

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: P880576

Luminaire Tested: **LD4C40D010 EU4409050 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: P880576  
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 EU4409050 4LBDWNH  
Description: 4 INCH 4000 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**

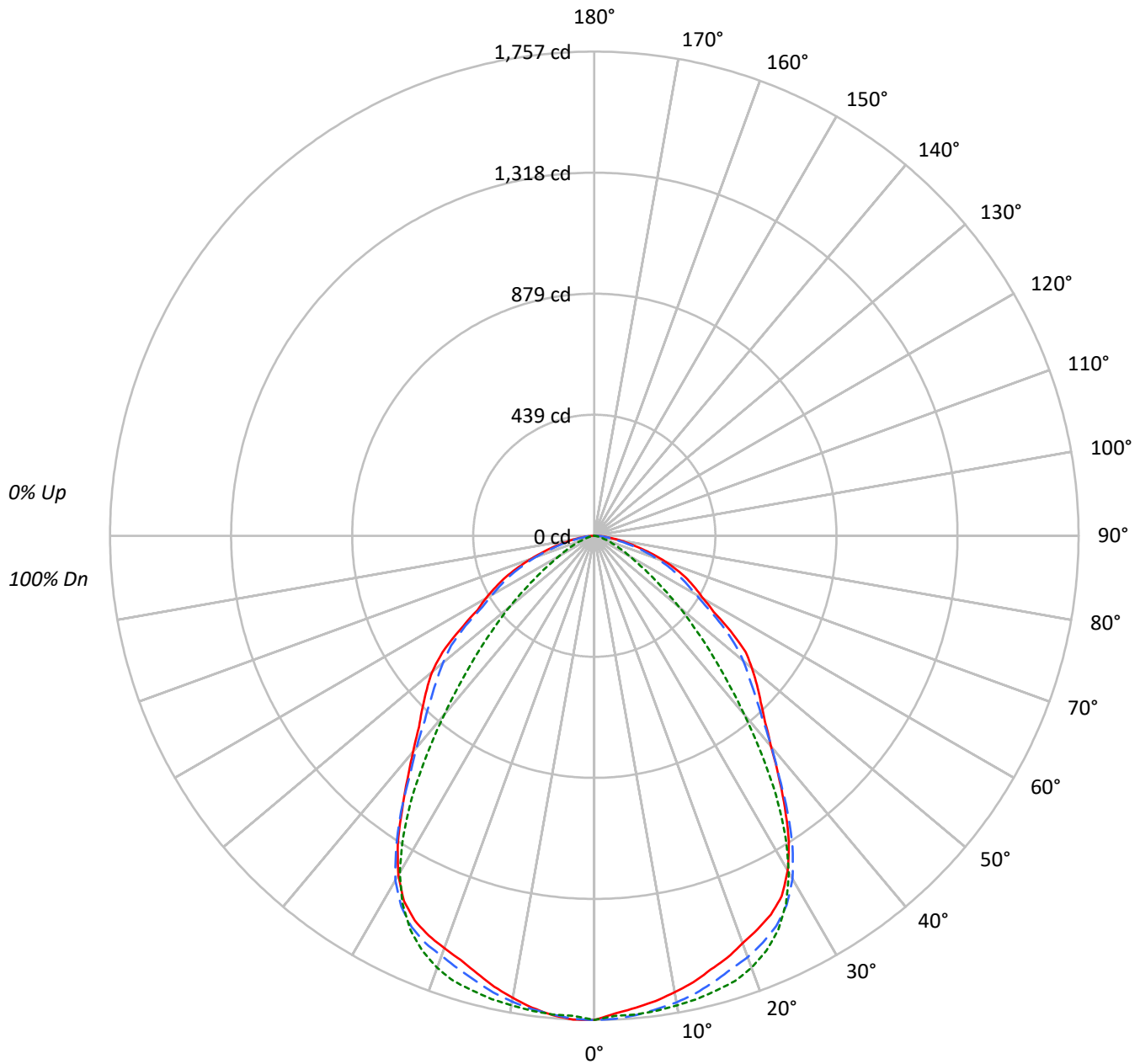
Lumens per Lamp: N/A  
Luminaire Lumens: 3576.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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°  | 215866 | 215866 | 215866 |
| 5°  | 212029 | 215026 | 215359 |
| 10° | 209752 | 215828 | 212447 |
| 15° | 207328 | 217287 | 209032 |
| 20° | 205677 | 218071 | 208161 |
| 25° | 205567 | 213999 | 208861 |
| 30° | 199028 | 200177 | 201709 |
| 35° | 180812 | 172308 | 182431 |
| 40° | 159973 | 135676 | 163870 |
| 45° | 148410 | 103324 | 153118 |
| 50° | 142599 | 76489  | 146727 |
| 55° | 129113 | 52690  | 127378 |
| 60° | 112264 | 35873  | 111600 |
| 65° | 108459 | 25959  | 102935 |
| 70° | 98061  | 17493  | 87357  |
| 75° | 80789  | 11534  | 69302  |
| 80° | 65018  | 7641   | 51646  |
| 85° | 53423  | 3806   | 34253  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.9  | 4.6       |
| 10°-20°   | 474.3  | 13.3      |
| 20°-30°   | 716.5  | 20.0      |
| 30°-40°   | 749.8  | 21.0      |
| 40°-50°   | 607.3  | 17.0      |
| 50°-60°   | 441.7  | 12.4      |
| 60°-70°   | 272.4  | 7.6       |
| 70°-80°   | 123.1  | 3.4       |
| 80°-90°   | 25.0   | 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°    | 1356.6 | 37.9      |
| 0°-40°    | 2106.4 | 58.9      |
| 0°-60°    | 3155.5 | 88.2      |
| 0°-90°    | 3576.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3576.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1757 | 1757 | 1757 | 1757 | 1757 |      |
| 5°  | 1719 | 1746 | 1744 | 1744 | 1746 | 163  |
| 15° | 1630 | 1676 | 1708 | 1671 | 1644 | 461  |
| 25° | 1516 | 1562 | 1579 | 1568 | 1541 | 695  |
| 35° | 1206 | 1222 | 1149 | 1222 | 1216 | 751  |
| 45° | 854  | 827  | 595  | 838  | 881  | 664  |
| 55° | 603  | 565  | 246  | 570  | 595  | 538  |
| 65° | 373  | 335  | 89   | 330  | 354  | 365  |
| 75° | 170  | 146  | 24   | 127  | 146  | 185  |
| 85° | 38   | 30   | 3    | 22   | 24   | 43   |
| 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°    | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 |
| 2.5°  | 1735.5 | 1735.5 | 1751.8 | 1770.5 | 1754.4 | 1738.1 | 1748.9 | 1743.6 | 1762.6 | 1762.6 | 1754.4 |
| 5°    | 1719.3 | 1724.7 | 1738.1 | 1754.4 | 1741.0 | 1724.7 | 1738.1 | 1732.8 | 1751.8 | 1751.8 | 1746.3 |
| 7.5°  | 1703.0 | 1705.7 | 1722.0 | 1741.0 | 1727.3 | 1711.2 | 1722.0 | 1719.3 | 1735.5 | 1738.1 | 1732.8 |
| 10°   | 1681.4 | 1684.1 | 1700.4 | 1719.3 | 1705.7 | 1692.2 | 1703.0 | 1700.4 | 1722.0 | 1722.0 | 1719.3 |
| 12.5° | 1659.8 | 1662.5 | 1678.8 | 1694.9 | 1681.4 | 1668.0 | 1678.8 | 1678.8 | 1700.4 | 1703.0 | 1700.4 |
| 15°   | 1630.1 | 1635.4 | 1649.0 | 1665.1 | 1657.2 | 1640.9 | 1651.7 | 1651.7 | 1670.6 | 1675.9 | 1675.9 |
| 17.5° | 1605.8 | 1608.5 | 1621.9 | 1638.2 | 1627.4 | 1613.8 | 1624.6 | 1624.6 | 1643.5 | 1649.0 | 1649.0 |
| 20°   | 1573.2 | 1578.7 | 1592.2 | 1608.5 | 1600.3 | 1589.5 | 1597.6 | 1597.6 | 1619.3 | 1624.6 | 1627.4 |
| 22.5° | 1546.3 | 1551.6 | 1562.4 | 1584.2 | 1570.5 | 1562.4 | 1573.2 | 1570.5 | 1595.0 | 1597.6 | 1597.6 |
| 25°   | 1516.5 | 1522.0 | 1535.5 | 1548.9 | 1540.8 | 1532.8 | 1540.8 | 1540.8 | 1559.7 | 1562.4 | 1562.4 |
| 27.5° | 1473.3 | 1476.0 | 1489.4 | 1503.0 | 1494.9 | 1484.1 | 1494.9 | 1492.2 | 1511.0 | 1513.9 | 1511.0 |
| 30°   | 1403.0 | 1408.5 | 1413.8 | 1432.7 | 1424.6 | 1416.4 | 1427.2 | 1421.9 | 1440.9 | 1440.9 | 1438.0 |
| 32.5° | 1313.7 | 1313.7 | 1324.7 | 1338.1 | 1327.3 | 1321.8 | 1330.0 | 1332.6 | 1346.3 | 1346.3 | 1338.1 |
| 35°   | 1205.6 | 1211.1 | 1219.1 | 1227.2 | 1219.1 | 1213.8 | 1221.9 | 1219.1 | 1235.4 | 1229.9 | 1221.9 |
| 37.5° | 1097.6 | 1100.2 | 1108.4 | 1119.2 | 1108.4 | 1100.2 | 1102.9 | 1100.2 | 1113.7 | 1113.7 | 1100.2 |
| 40°   | 997.5  | 1003.0 | 1008.3 | 1019.1 | 1008.3 | 1003.0 | 1005.6 | 997.5  | 1013.8 | 1008.3 | 1000.1 |
| 42.5° | 916.4  | 919.0  | 927.2  | 932.7  | 921.8  | 919.0  | 921.8  | 916.4  | 924.5  | 919.0  | 902.9  |
| 45°   | 854.2  | 854.2  | 857.0  | 865.0  | 854.2  | 851.5  | 851.5  | 846.0  | 854.2  | 843.4  | 827.3  |
| 47.5° | 800.2  | 802.8  | 805.6  | 811.0  | 802.8  | 794.8  | 797.5  | 786.7  | 792.0  | 783.9  | 762.2  |
| 50°   | 746.1  | 751.4  | 754.3  | 759.6  | 751.4  | 746.1  | 748.8  | 738.0  | 738.0  | 724.5  | 705.6  |
| 52.5° | 692.1  | 694.8  | 692.1  | 697.4  | 692.1  | 683.9  | 686.6  | 675.8  | 675.8  | 659.7  | 640.7  |
| 55°   | 602.8  | 605.5  | 608.3  | 613.6  | 608.3  | 600.2  | 605.5  | 597.5  | 597.5  | 586.5  | 564.9  |
| 57.5° | 513.5  | 516.4  | 519.0  | 521.7  | 521.7  | 516.4  | 519.0  | 513.5  | 510.9  | 502.7  | 486.6  |
| 60°   | 456.9  | 456.9  | 456.9  | 459.5  | 456.9  | 454.2  | 454.2  | 448.7  | 448.7  | 437.9  | 421.8  |
| 62.5° | 413.6  | 416.3  | 416.3  | 418.9  | 416.3  | 413.6  | 411.0  | 405.5  | 402.8  | 392.0  | 378.4  |
| 65°   | 373.1  | 373.1  | 370.4  | 375.7  | 373.1  | 370.4  | 370.4  | 364.9  | 359.6  | 348.8  | 335.2  |
| 67.5° | 324.4  | 327.0  | 324.4  | 327.0  | 327.0  | 324.4  | 321.7  | 316.2  | 313.5  | 305.4  | 289.3  |
| 70°   | 273.0  | 273.0  | 273.0  | 275.8  | 273.0  | 273.0  | 275.8  | 267.7  | 265.0  | 254.0  | 240.6  |
| 72.5° | 221.6  | 224.4  | 224.4  | 221.6  | 224.4  | 218.9  | 218.9  | 218.9  | 216.3  | 205.5  | 191.9  |
| 75°   | 170.2  | 173.1  | 173.1  | 175.7  | 173.1  | 170.2  | 170.2  | 167.6  | 164.9  | 156.8  | 146.0  |
| 77.5° | 127.0  | 127.0  | 129.7  | 129.7  | 129.7  | 127.0  | 127.0  | 121.7  | 121.7  | 116.2  | 105.4  |
| 80°   | 91.9   | 91.9   | 89.3   | 91.9   | 91.9   | 89.3   | 89.3   | 86.4   | 86.4   | 81.1   | 73.0   |
| 82.5° | 59.5   | 62.2   | 62.2   | 62.2   | 62.2   | 59.5   | 59.5   | 59.5   | 56.7   | 54.0   | 48.7   |
| 85°   | 37.9   | 37.9   | 37.9   | 37.9   | 40.6   | 37.9   | 40.6   | 37.9   | 37.9   | 32.4   | 29.8   |
| 87.5° | 16.3   | 16.3   | 16.3   | 19.0   | 19.0   | 16.3   | 16.3   | 16.3   | 16.3   | 16.3   | 13.5   |
| 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°    | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 |
| 2.5°  | 1754.4 | 1757.1 | 1748.9 | 1759.7 | 1751.8 | 1754.4 | 1757.1 | 1754.4 | 1743.6 | 1743.6 | 1773.4 |
| 5°    | 1743.6 | 1748.9 | 1741.0 | 1754.4 | 1748.9 | 1748.9 | 1754.4 | 1751.8 | 1741.0 | 1743.6 | 1770.5 |
| 7.5°  | 1732.8 | 1741.0 | 1735.5 | 1748.9 | 1741.0 | 1741.0 | 1746.3 | 1746.3 | 1735.5 | 1738.1 | 1762.6 |
| 10°   | 1716.5 | 1727.3 | 1724.7 | 1738.1 | 1730.1 | 1730.1 | 1738.1 | 1738.1 | 1727.3 | 1730.1 | 1754.4 |
| 12.5° | 1703.0 | 1713.9 | 1711.2 | 1724.7 | 1719.3 | 1722.0 | 1724.7 | 1730.1 | 1716.5 | 1722.0 | 1743.6 |
| 15°   | 1681.4 | 1692.2 | 1692.2 | 1705.7 | 1700.4 | 1705.7 | 1711.2 | 1719.3 | 1708.4 | 1708.4 | 1730.1 |
| 17.5° | 1657.2 | 1670.6 | 1670.6 | 1681.4 | 1681.4 | 1684.1 | 1694.9 | 1703.0 | 1692.2 | 1694.9 | 1713.9 |
| 20°   | 1630.1 | 1646.4 | 1646.4 | 1659.8 | 1657.2 | 1662.5 | 1670.6 | 1678.8 | 1668.0 | 1668.0 | 1689.6 |
| 22.5° | 1603.0 | 1616.6 | 1619.3 | 1627.4 | 1627.4 | 1630.1 | 1638.2 | 1643.5 | 1630.1 | 1630.1 | 1651.7 |
| 25°   | 1565.2 | 1578.7 | 1581.4 | 1586.8 | 1581.4 | 1581.4 | 1586.8 | 1592.2 | 1578.7 | 1578.7 | 1597.6 |
| 27.5° | 1513.9 | 1527.3 | 1527.3 | 1524.7 | 1519.2 | 1522.0 | 1519.2 | 1522.0 | 1508.4 | 1505.7 | 1524.7 |
| 30°   | 1438.0 | 1446.2 | 1446.2 | 1443.5 | 1435.4 | 1435.4 | 1427.2 | 1430.1 | 1411.1 | 1411.1 | 1427.2 |
| 32.5° | 1335.5 | 1343.5 | 1338.1 | 1332.6 | 1321.8 | 1316.5 | 1311.0 | 1308.4 | 1289.4 | 1289.4 | 1308.4 |
| 35°   | 1213.8 | 1219.1 | 1211.1 | 1200.3 | 1186.7 | 1178.5 | 1170.6 | 1159.7 | 1146.1 | 1148.9 | 1159.7 |
| 37.5° | 1089.4 | 1089.4 | 1078.6 | 1057.0 | 1046.2 | 1032.6 | 1019.1 | 1019.1 | 997.5  | 994.8  | 1003.0 |
| 40°   | 984.0  | 973.2  | 954.3  | 924.5  | 905.6  | 892.1  | 873.1  | 862.3  | 846.0  | 846.0  | 859.7  |
| 42.5° | 889.4  | 867.8  | 843.4  | 802.8  | 783.9  | 767.7  | 743.5  | 732.7  | 713.7  | 710.9  | 719.0  |
| 45°   | 805.6  | 783.9  | 748.8  | 705.6  | 681.3  | 662.3  | 627.1  | 613.6  | 597.5  | 594.7  | 600.2  |
| 47.5° | 738.0  | 713.7  | 670.5  | 613.6  | 589.3  | 564.9  | 529.8  | 510.9  | 497.4  | 489.3  | 497.4  |
| 50°   | 678.5  | 646.0  | 600.2  | 540.6  | 508.2  | 486.6  | 443.4  | 424.4  | 405.5  | 400.2  | 402.8  |
| 52.5° | 613.6  | 581.2  | 532.5  | 470.3  | 440.6  | 408.1  | 367.6  | 340.6  | 324.4  | 316.2  | 324.4  |
| 55°   | 543.3  | 510.9  | 462.3  | 400.2  | 367.6  | 338.0  | 294.6  | 273.0  | 254.0  | 246.0  | 254.0  |
| 57.5° | 467.7  | 437.9  | 394.7  | 332.5  | 302.7  | 275.8  | 235.2  | 213.6  | 194.7  | 189.2  | 194.7  |
| 60°   | 402.8  | 378.4  | 335.2  | 275.8  | 251.4  | 221.6  | 186.5  | 164.9  | 148.6  | 146.0  | 148.6  |
| 62.5° | 359.6  | 332.5  | 291.9  | 235.2  | 210.8  | 186.5  | 154.1  | 132.5  | 118.9  | 116.2  | 118.9  |
| 65°   | 316.2  | 286.6  | 248.7  | 200.0  | 175.7  | 156.8  | 124.4  | 105.4  | 91.9   | 89.3   | 91.9   |
| 67.5° | 267.7  | 240.6  | 208.1  | 164.9  | 146.0  | 127.0  | 100.1  | 81.1   | 70.3   | 67.7   | 70.3   |
| 70°   | 221.6  | 197.3  | 164.9  | 132.5  | 113.5  | 100.1  | 75.6   | 62.2   | 51.4   | 48.7   | 51.4   |
| 72.5° | 175.7  | 154.1  | 127.0  | 100.1  | 89.3   | 75.6   | 59.5   | 45.9   | 37.9   | 35.1   | 37.9   |
| 75°   | 135.2  | 118.9  | 97.3   | 73.0   | 64.8   | 56.7   | 40.6   | 32.4   | 27.1   | 24.3   | 27.1   |
| 77.5° | 94.6   | 83.8   | 67.7   | 54.0   | 45.9   | 40.6   | 29.8   | 21.6   | 19.0   | 16.3   | 19.0   |
| 80°   | 64.8   | 56.7   | 45.9   | 35.1   | 29.8   | 24.3   | 19.0   | 13.5   | 10.8   | 10.8   | 10.8   |
| 82.5° | 43.2   | 35.1   | 27.1   | 21.6   | 19.0   | 16.3   | 10.8   | 8.1    | 8.1    | 5.5    | 5.5    |
| 85°   | 24.3   | 21.6   | 16.3   | 13.5   | 10.8   | 8.1    | 5.5    | 5.5    | 2.7    | 2.7    | 2.7    |
| 87.5° | 10.8   | 8.1    | 5.5    | 5.5    | 2.7    | 2.7    | 2.7    | 2.7    | 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°    | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 |
| 2.5°  | 1765.2 | 1757.1 | 1767.9 | 1757.1 | 1751.8 | 1757.1 | 1751.8 | 1767.9 | 1754.4 | 1743.6 | 1754.4 |
| 5°    | 1762.6 | 1751.8 | 1762.6 | 1754.4 | 1746.3 | 1748.9 | 1743.6 | 1759.7 | 1743.6 | 1735.5 | 1741.0 |
| 7.5°  | 1757.1 | 1748.9 | 1754.4 | 1746.3 | 1738.1 | 1741.0 | 1735.5 | 1748.9 | 1732.8 | 1724.7 | 1730.1 |
| 10°   | 1748.9 | 1741.0 | 1743.6 | 1738.1 | 1730.1 | 1730.1 | 1724.7 | 1735.5 | 1716.5 | 1705.7 | 1711.2 |
| 12.5° | 1738.1 | 1727.3 | 1732.8 | 1724.7 | 1713.9 | 1713.9 | 1708.4 | 1716.5 | 1697.6 | 1686.8 | 1689.6 |
| 15°   | 1724.7 | 1713.9 | 1713.9 | 1705.7 | 1694.9 | 1694.9 | 1684.1 | 1692.2 | 1670.6 | 1659.8 | 1659.8 |
| 17.5° | 1708.4 | 1694.9 | 1694.9 | 1686.8 | 1673.3 | 1670.6 | 1662.5 | 1670.6 | 1646.4 | 1635.4 | 1635.4 |
| 20°   | 1684.1 | 1673.3 | 1670.6 | 1665.1 | 1651.7 | 1649.0 | 1638.2 | 1640.9 | 1621.9 | 1613.8 | 1611.1 |
| 22.5° | 1651.7 | 1640.9 | 1643.5 | 1635.4 | 1624.6 | 1621.9 | 1611.1 | 1619.3 | 1600.3 | 1592.2 | 1595.0 |
| 25°   | 1595.0 | 1589.5 | 1595.0 | 1592.2 | 1584.2 | 1584.2 | 1578.7 | 1584.2 | 1567.9 | 1562.4 | 1565.2 |
| 27.5° | 1530.0 | 1527.3 | 1530.0 | 1530.0 | 1524.7 | 1524.7 | 1524.7 | 1532.8 | 1516.5 | 1513.9 | 1513.9 |
| 30°   | 1435.4 | 1435.4 | 1438.0 | 1440.9 | 1440.9 | 1446.2 | 1443.5 | 1454.3 | 1443.5 | 1438.0 | 1443.5 |
| 32.5° | 1311.0 | 1321.8 | 1330.0 | 1330.0 | 1330.0 | 1335.5 | 1340.8 | 1348.9 | 1338.1 | 1340.8 | 1340.8 |
| 35°   | 1170.6 | 1178.5 | 1184.0 | 1197.5 | 1189.5 | 1208.3 | 1213.8 | 1224.6 | 1221.9 | 1227.2 | 1224.6 |
| 37.5° | 1013.8 | 1024.6 | 1035.4 | 1054.3 | 1051.5 | 1073.1 | 1083.9 | 1105.6 | 1100.2 | 1111.0 | 1116.4 |
| 40°   | 867.8  | 883.9  | 900.2  | 913.7  | 924.5  | 946.1  | 967.7  | 994.8  | 1003.0 | 1011.0 | 1013.8 |
| 42.5° | 727.2  | 743.5  | 770.4  | 789.3  | 805.6  | 840.7  | 870.5  | 902.9  | 911.0  | 927.2  | 932.7  |
| 45°   | 613.6  | 627.1  | 659.7  | 683.9  | 697.4  | 748.8  | 783.9  | 824.4  | 838.1  | 857.0  | 865.0  |
| 47.5° | 508.2  | 532.5  | 564.9  | 594.7  | 613.6  | 667.7  | 713.7  | 756.9  | 775.9  | 797.5  | 808.3  |
| 50°   | 416.3  | 443.4  | 486.6  | 513.5  | 540.6  | 600.2  | 651.5  | 697.4  | 716.4  | 740.6  | 751.4  |
| 52.5° | 340.6  | 370.4  | 411.0  | 440.6  | 470.3  | 532.5  | 586.5  | 629.9  | 654.2  | 670.5  | 686.6  |
| 55°   | 267.7  | 300.1  | 340.6  | 373.1  | 397.3  | 465.0  | 510.9  | 554.1  | 570.4  | 583.9  | 592.0  |
| 57.5° | 208.1  | 232.4  | 273.0  | 300.1  | 329.8  | 389.2  | 435.2  | 467.7  | 481.1  | 497.4  | 502.7  |
| 60°   | 162.3  | 186.5  | 224.4  | 251.4  | 278.5  | 335.2  | 381.2  | 413.6  | 427.1  | 440.6  | 448.7  |
| 62.5° | 129.7  | 154.1  | 189.2  | 213.6  | 237.9  | 289.3  | 329.8  | 362.3  | 378.4  | 392.0  | 400.2  |
| 65°   | 102.7  | 124.4  | 154.1  | 178.4  | 197.3  | 243.2  | 283.8  | 313.5  | 329.8  | 343.3  | 351.4  |
| 67.5° | 81.1   | 100.1  | 127.0  | 143.3  | 162.3  | 200.0  | 235.2  | 262.2  | 275.8  | 291.9  | 300.1  |
| 70°   | 62.2   | 75.6   | 100.1  | 113.5  | 127.0  | 159.4  | 186.5  | 213.6  | 227.1  | 237.9  | 243.2  |
| 72.5° | 45.9   | 56.7   | 75.6   | 86.4   | 94.6   | 121.7  | 143.3  | 162.3  | 173.1  | 183.9  | 189.2  |
| 75°   | 32.4   | 40.6   | 54.0   | 62.2   | 67.7   | 86.4   | 105.4  | 118.9  | 127.0  | 135.2  | 143.3  |
| 77.5° | 21.6   | 27.1   | 35.1   | 40.6   | 45.9   | 59.5   | 70.3   | 81.1   | 89.3   | 97.3   | 100.1  |
| 80°   | 13.5   | 19.0   | 24.3   | 27.1   | 29.8   | 37.9   | 48.7   | 54.0   | 59.5   | 64.8   | 67.7   |
| 82.5° | 8.1    | 10.8   | 13.5   | 16.3   | 19.0   | 24.3   | 29.8   | 35.1   | 37.9   | 43.2   | 45.9   |
| 85°   | 2.7    | 5.5    | 5.5    | 8.1    | 8.1    | 13.5   | 16.3   | 19.0   | 21.6   | 24.3   | 27.1   |
| 87.5° | 0.0    | 0.0    | 2.7    | 2.7    | 2.7    | 2.7    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 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: P880576

CATALOG NUMBER: LD4C40D010 EU4409050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 | 1757.1 |
| 2.5°  | 1765.2 | 1757.1 | 1751.8 | 1748.9 | 1767.9 | 1743.6 | 1754.4 | 1757.1 |
| 5°    | 1754.4 | 1746.3 | 1741.0 | 1738.1 | 1754.4 | 1732.8 | 1741.0 | 1746.3 |
| 7.5°  | 1738.1 | 1732.8 | 1724.7 | 1722.0 | 1738.1 | 1713.9 | 1724.7 | 1727.3 |
| 10°   | 1719.3 | 1711.2 | 1705.7 | 1703.0 | 1716.5 | 1692.2 | 1703.0 | 1703.0 |
| 12.5° | 1694.9 | 1689.6 | 1678.8 | 1678.8 | 1689.6 | 1668.0 | 1675.9 | 1675.9 |
| 15°   | 1662.5 | 1657.2 | 1646.4 | 1646.4 | 1657.2 | 1635.4 | 1643.5 | 1643.5 |
| 17.5° | 1635.4 | 1630.1 | 1621.9 | 1619.3 | 1630.1 | 1608.5 | 1616.6 | 1613.8 |
| 20°   | 1613.8 | 1608.5 | 1597.6 | 1597.6 | 1605.8 | 1584.2 | 1592.2 | 1592.2 |
| 22.5° | 1595.0 | 1592.2 | 1581.4 | 1581.4 | 1592.2 | 1570.5 | 1576.0 | 1570.5 |
| 25°   | 1565.2 | 1562.4 | 1551.6 | 1554.4 | 1559.7 | 1538.1 | 1546.3 | 1540.8 |
| 27.5° | 1516.5 | 1516.5 | 1505.7 | 1503.0 | 1511.0 | 1492.2 | 1497.6 | 1494.9 |
| 30°   | 1440.9 | 1443.5 | 1430.1 | 1430.1 | 1432.7 | 1416.4 | 1424.6 | 1421.9 |
| 32.5° | 1338.1 | 1340.8 | 1330.0 | 1327.3 | 1335.5 | 1321.8 | 1327.3 | 1327.3 |
| 35°   | 1224.6 | 1227.2 | 1219.1 | 1219.1 | 1227.2 | 1219.1 | 1219.1 | 1216.4 |
| 37.5° | 1111.0 | 1116.4 | 1111.0 | 1113.7 | 1119.2 | 1111.0 | 1116.4 | 1113.7 |
| 40°   | 1019.1 | 1024.6 | 1016.4 | 1021.8 | 1027.2 | 1019.1 | 1027.2 | 1021.8 |
| 42.5° | 935.3  | 943.5  | 938.0  | 943.5  | 948.8  | 943.5  | 948.8  | 940.8  |
| 45°   | 873.1  | 878.6  | 875.8  | 878.6  | 883.9  | 881.3  | 883.9  | 881.3  |
| 47.5° | 813.6  | 824.4  | 819.1  | 824.4  | 832.6  | 827.3  | 832.6  | 824.4  |
| 50°   | 759.6  | 767.7  | 765.1  | 770.4  | 773.1  | 770.4  | 775.9  | 767.7  |
| 52.5° | 689.3  | 697.4  | 694.8  | 694.8  | 700.1  | 694.8  | 700.1  | 694.8  |
| 55°   | 597.5  | 600.2  | 600.2  | 602.8  | 600.2  | 597.5  | 600.2  | 594.7  |
| 57.5° | 508.2  | 513.5  | 505.6  | 513.5  | 510.9  | 508.2  | 508.2  | 502.7  |
| 60°   | 451.4  | 459.5  | 454.2  | 459.5  | 456.9  | 456.9  | 456.9  | 454.2  |
| 62.5° | 405.5  | 411.0  | 405.5  | 408.1  | 408.1  | 408.1  | 405.5  | 402.8  |
| 65°   | 354.1  | 362.3  | 356.8  | 359.6  | 356.8  | 354.1  | 356.8  | 354.1  |
| 67.5° | 302.7  | 305.4  | 305.4  | 302.7  | 302.7  | 302.7  | 302.7  | 297.4  |
| 70°   | 246.0  | 248.7  | 246.0  | 251.4  | 248.7  | 246.0  | 248.7  | 243.2  |
| 72.5° | 191.9  | 194.7  | 191.9  | 194.7  | 191.9  | 191.9  | 191.9  | 191.9  |
| 75°   | 143.3  | 146.0  | 146.0  | 146.0  | 146.0  | 146.0  | 140.6  | 146.0  |
| 77.5° | 102.7  | 102.7  | 102.7  | 105.4  | 102.7  | 102.7  | 102.7  | 102.7  |
| 80°   | 70.3   | 70.3   | 70.3   | 73.0   | 70.3   | 73.0   | 70.3   | 73.0   |
| 82.5° | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   |
| 85°   | 24.3   | 27.1   | 27.1   | 24.3   | 24.3   | 24.3   | 24.3   | 24.3   |
| 87.5° | 5.5    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 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)