

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: P212749

Luminaire Tested: **LD4B40D010 EU4B30509024 4LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29201)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B40D010 EU4B30509024 4LBSWLI1  
Description: PORTFOLIO 4 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2680.8 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.3 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

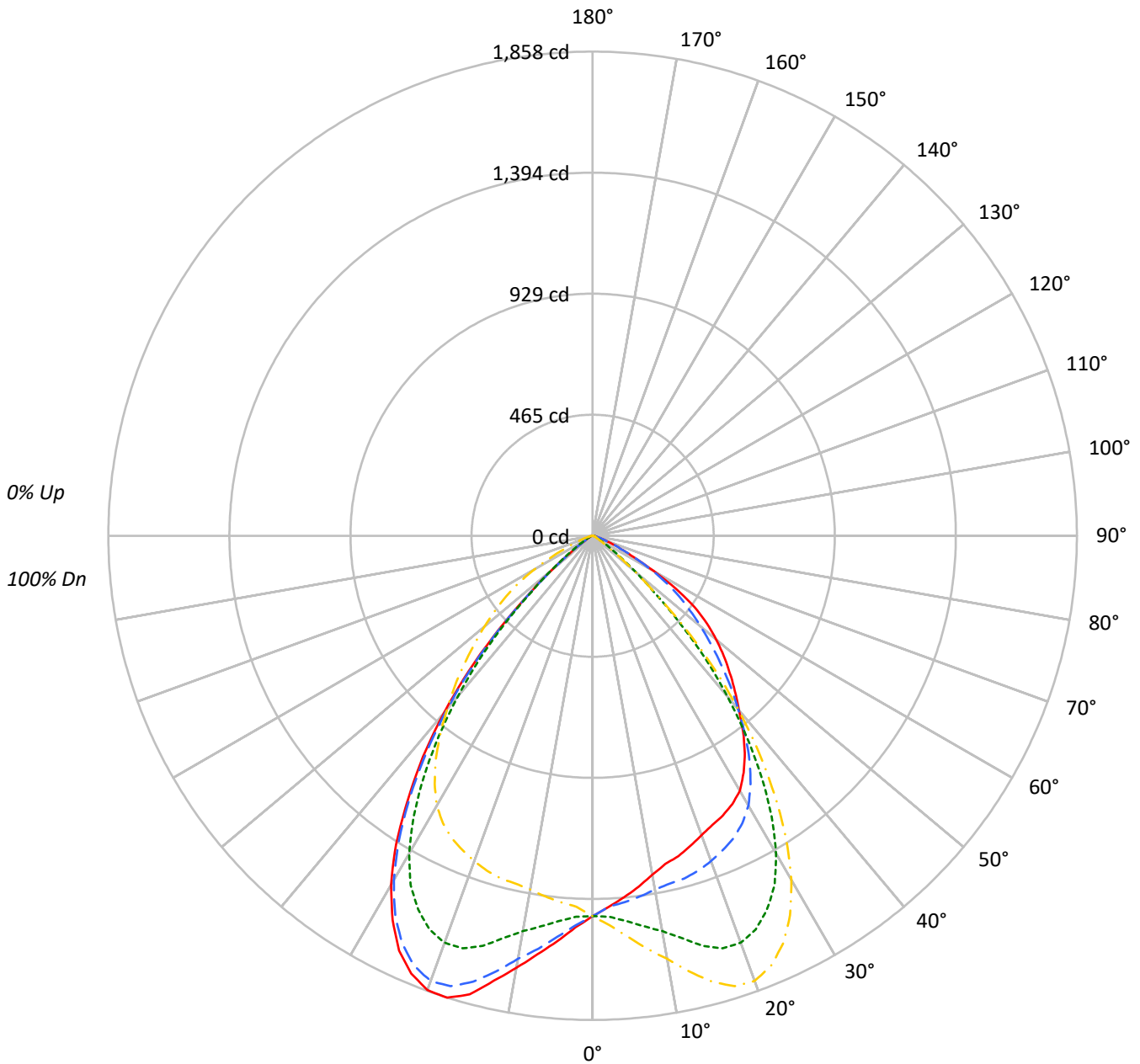
Input Watts (W): 43.02  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P212749

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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 |    |    | 100 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 99  | 99  | 97  | 96  | 95  | 94  | 93  | 91  |    |    | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 83  | 82  |    |    | 82  |
| 3   | 98  | 90  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    | 73  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    | 66  |
| 5   | 86  | 76  | 69  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 55  | 51  | 49  |    |    | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 41  |    |    | 41  |
| 10  | 63  | 51  | 44  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |    |    | 38  |

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

|     | 0°     | 90°    | 180°   | 270°   |
|-----|--------|--------|--------|--------|
| 0°  | 180011 | 180011 | 180011 | 180011 |
| 5°  | 172353 | 183806 | 193352 | 183806 |
| 10° | 165403 | 192933 | 210806 | 192933 |
| 15° | 162481 | 208031 | 232651 | 208031 |
| 20° | 160441 | 218144 | 243451 | 218144 |
| 25° | 161098 | 215414 | 239027 | 215414 |
| 30° | 160914 | 200452 | 220221 | 200452 |
| 35° | 153273 | 170122 | 186083 | 170122 |
| 40° | 140632 | 129441 | 142789 | 129441 |
| 45° | 129816 | 82387  | 88788  | 82387  |
| 50° | 118762 | 39952  | 38839  | 39952  |
| 55° | 102814 | 17419  | 12430  | 17419  |
| 60° | 66582  | 8560   | 5699   | 8560   |
| 65° | 34877  | 5633   | 4495   | 5633   |
| 70° | 18789  | 4183   | 3462   | 4183   |
| 75° | 10103  | 3670   | 2764   | 3670   |
| 80° | 6819   | 2770   | 1350   | 2770   |
| 85° | 5519   | 2689   | 0      | 2689   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.3  | 5.3       |
| 10°-20°   | 445.1  | 16.6      |
| 20°-30°   | 692.0  | 25.8      |
| 30°-40°   | 698.9  | 26.1      |
| 40°-50°   | 442.5  | 16.5      |
| 50°-60°   | 185.7  | 6.9       |
| 60°-70°   | 58.9   | 2.2       |
| 70°-80°   | 13.5   | 0.5       |
| 80°-90°   | 1.9    | 0.1       |
| 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°    | 1279.3 | 47.7      |
| 0°-40°    | 1978.3 | 73.8      |
| 0°-60°    | 2606.6 | 97.2      |
| 0°-90°    | 2680.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2680.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1459 | 1459 | 1459 | 1459 | 1459 |      |
| 5°  | 1392 | 1484 | 1562 | 1484 | 1392 | 131  |
| 15° | 1272 | 1629 | 1822 | 1629 | 1272 | 359  |
| 25° | 1184 | 1583 | 1756 | 1583 | 1184 | 545  |
| 35° | 1018 | 1130 | 1236 | 1130 | 1018 | 632  |
| 45° | 744  | 472  | 509  | 472  | 744  | 574  |
| 55° | 478  | 81   | 58   | 81   | 478  | 413  |
| 65° | 120  | 19   | 15   | 19   | 120  | 132  |
| 75° | 21   | 8    | 6    | 8    | 21   | 26   |
| 85° | 4    | 2    | 0    | 2    | 4    | 4    |
| 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°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1424.7 | 1411.2 | 1422.8 | 1426.7 | 1426.7 | 1424.7 | 1428.6 | 1424.7 | 1419.0 | 1442.1 | 1424.7 |
| 5°    | 1392.0 | 1382.3 | 1392.0 | 1395.8 | 1397.7 | 1399.7 | 1403.5 | 1403.5 | 1401.6 | 1422.8 | 1411.2 |
| 7.5°  | 1357.3 | 1351.5 | 1359.2 | 1365.0 | 1372.7 | 1370.8 | 1376.5 | 1378.5 | 1382.3 | 1407.4 | 1395.8 |
| 10°   | 1320.6 | 1314.8 | 1324.5 | 1328.3 | 1338.0 | 1339.9 | 1343.8 | 1349.6 | 1357.3 | 1382.3 | 1378.5 |
| 12.5° | 1289.8 | 1287.9 | 1293.6 | 1301.4 | 1311.0 | 1312.9 | 1316.8 | 1326.4 | 1338.0 | 1365.0 | 1366.9 |
| 15°   | 1272.4 | 1270.5 | 1276.3 | 1284.0 | 1291.7 | 1295.6 | 1299.4 | 1312.9 | 1324.5 | 1353.4 | 1361.1 |
| 17.5° | 1247.4 | 1247.4 | 1253.2 | 1260.9 | 1270.5 | 1274.4 | 1280.1 | 1293.6 | 1309.1 | 1338.0 | 1347.6 |
| 20°   | 1222.3 | 1224.2 | 1228.1 | 1235.8 | 1245.4 | 1249.3 | 1255.1 | 1268.6 | 1285.9 | 1314.8 | 1328.3 |
| 22.5° | 1201.1 | 1206.9 | 1208.8 | 1214.6 | 1224.2 | 1230.0 | 1231.9 | 1247.4 | 1262.8 | 1287.9 | 1305.2 |
| 25°   | 1183.7 | 1191.5 | 1191.5 | 1195.3 | 1206.9 | 1208.8 | 1210.7 | 1226.2 | 1239.7 | 1262.8 | 1280.1 |
| 27.5° | 1160.6 | 1168.3 | 1168.3 | 1174.1 | 1181.8 | 1185.7 | 1185.7 | 1199.2 | 1212.7 | 1230.0 | 1243.5 |
| 30°   | 1129.8 | 1135.6 | 1135.6 | 1137.5 | 1145.2 | 1149.0 | 1147.1 | 1160.6 | 1170.3 | 1181.8 | 1195.3 |
| 32.5° | 1077.7 | 1087.4 | 1083.5 | 1089.3 | 1093.1 | 1097.0 | 1093.1 | 1104.7 | 1112.4 | 1124.0 | 1127.8 |
| 35°   | 1017.9 | 1025.7 | 1019.9 | 1023.7 | 1031.4 | 1031.4 | 1029.5 | 1037.2 | 1041.1 | 1046.9 | 1048.8 |
| 37.5° | 948.5  | 954.3  | 950.5  | 952.4  | 956.3  | 958.2  | 954.3  | 962.0  | 962.0  | 964.0  | 960.1  |
| 40°   | 873.4  | 883.0  | 877.2  | 877.2  | 881.1  | 883.0  | 877.2  | 881.1  | 884.9  | 875.3  | 867.6  |
| 42.5° | 807.8  | 817.4  | 811.7  | 811.7  | 811.7  | 813.6  | 805.9  | 807.8  | 807.8  | 794.3  | 782.7  |
| 45°   | 744.2  | 751.9  | 746.1  | 740.3  | 742.3  | 744.2  | 736.5  | 734.5  | 728.8  | 713.3  | 696.0  |
| 47.5° | 682.5  | 690.2  | 682.5  | 678.6  | 678.6  | 678.6  | 669.0  | 663.2  | 655.5  | 634.3  | 613.1  |
| 50°   | 618.9  | 626.6  | 620.8  | 616.9  | 613.1  | 613.1  | 605.4  | 597.7  | 586.1  | 564.9  | 541.7  |
| 52.5° | 553.3  | 559.1  | 553.3  | 549.5  | 545.6  | 545.6  | 536.0  | 530.2  | 516.7  | 495.5  | 470.4  |
| 55°   | 478.1  | 482.0  | 476.2  | 472.3  | 470.4  | 470.4  | 462.7  | 456.9  | 445.4  | 428.0  | 404.9  |
| 57.5° | 377.9  | 385.6  | 375.9  | 379.8  | 379.8  | 377.9  | 372.1  | 370.2  | 366.3  | 350.9  | 333.5  |
| 60°   | 269.9  | 269.9  | 268.0  | 275.7  | 273.8  | 277.6  | 273.8  | 275.7  | 277.6  | 266.1  | 254.5  |
| 62.5° | 177.4  | 183.2  | 179.3  | 183.2  | 187.0  | 187.0  | 185.1  | 188.9  | 192.8  | 187.0  | 181.2  |
| 65°   | 119.5  | 119.5  | 119.5  | 121.5  | 121.5  | 123.4  | 121.5  | 123.4  | 125.3  | 123.4  | 119.5  |
| 67.5° | 79.0   | 81.0   | 79.0   | 81.0   | 79.0   | 81.0   | 81.0   | 81.0   | 82.9   | 81.0   | 79.0   |
| 70°   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 54.0   | 52.1   | 50.1   |
| 72.5° | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 75°   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   |
| 77.5° | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   |
| 80°   | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 7.7    | 9.6    | 7.7    | 7.7    |
| 82.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 85°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 1.9    | 3.9    | 1.9    | 1.9    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1434.4 | 1428.6 | 1457.5 | 1432.5 | 1445.9 | 1444.0 | 1445.9 | 1457.5 | 1457.5 | 1463.3 | 1461.4 |
| 5°    | 1426.7 | 1420.9 | 1453.7 | 1434.4 | 1449.8 | 1449.8 | 1455.6 | 1472.9 | 1472.9 | 1484.5 | 1486.4 |
| 7.5°  | 1415.1 | 1417.0 | 1451.7 | 1440.2 | 1457.5 | 1459.4 | 1469.1 | 1490.3 | 1496.1 | 1511.5 | 1519.2 |
| 10°   | 1401.6 | 1409.3 | 1445.9 | 1442.1 | 1465.2 | 1467.2 | 1486.4 | 1511.5 | 1519.2 | 1540.4 | 1553.9 |
| 12.5° | 1395.8 | 1409.3 | 1451.7 | 1455.6 | 1478.7 | 1488.4 | 1509.6 | 1542.3 | 1555.8 | 1580.9 | 1600.2 |
| 15°   | 1393.9 | 1413.2 | 1459.4 | 1472.9 | 1499.9 | 1513.4 | 1542.3 | 1580.9 | 1596.3 | 1629.1 | 1652.2 |
| 17.5° | 1384.3 | 1409.3 | 1459.4 | 1480.6 | 1509.6 | 1523.1 | 1559.7 | 1604.0 | 1623.3 | 1659.9 | 1686.9 |
| 20°   | 1366.9 | 1393.9 | 1444.0 | 1471.0 | 1501.9 | 1521.1 | 1557.8 | 1604.0 | 1623.3 | 1661.9 | 1692.7 |
| 22.5° | 1343.8 | 1370.8 | 1419.0 | 1449.8 | 1476.8 | 1498.0 | 1536.6 | 1580.9 | 1598.3 | 1634.9 | 1665.7 |
| 25°   | 1314.8 | 1341.8 | 1382.3 | 1413.2 | 1438.2 | 1457.5 | 1490.3 | 1536.6 | 1548.1 | 1582.8 | 1615.6 |
| 27.5° | 1274.4 | 1299.4 | 1330.3 | 1359.2 | 1382.3 | 1397.7 | 1426.7 | 1467.2 | 1476.8 | 1511.5 | 1538.5 |
| 30°   | 1220.4 | 1235.8 | 1262.8 | 1282.1 | 1299.4 | 1314.8 | 1336.1 | 1372.7 | 1376.5 | 1407.4 | 1432.5 |
| 32.5° | 1147.1 | 1154.8 | 1174.1 | 1183.7 | 1199.2 | 1205.0 | 1222.3 | 1253.2 | 1249.3 | 1278.2 | 1299.4 |
| 35°   | 1058.4 | 1062.3 | 1062.3 | 1073.9 | 1077.7 | 1079.6 | 1093.1 | 1110.5 | 1104.7 | 1129.8 | 1145.2 |
| 37.5° | 962.0  | 960.1  | 948.5  | 948.5  | 950.5  | 944.7  | 950.5  | 958.2  | 950.5  | 969.7  | 983.2  |
| 40°   | 863.7  | 852.1  | 830.9  | 819.4  | 813.6  | 811.7  | 800.1  | 809.7  | 790.5  | 803.9  | 813.6  |
| 42.5° | 769.2  | 750.0  | 717.2  | 694.1  | 684.4  | 674.8  | 655.5  | 655.5  | 630.4  | 640.1  | 642.0  |
| 45°   | 672.8  | 640.1  | 595.7  | 574.5  | 549.5  | 534.0  | 509.0  | 483.9  | 466.6  | 472.3  | 466.6  |
| 47.5° | 584.2  | 545.6  | 493.5  | 456.9  | 428.0  | 406.8  | 372.1  | 343.2  | 325.8  | 318.1  | 310.4  |
| 50°   | 507.0  | 468.5  | 408.7  | 362.5  | 333.5  | 308.5  | 273.8  | 241.0  | 219.8  | 208.2  | 202.4  |
| 52.5° | 437.6  | 397.2  | 339.3  | 291.1  | 260.3  | 237.1  | 198.6  | 165.8  | 142.7  | 129.2  | 121.5  |
| 55°   | 372.1  | 335.5  | 281.5  | 237.1  | 208.2  | 185.1  | 146.5  | 115.7  | 94.5   | 81.0   | 71.3   |
| 57.5° | 306.5  | 273.8  | 229.4  | 187.0  | 161.9  | 140.7  | 108.0  | 81.0   | 63.6   | 52.1   | 44.3   |
| 60°   | 235.2  | 210.1  | 173.5  | 140.7  | 119.5  | 102.2  | 77.1   | 55.9   | 44.3   | 34.7   | 30.8   |
| 62.5° | 165.8  | 150.4  | 123.4  | 100.3  | 86.8   | 73.3   | 54.0   | 40.5   | 30.8   | 25.1   | 23.1   |
| 65°   | 111.8  | 100.3  | 84.8   | 67.5   | 57.8   | 50.1   | 38.6   | 28.9   | 23.1   | 19.3   | 17.4   |
| 67.5° | 73.3   | 67.5   | 55.9   | 46.3   | 40.5   | 34.7   | 27.0   | 21.2   | 17.4   | 15.4   | 13.5   |
| 70°   | 48.2   | 44.3   | 36.6   | 30.8   | 28.9   | 25.1   | 19.3   | 15.4   | 13.5   | 11.6   | 11.6   |
| 72.5° | 30.8   | 27.0   | 25.1   | 21.2   | 19.3   | 17.4   | 13.5   | 11.6   | 9.6    | 9.6    | 9.6    |
| 75°   | 19.3   | 17.4   | 15.4   | 13.5   | 13.5   | 11.6   | 9.6    | 9.6    | 7.7    | 7.7    | 7.7    |
| 77.5° | 11.6   | 11.6   | 9.6    | 9.6    | 7.7    | 7.7    | 7.7    | 5.8    | 5.8    | 5.8    | 5.8    |
| 80°   | 7.7    | 7.7    | 5.8    | 5.8    | 5.8    | 5.8    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 85°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1471.0 | 1474.9 | 1471.0 | 1482.6 | 1463.3 | 1484.5 | 1476.8 | 1480.6 | 1496.1 | 1490.3 | 1496.1 |
| 5°    | 1499.9 | 1507.6 | 1507.6 | 1521.1 | 1503.8 | 1528.8 | 1521.1 | 1528.8 | 1544.3 | 1544.3 | 1552.0 |
| 7.5°  | 1536.6 | 1546.2 | 1550.1 | 1563.6 | 1546.2 | 1577.0 | 1569.3 | 1579.0 | 1598.3 | 1598.3 | 1604.0 |
| 10°   | 1575.1 | 1586.7 | 1594.4 | 1609.8 | 1590.5 | 1625.2 | 1617.5 | 1631.0 | 1648.4 | 1650.3 | 1659.9 |
| 12.5° | 1623.3 | 1638.7 | 1648.4 | 1661.9 | 1648.4 | 1683.1 | 1675.4 | 1688.9 | 1712.0 | 1713.9 | 1725.5 |
| 15°   | 1677.3 | 1696.6 | 1708.1 | 1723.6 | 1708.1 | 1746.7 | 1739.0 | 1754.4 | 1771.8 | 1779.5 | 1791.0 |
| 17.5° | 1712.0 | 1735.1 | 1744.8 | 1762.1 | 1746.7 | 1785.3 | 1775.6 | 1796.8 | 1812.3 | 1816.1 | 1829.6 |
| 20°   | 1717.8 | 1739.0 | 1752.5 | 1766.0 | 1752.5 | 1791.0 | 1781.4 | 1798.8 | 1818.0 | 1821.9 | 1831.5 |
| 22.5° | 1692.7 | 1710.1 | 1725.5 | 1737.1 | 1725.5 | 1764.1 | 1750.6 | 1769.8 | 1787.2 | 1791.0 | 1798.8 |
| 25°   | 1634.9 | 1656.1 | 1671.5 | 1681.2 | 1669.6 | 1706.2 | 1694.6 | 1712.0 | 1727.4 | 1735.1 | 1737.1 |
| 27.5° | 1553.9 | 1573.2 | 1588.6 | 1594.4 | 1586.7 | 1621.4 | 1606.0 | 1627.2 | 1640.7 | 1644.5 | 1650.3 |
| 30°   | 1444.0 | 1461.4 | 1476.8 | 1480.6 | 1474.9 | 1499.9 | 1492.2 | 1511.5 | 1525.0 | 1528.8 | 1532.7 |
| 32.5° | 1309.1 | 1326.4 | 1336.1 | 1339.9 | 1334.1 | 1359.2 | 1351.5 | 1366.9 | 1382.3 | 1382.3 | 1382.3 |
| 35°   | 1156.8 | 1172.2 | 1178.0 | 1189.5 | 1176.0 | 1201.1 | 1193.4 | 1206.9 | 1220.4 | 1220.4 | 1222.3 |
| 37.5° | 992.9  | 1004.5 | 1008.3 | 1019.9 | 1006.4 | 1029.5 | 1023.7 | 1035.3 | 1046.9 | 1044.9 | 1048.8 |
| 40°   | 817.4  | 829.0  | 832.9  | 842.5  | 830.9  | 850.2  | 846.4  | 857.9  | 867.6  | 867.6  | 867.6  |
| 42.5° | 647.8  | 655.5  | 655.5  | 665.1  | 653.6  | 670.9  | 670.9  | 678.6  | 688.3  | 686.3  | 686.3  |
| 45°   | 470.4  | 468.5  | 472.3  | 470.4  | 470.4  | 485.8  | 485.8  | 489.7  | 497.4  | 493.5  | 495.5  |
| 47.5° | 312.3  | 314.3  | 306.5  | 312.3  | 304.6  | 318.1  | 318.1  | 318.1  | 323.9  | 320.0  | 323.9  |
| 50°   | 198.6  | 192.8  | 188.9  | 188.9  | 187.0  | 196.6  | 192.8  | 194.7  | 198.6  | 194.7  | 198.6  |
| 52.5° | 111.8  | 109.9  | 106.0  | 108.0  | 104.1  | 106.0  | 106.0  | 106.0  | 108.0  | 106.0  | 109.9  |
| 55°   | 65.5   | 59.8   | 57.8   | 57.8   | 55.9   | 57.8   | 55.9   | 55.9   | 55.9   | 54.0   | 55.9   |
| 57.5° | 38.6   | 36.6   | 34.7   | 34.7   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 60°   | 27.0   | 25.1   | 25.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   |
| 62.5° | 21.2   | 19.3   | 19.3   | 19.3   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   | 19.3   | 17.4   |
| 65°   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 13.5   | 15.4   | 15.4   | 15.4   | 15.4   |
| 67.5° | 13.5   | 13.5   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   |
| 70°   | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    |
| 72.5° | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 80°   | 3.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 85°   | 0.0    | 1.9    | 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: P212749

CATALOG NUMBER: LD4B40D010 EU4B30509024 4LBSWLI1

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1501.9 | 1494.1 | 1476.8 | 1488.4 | 1490.3 | 1482.6 | 1492.2 | 1503.8 | 1492.2 | 1482.6 | 1490.3 |
| 5°    | 1557.8 | 1552.0 | 1536.6 | 1546.2 | 1548.1 | 1546.2 | 1552.0 | 1561.6 | 1552.0 | 1546.2 | 1548.1 |
| 7.5°  | 1613.7 | 1609.8 | 1592.5 | 1604.0 | 1607.9 | 1604.0 | 1609.8 | 1619.5 | 1609.8 | 1604.0 | 1607.9 |
| 10°   | 1667.7 | 1665.7 | 1648.4 | 1663.8 | 1665.7 | 1661.9 | 1667.7 | 1683.1 | 1667.7 | 1661.9 | 1665.7 |
| 12.5° | 1729.4 | 1733.2 | 1713.9 | 1731.3 | 1733.2 | 1729.4 | 1737.1 | 1748.6 | 1737.1 | 1729.4 | 1733.2 |
| 15°   | 1800.7 | 1798.8 | 1783.3 | 1796.8 | 1800.7 | 1796.8 | 1806.5 | 1821.9 | 1806.5 | 1796.8 | 1800.7 |
| 17.5° | 1835.4 | 1835.4 | 1823.8 | 1837.3 | 1839.2 | 1839.2 | 1847.0 | 1858.5 | 1847.0 | 1839.2 | 1839.2 |
| 20°   | 1837.3 | 1839.2 | 1825.7 | 1841.2 | 1841.2 | 1841.2 | 1848.9 | 1854.7 | 1848.9 | 1841.2 | 1841.2 |
| 22.5° | 1806.5 | 1808.4 | 1794.9 | 1808.4 | 1808.4 | 1810.3 | 1814.2 | 1818.0 | 1814.2 | 1810.3 | 1808.4 |
| 25°   | 1746.7 | 1748.6 | 1737.1 | 1748.6 | 1746.7 | 1746.7 | 1750.6 | 1756.3 | 1750.6 | 1746.7 | 1746.7 |
| 27.5° | 1658.0 | 1659.9 | 1644.5 | 1658.0 | 1656.1 | 1654.2 | 1659.9 | 1661.9 | 1659.9 | 1654.2 | 1656.1 |
| 30°   | 1540.4 | 1542.3 | 1528.8 | 1540.4 | 1538.5 | 1536.6 | 1544.3 | 1546.2 | 1544.3 | 1536.6 | 1538.5 |
| 32.5° | 1399.7 | 1395.8 | 1386.2 | 1395.8 | 1393.9 | 1393.9 | 1397.7 | 1403.5 | 1397.7 | 1393.9 | 1393.9 |
| 35°   | 1230.0 | 1230.0 | 1224.2 | 1231.9 | 1226.2 | 1233.9 | 1233.9 | 1235.8 | 1233.9 | 1233.9 | 1226.2 |
| 37.5° | 1056.5 | 1056.5 | 1052.6 | 1056.5 | 1054.6 | 1062.3 | 1062.3 | 1068.1 | 1062.3 | 1062.3 | 1054.6 |
| 40°   | 875.3  | 875.3  | 871.4  | 875.3  | 881.1  | 881.1  | 879.1  | 886.8  | 879.1  | 881.1  | 881.1  |
| 42.5° | 692.1  | 692.1  | 690.2  | 699.8  | 699.8  | 699.8  | 694.1  | 701.8  | 694.1  | 699.8  | 699.8  |
| 45°   | 503.2  | 499.3  | 497.4  | 497.4  | 499.3  | 507.0  | 499.3  | 509.0  | 499.3  | 507.0  | 499.3  |
| 47.5° | 320.0  | 322.0  | 323.9  | 329.7  | 325.8  | 323.9  | 323.9  | 329.7  | 323.9  | 323.9  | 325.8  |
| 50°   | 196.6  | 198.6  | 198.6  | 202.4  | 196.6  | 200.5  | 198.6  | 202.4  | 198.6  | 200.5  | 196.6  |
| 52.5° | 108.0  | 108.0  | 108.0  | 111.8  | 108.0  | 109.9  | 108.0  | 111.8  | 108.0  | 109.9  | 108.0  |
| 55°   | 55.9   | 55.9   | 55.9   | 57.8   | 55.9   | 55.9   | 55.9   | 57.8   | 55.9   | 55.9   | 55.9   |
| 57.5° | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 60°   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   |
| 62.5° | 19.3   | 17.4   | 17.4   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   |
| 65°   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   |
| 67.5° | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   |
| 70°   | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    |
| 72.5° | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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    |



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CATALOG NUMBER: LD4B40D010 EU4B30509024 4LBSWLI1

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1488.4 | 1476.8 | 1494.1 | 1501.9 | 1496.1 | 1490.3 | 1496.1 | 1480.6 | 1476.8 | 1484.5 | 1463.3 |
| 5°    | 1546.2 | 1536.6 | 1552.0 | 1557.8 | 1552.0 | 1544.3 | 1544.3 | 1528.8 | 1521.1 | 1528.8 | 1503.8 |
| 7.5°  | 1604.0 | 1592.5 | 1609.8 | 1613.7 | 1604.0 | 1598.3 | 1598.3 | 1579.0 | 1569.3 | 1577.0 | 1546.2 |
| 10°   | 1663.8 | 1648.4 | 1665.7 | 1667.7 | 1659.9 | 1650.3 | 1648.4 | 1631.0 | 1617.5 | 1625.2 | 1590.5 |
| 12.5° | 1731.3 | 1713.9 | 1733.2 | 1729.4 | 1725.5 | 1713.9 | 1712.0 | 1688.9 | 1675.4 | 1683.1 | 1648.4 |
| 15°   | 1796.8 | 1783.3 | 1798.8 | 1800.7 | 1791.0 | 1779.5 | 1771.8 | 1754.4 | 1739.0 | 1746.7 | 1708.1 |
| 17.5° | 1837.3 | 1823.8 | 1835.4 | 1835.4 | 1829.6 | 1816.1 | 1812.3 | 1796.8 | 1775.6 | 1785.3 | 1746.7 |
| 20°   | 1841.2 | 1825.7 | 1839.2 | 1837.3 | 1831.5 | 1821.9 | 1818.0 | 1798.8 | 1781.4 | 1791.0 | 1752.5 |
| 22.5° | 1808.4 | 1794.9 | 1808.4 | 1806.5 | 1798.8 | 1791.0 | 1787.2 | 1769.8 | 1750.6 | 1764.1 | 1725.5 |
| 25°   | 1748.6 | 1737.1 | 1748.6 | 1746.7 | 1737.1 | 1735.1 | 1727.4 | 1712.0 | 1694.6 | 1706.2 | 1669.6 |
| 27.5° | 1658.0 | 1644.5 | 1659.9 | 1658.0 | 1650.3 | 1644.5 | 1640.7 | 1627.2 | 1606.0 | 1621.4 | 1586.7 |
| 30°   | 1540.4 | 1528.8 | 1542.3 | 1540.4 | 1532.7 | 1528.8 | 1525.0 | 1511.5 | 1492.2 | 1499.9 | 1474.9 |
| 32.5° | 1395.8 | 1386.2 | 1395.8 | 1399.7 | 1382.3 | 1382.3 | 1382.3 | 1366.9 | 1351.5 | 1359.2 | 1334.1 |
| 35°   | 1231.9 | 1224.2 | 1230.0 | 1230.0 | 1222.3 | 1220.4 | 1220.4 | 1206.9 | 1193.4 | 1201.1 | 1176.0 |
| 37.5° | 1056.5 | 1052.6 | 1056.5 | 1056.5 | 1048.8 | 1044.9 | 1046.9 | 1035.3 | 1023.7 | 1029.5 | 1006.4 |
| 40°   | 875.3  | 871.4  | 875.3  | 875.3  | 867.6  | 867.6  | 867.6  | 857.9  | 846.4  | 850.2  | 830.9  |
| 42.5° | 699.8  | 690.2  | 692.1  | 692.1  | 686.3  | 686.3  | 688.3  | 678.6  | 670.9  | 670.9  | 653.6  |
| 45°   | 497.4  | 497.4  | 499.3  | 503.2  | 495.5  | 493.5  | 497.4  | 489.7  | 485.8  | 485.8  | 470.4  |
| 47.5° | 329.7  | 323.9  | 322.0  | 320.0  | 323.9  | 320.0  | 323.9  | 318.1  | 318.1  | 318.1  | 304.6  |
| 50°   | 202.4  | 198.6  | 198.6  | 196.6  | 198.6  | 194.7  | 198.6  | 194.7  | 192.8  | 196.6  | 187.0  |
| 52.5° | 111.8  | 108.0  | 108.0  | 108.0  | 109.9  | 106.0  | 108.0  | 106.0  | 106.0  | 106.0  | 104.1  |
| 55°   | 57.8   | 55.9   | 55.9   | 55.9   | 55.9   | 54.0   | 55.9   | 55.9   | 55.9   | 57.8   | 55.9   |
| 57.5° | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 60°   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   |
| 62.5° | 19.3   | 17.4   | 17.4   | 19.3   | 17.4   | 19.3   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   |
| 65°   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 13.5   | 15.4   | 15.4   |
| 67.5° | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   |
| 70°   | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    |
| 72.5° | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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: P212749

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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1482.6 | 1471.0 | 1474.9 | 1471.0 | 1461.4 | 1463.3 | 1457.5 | 1457.5 | 1445.9 | 1444.0 | 1445.9 |
| 5°    | 1521.1 | 1507.6 | 1507.6 | 1499.9 | 1486.4 | 1484.5 | 1472.9 | 1472.9 | 1455.6 | 1449.8 | 1449.8 |
| 7.5°  | 1563.6 | 1550.1 | 1546.2 | 1536.6 | 1519.2 | 1511.5 | 1496.1 | 1490.3 | 1469.1 | 1459.4 | 1457.5 |
| 10°   | 1609.8 | 1594.4 | 1586.7 | 1575.1 | 1553.9 | 1540.4 | 1519.2 | 1511.5 | 1486.4 | 1467.2 | 1465.2 |
| 12.5° | 1661.9 | 1648.4 | 1638.7 | 1623.3 | 1600.2 | 1580.9 | 1555.8 | 1542.3 | 1509.6 | 1488.4 | 1478.7 |
| 15°   | 1723.6 | 1708.1 | 1696.6 | 1677.3 | 1652.2 | 1629.1 | 1596.3 | 1580.9 | 1542.3 | 1513.4 | 1499.9 |
| 17.5° | 1762.1 | 1744.8 | 1735.1 | 1712.0 | 1686.9 | 1659.9 | 1623.3 | 1604.0 | 1559.7 | 1523.1 | 1509.6 |
| 20°   | 1766.0 | 1752.5 | 1739.0 | 1717.8 | 1692.7 | 1661.9 | 1623.3 | 1604.0 | 1557.8 | 1521.1 | 1501.9 |
| 22.5° | 1737.1 | 1725.5 | 1710.1 | 1692.7 | 1665.7 | 1634.9 | 1598.3 | 1580.9 | 1536.6 | 1498.0 | 1476.8 |
| 25°   | 1681.2 | 1671.5 | 1656.1 | 1634.9 | 1615.6 | 1582.8 | 1548.1 | 1536.6 | 1490.3 | 1457.5 | 1438.2 |
| 27.5° | 1594.4 | 1588.6 | 1573.2 | 1553.9 | 1538.5 | 1511.5 | 1476.8 | 1467.2 | 1426.7 | 1397.7 | 1382.3 |
| 30°   | 1480.6 | 1476.8 | 1461.4 | 1444.0 | 1432.5 | 1407.4 | 1376.5 | 1372.7 | 1336.1 | 1314.8 | 1299.4 |
| 32.5° | 1339.9 | 1336.1 | 1326.4 | 1309.1 | 1299.4 | 1278.2 | 1249.3 | 1253.2 | 1222.3 | 1205.0 | 1199.2 |
| 35°   | 1189.5 | 1178.0 | 1172.2 | 1156.8 | 1145.2 | 1129.8 | 1104.7 | 1110.5 | 1093.1 | 1079.6 | 1077.7 |
| 37.5° | 1019.9 | 1008.3 | 1004.5 | 992.9  | 983.2  | 969.7  | 950.5  | 958.2  | 950.5  | 944.7  | 950.5  |
| 40°   | 842.5  | 832.9  | 829.0  | 817.4  | 813.6  | 803.9  | 790.5  | 809.7  | 800.1  | 811.7  | 813.6  |
| 42.5° | 665.1  | 655.5  | 655.5  | 647.8  | 642.0  | 640.1  | 630.4  | 655.5  | 655.5  | 674.8  | 684.4  |
| 45°   | 470.4  | 472.3  | 468.5  | 470.4  | 466.6  | 472.3  | 466.6  | 483.9  | 509.0  | 534.0  | 549.5  |
| 47.5° | 312.3  | 306.5  | 314.3  | 312.3  | 310.4  | 318.1  | 325.8  | 343.2  | 372.1  | 406.8  | 428.0  |
| 50°   | 188.9  | 188.9  | 192.8  | 198.6  | 202.4  | 208.2  | 219.8  | 241.0  | 273.8  | 308.5  | 333.5  |
| 52.5° | 108.0  | 106.0  | 109.9  | 111.8  | 121.5  | 129.2  | 142.7  | 165.8  | 198.6  | 237.1  | 260.3  |
| 55°   | 57.8   | 57.8   | 59.8   | 65.5   | 71.3   | 81.0   | 94.5   | 115.7  | 146.5  | 185.1  | 208.2  |
| 57.5° | 34.7   | 34.7   | 36.6   | 38.6   | 44.3   | 52.1   | 63.6   | 81.0   | 108.0  | 140.7  | 161.9  |
| 60°   | 23.1   | 25.1   | 25.1   | 27.0   | 30.8   | 34.7   | 44.3   | 55.9   | 77.1   | 102.2  | 119.5  |
| 62.5° | 19.3   | 19.3   | 19.3   | 21.2   | 23.1   | 25.1   | 30.8   | 40.5   | 54.0   | 73.3   | 86.8   |
| 65°   | 15.4   | 15.4   | 15.4   | 15.4   | 17.4   | 19.3   | 23.1   | 28.9   | 38.6   | 50.1   | 57.8   |
| 67.5° | 11.6   | 11.6   | 13.5   | 13.5   | 13.5   | 15.4   | 17.4   | 21.2   | 27.0   | 34.7   | 40.5   |
| 70°   | 9.6    | 9.6    | 9.6    | 9.6    | 11.6   | 11.6   | 13.5   | 15.4   | 19.3   | 25.1   | 28.9   |
| 72.5° | 7.7    | 7.7    | 7.7    | 7.7    | 9.6    | 9.6    | 9.6    | 11.6   | 13.5   | 17.4   | 19.3   |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 7.7    | 7.7    | 7.7    | 9.6    | 9.6    | 11.6   | 13.5   |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 5.8    | 5.8    | 5.8    | 5.8    | 7.7    | 7.7    | 7.7    |
| 80°   | 1.9    | 1.9    | 1.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 5.8    | 5.8    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 3.9    | 3.9    |
| 85°   | 0.0    | 0.0    | 1.9    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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: P212749

CATALOG NUMBER: LD4B40D010 EU4B30509024 4LBSWLI1

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1432.5 | 1457.5 | 1428.6 | 1434.4 | 1424.7 | 1442.1 | 1419.0 | 1424.7 | 1428.6 | 1424.7 | 1426.7 |
| 5°    | 1434.4 | 1453.7 | 1420.9 | 1426.7 | 1411.2 | 1422.8 | 1401.6 | 1403.5 | 1403.5 | 1399.7 | 1397.7 |
| 7.5°  | 1440.2 | 1451.7 | 1417.0 | 1415.1 | 1395.8 | 1407.4 | 1382.3 | 1378.5 | 1376.5 | 1370.8 | 1372.7 |
| 10°   | 1442.1 | 1445.9 | 1409.3 | 1401.6 | 1378.5 | 1382.3 | 1357.3 | 1349.6 | 1343.8 | 1339.9 | 1338.0 |
| 12.5° | 1455.6 | 1451.7 | 1409.3 | 1395.8 | 1366.9 | 1365.0 | 1338.0 | 1326.4 | 1316.8 | 1312.9 | 1311.0 |
| 15°   | 1472.9 | 1459.4 | 1413.2 | 1393.9 | 1361.1 | 1353.4 | 1324.5 | 1312.9 | 1299.4 | 1295.6 | 1291.7 |
| 17.5° | 1480.6 | 1459.4 | 1409.3 | 1384.3 | 1347.6 | 1338.0 | 1309.1 | 1293.6 | 1280.1 | 1274.4 | 1270.5 |
| 20°   | 1471.0 | 1444.0 | 1393.9 | 1366.9 | 1328.3 | 1314.8 | 1285.9 | 1268.6 | 1255.1 | 1249.3 | 1245.4 |
| 22.5° | 1449.8 | 1419.0 | 1370.8 | 1343.8 | 1305.2 | 1287.9 | 1262.8 | 1247.4 | 1231.9 | 1230.0 | 1224.2 |
| 25°   | 1413.2 | 1382.3 | 1341.8 | 1314.8 | 1280.1 | 1262.8 | 1239.7 | 1226.2 | 1210.7 | 1208.8 | 1206.9 |
| 27.5° | 1359.2 | 1330.3 | 1299.4 | 1274.4 | 1243.5 | 1230.0 | 1212.7 | 1199.2 | 1185.7 | 1185.7 | 1181.8 |
| 30°   | 1282.1 | 1262.8 | 1235.8 | 1220.4 | 1195.3 | 1181.8 | 1170.3 | 1160.6 | 1147.1 | 1149.0 | 1145.2 |
| 32.5° | 1183.7 | 1174.1 | 1154.8 | 1147.1 | 1127.8 | 1124.0 | 1112.4 | 1104.7 | 1093.1 | 1097.0 | 1093.1 |
| 35°   | 1073.9 | 1062.3 | 1062.3 | 1058.4 | 1048.8 | 1046.9 | 1041.1 | 1037.2 | 1029.5 | 1031.4 | 1031.4 |
| 37.5° | 948.5  | 948.5  | 960.1  | 962.0  | 960.1  | 964.0  | 962.0  | 962.0  | 954.3  | 958.2  | 956.3  |
| 40°   | 819.4  | 830.9  | 852.1  | 863.7  | 867.6  | 875.3  | 884.9  | 881.1  | 877.2  | 883.0  | 881.1  |
| 42.5° | 694.1  | 717.2  | 750.0  | 769.2  | 782.7  | 794.3  | 807.8  | 807.8  | 805.9  | 813.6  | 811.7  |
| 45°   | 574.5  | 595.7  | 640.1  | 672.8  | 696.0  | 713.3  | 728.8  | 734.5  | 736.5  | 744.2  | 742.3  |
| 47.5° | 456.9  | 493.5  | 545.6  | 584.2  | 613.1  | 634.3  | 655.5  | 663.2  | 669.0  | 678.6  | 678.6  |
| 50°   | 362.5  | 408.7  | 468.5  | 507.0  | 541.7  | 564.9  | 586.1  | 597.7  | 605.4  | 613.1  | 613.1  |
| 52.5° | 291.1  | 339.3  | 397.2  | 437.6  | 470.4  | 495.5  | 516.7  | 530.2  | 536.0  | 545.6  | 545.6  |
| 55°   | 237.1  | 281.5  | 335.5  | 372.1  | 404.9  | 428.0  | 445.4  | 456.9  | 462.7  | 470.4  | 470.4  |
| 57.5° | 187.0  | 229.4  | 273.8  | 306.5  | 333.5  | 350.9  | 366.3  | 370.2  | 372.1  | 377.9  | 379.8  |
| 60°   | 140.7  | 173.5  | 210.1  | 235.2  | 254.5  | 266.1  | 277.6  | 275.7  | 273.8  | 277.6  | 273.8  |
| 62.5° | 100.3  | 123.4  | 150.4  | 165.8  | 181.2  | 187.0  | 192.8  | 188.9  | 185.1  | 187.0  | 187.0  |
| 65°   | 67.5   | 84.8   | 100.3  | 111.8  | 119.5  | 123.4  | 125.3  | 123.4  | 121.5  | 123.4  | 121.5  |
| 67.5° | 46.3   | 55.9   | 67.5   | 73.3   | 79.0   | 81.0   | 82.9   | 81.0   | 81.0   | 81.0   | 79.0   |
| 70°   | 30.8   | 36.6   | 44.3   | 48.2   | 50.1   | 52.1   | 54.0   | 52.1   | 52.1   | 52.1   | 52.1   |
| 72.5° | 21.2   | 25.1   | 27.0   | 30.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 75°   | 13.5   | 15.4   | 17.4   | 19.3   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   |
| 77.5° | 9.6    | 9.6    | 11.6   | 11.6   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   |
| 80°   | 5.8    | 5.8    | 7.7    | 7.7    | 7.7    | 7.7    | 9.6    | 7.7    | 9.6    | 9.6    | 9.6    |
| 82.5° | 3.9    | 3.9    | 3.9    | 3.9    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 85°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 3.9    | 1.9    | 3.9    | 3.9    | 3.9    |
| 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: P212749

CATALOG NUMBER: LD4B40D010 EU4B30509024 4LBSWLI1

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1459.4 | 1459.4 | 1459.4 | 1459.4 |
| 2.5°  | 1426.7 | 1422.8 | 1411.2 | 1424.7 |
| 5°    | 1395.8 | 1392.0 | 1382.3 | 1392.0 |
| 7.5°  | 1365.0 | 1359.2 | 1351.5 | 1357.3 |
| 10°   | 1328.3 | 1324.5 | 1314.8 | 1320.6 |
| 12.5° | 1301.4 | 1293.6 | 1287.9 | 1289.8 |
| 15°   | 1284.0 | 1276.3 | 1270.5 | 1272.4 |
| 17.5° | 1260.9 | 1253.2 | 1247.4 | 1247.4 |
| 20°   | 1235.8 | 1228.1 | 1224.2 | 1222.3 |
| 22.5° | 1214.6 | 1208.8 | 1206.9 | 1201.1 |
| 25°   | 1195.3 | 1191.5 | 1191.5 | 1183.7 |
| 27.5° | 1174.1 | 1168.3 | 1168.3 | 1160.6 |
| 30°   | 1137.5 | 1135.6 | 1135.6 | 1129.8 |
| 32.5° | 1089.3 | 1083.5 | 1087.4 | 1077.7 |
| 35°   | 1023.7 | 1019.9 | 1025.7 | 1017.9 |
| 37.5° | 952.4  | 950.5  | 954.3  | 948.5  |
| 40°   | 877.2  | 877.2  | 883.0  | 873.4  |
| 42.5° | 811.7  | 811.7  | 817.4  | 807.8  |
| 45°   | 740.3  | 746.1  | 751.9  | 744.2  |
| 47.5° | 678.6  | 682.5  | 690.2  | 682.5  |
| 50°   | 616.9  | 620.8  | 626.6  | 618.9  |
| 52.5° | 549.5  | 553.3  | 559.1  | 553.3  |
| 55°   | 472.3  | 476.2  | 482.0  | 478.1  |
| 57.5° | 379.8  | 375.9  | 385.6  | 377.9  |
| 60°   | 275.7  | 268.0  | 269.9  | 269.9  |
| 62.5° | 183.2  | 179.3  | 183.2  | 177.4  |
| 65°   | 121.5  | 119.5  | 119.5  | 119.5  |
| 67.5° | 81.0   | 79.0   | 81.0   | 79.0   |
| 70°   | 52.1   | 52.1   | 52.1   | 52.1   |
| 72.5° | 32.8   | 32.8   | 32.8   | 32.8   |
| 75°   | 21.2   | 21.2   | 21.2   | 21.2   |
| 77.5° | 13.5   | 13.5   | 13.5   | 13.5   |
| 80°   | 9.6    | 9.6    | 9.6    | 9.6    |
| 82.5° | 5.8    | 5.8    | 5.8    | 5.8    |
| 85°   | 3.9    | 3.9    | 3.9    | 3.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

























(END OF REPORT)