

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: P858715

Luminaire Tested: **LD4C35W2N2050D010 4LBSWNL\_2000K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251556)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 11/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C35W2N2050D010 4LBSWNLI\_2000K  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2000K, W2N2050 LEDS  
AND 4LBSWNLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

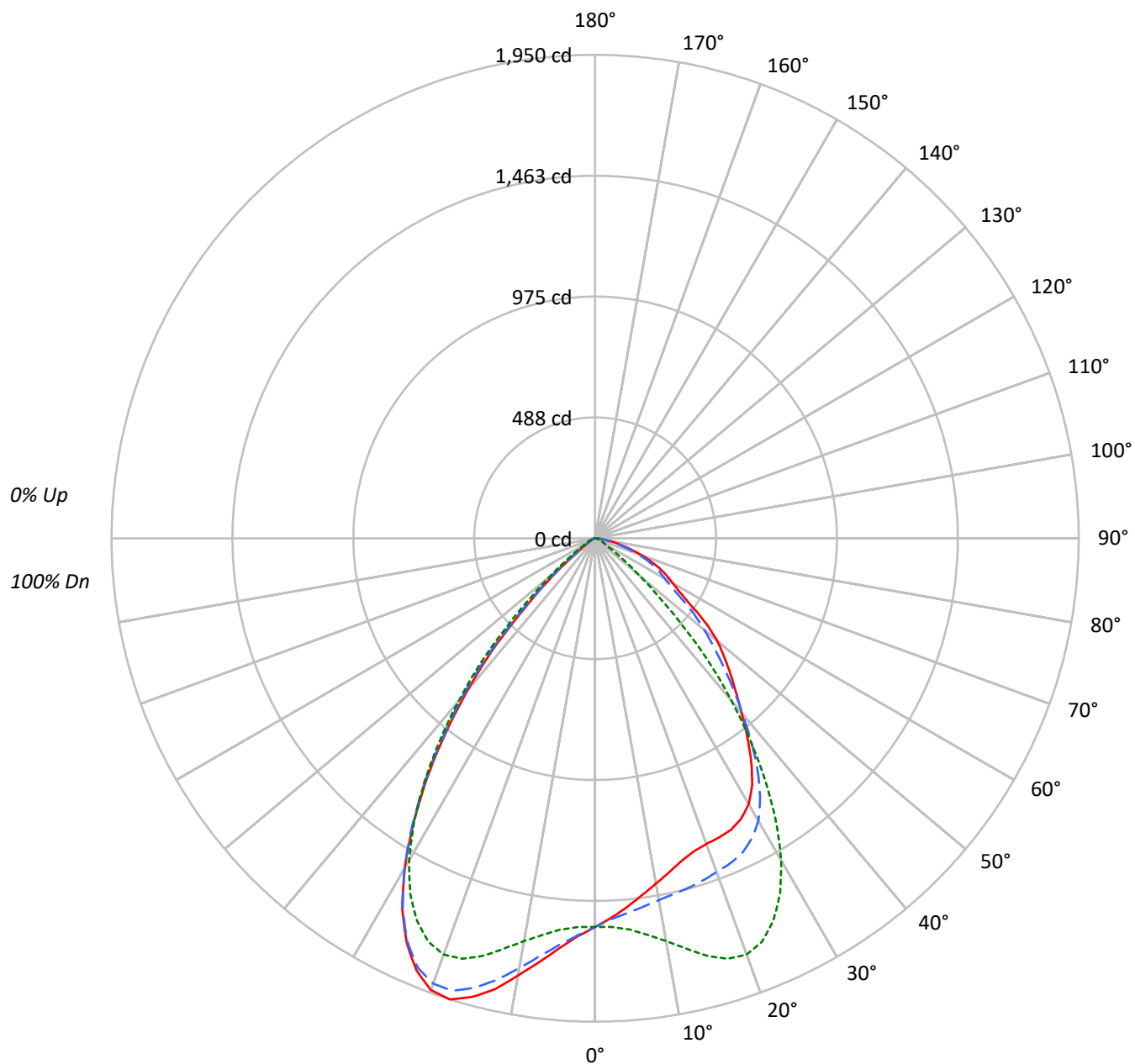
Lumens per Lamp: N/A  
Luminaire Lumens: 2893.0 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 52.8  
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

TEST NUMBER: P858715

CATALOG NUMBER: LD4C35W2N2050D010 4LBSWNL1\_2000K

### 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  |     |    |    | 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 80  |    |    |   |  |  |  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |
| 4   | 91  | 81  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |   |  |  |  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    |   |  |  |  |
| 6   | 79  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |   |  |  |  |
| 7   | 75  | 63  | 56  | 51  | 73  | 62  | 55  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 50  | 48  |    |    |   |  |  |  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |   |  |  |  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |  |  |  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |   |  |  |  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 192597 | 192597 | 192597 |
| 5°  | 183998 | 195356 | 204691 |
| 10° | 176420 | 205785 | 223400 |
| 15° | 171283 | 221776 | 243640 |
| 20° | 171515 | 233589 | 253396 |
| 25° | 175881 | 230550 | 243861 |
| 30° | 175650 | 212803 | 217739 |
| 35° | 164524 | 179867 | 177407 |
| 40° | 147368 | 137200 | 128010 |
| 45° | 133694 | 87114  | 71460  |
| 50° | 122837 | 44188  | 30504  |
| 55° | 100840 | 19727  | 10088  |
| 60° | 88504  | 11081  | 5528   |
| 65° | 83284  | 8314   | 4186   |
| 70° | 71301  | 6609   | 3700   |
| 75° | 54397  | 4889   | 2943   |
| 80° | 39053  | 2901   | 1486   |
| 85° | 28756  | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.3  | 5.3       |
| 10°-20°   | 474.6  | 16.4      |
| 20°-30°   | 734.3  | 25.4      |
| 30°-40°   | 723.5  | 25.0      |
| 40°-50°   | 444.2  | 15.4      |
| 50°-60°   | 197.5  | 6.8       |
| 60°-70°   | 110.3  | 3.8       |
| 70°-80°   | 47.8   | 1.7       |
| 80°-90°   | 8.5    | 0.3       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 1361.1 | 47.0      |
| 0°-40°    | 2084.6 | 72.1      |
| 0°-60°    | 2726.4 | 94.2      |
| 0°-90°    | 2893.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2893.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1568 | 1568 | 1568 | 1568 | 1568 |      |
| 5°  | 1492 | 1517 | 1584 | 1646 | 1660 | 140  |
| 15° | 1347 | 1459 | 1744 | 1877 | 1916 | 382  |
| 25° | 1298 | 1402 | 1701 | 1793 | 1799 | 595  |
| 35° | 1097 | 1142 | 1199 | 1195 | 1183 | 681  |
| 45° | 770  | 731  | 501  | 438  | 411  | 596  |
| 55° | 471  | 426  | 92   | 53   | 47   | 433  |
| 65° | 286  | 258  | 29   | 16   | 14   | 281  |
| 75° | 115  | 98   | 10   | 6    | 6    | 126  |
| 85° | 20   | 16   | 0    | 0    | 0    | 25   |
| 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°    | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 |
| 2.5°  | 1530.8 | 1530.8 | 1530.8 | 1530.8 | 1534.9 | 1528.8 | 1534.9 | 1534.9 | 1541.1 | 1543.1 | 1537.0 |
| 5°    | 1492.0 | 1490.0 | 1492.0 | 1492.0 | 1496.1 | 1494.0 | 1500.1 | 1504.2 | 1512.5 | 1516.6 | 1516.6 |
| 7.5°  | 1451.1 | 1451.1 | 1451.1 | 1455.2 | 1461.3 | 1459.2 | 1465.3 | 1471.5 | 1483.8 | 1492.0 | 1498.1 |
| 10°   | 1414.2 | 1412.2 | 1418.3 | 1420.4 | 1426.5 | 1426.5 | 1436.7 | 1442.9 | 1457.2 | 1473.6 | 1481.8 |
| 12.5° | 1379.4 | 1377.4 | 1381.5 | 1387.6 | 1397.8 | 1397.8 | 1406.0 | 1416.3 | 1436.7 | 1455.2 | 1469.4 |
| 15°   | 1346.7 | 1348.8 | 1354.8 | 1358.9 | 1371.2 | 1371.2 | 1381.5 | 1393.7 | 1416.3 | 1438.8 | 1459.2 |
| 17.5° | 1324.1 | 1326.2 | 1330.3 | 1336.4 | 1348.8 | 1348.8 | 1358.9 | 1373.3 | 1397.8 | 1422.4 | 1447.0 |
| 20°   | 1311.9 | 1314.0 | 1318.0 | 1324.1 | 1334.4 | 1336.4 | 1344.7 | 1361.0 | 1383.5 | 1410.1 | 1432.6 |
| 22.5° | 1305.8 | 1309.9 | 1314.0 | 1318.0 | 1328.2 | 1328.2 | 1338.5 | 1350.8 | 1373.3 | 1399.9 | 1420.4 |
| 25°   | 1297.5 | 1301.6 | 1303.7 | 1309.9 | 1318.0 | 1318.0 | 1324.1 | 1338.5 | 1358.9 | 1381.5 | 1401.9 |
| 27.5° | 1275.1 | 1279.2 | 1281.2 | 1287.3 | 1295.5 | 1293.4 | 1301.6 | 1311.9 | 1330.3 | 1350.8 | 1367.1 |
| 30°   | 1238.2 | 1240.3 | 1244.4 | 1246.4 | 1252.5 | 1252.5 | 1258.6 | 1268.9 | 1281.2 | 1299.6 | 1316.0 |
| 32.5° | 1178.8 | 1182.9 | 1185.0 | 1187.0 | 1193.2 | 1191.1 | 1193.2 | 1199.3 | 1211.6 | 1228.0 | 1238.2 |
| 35°   | 1097.0 | 1105.2 | 1105.2 | 1109.2 | 1111.3 | 1109.2 | 1109.2 | 1117.4 | 1123.6 | 1135.9 | 1142.0 |
| 37.5° | 1006.9 | 1013.1 | 1011.0 | 1015.1 | 1017.2 | 1011.0 | 1015.1 | 1017.2 | 1025.4 | 1031.5 | 1033.6 |
| 40°   | 918.9  | 921.0  | 921.0  | 921.0  | 921.0  | 918.9  | 921.0  | 923.0  | 929.2  | 929.2  | 923.0  |
| 42.5° | 839.1  | 841.2  | 841.2  | 837.0  | 841.2  | 839.1  | 839.1  | 839.1  | 839.1  | 830.9  | 824.8  |
| 45°   | 769.5  | 771.6  | 771.6  | 769.5  | 769.5  | 765.4  | 763.4  | 761.3  | 755.2  | 745.0  | 730.6  |
| 47.5° | 704.0  | 708.1  | 710.2  | 706.1  | 704.0  | 699.9  | 699.9  | 687.6  | 679.5  | 667.2  | 646.8  |
| 50°   | 642.7  | 646.8  | 646.8  | 642.7  | 642.7  | 636.5  | 630.4  | 626.2  | 614.0  | 599.7  | 575.1  |
| 52.5° | 564.9  | 571.0  | 571.0  | 569.0  | 569.0  | 560.8  | 558.7  | 550.5  | 540.3  | 523.9  | 503.5  |
| 55°   | 470.8  | 478.9  | 476.8  | 474.8  | 470.8  | 470.8  | 470.8  | 464.6  | 458.4  | 446.1  | 425.7  |
| 57.5° | 403.2  | 405.2  | 405.2  | 403.2  | 403.2  | 399.1  | 399.1  | 393.0  | 390.9  | 378.6  | 362.3  |
| 60°   | 360.2  | 360.2  | 362.3  | 360.2  | 358.2  | 356.1  | 354.1  | 350.0  | 343.8  | 335.6  | 323.4  |
| 62.5° | 325.4  | 327.5  | 327.5  | 325.4  | 323.4  | 321.3  | 319.3  | 315.2  | 311.1  | 304.9  | 292.7  |
| 65°   | 286.5  | 290.6  | 288.6  | 286.5  | 284.5  | 282.4  | 282.4  | 278.3  | 274.2  | 270.1  | 257.9  |
| 67.5° | 243.5  | 245.6  | 247.6  | 243.5  | 243.5  | 241.5  | 241.5  | 237.4  | 235.3  | 227.2  | 219.0  |
| 70°   | 198.5  | 200.5  | 200.5  | 198.5  | 198.5  | 196.4  | 196.4  | 194.4  | 192.4  | 186.3  | 178.1  |
| 72.5° | 155.6  | 157.6  | 155.6  | 153.5  | 153.5  | 153.5  | 151.5  | 149.4  | 147.4  | 143.3  | 137.1  |
| 75°   | 114.6  | 114.6  | 116.7  | 114.6  | 112.6  | 112.6  | 110.5  | 110.5  | 106.4  | 104.4  | 98.2   |
| 77.5° | 81.9   | 83.9   | 81.9   | 81.9   | 79.8   | 77.8   | 77.8   | 75.7   | 75.7   | 73.7   | 69.6   |
| 80°   | 55.2   | 55.2   | 57.3   | 55.2   | 53.2   | 55.2   | 53.2   | 51.2   | 51.2   | 49.2   | 45.1   |
| 82.5° | 34.8   | 36.8   | 34.8   | 34.8   | 34.8   | 34.8   | 34.8   | 32.7   | 32.7   | 30.7   | 28.6   |
| 85°   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 18.4   | 18.4   | 18.4   | 16.4   |
| 87.5° | 10.3   | 10.3   | 8.2    | 8.2    | 10.3   | 10.3   | 10.3   | 8.2    | 8.2    | 8.2    | 8.2    |
| 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°    | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 |
| 2.5°  | 1545.2 | 1547.2 | 1551.3 | 1557.5 | 1557.5 | 1553.4 | 1563.6 | 1563.6 | 1567.7 | 1569.7 | 1577.9 |
| 5°    | 1528.8 | 1532.9 | 1541.1 | 1551.3 | 1553.4 | 1551.3 | 1565.6 | 1571.8 | 1577.9 | 1584.1 | 1596.4 |
| 7.5°  | 1514.5 | 1522.7 | 1537.0 | 1551.3 | 1557.5 | 1557.5 | 1580.0 | 1588.2 | 1600.4 | 1612.7 | 1627.1 |
| 10°   | 1506.3 | 1518.6 | 1539.0 | 1561.6 | 1567.7 | 1573.8 | 1600.4 | 1616.8 | 1633.2 | 1649.6 | 1670.0 |
| 12.5° | 1496.1 | 1518.6 | 1545.2 | 1573.8 | 1586.1 | 1594.3 | 1631.2 | 1651.6 | 1674.1 | 1694.6 | 1721.2 |
| 15°   | 1494.0 | 1520.7 | 1555.5 | 1592.3 | 1608.6 | 1620.9 | 1661.9 | 1690.5 | 1717.1 | 1743.7 | 1770.4 |
| 17.5° | 1485.9 | 1518.6 | 1561.6 | 1602.5 | 1623.0 | 1639.3 | 1686.4 | 1721.2 | 1751.9 | 1778.5 | 1809.2 |
| 20°   | 1475.6 | 1512.5 | 1559.6 | 1604.5 | 1627.1 | 1643.4 | 1694.6 | 1727.4 | 1762.1 | 1786.7 | 1815.3 |
| 22.5° | 1461.3 | 1498.1 | 1545.2 | 1590.2 | 1610.7 | 1625.0 | 1676.1 | 1704.8 | 1735.6 | 1760.1 | 1786.7 |
| 25°   | 1436.7 | 1471.5 | 1512.5 | 1549.3 | 1569.7 | 1582.0 | 1627.1 | 1653.7 | 1676.1 | 1700.8 | 1725.3 |
| 27.5° | 1401.9 | 1428.5 | 1463.3 | 1490.0 | 1502.2 | 1514.5 | 1551.3 | 1573.8 | 1594.3 | 1614.8 | 1631.2 |
| 30°   | 1340.5 | 1361.0 | 1385.6 | 1408.1 | 1420.4 | 1422.4 | 1457.2 | 1469.4 | 1485.9 | 1500.1 | 1512.5 |
| 32.5° | 1258.6 | 1275.1 | 1289.3 | 1301.6 | 1309.9 | 1311.9 | 1338.5 | 1342.6 | 1358.9 | 1358.9 | 1377.4 |
| 35°   | 1154.3 | 1162.5 | 1172.7 | 1172.7 | 1178.8 | 1172.7 | 1191.1 | 1195.2 | 1197.3 | 1199.3 | 1213.6 |
| 37.5° | 1035.6 | 1039.6 | 1045.8 | 1033.6 | 1033.6 | 1027.4 | 1033.6 | 1037.6 | 1029.5 | 1029.5 | 1039.6 |
| 40°   | 923.0  | 914.8  | 906.6  | 894.4  | 888.3  | 875.9  | 875.9  | 865.7  | 859.6  | 855.5  | 857.6  |
| 42.5° | 814.6  | 796.1  | 777.7  | 751.1  | 738.8  | 726.5  | 714.3  | 699.9  | 695.8  | 685.6  | 679.5  |
| 45°   | 710.2  | 683.6  | 659.0  | 616.0  | 591.5  | 579.2  | 552.6  | 523.9  | 505.6  | 501.4  | 485.0  |
| 47.5° | 622.1  | 583.2  | 542.4  | 491.2  | 466.7  | 444.1  | 405.2  | 380.7  | 356.1  | 343.8  | 333.6  |
| 50°   | 544.4  | 509.6  | 456.4  | 401.2  | 370.4  | 347.9  | 304.9  | 276.3  | 249.7  | 231.2  | 219.0  |
| 52.5° | 476.8  | 438.0  | 388.9  | 325.4  | 294.8  | 270.1  | 223.1  | 190.4  | 167.8  | 149.4  | 135.1  |
| 55°   | 401.2  | 370.4  | 321.3  | 262.0  | 231.2  | 202.6  | 161.6  | 126.9  | 104.4  | 92.1   | 81.9   |
| 57.5° | 345.9  | 319.3  | 272.2  | 214.9  | 186.3  | 159.6  | 118.7  | 90.0   | 71.6   | 59.3   | 53.2   |
| 60°   | 309.0  | 284.5  | 243.5  | 188.3  | 161.6  | 137.1  | 98.2   | 71.6   | 55.2   | 45.1   | 40.9   |
| 62.5° | 278.3  | 253.8  | 217.0  | 165.7  | 143.3  | 118.7  | 83.9   | 59.3   | 45.1   | 36.8   | 30.7   |
| 65°   | 243.5  | 221.1  | 188.3  | 143.3  | 122.8  | 102.3  | 71.6   | 49.2   | 36.8   | 28.6   | 24.5   |
| 67.5° | 206.7  | 186.3  | 157.6  | 118.7  | 102.3  | 86.0   | 57.3   | 40.9   | 30.7   | 24.5   | 20.4   |
| 70°   | 167.8  | 151.5  | 124.8  | 96.2   | 81.9   | 67.5   | 47.1   | 32.7   | 22.5   | 18.4   | 16.4   |
| 72.5° | 128.9  | 114.6  | 96.2   | 73.7   | 61.4   | 51.2   | 34.8   | 24.5   | 18.4   | 14.4   | 12.3   |
| 75°   | 92.1   | 81.9   | 67.5   | 53.2   | 45.1   | 36.8   | 26.6   | 18.4   | 12.3   | 10.3   | 8.2    |
| 77.5° | 63.4   | 57.3   | 47.1   | 36.8   | 30.7   | 26.6   | 18.4   | 12.3   | 10.3   | 8.2    | 6.2    |
| 80°   | 40.9   | 36.8   | 30.7   | 22.5   | 18.4   | 16.4   | 10.3   | 8.2    | 6.2    | 4.1    | 4.1    |
| 82.5° | 24.5   | 22.5   | 18.4   | 12.3   | 10.3   | 8.2    | 6.2    | 4.1    | 4.1    | 2.1    | 2.1    |
| 85°   | 14.4   | 12.3   | 8.2    | 6.2    | 6.2    | 4.1    | 4.1    | 2.1    | 2.1    | 0.0    | 0.0    |
| 87.5° | 6.2    | 4.1    | 4.1    | 2.1    | 2.1    | 2.1    | 2.1    | 0.0    | 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°    | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 |
| 2.5°  | 1573.8 | 1584.1 | 1582.0 | 1588.2 | 1586.1 | 1586.1 | 1596.4 | 1592.3 | 1602.5 | 1602.5 | 1604.5 |
| 5°    | 1596.4 | 1610.7 | 1610.7 | 1620.9 | 1618.9 | 1623.0 | 1633.2 | 1633.2 | 1645.5 | 1649.6 | 1649.6 |
| 7.5°  | 1629.1 | 1647.5 | 1651.6 | 1661.9 | 1663.9 | 1672.1 | 1680.3 | 1682.3 | 1698.7 | 1702.8 | 1704.8 |
| 10°   | 1674.1 | 1696.7 | 1702.8 | 1713.0 | 1717.1 | 1725.3 | 1735.6 | 1739.6 | 1760.1 | 1762.1 | 1770.4 |
| 12.5° | 1729.4 | 1753.9 | 1760.1 | 1772.4 | 1774.4 | 1784.6 | 1799.0 | 1803.1 | 1823.5 | 1829.7 | 1835.8 |
| 15°   | 1782.6 | 1805.1 | 1815.3 | 1827.6 | 1829.7 | 1842.0 | 1854.2 | 1858.3 | 1876.8 | 1884.9 | 1891.1 |
| 17.5° | 1819.4 | 1846.0 | 1852.2 | 1868.6 | 1868.6 | 1878.8 | 1891.1 | 1895.2 | 1913.6 | 1919.7 | 1923.8 |
| 20°   | 1827.6 | 1852.2 | 1860.4 | 1872.7 | 1874.7 | 1880.8 | 1891.1 | 1895.2 | 1911.6 | 1913.6 | 1919.7 |
| 22.5° | 1796.9 | 1821.5 | 1825.6 | 1837.9 | 1839.9 | 1846.0 | 1854.2 | 1852.2 | 1872.7 | 1870.6 | 1872.7 |
| 25°   | 1731.5 | 1753.9 | 1753.9 | 1768.3 | 1766.3 | 1772.4 | 1776.4 | 1774.4 | 1792.8 | 1792.8 | 1792.8 |
| 27.5° | 1637.3 | 1657.8 | 1659.8 | 1670.0 | 1663.9 | 1666.0 | 1670.0 | 1668.0 | 1680.3 | 1680.3 | 1680.3 |
| 30°   | 1520.7 | 1537.0 | 1530.8 | 1539.0 | 1534.9 | 1539.0 | 1534.9 | 1532.9 | 1537.0 | 1541.1 | 1539.0 |
| 32.5° | 1375.3 | 1387.6 | 1387.6 | 1389.6 | 1389.6 | 1377.4 | 1373.3 | 1373.3 | 1371.2 | 1369.2 | 1369.2 |
| 35°   | 1207.5 | 1217.7 | 1213.6 | 1213.6 | 1211.6 | 1199.3 | 1193.2 | 1189.1 | 1195.2 | 1182.9 | 1191.1 |
| 37.5° | 1035.6 | 1037.6 | 1031.5 | 1029.5 | 1019.2 | 1019.2 | 1009.0 | 1000.8 | 1004.9 | 1002.8 | 994.7  |
| 40°   | 847.3  | 855.5  | 843.2  | 839.1  | 845.3  | 837.0  | 826.8  | 816.6  | 824.8  | 814.6  | 818.7  |
| 42.5° | 663.1  | 661.0  | 656.9  | 656.9  | 656.9  | 644.7  | 642.7  | 640.6  | 642.7  | 634.5  | 628.3  |
| 45°   | 478.9  | 472.8  | 466.7  | 466.7  | 458.4  | 454.3  | 454.3  | 448.2  | 438.0  | 438.0  | 425.7  |
| 47.5° | 323.4  | 309.0  | 304.9  | 302.9  | 298.8  | 298.8  | 294.8  | 290.6  | 288.6  | 278.3  | 278.3  |
| 50°   | 210.8  | 196.4  | 192.4  | 190.4  | 192.4  | 188.3  | 184.2  | 180.1  | 176.0  | 174.0  | 169.9  |
| 52.5° | 126.9  | 120.8  | 116.7  | 114.6  | 110.5  | 108.5  | 106.4  | 102.3  | 100.3  | 100.3  | 98.2   |
| 55°   | 75.7   | 69.6   | 61.4   | 61.4   | 61.4   | 59.3   | 57.3   | 55.2   | 53.2   | 53.2   | 51.2   |
| 57.5° | 47.1   | 43.0   | 38.9   | 36.8   | 36.8   | 36.8   | 34.8   | 34.8   | 34.8   | 34.8   | 32.7   |
| 60°   | 34.8   | 30.7   | 28.6   | 28.6   | 28.6   | 26.6   | 26.6   | 26.6   | 26.6   | 24.5   | 24.5   |
| 62.5° | 26.6   | 24.5   | 22.5   | 22.5   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 18.4   |
| 65°   | 22.5   | 18.4   | 18.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 67.5° | 16.4   | 14.4   | 14.4   | 14.4   | 14.4   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   |
| 70°   | 12.3   | 12.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   |
| 72.5° | 10.3   | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 75°   | 8.2    | 8.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 77.5° | 6.2    | 6.2    | 6.2    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 80°   | 4.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



TEST NUMBER: P858715

CATALOG NUMBER: LD4C35W2N2050D010 4LBSWNL1\_2000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 | 1567.7 |
| 2.5°  | 1604.5 | 1614.8 | 1604.5 | 1604.5 | 1610.7 | 1608.6 | 1612.7 | 1606.6 |
| 5°    | 1651.6 | 1666.0 | 1655.7 | 1653.7 | 1663.9 | 1661.9 | 1663.9 | 1659.8 |
| 7.5°  | 1708.9 | 1723.3 | 1713.0 | 1713.0 | 1723.3 | 1721.2 | 1727.4 | 1723.3 |
| 10°   | 1774.4 | 1790.8 | 1776.4 | 1778.5 | 1792.8 | 1790.8 | 1790.8 | 1790.8 |
| 12.5° | 1842.0 | 1858.3 | 1850.1 | 1850.1 | 1860.4 | 1862.4 | 1864.5 | 1862.4 |
| 15°   | 1897.2 | 1913.6 | 1903.4 | 1903.4 | 1917.7 | 1915.6 | 1917.7 | 1915.6 |
| 17.5° | 1929.9 | 1946.4 | 1934.1 | 1934.1 | 1946.4 | 1946.4 | 1948.4 | 1950.4 |
| 20°   | 1921.7 | 1940.2 | 1929.9 | 1925.8 | 1940.2 | 1940.2 | 1938.2 | 1938.2 |
| 22.5° | 1874.7 | 1891.1 | 1882.9 | 1878.8 | 1889.0 | 1884.9 | 1882.9 | 1884.9 |
| 25°   | 1792.8 | 1809.2 | 1792.8 | 1792.8 | 1801.0 | 1799.0 | 1801.0 | 1799.0 |
| 27.5° | 1682.3 | 1694.6 | 1678.2 | 1676.1 | 1684.4 | 1680.3 | 1678.2 | 1684.4 |
| 30°   | 1534.9 | 1547.2 | 1539.0 | 1532.9 | 1543.1 | 1537.0 | 1532.9 | 1534.9 |
| 32.5° | 1367.1 | 1375.3 | 1371.2 | 1361.0 | 1367.1 | 1363.0 | 1361.0 | 1363.0 |
| 35°   | 1182.9 | 1193.2 | 1176.8 | 1174.8 | 1185.0 | 1176.8 | 1172.7 | 1182.9 |
| 37.5° | 992.6  | 1004.9 | 990.6  | 992.6  | 986.5  | 988.5  | 984.4  | 990.6  |
| 40°   | 812.5  | 810.5  | 806.4  | 804.3  | 806.4  | 800.2  | 804.3  | 798.2  |
| 42.5° | 618.0  | 622.1  | 620.1  | 618.0  | 620.1  | 612.0  | 607.9  | 616.0  |
| 45°   | 429.8  | 427.8  | 423.7  | 419.5  | 419.5  | 417.5  | 417.5  | 411.3  |
| 47.5° | 276.3  | 274.2  | 266.0  | 268.1  | 272.2  | 268.1  | 262.0  | 270.1  |
| 50°   | 167.8  | 165.7  | 165.7  | 163.7  | 167.8  | 163.7  | 159.6  | 159.6  |
| 52.5° | 94.1   | 94.1   | 92.1   | 92.1   | 92.1   | 92.1   | 90.0   | 88.0   |
| 55°   | 51.2   | 49.2   | 49.2   | 49.2   | 47.1   | 47.1   | 47.1   | 47.1   |
| 57.5° | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 30.7   | 30.7   |
| 60°   | 24.5   | 24.5   | 24.5   | 24.5   | 22.5   | 24.5   | 22.5   | 22.5   |
| 62.5° | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   |
| 65°   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   |
| 67.5° | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   |
| 70°   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   |
| 72.5° | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 75°   | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 77.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)