

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: P879434

Luminaire Tested: **LD4C45D010 EU4459040 4LBDWWH**

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: P879434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459040 4LBLDWWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

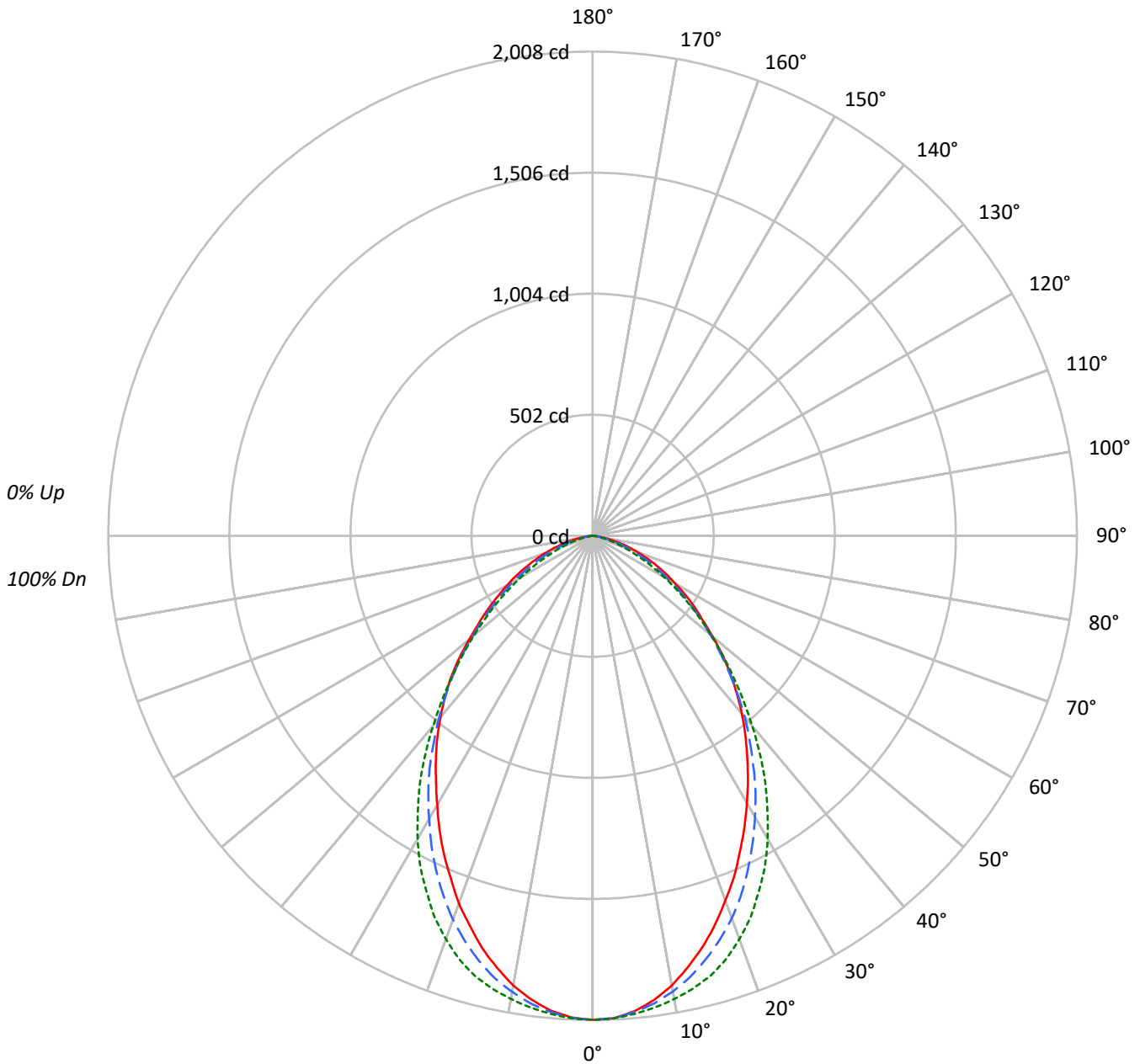
Lumens per Lamp: N/A
Luminaire Lumens: 3591.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P879434

CATALOG NUMBER: LD4C45D010 EU4459040 4LBLDWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | 87 | 84 | 80 | 84 | 81 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 73 | 92 | 84 | 78 | 73 | 81 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 63 | 74 | 68 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 246653 | 246653 | 246653 |
| 5° | 244130 | 245499 | 243858 |
| 10° | 236199 | 243372 | 236286 |
| 15° | 224409 | 240257 | 225160 |
| 20° | 210331 | 232687 | 212070 |
| 25° | 195889 | 220776 | 197692 |
| 30° | 181466 | 205937 | 182828 |
| 35° | 167419 | 187201 | 169953 |
| 40° | 154424 | 164944 | 157263 |
| 45° | 139879 | 142954 | 144118 |
| 50° | 124003 | 122454 | 127099 |
| 55° | 110543 | 103132 | 113070 |
| 60° | 96735 | 83688 | 100371 |
| 65° | 84651 | 64738 | 87674 |
| 70° | 71229 | 47414 | 74965 |
| 75° | 55631 | 30806 | 58812 |
| 80° | 36506 | 16201 | 40185 |
| 85° | 12404 | 7330 | 16633 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.4 | 5.2 |
| 10°-20° | 512.1 | 14.3 |
| 20°-30° | 704.3 | 19.6 |
| 30°-40° | 734.7 | 20.5 |
| 40°-50° | 628.6 | 17.5 |
| 50°-60° | 449.6 | 12.5 |
| 60°-70° | 260.9 | 7.3 |
| 70°-80° | 100.6 | 2.8 |
| 80°-90° | 12.8 | 0.4 |
| 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° | 1403.8 | 39.1 |
| 0°-40° | 2138.5 | 59.6 |
| 0°-60° | 3216.7 | 89.6 |
| 0°-90° | 3591.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3591.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2008 | 2008 | 2008 | 2008 | 2008 | |
| 5° | 1980 | 1983 | 1991 | 1983 | 1977 | 186 |
| 15° | 1764 | 1817 | 1889 | 1824 | 1770 | 495 |
| 25° | 1445 | 1525 | 1629 | 1534 | 1458 | 665 |
| 35° | 1116 | 1160 | 1248 | 1179 | 1133 | 699 |
| 45° | 805 | 798 | 823 | 818 | 830 | 621 |
| 55° | 516 | 490 | 482 | 504 | 528 | 462 |
| 65° | 291 | 257 | 223 | 266 | 302 | 290 |
| 75° | 117 | 88 | 65 | 93 | 124 | 126 |
| 85° | 9 | 7 | 5 | 7 | 12 | 17 |
| 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° | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 |
| 2.5° | 2002.5 | 2001.0 | 2001.8 | 2001.8 | 2001.8 | 2001.0 | 2002.5 | 2002.5 | 2001.8 | 2001.8 | 2001.8 |
| 5° | 1979.6 | 1978.2 | 1978.9 | 1979.6 | 1979.6 | 1979.6 | 1980.4 | 1981.1 | 1981.9 | 1982.6 | 1983.3 |
| 7.5° | 1942.8 | 1940.6 | 1942.8 | 1945.7 | 1945.7 | 1946.5 | 1947.2 | 1947.9 | 1950.2 | 1953.8 | 1956.1 |
| 10° | 1893.4 | 1893.4 | 1894.1 | 1896.3 | 1900.0 | 1899.3 | 1901.5 | 1905.2 | 1909.6 | 1914.8 | 1918.5 |
| 12.5° | 1830.7 | 1832.2 | 1834.4 | 1836.6 | 1840.3 | 1842.5 | 1846.2 | 1850.6 | 1858.0 | 1865.4 | 1873.5 |
| 15° | 1764.4 | 1765.1 | 1765.8 | 1771.0 | 1774.7 | 1779.8 | 1782.8 | 1791.6 | 1798.3 | 1808.6 | 1817.4 |
| 17.5° | 1689.9 | 1689.2 | 1691.4 | 1695.8 | 1704.6 | 1706.8 | 1710.5 | 1720.1 | 1729.7 | 1743.7 | 1755.5 |
| 20° | 1608.8 | 1613.2 | 1616.2 | 1622.1 | 1627.2 | 1633.1 | 1636.1 | 1647.9 | 1658.9 | 1672.2 | 1687.7 |
| 22.5° | 1532.1 | 1528.4 | 1533.6 | 1540.2 | 1544.6 | 1549.1 | 1554.2 | 1566.8 | 1578.6 | 1594.8 | 1610.3 |
| 25° | 1445.1 | 1447.3 | 1451.0 | 1456.2 | 1462.1 | 1468.0 | 1473.9 | 1487.1 | 1493.8 | 1510.7 | 1524.7 |
| 27.5° | 1362.5 | 1366.2 | 1367.7 | 1374.3 | 1379.5 | 1383.9 | 1386.9 | 1402.3 | 1408.2 | 1423.0 | 1437.0 |
| 30° | 1279.2 | 1282.9 | 1282.9 | 1290.3 | 1294.0 | 1298.4 | 1305.8 | 1316.1 | 1324.9 | 1335.2 | 1345.6 |
| 32.5° | 1198.8 | 1198.8 | 1201.8 | 1208.4 | 1212.1 | 1217.3 | 1219.5 | 1226.9 | 1235.7 | 1246.0 | 1257.1 |
| 35° | 1116.3 | 1118.5 | 1121.4 | 1121.4 | 1128.1 | 1131.0 | 1134.0 | 1141.3 | 1147.2 | 1151.7 | 1160.5 |
| 37.5° | 1040.3 | 1040.3 | 1038.1 | 1041.8 | 1046.2 | 1045.5 | 1049.9 | 1053.6 | 1057.3 | 1062.4 | 1069.8 |
| 40° | 962.9 | 962.9 | 960.0 | 962.2 | 965.1 | 964.4 | 962.9 | 966.6 | 969.5 | 973.2 | 980.6 |
| 42.5° | 884.0 | 882.5 | 881.8 | 881.8 | 883.3 | 881.8 | 883.3 | 884.0 | 884.0 | 884.0 | 888.4 |
| 45° | 805.1 | 808.8 | 804.4 | 802.9 | 800.7 | 798.5 | 797.8 | 798.5 | 801.4 | 797.8 | 798.5 |
| 47.5° | 727.7 | 729.2 | 726.2 | 724.0 | 721.8 | 720.3 | 721.8 | 717.4 | 718.9 | 719.6 | 716.7 |
| 50° | 648.8 | 645.9 | 645.9 | 643.7 | 644.4 | 643.7 | 642.2 | 640.7 | 640.7 | 637.0 | 634.8 |
| 52.5° | 575.8 | 577.3 | 578.8 | 573.6 | 574.4 | 570.7 | 571.4 | 567.7 | 567.7 | 563.3 | 564.8 |
| 55° | 516.1 | 513.9 | 513.9 | 511.7 | 510.9 | 507.3 | 506.5 | 504.3 | 499.2 | 496.2 | 490.3 |
| 57.5° | 454.2 | 453.4 | 450.5 | 451.2 | 446.8 | 446.1 | 444.6 | 440.9 | 437.2 | 433.5 | 426.9 |
| 60° | 393.7 | 394.5 | 394.5 | 393.0 | 390.8 | 387.1 | 387.8 | 382.7 | 377.5 | 370.9 | 365.0 |
| 62.5° | 343.6 | 341.4 | 340.6 | 339.2 | 334.7 | 334.7 | 331.0 | 327.4 | 322.2 | 315.6 | 310.4 |
| 65° | 291.2 | 292.0 | 289.8 | 287.5 | 283.1 | 282.4 | 279.4 | 276.5 | 271.3 | 264.7 | 257.3 |
| 67.5° | 244.0 | 242.6 | 241.8 | 239.6 | 235.2 | 234.5 | 232.2 | 225.6 | 221.2 | 214.6 | 208.7 |
| 70° | 198.3 | 196.9 | 197.6 | 193.9 | 189.5 | 187.3 | 186.5 | 181.4 | 174.7 | 169.6 | 163.7 |
| 72.5° | 155.6 | 155.6 | 154.8 | 151.1 | 148.9 | 147.5 | 144.5 | 138.6 | 134.9 | 129.0 | 124.6 |
| 75° | 117.2 | 116.5 | 115.0 | 112.8 | 109.9 | 108.4 | 106.9 | 103.2 | 98.1 | 91.4 | 87.7 |
| 77.5° | 81.1 | 81.8 | 80.4 | 79.6 | 75.9 | 73.7 | 73.0 | 70.8 | 66.4 | 61.9 | 58.2 |
| 80° | 51.6 | 50.9 | 50.1 | 48.7 | 47.9 | 47.2 | 45.0 | 43.5 | 39.1 | 36.9 | 34.7 |
| 82.5° | 28.0 | 26.5 | 26.5 | 25.8 | 24.3 | 23.6 | 22.9 | 21.4 | 20.6 | 19.2 | 17.7 |
| 85° | 8.8 | 9.6 | 8.8 | 8.8 | 8.8 | 8.1 | 8.1 | 8.1 | 7.4 | 7.4 | 6.6 |
| 87.5° | 0.7 | 1.5 | 0.7 | 0.7 | 1.5 | 0.7 | 0.7 | 1.5 | 0.7 | 0.7 | 1.5 |
| 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° | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 |
| 2.5° | 2001.8 | 2002.5 | 2002.5 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 |
| 5° | 1985.5 | 1985.5 | 1987.0 | 1988.5 | 1988.5 | 1988.5 | 1989.2 | 1990.7 | 1990.7 | 1990.7 | 1990.0 |
| 7.5° | 1959.0 | 1962.0 | 1964.9 | 1967.9 | 1968.6 | 1969.3 | 1970.8 | 1973.7 | 1973.7 | 1973.7 | 1973.7 |
| 10° | 1924.3 | 1931.0 | 1934.7 | 1939.1 | 1941.3 | 1942.8 | 1947.2 | 1947.9 | 1950.2 | 1950.9 | 1950.2 |
| 12.5° | 1880.1 | 1889.0 | 1897.1 | 1904.4 | 1907.4 | 1910.3 | 1914.8 | 1919.2 | 1921.4 | 1923.6 | 1922.9 |
| 15° | 1830.7 | 1840.3 | 1852.8 | 1860.9 | 1866.8 | 1871.3 | 1877.9 | 1883.8 | 1887.5 | 1889.0 | 1889.0 |
| 17.5° | 1771.0 | 1782.8 | 1796.1 | 1809.3 | 1813.0 | 1820.4 | 1827.8 | 1835.9 | 1840.3 | 1841.0 | 1840.3 |
| 20° | 1704.6 | 1717.9 | 1729.0 | 1742.2 | 1750.3 | 1754.0 | 1764.4 | 1774.7 | 1779.1 | 1779.8 | 1779.1 |
| 22.5° | 1625.7 | 1638.3 | 1653.0 | 1667.0 | 1673.7 | 1680.3 | 1691.4 | 1701.7 | 1707.6 | 1712.0 | 1707.6 |
| 25° | 1538.0 | 1555.7 | 1569.7 | 1581.5 | 1591.1 | 1597.7 | 1611.7 | 1619.8 | 1629.4 | 1628.7 | 1629.4 |
| 27.5° | 1451.7 | 1466.5 | 1482.0 | 1496.0 | 1501.9 | 1509.3 | 1520.3 | 1533.6 | 1541.7 | 1546.9 | 1546.1 |
| 30° | 1363.3 | 1375.1 | 1388.3 | 1400.9 | 1410.5 | 1416.4 | 1432.6 | 1438.5 | 1448.8 | 1451.7 | 1449.5 |
| 32.5° | 1269.6 | 1277.7 | 1291.0 | 1308.0 | 1311.7 | 1317.6 | 1327.9 | 1342.6 | 1346.3 | 1347.8 | 1348.5 |
| 35° | 1170.1 | 1185.6 | 1196.6 | 1207.0 | 1209.9 | 1215.1 | 1226.9 | 1237.9 | 1241.6 | 1248.2 | 1245.3 |
| 37.5° | 1077.9 | 1086.8 | 1091.9 | 1102.3 | 1111.1 | 1115.5 | 1121.4 | 1128.8 | 1136.2 | 1139.1 | 1138.4 |
| 40° | 985.8 | 990.2 | 994.6 | 1005.7 | 1006.4 | 1006.4 | 1015.3 | 1025.6 | 1025.6 | 1028.5 | 1028.5 |
| 42.5° | 891.4 | 892.1 | 898.0 | 903.9 | 905.4 | 906.9 | 915.7 | 917.2 | 921.6 | 923.8 | 926.8 |
| 45° | 800.0 | 804.4 | 808.1 | 808.8 | 812.5 | 813.2 | 815.5 | 817.7 | 824.3 | 822.8 | 824.3 |
| 47.5° | 716.7 | 718.9 | 721.1 | 721.1 | 723.3 | 722.6 | 726.2 | 724.0 | 728.5 | 729.9 | 732.1 |
| 50° | 634.8 | 638.5 | 636.3 | 637.8 | 637.0 | 639.2 | 637.8 | 637.8 | 637.8 | 640.7 | 642.9 |
| 52.5° | 559.6 | 560.3 | 558.1 | 558.9 | 558.9 | 557.4 | 558.9 | 558.1 | 557.4 | 557.4 | 558.1 |
| 55° | 490.3 | 487.4 | 485.9 | 482.9 | 479.2 | 483.7 | 481.5 | 480.0 | 482.9 | 481.5 | 482.9 |
| 57.5° | 423.2 | 419.5 | 416.6 | 415.1 | 409.9 | 412.9 | 409.9 | 408.5 | 408.5 | 408.5 | 412.2 |
| 60° | 359.8 | 356.1 | 352.4 | 348.0 | 347.3 | 345.8 | 344.3 | 340.6 | 341.4 | 340.6 | 342.1 |
| 62.5° | 304.5 | 297.1 | 292.0 | 288.3 | 287.5 | 285.3 | 283.1 | 279.4 | 280.2 | 280.2 | 280.9 |
| 65° | 253.6 | 245.5 | 238.1 | 233.0 | 233.0 | 229.3 | 225.6 | 225.6 | 221.2 | 222.7 | 223.4 |
| 67.5° | 202.8 | 196.1 | 188.7 | 185.1 | 182.9 | 179.9 | 177.7 | 176.2 | 174.0 | 174.0 | 175.5 |
| 70° | 157.0 | 150.4 | 146.7 | 140.8 | 140.1 | 137.9 | 134.9 | 132.7 | 132.0 | 132.0 | 131.2 |
| 72.5° | 118.7 | 112.8 | 108.4 | 104.7 | 102.5 | 100.3 | 97.3 | 96.6 | 95.1 | 95.1 | 96.6 |
| 75° | 82.6 | 78.9 | 75.2 | 71.5 | 70.0 | 69.3 | 67.1 | 65.6 | 65.6 | 64.9 | 65.6 |
| 77.5° | 55.3 | 51.6 | 47.9 | 46.4 | 45.0 | 43.5 | 42.8 | 42.0 | 39.8 | 39.8 | 39.8 |
| 80° | 31.7 | 30.2 | 28.8 | 26.5 | 26.5 | 25.8 | 24.3 | 23.6 | 22.9 | 22.9 | 22.9 |
| 82.5° | 16.2 | 15.5 | 14.0 | 13.3 | 13.3 | 13.3 | 12.5 | 12.5 | 11.8 | 11.8 | 11.8 |
| 85° | 6.6 | 5.9 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.9 | 5.2 | 5.9 |
| 87.5° | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 |
| 2.5° | 2003.2 | 2002.5 | 2002.5 | 2002.5 | 2002.5 | 2002.5 | 2001.8 | 2001.8 | 2001.0 | 2001.0 | 2001.0 |
| 5° | 1990.7 | 1990.0 | 1989.2 | 1988.5 | 1987.8 | 1987.0 | 1986.3 | 1985.5 | 1983.3 | 1982.6 | 1981.1 |
| 7.5° | 1973.0 | 1971.5 | 1969.3 | 1968.6 | 1967.1 | 1964.9 | 1962.0 | 1960.5 | 1957.5 | 1953.8 | 1952.4 |
| 10° | 1949.4 | 1946.5 | 1944.3 | 1940.6 | 1939.8 | 1936.9 | 1929.5 | 1925.8 | 1920.7 | 1916.2 | 1911.1 |
| 12.5° | 1920.7 | 1917.7 | 1912.6 | 1907.4 | 1904.4 | 1897.8 | 1891.2 | 1885.3 | 1878.6 | 1869.1 | 1861.7 |
| 15° | 1885.3 | 1880.8 | 1870.5 | 1869.1 | 1864.6 | 1854.3 | 1845.5 | 1834.4 | 1824.1 | 1813.8 | 1804.9 |
| 17.5° | 1838.1 | 1828.5 | 1823.3 | 1816.7 | 1811.5 | 1798.3 | 1788.7 | 1776.2 | 1762.1 | 1750.3 | 1737.8 |
| 20° | 1776.2 | 1765.8 | 1757.0 | 1753.3 | 1746.7 | 1734.9 | 1723.1 | 1707.6 | 1693.6 | 1678.8 | 1667.8 |
| 22.5° | 1702.4 | 1695.8 | 1682.5 | 1678.1 | 1670.0 | 1658.2 | 1644.2 | 1629.4 | 1616.2 | 1599.9 | 1585.2 |
| 25° | 1623.5 | 1613.9 | 1603.6 | 1594.8 | 1588.9 | 1577.8 | 1560.1 | 1549.1 | 1534.3 | 1516.6 | 1505.6 |
| 27.5° | 1539.5 | 1528.4 | 1513.7 | 1507.8 | 1502.6 | 1487.9 | 1473.1 | 1459.1 | 1447.3 | 1431.8 | 1422.2 |
| 30° | 1442.2 | 1434.0 | 1424.5 | 1417.1 | 1409.7 | 1397.9 | 1384.6 | 1368.4 | 1355.9 | 1348.5 | 1335.2 |
| 32.5° | 1343.4 | 1336.7 | 1324.2 | 1320.5 | 1312.4 | 1302.8 | 1293.2 | 1281.4 | 1268.2 | 1257.1 | 1246.8 |
| 35° | 1237.9 | 1231.3 | 1222.4 | 1215.8 | 1212.9 | 1206.2 | 1195.9 | 1185.6 | 1178.9 | 1166.4 | 1161.2 |
| 37.5° | 1132.5 | 1130.3 | 1121.4 | 1114.8 | 1112.6 | 1104.5 | 1099.3 | 1091.9 | 1082.4 | 1079.4 | 1073.5 |
| 40° | 1024.1 | 1022.6 | 1017.5 | 1016.7 | 1012.3 | 1010.1 | 1002.7 | 996.8 | 992.4 | 990.2 | 986.5 |
| 42.5° | 924.6 | 923.1 | 918.7 | 919.4 | 915.0 | 913.5 | 912.8 | 907.6 | 903.9 | 899.5 | 900.2 |
| 45° | 826.5 | 825.0 | 822.1 | 820.6 | 822.8 | 822.1 | 820.6 | 818.4 | 818.4 | 819.1 | 816.9 |
| 47.5° | 732.1 | 733.6 | 730.7 | 732.1 | 732.1 | 729.9 | 729.9 | 732.9 | 733.6 | 735.1 | 736.6 |
| 50° | 642.9 | 647.3 | 645.9 | 648.1 | 648.8 | 649.6 | 647.3 | 651.0 | 650.3 | 656.9 | 655.5 |
| 52.5° | 561.8 | 562.6 | 565.5 | 566.2 | 567.0 | 567.7 | 571.4 | 574.4 | 575.1 | 578.0 | 583.2 |
| 55° | 483.7 | 484.4 | 490.3 | 490.3 | 494.0 | 494.7 | 499.9 | 501.4 | 503.6 | 511.7 | 513.2 |
| 57.5° | 409.9 | 414.4 | 417.3 | 418.8 | 421.0 | 424.7 | 427.6 | 434.3 | 438.0 | 443.1 | 448.3 |
| 60° | 343.6 | 348.7 | 352.4 | 353.9 | 356.9 | 361.3 | 365.0 | 372.3 | 379.0 | 384.9 | 388.6 |
| 62.5° | 282.4 | 286.8 | 289.8 | 294.9 | 294.9 | 298.6 | 307.5 | 311.9 | 319.3 | 324.4 | 331.0 |
| 65° | 227.8 | 230.8 | 235.9 | 235.9 | 238.9 | 244.8 | 252.2 | 258.8 | 266.2 | 273.5 | 280.2 |
| 67.5° | 178.4 | 180.6 | 183.6 | 186.5 | 188.0 | 195.4 | 201.3 | 210.9 | 217.5 | 222.7 | 230.8 |
| 70° | 134.9 | 136.4 | 140.1 | 143.0 | 145.2 | 150.4 | 157.0 | 163.7 | 170.3 | 176.2 | 184.3 |
| 72.5° | 96.6 | 99.5 | 103.2 | 105.4 | 106.9 | 110.6 | 117.2 | 123.9 | 129.8 | 135.7 | 140.1 |
| 75° | 66.4 | 68.6 | 70.0 | 72.3 | 74.5 | 77.4 | 81.8 | 86.3 | 92.9 | 98.8 | 104.0 |
| 77.5° | 41.3 | 43.5 | 45.7 | 46.4 | 47.2 | 50.1 | 53.1 | 57.5 | 61.9 | 66.4 | 70.0 |
| 80° | 24.3 | 25.1 | 25.8 | 26.5 | 28.0 | 30.2 | 31.7 | 34.7 | 37.6 | 40.6 | 44.2 |
| 82.5° | 12.5 | 13.3 | 14.0 | 14.0 | 14.0 | 14.7 | 17.0 | 18.4 | 19.2 | 20.6 | 22.9 |
| 85° | 5.2 | 5.2 | 5.2 | 5.9 | 5.9 | 6.6 | 6.6 | 7.4 | 7.4 | 8.1 | 8.8 |
| 87.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 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: P879434

CATALOG NUMBER: LD4C45D010 EU4459040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 | 2007.7 |
| 2.5° | 2000.3 | 2000.3 | 2000.3 | 1999.6 | 2000.3 | 2000.3 | 2000.3 | 1999.6 |
| 5° | 1981.1 | 1979.6 | 1979.6 | 1978.9 | 1978.2 | 1978.2 | 1978.9 | 1977.4 |
| 7.5° | 1949.4 | 1947.2 | 1945.7 | 1945.7 | 1945.0 | 1944.3 | 1944.3 | 1940.6 |
| 10° | 1908.1 | 1903.7 | 1903.7 | 1902.2 | 1896.3 | 1895.6 | 1894.1 | 1894.1 |
| 12.5° | 1856.5 | 1851.4 | 1848.4 | 1844.7 | 1841.0 | 1838.1 | 1837.3 | 1834.4 |
| 15° | 1795.3 | 1788.7 | 1783.5 | 1782.1 | 1776.2 | 1771.7 | 1771.7 | 1770.3 |
| 17.5° | 1729.0 | 1718.6 | 1715.0 | 1711.3 | 1703.2 | 1702.4 | 1700.9 | 1694.3 |
| 20° | 1653.8 | 1644.2 | 1639.0 | 1635.3 | 1630.2 | 1622.8 | 1621.3 | 1622.1 |
| 22.5° | 1574.9 | 1561.6 | 1557.2 | 1553.5 | 1548.3 | 1541.7 | 1541.7 | 1536.5 |
| 25° | 1493.0 | 1481.2 | 1476.8 | 1472.4 | 1464.3 | 1461.3 | 1457.6 | 1458.4 |
| 27.5° | 1409.7 | 1398.7 | 1395.0 | 1386.9 | 1381.7 | 1378.0 | 1374.3 | 1374.3 |
| 30° | 1322.7 | 1316.8 | 1310.9 | 1310.2 | 1299.9 | 1295.4 | 1291.7 | 1288.8 |
| 32.5° | 1238.7 | 1231.3 | 1228.3 | 1225.4 | 1220.2 | 1214.3 | 1213.6 | 1208.4 |
| 35° | 1156.1 | 1148.7 | 1145.0 | 1142.1 | 1136.2 | 1134.0 | 1131.8 | 1133.2 |
| 37.5° | 1069.1 | 1067.6 | 1065.4 | 1061.7 | 1058.0 | 1057.3 | 1054.3 | 1058.0 |
| 40° | 983.6 | 982.8 | 979.9 | 980.6 | 980.6 | 979.1 | 980.6 | 980.6 |
| 42.5° | 901.0 | 901.0 | 898.0 | 899.5 | 900.2 | 901.7 | 903.9 | 905.4 |
| 45° | 820.6 | 819.9 | 820.6 | 822.1 | 820.6 | 824.3 | 827.2 | 829.5 |
| 47.5° | 738.0 | 738.8 | 741.7 | 742.5 | 743.9 | 749.1 | 749.1 | 749.1 |
| 50° | 659.1 | 662.8 | 661.4 | 665.8 | 665.0 | 668.0 | 665.0 | 665.0 |
| 52.5° | 583.9 | 587.6 | 588.4 | 589.1 | 593.5 | 594.3 | 594.3 | 593.5 |
| 55° | 516.8 | 522.0 | 519.8 | 523.5 | 525.7 | 527.2 | 529.4 | 527.9 |
| 57.5° | 454.9 | 457.1 | 459.3 | 460.1 | 463.0 | 464.5 | 466.0 | 464.5 |
| 60° | 393.7 | 398.1 | 401.8 | 402.6 | 404.0 | 405.5 | 406.3 | 408.5 |
| 62.5° | 336.2 | 343.6 | 345.1 | 345.8 | 349.5 | 351.7 | 353.2 | 354.6 |
| 65° | 285.3 | 290.5 | 294.2 | 296.4 | 299.3 | 299.3 | 301.6 | 301.6 |
| 67.5° | 235.9 | 241.1 | 243.3 | 244.8 | 249.2 | 249.9 | 253.6 | 253.6 |
| 70° | 191.0 | 194.6 | 196.1 | 198.3 | 202.8 | 205.7 | 207.2 | 208.7 |
| 72.5° | 147.5 | 151.9 | 154.1 | 157.0 | 160.0 | 162.2 | 162.9 | 165.2 |
| 75° | 107.6 | 114.3 | 115.0 | 118.0 | 120.2 | 123.1 | 124.6 | 123.9 |
| 77.5° | 75.2 | 77.4 | 80.4 | 81.8 | 84.1 | 86.3 | 88.5 | 88.5 |
| 80° | 46.4 | 49.4 | 50.1 | 50.9 | 53.8 | 55.3 | 56.8 | 56.8 |
| 82.5° | 24.3 | 25.8 | 27.3 | 28.0 | 29.5 | 29.5 | 30.2 | 31.0 |
| 85° | 9.6 | 10.3 | 10.3 | 10.3 | 11.1 | 11.8 | 11.8 | 11.8 |
| 87.5° | 1.5 | 2.2 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)