

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P251790

Luminaire Tested: **LD4B40D010 EU4B30508027 4LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-12)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B40D010 EU4B30508027 4LBLWW1H
Description: PORTFOLIO 4 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

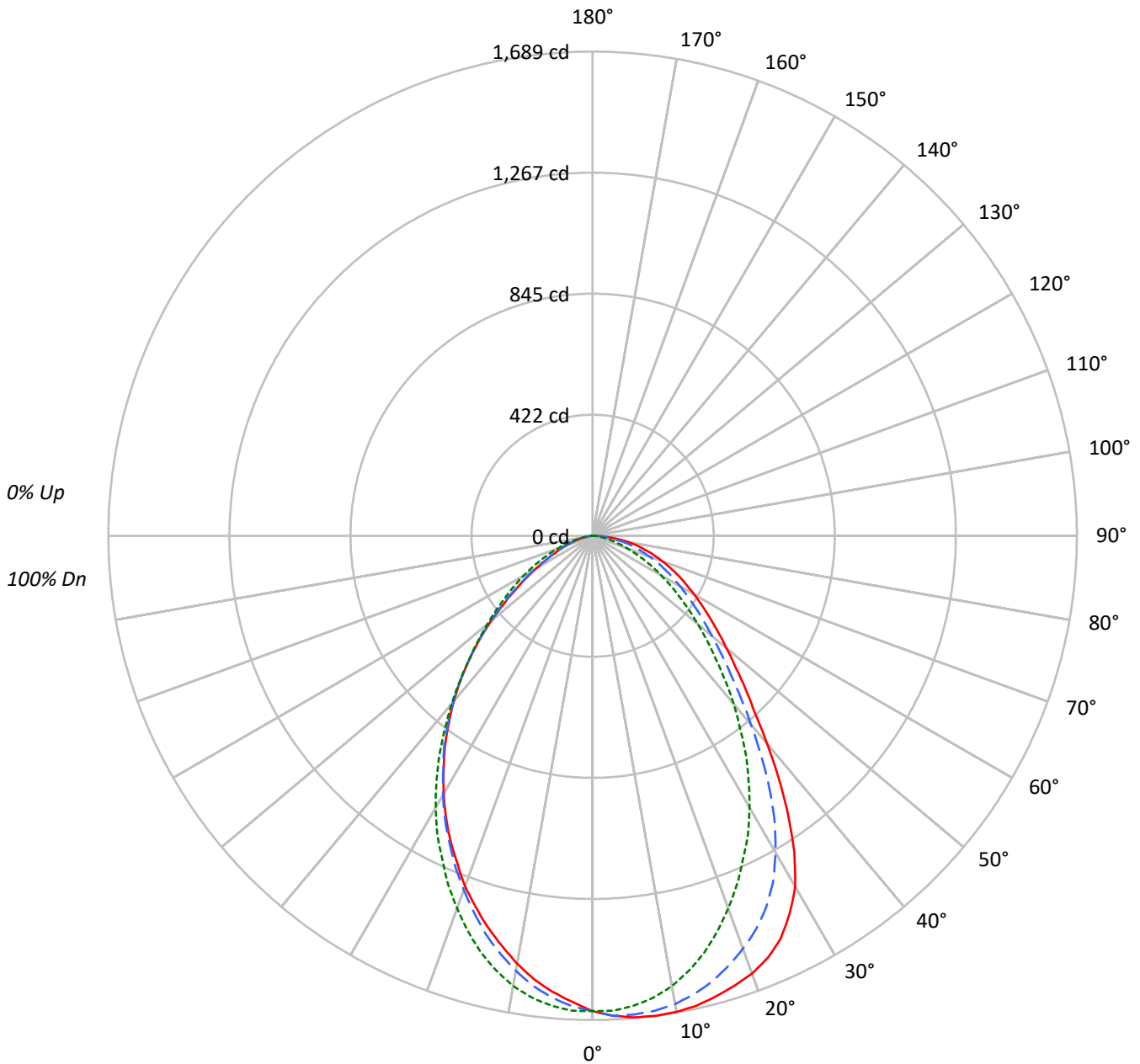
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251790

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Luminous Intensity Polar Plot





TEST NUMBER: P251790

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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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 90 | 88 | | | 88 |
| 2 | 102 | 95 | 89 | 85 | 100 | 93 | 88 | 84 | 90 | 85 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | 76 |
| 3 | 94 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | 67 |
| 4 | 88 | 77 | 69 | 63 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 61 | 59 | | | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 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° | 161605 | 161605 | 161605 |
| 5° | 164971 | 160980 | 156235 |
| 10° | 166879 | 157794 | 149966 |
| 15° | 167820 | 151869 | 142596 |
| 20° | 168544 | 143404 | 134941 |
| 25° | 166795 | 133599 | 126190 |
| 30° | 159046 | 123158 | 116845 |
| 35° | 141437 | 110789 | 106839 |
| 40° | 120416 | 97363 | 95748 |
| 45° | 103728 | 83688 | 83330 |
| 50° | 92441 | 72337 | 70017 |
| 55° | 84956 | 62426 | 55918 |
| 60° | 79565 | 53699 | 43759 |
| 65° | 76469 | 45291 | 34130 |
| 70° | 73431 | 36359 | 27611 |
| 75° | 71092 | 28806 | 21124 |
| 80° | 71614 | 20036 | 12908 |
| 85° | 59936 | 14313 | 5703 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.2 | 5.2 |
| 10°-20° | 426.8 | 14.3 |
| 20°-30° | 596.8 | 20.0 |
| 30°-40° | 613.4 | 20.5 |
| 40°-50° | 497.9 | 16.7 |
| 50°-60° | 350.6 | 11.7 |
| 60°-70° | 215.8 | 7.2 |
| 70°-80° | 107.8 | 3.6 |
| 80°-90° | 25.6 | 0.9 |
| 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° | 1178.8 | 39.4 |
| 0°-40° | 1792.2 | 59.9 |
| 0°-60° | 2640.8 | 88.3 |
| 0°-90° | 2990.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2990.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1658 | 1658 | 1658 | 1658 | 1658 | |
| 5° | 1686 | 1676 | 1646 | 1617 | 1597 | 161 |
| 15° | 1663 | 1610 | 1505 | 1439 | 1413 | 470 |
| 25° | 1551 | 1431 | 1242 | 1181 | 1174 | 709 |
| 35° | 1189 | 1074 | 931 | 903 | 898 | 739 |
| 45° | 753 | 679 | 607 | 607 | 605 | 585 |
| 55° | 500 | 439 | 367 | 337 | 329 | 449 |
| 65° | 332 | 278 | 196 | 150 | 148 | 328 |
| 75° | 189 | 148 | 76 | 56 | 56 | 202 |
| 85° | 54 | 36 | 13 | 8 | 5 | 62 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P251790

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 |
| 2.5° | 1676.1 | 1678.6 | 1671.0 | 1678.6 | 1668.4 | 1673.5 | 1676.1 | 1671.0 | 1665.9 | 1676.1 | 1676.1 |
| 5° | 1686.3 | 1686.3 | 1678.6 | 1688.8 | 1676.1 | 1678.6 | 1683.7 | 1676.1 | 1668.4 | 1678.6 | 1676.1 |
| 7.5° | 1688.8 | 1688.8 | 1678.6 | 1688.8 | 1676.1 | 1678.6 | 1681.2 | 1673.5 | 1665.9 | 1673.5 | 1671.0 |
| 10° | 1686.3 | 1683.7 | 1676.1 | 1686.3 | 1673.5 | 1673.5 | 1676.1 | 1668.4 | 1655.7 | 1663.3 | 1658.2 |
| 12.5° | 1678.6 | 1678.6 | 1668.4 | 1678.6 | 1660.8 | 1660.8 | 1663.3 | 1653.1 | 1642.9 | 1642.9 | 1637.8 |
| 15° | 1663.3 | 1663.3 | 1653.1 | 1660.8 | 1645.5 | 1645.5 | 1642.9 | 1632.7 | 1620.0 | 1620.0 | 1609.8 |
| 17.5° | 1645.5 | 1645.5 | 1635.3 | 1642.9 | 1625.1 | 1625.1 | 1622.5 | 1607.2 | 1589.4 | 1586.8 | 1574.0 |
| 20° | 1625.1 | 1625.1 | 1612.3 | 1617.4 | 1597.0 | 1597.0 | 1594.5 | 1576.6 | 1556.2 | 1551.1 | 1533.2 |
| 22.5° | 1594.5 | 1594.5 | 1581.7 | 1584.3 | 1563.8 | 1561.3 | 1558.7 | 1538.3 | 1517.9 | 1510.3 | 1487.3 |
| 25° | 1551.1 | 1548.5 | 1538.3 | 1538.3 | 1517.9 | 1512.8 | 1507.7 | 1487.3 | 1466.9 | 1451.6 | 1431.2 |
| 27.5° | 1487.3 | 1489.9 | 1477.1 | 1479.7 | 1454.1 | 1449.0 | 1446.5 | 1421.0 | 1398.0 | 1382.7 | 1362.3 |
| 30° | 1413.3 | 1405.7 | 1392.9 | 1392.9 | 1372.5 | 1370.0 | 1364.9 | 1341.9 | 1316.4 | 1298.5 | 1275.6 |
| 32.5° | 1308.7 | 1306.2 | 1293.4 | 1293.4 | 1270.5 | 1270.5 | 1260.3 | 1237.3 | 1214.3 | 1204.1 | 1181.2 |
| 35° | 1188.8 | 1186.3 | 1176.1 | 1176.1 | 1155.7 | 1158.2 | 1148.0 | 1130.1 | 1107.2 | 1091.9 | 1074.0 |
| 37.5° | 1066.4 | 1063.8 | 1053.6 | 1056.2 | 1038.3 | 1038.3 | 1030.7 | 1012.8 | 994.9 | 987.3 | 964.3 |
| 40° | 946.5 | 943.9 | 931.2 | 938.8 | 923.5 | 918.4 | 915.9 | 903.1 | 882.7 | 872.5 | 859.7 |
| 42.5° | 836.8 | 839.3 | 826.6 | 831.7 | 818.9 | 813.8 | 811.3 | 801.1 | 785.7 | 775.5 | 762.8 |
| 45° | 752.6 | 747.5 | 742.4 | 742.4 | 729.6 | 727.1 | 724.5 | 711.8 | 701.6 | 691.4 | 678.6 |
| 47.5° | 673.5 | 668.4 | 663.3 | 665.8 | 655.6 | 653.1 | 648.0 | 637.8 | 625.0 | 619.9 | 607.2 |
| 50° | 609.7 | 607.2 | 599.5 | 599.5 | 589.3 | 586.8 | 581.7 | 574.0 | 561.2 | 553.6 | 543.4 |
| 52.5° | 551.0 | 551.0 | 543.4 | 540.8 | 533.2 | 530.6 | 528.1 | 517.9 | 507.7 | 497.5 | 487.3 |
| 55° | 500.0 | 497.5 | 492.4 | 492.4 | 482.2 | 479.6 | 477.1 | 466.9 | 456.7 | 449.0 | 438.8 |
| 57.5° | 451.5 | 451.5 | 446.4 | 446.4 | 438.8 | 433.7 | 433.7 | 423.5 | 410.7 | 405.6 | 392.9 |
| 60° | 408.2 | 408.2 | 403.1 | 403.1 | 395.4 | 395.4 | 390.3 | 380.1 | 372.5 | 362.3 | 352.1 |
| 62.5° | 367.4 | 369.9 | 364.8 | 362.3 | 354.6 | 352.1 | 352.1 | 344.4 | 331.6 | 324.0 | 313.8 |
| 65° | 331.6 | 329.1 | 326.5 | 324.0 | 316.3 | 313.8 | 313.8 | 303.6 | 295.9 | 285.7 | 278.1 |
| 67.5° | 293.4 | 293.4 | 288.3 | 288.3 | 283.2 | 280.6 | 275.5 | 267.9 | 260.2 | 252.6 | 244.9 |
| 70° | 257.7 | 257.7 | 255.1 | 255.1 | 247.5 | 244.9 | 242.4 | 234.7 | 227.1 | 219.4 | 209.2 |
| 72.5° | 224.5 | 221.9 | 219.4 | 219.4 | 214.3 | 211.7 | 209.2 | 201.5 | 193.9 | 186.2 | 178.6 |
| 75° | 188.8 | 188.8 | 186.2 | 186.2 | 181.1 | 178.6 | 178.6 | 173.5 | 163.3 | 158.2 | 148.0 |
| 77.5° | 158.2 | 158.2 | 155.6 | 155.6 | 150.5 | 150.5 | 148.0 | 140.3 | 135.2 | 127.6 | 122.5 |
| 80° | 127.6 | 125.0 | 125.0 | 122.5 | 117.4 | 117.4 | 114.8 | 112.2 | 104.6 | 99.5 | 91.8 |
| 82.5° | 89.3 | 89.3 | 89.3 | 86.7 | 84.2 | 84.2 | 81.6 | 76.5 | 71.4 | 68.9 | 61.2 |
| 85° | 53.6 | 53.6 | 51.0 | 48.5 | 51.0 | 48.5 | 45.9 | 43.4 | 40.8 | 38.3 | 35.7 |
| 87.5° | 23.0 | 23.0 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.9 | 15.3 | 15.3 | 12.8 |
| 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° | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 |
| 2.5° | 1660.8 | 1668.4 | 1665.9 | 1663.3 | 1658.2 | 1658.2 | 1658.2 | 1655.7 | 1658.2 | 1658.2 | 1653.1 |
| 5° | 1660.8 | 1665.9 | 1663.3 | 1658.2 | 1653.1 | 1653.1 | 1650.6 | 1645.5 | 1645.5 | 1645.5 | 1635.3 |
| 7.5° | 1653.1 | 1658.2 | 1650.6 | 1645.5 | 1640.4 | 1635.3 | 1635.3 | 1627.6 | 1627.6 | 1625.1 | 1614.9 |
| 10° | 1637.8 | 1640.4 | 1630.2 | 1625.1 | 1617.4 | 1614.9 | 1609.8 | 1599.6 | 1597.0 | 1594.5 | 1584.3 |
| 12.5° | 1614.9 | 1617.4 | 1604.7 | 1594.5 | 1584.3 | 1581.7 | 1576.6 | 1563.8 | 1558.7 | 1553.6 | 1540.9 |
| 15° | 1581.7 | 1581.7 | 1566.4 | 1553.6 | 1543.4 | 1540.9 | 1528.1 | 1515.4 | 1510.3 | 1505.2 | 1487.3 |
| 17.5° | 1543.4 | 1540.9 | 1520.5 | 1507.7 | 1495.0 | 1489.9 | 1477.1 | 1461.8 | 1451.6 | 1446.5 | 1431.2 |
| 20° | 1502.6 | 1495.0 | 1472.0 | 1459.2 | 1443.9 | 1436.3 | 1423.5 | 1403.1 | 1392.9 | 1382.7 | 1367.4 |
| 22.5° | 1454.1 | 1443.9 | 1418.4 | 1400.6 | 1385.3 | 1377.6 | 1359.8 | 1341.9 | 1326.6 | 1316.4 | 1298.5 |
| 25° | 1395.5 | 1382.7 | 1354.6 | 1331.7 | 1318.9 | 1311.3 | 1293.4 | 1273.0 | 1257.7 | 1242.4 | 1227.1 |
| 27.5° | 1326.6 | 1311.3 | 1283.2 | 1260.3 | 1247.5 | 1234.7 | 1222.0 | 1199.0 | 1186.3 | 1173.5 | 1155.7 |
| 30° | 1242.4 | 1224.5 | 1199.0 | 1178.6 | 1163.3 | 1153.1 | 1137.8 | 1117.4 | 1102.1 | 1094.4 | 1076.6 |
| 32.5° | 1150.6 | 1130.1 | 1107.2 | 1086.8 | 1079.1 | 1066.4 | 1053.6 | 1033.2 | 1020.5 | 1012.8 | 1000.0 |
| 35° | 1048.5 | 1033.2 | 1007.7 | 992.4 | 979.6 | 974.5 | 964.3 | 943.9 | 938.8 | 931.2 | 915.9 |
| 37.5° | 941.4 | 928.6 | 910.8 | 898.0 | 887.8 | 882.7 | 872.5 | 859.7 | 852.1 | 844.4 | 836.8 |
| 40° | 841.9 | 831.7 | 816.4 | 806.2 | 793.4 | 785.7 | 785.7 | 770.4 | 765.3 | 765.3 | 757.7 |
| 42.5° | 744.9 | 739.8 | 727.1 | 711.8 | 709.2 | 701.6 | 699.0 | 691.4 | 686.3 | 683.7 | 681.2 |
| 45° | 663.3 | 655.6 | 642.9 | 635.2 | 627.6 | 627.6 | 619.9 | 612.3 | 609.7 | 607.2 | 604.6 |
| 47.5° | 591.9 | 581.7 | 571.5 | 563.8 | 558.7 | 556.1 | 548.5 | 543.4 | 540.8 | 540.8 | 538.3 |
| 50° | 528.1 | 520.4 | 510.2 | 502.6 | 497.5 | 492.4 | 487.3 | 482.2 | 479.6 | 477.1 | 477.1 |
| 52.5° | 474.5 | 464.3 | 454.1 | 446.4 | 438.8 | 436.2 | 431.1 | 426.0 | 423.5 | 420.9 | 418.4 |
| 55° | 426.0 | 418.4 | 405.6 | 398.0 | 390.3 | 390.3 | 382.7 | 375.0 | 369.9 | 367.4 | 364.8 |
| 57.5° | 380.1 | 372.5 | 359.7 | 352.1 | 347.0 | 341.9 | 336.7 | 331.6 | 326.5 | 321.4 | 316.3 |
| 60° | 339.3 | 331.6 | 318.9 | 308.7 | 306.1 | 301.0 | 295.9 | 285.7 | 280.6 | 275.5 | 270.4 |
| 62.5° | 301.0 | 290.8 | 280.6 | 270.4 | 267.9 | 262.8 | 255.1 | 247.5 | 239.8 | 234.7 | 227.1 |
| 65° | 265.3 | 257.7 | 244.9 | 237.3 | 229.6 | 227.1 | 219.4 | 209.2 | 201.5 | 196.4 | 188.8 |
| 67.5° | 232.2 | 221.9 | 209.2 | 201.5 | 196.4 | 191.3 | 183.7 | 176.0 | 168.4 | 160.7 | 153.1 |
| 70° | 199.0 | 191.3 | 178.6 | 170.9 | 165.8 | 160.7 | 153.1 | 142.9 | 135.2 | 127.6 | 122.5 |
| 72.5° | 168.4 | 158.2 | 148.0 | 140.3 | 135.2 | 130.1 | 122.5 | 114.8 | 107.1 | 102.0 | 94.4 |
| 75° | 140.3 | 130.1 | 122.5 | 112.2 | 109.7 | 104.6 | 96.9 | 89.3 | 81.6 | 76.5 | 71.4 |
| 77.5° | 112.2 | 104.6 | 94.4 | 89.3 | 84.2 | 79.1 | 74.0 | 66.3 | 61.2 | 53.6 | 48.5 |
| 80° | 84.2 | 76.5 | 68.9 | 63.8 | 58.7 | 56.1 | 51.0 | 45.9 | 40.8 | 35.7 | 33.2 |
| 82.5° | 56.1 | 51.0 | 43.4 | 40.8 | 38.3 | 35.7 | 30.6 | 28.1 | 25.5 | 23.0 | 20.4 |
| 85° | 30.6 | 28.1 | 25.5 | 20.4 | 20.4 | 17.9 | 15.3 | 15.3 | 12.8 | 12.8 | 10.2 |
| 87.5° | 12.8 | 10.2 | 10.2 | 7.7 | 7.7 | 7.7 | 5.1 | 5.1 | 5.1 | 2.6 | 2.6 |
| 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° | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 |
| 2.5° | 1655.7 | 1645.5 | 1645.5 | 1645.5 | 1637.8 | 1640.4 | 1642.9 | 1645.5 | 1642.9 | 1635.3 | 1642.9 |
| 5° | 1637.8 | 1627.6 | 1627.6 | 1622.5 | 1617.4 | 1617.4 | 1617.4 | 1620.0 | 1617.4 | 1609.8 | 1612.3 |
| 7.5° | 1614.9 | 1602.1 | 1599.6 | 1594.5 | 1589.4 | 1586.8 | 1586.8 | 1586.8 | 1584.3 | 1574.0 | 1579.1 |
| 10° | 1579.1 | 1566.4 | 1561.3 | 1558.7 | 1551.1 | 1548.5 | 1546.0 | 1543.4 | 1540.9 | 1530.7 | 1535.8 |
| 12.5° | 1535.8 | 1525.6 | 1515.4 | 1512.8 | 1505.2 | 1500.1 | 1497.5 | 1497.5 | 1492.4 | 1482.2 | 1487.3 |
| 15° | 1484.8 | 1469.4 | 1461.8 | 1456.7 | 1449.0 | 1443.9 | 1438.8 | 1441.4 | 1438.8 | 1428.6 | 1431.2 |
| 17.5° | 1423.5 | 1408.2 | 1400.6 | 1398.0 | 1387.8 | 1382.7 | 1380.2 | 1380.2 | 1377.6 | 1367.4 | 1370.0 |
| 20° | 1357.2 | 1341.9 | 1336.8 | 1331.7 | 1326.6 | 1321.5 | 1318.9 | 1316.4 | 1313.8 | 1303.6 | 1311.3 |
| 22.5° | 1290.9 | 1273.0 | 1265.4 | 1265.4 | 1255.2 | 1252.6 | 1250.1 | 1252.6 | 1250.1 | 1239.8 | 1245.0 |
| 25° | 1222.0 | 1204.1 | 1199.0 | 1191.4 | 1186.3 | 1183.7 | 1183.7 | 1183.7 | 1181.2 | 1176.1 | 1181.2 |
| 27.5° | 1145.5 | 1132.7 | 1125.0 | 1122.5 | 1117.4 | 1114.8 | 1112.3 | 1114.8 | 1114.8 | 1107.2 | 1112.3 |
| 30° | 1068.9 | 1058.7 | 1053.6 | 1051.1 | 1043.4 | 1040.9 | 1043.4 | 1043.4 | 1043.4 | 1035.8 | 1043.4 |
| 32.5° | 992.4 | 984.7 | 982.2 | 974.5 | 969.4 | 969.4 | 969.4 | 972.0 | 969.4 | 964.3 | 972.0 |
| 35° | 915.9 | 905.7 | 903.1 | 900.5 | 900.5 | 895.4 | 900.5 | 898.0 | 903.1 | 895.4 | 900.5 |
| 37.5° | 834.2 | 829.1 | 826.6 | 826.6 | 821.5 | 824.0 | 824.0 | 824.0 | 829.1 | 821.5 | 826.6 |
| 40° | 757.7 | 752.6 | 752.6 | 752.6 | 750.0 | 750.0 | 750.0 | 752.6 | 755.1 | 750.0 | 755.1 |
| 42.5° | 681.2 | 678.6 | 678.6 | 676.0 | 673.5 | 676.0 | 678.6 | 678.6 | 681.2 | 676.0 | 678.6 |
| 45° | 607.2 | 604.6 | 607.2 | 604.6 | 604.6 | 602.1 | 604.6 | 607.2 | 607.2 | 604.6 | 604.6 |
| 47.5° | 538.3 | 538.3 | 535.7 | 535.7 | 535.7 | 535.7 | 535.7 | 535.7 | 535.7 | 530.6 | 535.7 |
| 50° | 477.1 | 472.0 | 474.5 | 472.0 | 472.0 | 469.4 | 469.4 | 466.9 | 464.3 | 461.8 | 461.8 |
| 52.5° | 418.4 | 413.3 | 413.3 | 410.7 | 408.2 | 408.2 | 405.6 | 403.1 | 400.5 | 395.4 | 395.4 |
| 55° | 362.3 | 357.2 | 354.6 | 352.1 | 349.5 | 347.0 | 344.4 | 341.9 | 336.7 | 334.2 | 334.2 |
| 57.5° | 311.2 | 306.1 | 301.0 | 301.0 | 295.9 | 293.4 | 288.3 | 283.2 | 280.6 | 275.5 | 275.5 |
| 60° | 265.3 | 260.2 | 252.6 | 250.0 | 247.5 | 242.4 | 234.7 | 232.2 | 229.6 | 224.5 | 227.1 |
| 62.5° | 221.9 | 214.3 | 206.6 | 204.1 | 201.5 | 196.4 | 191.3 | 186.2 | 183.7 | 186.2 | 186.2 |
| 65° | 181.1 | 173.5 | 168.4 | 163.3 | 160.7 | 155.6 | 153.1 | 150.5 | 150.5 | 150.5 | 153.1 |
| 67.5° | 145.4 | 137.8 | 132.7 | 130.1 | 125.0 | 122.5 | 122.5 | 122.5 | 122.5 | 122.5 | 122.5 |
| 70° | 114.8 | 109.7 | 104.6 | 99.5 | 99.5 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 |
| 72.5° | 86.7 | 81.6 | 79.1 | 79.1 | 76.5 | 76.5 | 76.5 | 76.5 | 74.0 | 74.0 | 76.5 |
| 75° | 63.8 | 61.2 | 58.7 | 58.7 | 58.7 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 |
| 77.5° | 45.9 | 43.4 | 43.4 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 38.3 | 38.3 |
| 80° | 30.6 | 28.1 | 28.1 | 28.1 | 28.1 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| 82.5° | 17.9 | 17.9 | 17.9 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |
| 85° | 10.2 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 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: P251790

CATALOG NUMBER: LD4B40D010 EU4B30508027 4LBLWW1H

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 |
| 2.5° | 1627.6 | 1637.8 | 1640.4 | 1632.7 | 1635.3 | 1630.2 | 1632.7 | 1627.6 |
| 5° | 1599.6 | 1607.2 | 1609.8 | 1604.7 | 1604.7 | 1599.6 | 1602.1 | 1597.0 |
| 7.5° | 1563.8 | 1571.5 | 1574.0 | 1568.9 | 1568.9 | 1563.8 | 1563.8 | 1561.3 |
| 10° | 1523.0 | 1525.6 | 1530.7 | 1523.0 | 1525.6 | 1520.5 | 1520.5 | 1515.4 |
| 12.5° | 1472.0 | 1477.1 | 1482.2 | 1474.6 | 1474.6 | 1472.0 | 1472.0 | 1464.3 |
| 15° | 1418.4 | 1423.5 | 1426.1 | 1421.0 | 1421.0 | 1418.4 | 1415.9 | 1413.3 |
| 17.5° | 1362.3 | 1364.9 | 1370.0 | 1362.3 | 1367.4 | 1362.3 | 1362.3 | 1357.2 |
| 20° | 1298.5 | 1306.2 | 1308.7 | 1301.1 | 1303.6 | 1301.1 | 1301.1 | 1301.1 |
| 22.5° | 1237.3 | 1242.4 | 1245.0 | 1239.8 | 1242.4 | 1237.3 | 1239.8 | 1234.7 |
| 25° | 1173.5 | 1176.1 | 1178.6 | 1173.5 | 1178.6 | 1176.1 | 1173.5 | 1173.5 |
| 27.5° | 1107.2 | 1109.7 | 1112.3 | 1107.2 | 1112.3 | 1109.7 | 1112.3 | 1107.2 |
| 30° | 1035.8 | 1040.9 | 1046.0 | 1040.9 | 1043.4 | 1040.9 | 1040.9 | 1038.3 |
| 32.5° | 964.3 | 969.4 | 974.5 | 969.4 | 974.5 | 969.4 | 972.0 | 966.9 |
| 35° | 898.0 | 900.5 | 903.1 | 898.0 | 900.5 | 900.5 | 900.5 | 898.0 |
| 37.5° | 824.0 | 829.1 | 829.1 | 826.6 | 831.7 | 829.1 | 829.1 | 824.0 |
| 40° | 752.6 | 755.1 | 757.7 | 752.6 | 755.1 | 752.6 | 755.1 | 752.6 |
| 42.5° | 678.6 | 683.7 | 686.3 | 681.2 | 681.2 | 681.2 | 678.6 | 681.2 |
| 45° | 602.1 | 607.2 | 612.3 | 604.6 | 607.2 | 607.2 | 607.2 | 604.6 |
| 47.5° | 533.2 | 533.2 | 535.7 | 533.2 | 535.7 | 530.6 | 535.7 | 533.2 |
| 50° | 461.8 | 461.8 | 466.9 | 461.8 | 461.8 | 461.8 | 461.8 | 461.8 |
| 52.5° | 392.9 | 395.4 | 395.4 | 390.3 | 392.9 | 390.3 | 392.9 | 390.3 |
| 55° | 329.1 | 329.1 | 331.6 | 329.1 | 329.1 | 329.1 | 329.1 | 329.1 |
| 57.5° | 273.0 | 275.5 | 275.5 | 273.0 | 275.5 | 273.0 | 273.0 | 273.0 |
| 60° | 227.1 | 227.1 | 227.1 | 224.5 | 227.1 | 224.5 | 227.1 | 224.5 |
| 62.5° | 183.7 | 186.2 | 186.2 | 183.7 | 186.2 | 183.7 | 183.7 | 183.7 |
| 65° | 150.5 | 150.5 | 150.5 | 150.5 | 150.5 | 150.5 | 150.5 | 148.0 |
| 67.5° | 119.9 | 119.9 | 122.5 | 119.9 | 122.5 | 122.5 | 122.5 | 122.5 |
| 70° | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 |
| 72.5° | 74.0 | 74.0 | 76.5 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 |
| 75° | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 53.6 | 53.6 | 56.1 |
| 77.5° | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 40.8 |
| 80° | 25.5 | 25.5 | 25.5 | 25.5 | 23.0 | 23.0 | 25.5 | 23.0 |
| 82.5° | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| 85° | 7.7 | 7.7 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 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)