

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: P879429

Luminaire Tested: **LD4C45D010 EU4459027 4LBLDWWLI**

Issue Date: 10/1/2024

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



Test Information

Test Method: LM-79-08
Report Number: P879429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459027 4LBLDWWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

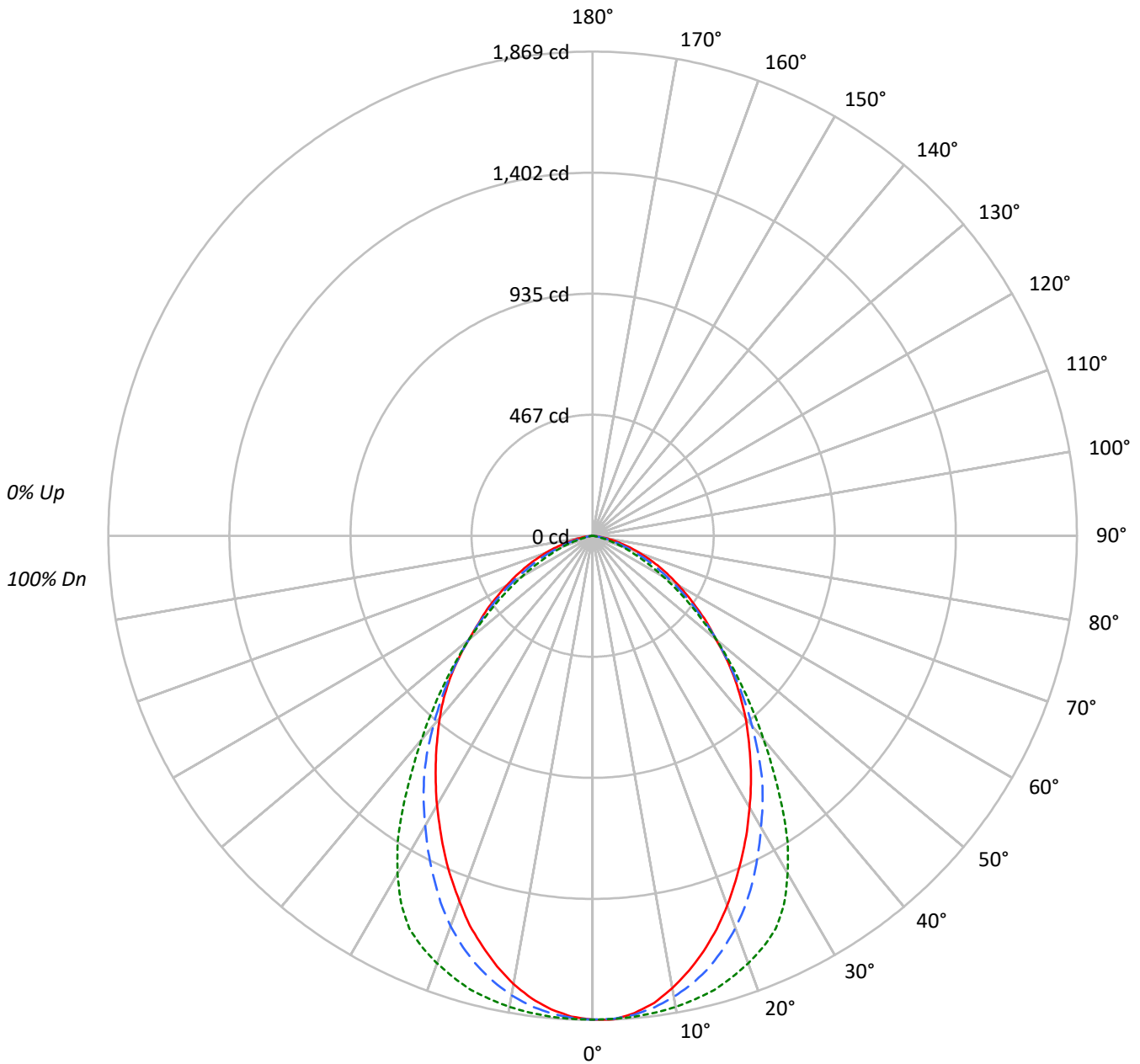
Lumens per Lamp: N/A
Luminaire Lumens: 3430.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P879429

CATALOG NUMBER: LD4C45D010 EU4459027 4LBLDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P879429

CATALOG NUMBER: LD4C45D010 EU4459027 4LBLDWWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | 88 |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | 67 |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | 59 |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | 53 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 229441 | 229441 | 229441 |
| 5° | 228085 | 229800 | 226359 |
| 10° | 221130 | 230373 | 219221 |
| 15° | 210978 | 230870 | 208663 |
| 20° | 198512 | 229563 | 196316 |
| 25° | 184895 | 226836 | 183391 |
| 30° | 171805 | 213611 | 170415 |
| 35° | 159320 | 191055 | 158165 |
| 40° | 147287 | 164768 | 147175 |
| 45° | 134215 | 140643 | 135310 |
| 50° | 118536 | 118938 | 119205 |
| 55° | 106216 | 97242 | 106666 |
| 60° | 93860 | 77226 | 94032 |
| 65° | 82645 | 58866 | 81831 |
| 70° | 68499 | 42134 | 68499 |
| 75° | 53353 | 24208 | 51407 |
| 80° | 34596 | 5943 | 33110 |
| 85° | 12827 | 1973 | 9867 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.3 | 5.1 |
| 10°-20° | 485.1 | 14.1 |
| 20°-30° | 678.0 | 19.8 |
| 30°-40° | 715.2 | 20.9 |
| 40°-50° | 608.5 | 17.7 |
| 50°-60° | 429.4 | 12.5 |
| 60°-70° | 243.4 | 7.1 |
| 70°-80° | 86.8 | 2.5 |
| 80°-90° | 8.3 | 0.2 |
| 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° | 1338.4 | 39.0 |
| 0°-40° | 2053.6 | 59.9 |
| 0°-60° | 3091.5 | 90.1 |
| 0°-90° | 3430.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3430.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1868 | 1868 | 1868 | 1868 | 1868 | |
| 5° | 1850 | 1856 | 1863 | 1850 | 1836 | 174 |
| 15° | 1659 | 1729 | 1815 | 1719 | 1641 | 465 |
| 25° | 1364 | 1466 | 1673 | 1453 | 1353 | 628 |
| 35° | 1062 | 1139 | 1274 | 1133 | 1055 | 664 |
| 45° | 772 | 784 | 810 | 787 | 779 | 594 |
| 55° | 496 | 479 | 454 | 480 | 498 | 445 |
| 65° | 284 | 244 | 202 | 244 | 282 | 282 |
| 75° | 112 | 77 | 51 | 75 | 108 | 122 |
| 85° | 9 | 4 | 1 | 4 | 7 | 16 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P879429

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 |
| 2.5° | 1869.0 | 1865.5 | 1865.5 | 1865.5 | 1865.5 | 1865.5 | 1865.5 | 1865.5 | 1865.5 | 1866.2 | 1866.2 |
| 5° | 1849.5 | 1848.1 | 1847.4 | 1847.4 | 1847.4 | 1847.4 | 1848.1 | 1850.9 | 1852.2 | 1854.3 | 1855.7 |
| 7.5° | 1818.7 | 1815.9 | 1817.3 | 1817.3 | 1818.7 | 1820.1 | 1822.2 | 1825.0 | 1829.2 | 1832.0 | 1835.5 |
| 10° | 1772.6 | 1769.8 | 1773.3 | 1774.7 | 1778.9 | 1781.0 | 1784.5 | 1788.7 | 1797.1 | 1801.3 | 1806.9 |
| 12.5° | 1718.8 | 1717.5 | 1718.8 | 1724.4 | 1728.6 | 1731.4 | 1735.6 | 1744.7 | 1753.1 | 1762.2 | 1771.9 |
| 15° | 1658.8 | 1655.3 | 1657.4 | 1664.4 | 1671.4 | 1676.2 | 1679.7 | 1691.6 | 1702.8 | 1716.8 | 1728.6 |
| 17.5° | 1591.7 | 1586.8 | 1592.4 | 1598.0 | 1607.1 | 1611.3 | 1616.2 | 1629.4 | 1644.8 | 1660.2 | 1673.4 |
| 20° | 1518.4 | 1517.0 | 1520.5 | 1528.2 | 1537.3 | 1542.8 | 1547.0 | 1561.7 | 1575.0 | 1595.9 | 1611.3 |
| 22.5° | 1442.3 | 1443.7 | 1446.5 | 1454.8 | 1461.1 | 1468.8 | 1475.1 | 1488.4 | 1503.7 | 1523.3 | 1542.8 |
| 25° | 1364.0 | 1366.1 | 1371.0 | 1376.6 | 1387.1 | 1391.3 | 1399.0 | 1412.9 | 1426.2 | 1444.4 | 1466.0 |
| 27.5° | 1288.6 | 1289.3 | 1294.9 | 1297.7 | 1307.5 | 1316.5 | 1320.0 | 1334.7 | 1350.1 | 1364.0 | 1382.9 |
| 30° | 1211.1 | 1213.2 | 1216.7 | 1224.4 | 1234.1 | 1237.6 | 1241.8 | 1255.1 | 1267.0 | 1284.4 | 1299.1 |
| 32.5° | 1137.1 | 1135.7 | 1139.8 | 1144.0 | 1155.2 | 1161.5 | 1163.6 | 1179.0 | 1189.4 | 1206.9 | 1220.9 |
| 35° | 1062.3 | 1058.8 | 1065.1 | 1069.3 | 1079.1 | 1084.7 | 1087.5 | 1099.3 | 1109.1 | 1123.8 | 1139.1 |
| 37.5° | 987.6 | 990.4 | 993.2 | 996.7 | 1001.6 | 1003.0 | 1011.3 | 1014.1 | 1026.7 | 1037.9 | 1046.3 |
| 40° | 918.4 | 917.0 | 915.6 | 919.1 | 925.4 | 928.2 | 928.9 | 936.6 | 939.4 | 950.6 | 956.9 |
| 42.5° | 844.4 | 845.1 | 844.4 | 845.1 | 848.6 | 848.6 | 850.7 | 855.6 | 857.7 | 861.2 | 868.9 |
| 45° | 772.5 | 772.5 | 770.4 | 771.1 | 771.8 | 771.1 | 771.8 | 773.9 | 778.1 | 778.1 | 783.6 |
| 47.5° | 697.7 | 696.3 | 699.1 | 697.0 | 695.6 | 694.9 | 697.0 | 694.9 | 699.1 | 699.1 | 700.5 |
| 50° | 620.2 | 620.2 | 623.7 | 623.0 | 624.4 | 621.6 | 622.3 | 622.3 | 623.0 | 622.3 | 625.1 |
| 52.5° | 560.1 | 558.7 | 557.4 | 553.9 | 555.3 | 552.5 | 552.5 | 553.2 | 551.1 | 550.4 | 546.9 |
| 55° | 495.9 | 497.3 | 495.2 | 493.8 | 493.8 | 491.0 | 490.3 | 486.1 | 483.3 | 481.2 | 479.1 |
| 57.5° | 437.9 | 439.3 | 438.6 | 435.1 | 430.9 | 431.6 | 430.2 | 426.0 | 419.8 | 415.6 | 412.1 |
| 60° | 382.0 | 383.4 | 382.0 | 378.6 | 377.2 | 374.4 | 373.7 | 368.1 | 363.2 | 357.6 | 353.4 |
| 62.5° | 331.8 | 331.8 | 331.1 | 326.2 | 322.7 | 323.4 | 319.9 | 315.7 | 309.4 | 301.7 | 295.4 |
| 65° | 284.3 | 283.6 | 280.1 | 278.0 | 275.2 | 271.7 | 269.6 | 263.3 | 258.4 | 252.1 | 243.8 |
| 67.5° | 236.8 | 234.7 | 233.3 | 231.2 | 224.9 | 224.2 | 221.4 | 215.8 | 208.8 | 203.9 | 197.0 |
| 70° | 190.7 | 190.0 | 187.2 | 187.2 | 182.3 | 180.2 | 176.0 | 171.1 | 164.8 | 157.8 | 152.3 |
| 72.5° | 150.9 | 149.5 | 146.7 | 143.9 | 139.7 | 138.3 | 134.8 | 129.9 | 124.3 | 117.3 | 110.4 |
| 75° | 112.4 | 111.1 | 110.4 | 106.9 | 103.4 | 99.9 | 98.5 | 93.6 | 88.0 | 83.1 | 76.8 |
| 77.5° | 78.9 | 77.5 | 75.4 | 73.3 | 71.2 | 69.1 | 67.0 | 62.9 | 58.0 | 53.8 | 48.2 |
| 80° | 48.9 | 47.5 | 46.1 | 45.4 | 43.3 | 42.6 | 39.8 | 37.7 | 33.5 | 30.7 | 27.2 |
| 82.5° | 25.1 | 25.1 | 23.7 | 23.0 | 21.7 | 21.0 | 20.3 | 18.2 | 16.1 | 14.0 | 11.9 |
| 85° | 9.1 | 9.1 | 8.4 | 7.7 | 7.7 | 7.0 | 7.0 | 6.3 | 4.9 | 4.9 | 3.5 |
| 87.5° | 0.7 | 0.7 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 |
| 2.5° | 1866.9 | 1866.2 | 1866.9 | 1866.9 | 1867.6 | 1867.6 | 1867.6 | 1866.9 | 1867.6 | 1866.9 | 1866.9 |
| 5° | 1855.7 | 1857.8 | 1859.2 | 1860.6 | 1861.3 | 1862.0 | 1862.0 | 1862.7 | 1863.4 | 1863.4 | 1862.7 |
| 7.5° | 1838.3 | 1842.5 | 1846.7 | 1849.5 | 1850.9 | 1852.2 | 1854.3 | 1855.7 | 1857.1 | 1856.4 | 1855.7 |
| 10° | 1815.2 | 1822.2 | 1827.8 | 1833.4 | 1836.2 | 1838.3 | 1841.8 | 1844.6 | 1846.0 | 1846.7 | 1844.6 |
| 12.5° | 1782.4 | 1792.2 | 1801.3 | 1810.3 | 1814.5 | 1817.3 | 1824.3 | 1829.2 | 1832.0 | 1832.0 | 1829.9 |
| 15° | 1741.2 | 1755.2 | 1768.4 | 1780.3 | 1787.3 | 1791.5 | 1802.0 | 1808.9 | 1813.1 | 1815.2 | 1811.7 |
| 17.5° | 1691.6 | 1707.7 | 1723.7 | 1739.1 | 1746.1 | 1752.4 | 1767.0 | 1776.8 | 1785.9 | 1787.3 | 1783.1 |
| 20° | 1628.1 | 1648.3 | 1666.5 | 1685.3 | 1693.0 | 1702.8 | 1719.5 | 1735.6 | 1749.6 | 1755.9 | 1744.0 |
| 22.5° | 1556.8 | 1579.2 | 1595.9 | 1619.0 | 1629.4 | 1639.9 | 1661.6 | 1681.8 | 1706.3 | 1719.5 | 1698.6 |
| 25° | 1482.8 | 1501.6 | 1521.9 | 1544.2 | 1558.9 | 1570.1 | 1595.2 | 1621.1 | 1653.9 | 1673.4 | 1644.1 |
| 27.5° | 1403.2 | 1419.9 | 1444.4 | 1468.8 | 1480.0 | 1494.0 | 1524.0 | 1551.9 | 1583.4 | 1600.8 | 1579.2 |
| 30° | 1320.7 | 1341.7 | 1364.7 | 1387.1 | 1403.2 | 1416.4 | 1440.9 | 1464.6 | 1491.2 | 1505.8 | 1489.8 |
| 32.5° | 1239.0 | 1259.3 | 1278.8 | 1303.3 | 1312.4 | 1324.2 | 1345.9 | 1366.1 | 1386.4 | 1399.7 | 1380.8 |
| 35° | 1153.1 | 1171.3 | 1189.4 | 1206.2 | 1210.4 | 1224.4 | 1241.8 | 1253.7 | 1263.5 | 1273.9 | 1261.4 |
| 37.5° | 1059.5 | 1073.5 | 1082.6 | 1100.7 | 1107.7 | 1109.8 | 1123.8 | 1132.2 | 1142.6 | 1144.7 | 1144.0 |
| 40° | 964.5 | 977.1 | 984.8 | 996.0 | 1001.6 | 1001.6 | 1011.3 | 1019.0 | 1026.7 | 1027.4 | 1026.7 |
| 42.5° | 875.8 | 882.1 | 888.4 | 895.4 | 894.0 | 902.4 | 906.6 | 910.1 | 915.6 | 915.6 | 917.0 |
| 45° | 786.4 | 791.3 | 796.9 | 798.3 | 803.9 | 803.9 | 807.4 | 808.8 | 811.6 | 809.5 | 806.7 |
| 47.5° | 703.3 | 705.4 | 706.1 | 712.4 | 713.8 | 708.9 | 713.1 | 713.8 | 713.1 | 713.1 | 711.7 |
| 50° | 624.4 | 625.8 | 625.1 | 623.0 | 623.7 | 625.8 | 623.7 | 620.9 | 622.3 | 622.3 | 623.7 |
| 52.5° | 547.6 | 544.8 | 543.4 | 543.4 | 540.6 | 540.6 | 537.1 | 535.7 | 535.0 | 532.2 | 535.7 |
| 55° | 477.0 | 472.8 | 466.6 | 465.2 | 463.1 | 462.4 | 458.2 | 454.7 | 453.3 | 454.0 | 453.3 |
| 57.5° | 409.3 | 403.0 | 398.8 | 397.4 | 395.3 | 391.1 | 386.2 | 382.7 | 382.0 | 380.6 | 380.6 |
| 60° | 347.8 | 340.8 | 334.6 | 328.3 | 329.0 | 326.2 | 321.3 | 319.2 | 317.1 | 314.3 | 316.4 |
| 62.5° | 291.9 | 284.3 | 277.3 | 271.0 | 266.8 | 264.7 | 261.2 | 257.7 | 255.6 | 253.5 | 256.3 |
| 65° | 236.8 | 230.5 | 222.8 | 216.5 | 214.4 | 212.3 | 208.8 | 203.2 | 202.5 | 202.5 | 203.9 |
| 67.5° | 187.2 | 180.2 | 173.2 | 169.0 | 166.2 | 163.4 | 162.0 | 159.2 | 157.1 | 155.8 | 156.4 |
| 70° | 143.9 | 136.9 | 131.3 | 127.1 | 125.0 | 124.3 | 119.4 | 118.7 | 118.0 | 117.3 | 116.6 |
| 72.5° | 104.8 | 99.2 | 94.3 | 91.5 | 88.7 | 86.6 | 85.2 | 83.1 | 82.4 | 82.4 | 82.4 |
| 75° | 71.9 | 67.7 | 62.2 | 58.7 | 57.3 | 55.2 | 53.1 | 51.7 | 50.3 | 51.0 | 51.0 |
| 77.5° | 43.3 | 39.1 | 35.6 | 32.8 | 32.1 | 30.0 | 27.9 | 26.5 | 24.4 | 24.4 | 25.1 |
| 80° | 23.7 | 20.3 | 17.5 | 15.4 | 14.0 | 13.3 | 11.2 | 10.5 | 9.1 | 8.4 | 8.4 |
| 82.5° | 10.5 | 8.4 | 7.0 | 6.3 | 5.6 | 4.9 | 4.2 | 3.5 | 3.5 | 2.8 | 3.5 |
| 85° | 3.5 | 2.8 | 2.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 87.5° | 0.7 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 |
| 2.5° | 1866.2 | 1866.2 | 1865.5 | 1865.5 | 1865.5 | 1864.1 | 1864.1 | 1863.4 | 1862.7 | 1862.0 | 1860.6 |
| 5° | 1861.3 | 1860.6 | 1859.2 | 1858.5 | 1857.8 | 1855.7 | 1853.6 | 1852.2 | 1850.2 | 1847.4 | 1846.0 |
| 7.5° | 1854.3 | 1852.2 | 1849.5 | 1848.1 | 1846.0 | 1841.1 | 1837.6 | 1834.1 | 1830.6 | 1825.7 | 1820.1 |
| 10° | 1842.5 | 1838.3 | 1834.1 | 1831.3 | 1827.8 | 1821.5 | 1814.5 | 1808.9 | 1801.3 | 1794.3 | 1786.6 |
| 12.5° | 1825.7 | 1820.8 | 1812.4 | 1808.2 | 1804.1 | 1795.0 | 1785.9 | 1774.0 | 1763.5 | 1753.8 | 1744.7 |
| 15° | 1804.8 | 1795.7 | 1785.9 | 1780.3 | 1774.0 | 1759.4 | 1745.4 | 1732.8 | 1718.8 | 1707.0 | 1692.3 |
| 17.5° | 1774.0 | 1760.8 | 1746.8 | 1740.5 | 1732.1 | 1715.4 | 1698.6 | 1681.1 | 1665.1 | 1650.4 | 1632.2 |
| 20° | 1727.9 | 1713.3 | 1695.1 | 1685.3 | 1678.3 | 1656.0 | 1639.9 | 1620.4 | 1603.6 | 1585.4 | 1565.2 |
| 22.5° | 1674.1 | 1653.9 | 1633.6 | 1619.7 | 1612.0 | 1589.6 | 1568.0 | 1550.5 | 1532.4 | 1511.4 | 1496.7 |
| 25° | 1613.4 | 1588.2 | 1563.8 | 1549.8 | 1538.0 | 1514.2 | 1493.3 | 1475.1 | 1452.7 | 1434.6 | 1419.9 |
| 27.5° | 1544.9 | 1516.3 | 1487.7 | 1473.7 | 1462.5 | 1436.7 | 1414.3 | 1395.5 | 1373.8 | 1357.8 | 1342.4 |
| 30° | 1463.2 | 1437.4 | 1410.1 | 1399.0 | 1385.7 | 1359.2 | 1333.3 | 1316.5 | 1292.8 | 1276.0 | 1259.3 |
| 32.5° | 1361.2 | 1344.5 | 1322.8 | 1307.5 | 1300.5 | 1276.0 | 1254.4 | 1234.1 | 1213.9 | 1200.6 | 1183.8 |
| 35° | 1249.5 | 1234.8 | 1216.7 | 1208.3 | 1199.2 | 1183.8 | 1166.4 | 1148.9 | 1132.9 | 1120.3 | 1104.9 |
| 37.5° | 1136.4 | 1121.7 | 1110.5 | 1101.4 | 1095.8 | 1081.9 | 1071.4 | 1058.1 | 1047.0 | 1035.1 | 1026.7 |
| 40° | 1019.0 | 1014.8 | 1003.0 | 998.8 | 997.4 | 982.0 | 972.9 | 962.4 | 955.5 | 948.5 | 943.6 |
| 42.5° | 914.9 | 908.0 | 898.9 | 899.6 | 895.4 | 887.0 | 880.7 | 873.7 | 868.9 | 865.4 | 860.5 |
| 45° | 812.3 | 806.7 | 802.5 | 806.0 | 799.0 | 796.2 | 791.3 | 790.6 | 787.1 | 780.9 | 778.8 |
| 47.5° | 714.5 | 713.8 | 714.5 | 712.4 | 711.0 | 709.6 | 710.3 | 706.8 | 703.3 | 701.2 | 698.4 |
| 50° | 625.1 | 625.8 | 627.2 | 629.3 | 624.4 | 626.5 | 625.8 | 625.1 | 625.1 | 623.0 | 624.4 |
| 52.5° | 538.5 | 539.2 | 540.6 | 542.7 | 543.4 | 543.4 | 545.5 | 546.9 | 549.7 | 553.2 | 553.2 |
| 55° | 456.8 | 461.7 | 464.5 | 468.0 | 465.9 | 470.0 | 472.1 | 478.4 | 480.5 | 480.5 | 483.3 |
| 57.5° | 384.1 | 389.0 | 391.1 | 395.3 | 396.7 | 400.2 | 405.8 | 409.3 | 414.2 | 418.4 | 422.6 |
| 60° | 317.8 | 319.9 | 325.5 | 331.8 | 330.4 | 338.7 | 342.9 | 348.5 | 354.8 | 357.6 | 363.2 |
| 62.5° | 258.4 | 261.2 | 265.4 | 267.5 | 272.4 | 276.6 | 286.4 | 291.9 | 297.5 | 304.5 | 310.1 |
| 65° | 205.3 | 208.1 | 212.3 | 216.5 | 218.6 | 224.9 | 229.8 | 239.6 | 244.5 | 252.1 | 258.4 |
| 67.5° | 157.1 | 161.3 | 164.8 | 167.6 | 169.0 | 175.3 | 183.0 | 187.2 | 196.3 | 203.9 | 208.8 |
| 70° | 117.3 | 120.8 | 125.0 | 124.3 | 127.1 | 132.0 | 137.6 | 143.9 | 150.9 | 157.8 | 163.4 |
| 72.5° | 81.7 | 85.2 | 88.0 | 88.7 | 91.5 | 95.0 | 99.2 | 104.1 | 109.7 | 116.6 | 124.3 |
| 75° | 51.7 | 52.4 | 55.2 | 56.6 | 58.0 | 62.2 | 65.7 | 70.5 | 75.4 | 81.0 | 85.9 |
| 77.5° | 25.8 | 27.9 | 29.3 | 30.7 | 31.4 | 34.9 | 38.4 | 42.6 | 46.8 | 52.4 | 57.3 |
| 80° | 9.8 | 10.5 | 12.6 | 13.3 | 14.7 | 16.8 | 19.6 | 21.7 | 25.1 | 29.3 | 32.1 |
| 82.5° | 3.5 | 4.2 | 4.9 | 4.9 | 5.6 | 7.0 | 7.7 | 9.8 | 11.9 | 13.3 | 14.7 |
| 85° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.1 | 2.1 | 2.8 | 3.5 | 4.2 | 4.2 |
| 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: P879429

CATALOG NUMBER: LD4C45D010 EU4459027 4LBDWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 | 1867.6 |
| 2.5° | 1859.9 | 1859.9 | 1859.2 | 1858.5 | 1858.5 | 1858.5 | 1857.8 | 1857.8 |
| 5° | 1843.2 | 1841.1 | 1840.4 | 1839.0 | 1838.3 | 1837.6 | 1835.5 | 1835.5 |
| 7.5° | 1815.9 | 1813.1 | 1811.0 | 1808.9 | 1806.2 | 1804.1 | 1804.1 | 1801.3 |
| 10° | 1779.6 | 1774.0 | 1771.2 | 1768.4 | 1764.9 | 1760.8 | 1759.4 | 1757.3 |
| 12.5° | 1735.6 | 1724.4 | 1721.6 | 1716.8 | 1711.2 | 1708.4 | 1703.5 | 1703.5 |
| 15° | 1681.1 | 1669.3 | 1663.0 | 1660.2 | 1653.2 | 1648.3 | 1646.2 | 1640.6 |
| 17.5° | 1617.6 | 1608.5 | 1598.7 | 1594.5 | 1586.8 | 1580.6 | 1577.8 | 1577.1 |
| 20° | 1553.3 | 1538.7 | 1532.4 | 1526.1 | 1517.0 | 1511.4 | 1507.2 | 1501.6 |
| 22.5° | 1479.3 | 1466.0 | 1456.9 | 1452.7 | 1445.1 | 1435.3 | 1428.3 | 1428.3 |
| 25° | 1401.1 | 1389.2 | 1384.3 | 1375.2 | 1366.1 | 1362.6 | 1354.3 | 1352.9 |
| 27.5° | 1326.3 | 1314.5 | 1304.7 | 1299.8 | 1289.3 | 1284.4 | 1277.4 | 1274.6 |
| 30° | 1248.8 | 1234.8 | 1227.8 | 1227.1 | 1214.6 | 1209.7 | 1204.1 | 1201.3 |
| 32.5° | 1171.3 | 1159.4 | 1152.4 | 1148.2 | 1142.6 | 1134.3 | 1129.4 | 1126.6 |
| 35° | 1094.4 | 1086.8 | 1080.5 | 1075.6 | 1066.5 | 1062.3 | 1058.1 | 1054.6 |
| 37.5° | 1014.1 | 1007.1 | 1004.3 | 1000.2 | 996.0 | 988.3 | 986.9 | 984.1 |
| 40° | 936.6 | 927.5 | 927.5 | 924.7 | 920.5 | 919.8 | 917.7 | 917.7 |
| 42.5° | 855.6 | 851.4 | 850.7 | 851.4 | 848.6 | 847.2 | 845.1 | 850.0 |
| 45° | 775.3 | 777.4 | 773.9 | 774.6 | 773.2 | 776.0 | 776.0 | 778.8 |
| 47.5° | 701.2 | 698.4 | 699.8 | 701.2 | 703.3 | 703.3 | 702.6 | 701.9 |
| 50° | 622.3 | 625.1 | 627.9 | 624.4 | 625.8 | 626.5 | 623.0 | 623.7 |
| 52.5° | 554.6 | 555.3 | 557.4 | 555.3 | 557.4 | 556.7 | 558.0 | 555.3 |
| 55° | 488.9 | 488.9 | 491.7 | 492.4 | 493.1 | 495.2 | 495.9 | 498.0 |
| 57.5° | 425.3 | 428.8 | 432.3 | 431.6 | 434.4 | 437.2 | 435.1 | 437.2 |
| 60° | 370.2 | 373.0 | 376.5 | 377.9 | 379.9 | 381.3 | 381.3 | 382.7 |
| 62.5° | 314.3 | 319.9 | 322.7 | 325.5 | 325.5 | 328.3 | 331.1 | 331.8 |
| 65° | 264.0 | 270.3 | 272.4 | 274.5 | 275.9 | 278.7 | 282.2 | 281.5 |
| 67.5° | 216.5 | 220.7 | 223.5 | 224.9 | 229.1 | 230.5 | 233.3 | 236.1 |
| 70° | 169.7 | 175.3 | 177.4 | 180.2 | 183.7 | 186.5 | 189.3 | 190.7 |
| 72.5° | 129.9 | 134.1 | 135.5 | 138.3 | 141.8 | 144.6 | 146.0 | 148.1 |
| 75° | 90.8 | 97.8 | 98.5 | 100.6 | 103.4 | 106.9 | 109.0 | 108.3 |
| 77.5° | 60.1 | 65.0 | 65.7 | 68.4 | 71.2 | 74.0 | 74.7 | 75.4 |
| 80° | 35.6 | 38.4 | 39.1 | 40.5 | 42.6 | 44.0 | 45.4 | 46.8 |
| 82.5° | 16.8 | 18.2 | 19.6 | 19.6 | 21.0 | 22.3 | 22.3 | 23.0 |
| 85° | 5.6 | 5.6 | 6.3 | 6.3 | 7.0 | 7.0 | 7.7 | 7.0 |
| 87.5° | 0.7 | 0.7 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)