5  |
| 80°   | 68.8   | 68.8   | 68.8   | 71.4   | 68.8   | 71.4   | 68.8   | 71.4   |
| 82.5° | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   |
| 85°   | 23.7   | 26.5   | 26.5   | 23.7   | 23.7   | 23.7   | 23.7   | 23.7   |
| 87.5° | 5.4    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 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)