

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: P212733

Luminaire Tested: **LD4B30D010 EU4B30508035 4LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212733
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: LD4B30D010 EU4B30508035 4LBSWLI1
Description: PORTFOLIO 4 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.3 lumens
Efficiency: N/A
Efficacy: 96.9 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

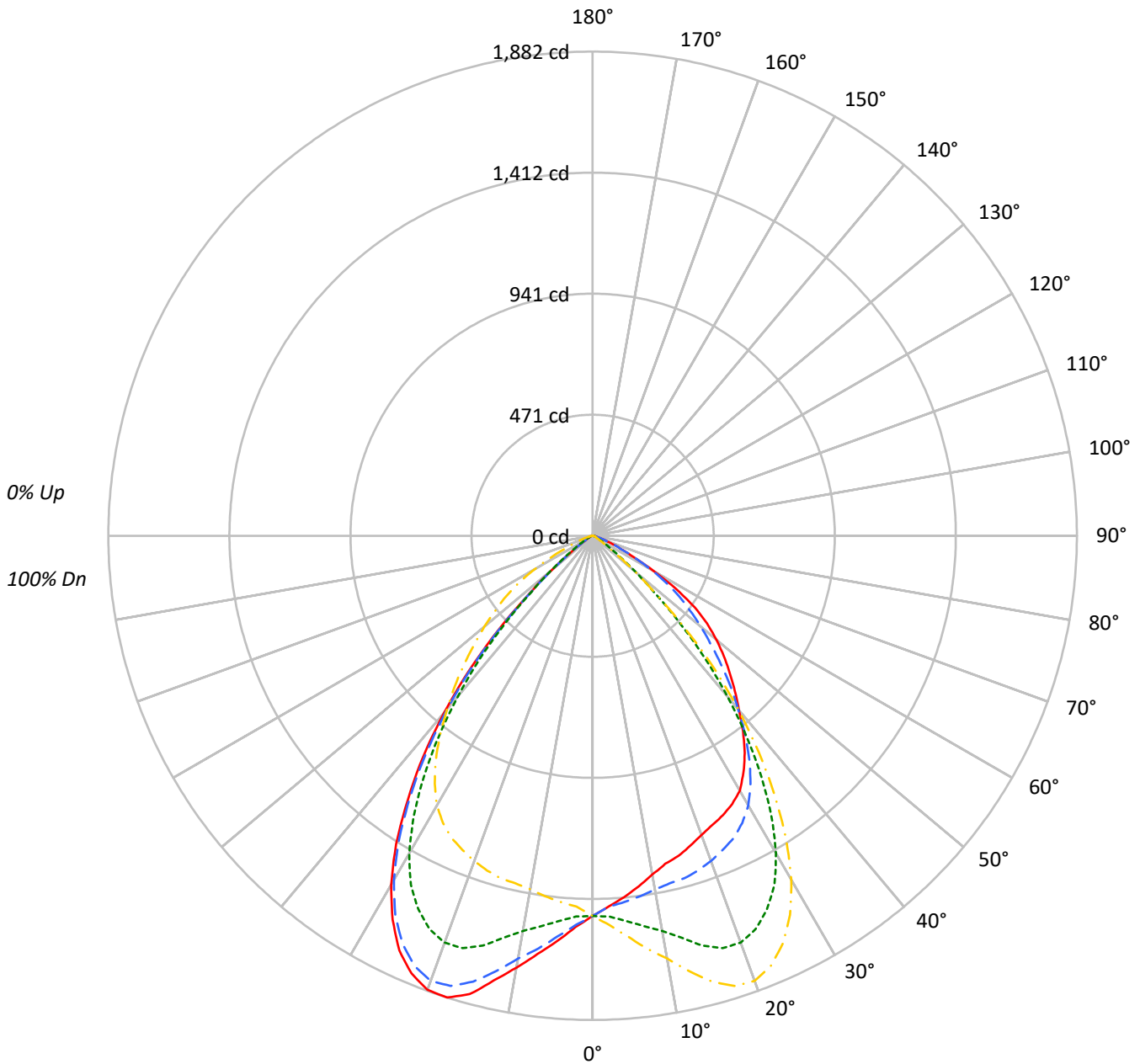
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWL11

Luminous Intensity Polar Plot





TEST NUMBER: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 83 | 82 | | | |
| 3 | 98 | 90 | 84 | 80 | 96 | 89 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 69 | 75 | 71 | 68 | 66 | | | |
| 5 | 86 | 76 | 69 | 63 | 84 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 60 | | | |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 56 | 54 | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 55 | 51 | 49 | | | |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 45 | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 46 | 43 | 41 | | | |
| 10 | 63 | 51 | 44 | 40 | 62 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 182255 | 182255 | 182255 | 182255 |
| 5° | 174495 | 186097 | 195767 | 186097 |
| 10° | 167470 | 195337 | 213436 | 195337 |
| 15° | 164512 | 210623 | 235549 | 210623 |
| 20° | 162436 | 220861 | 246483 | 220861 |
| 25° | 163112 | 218109 | 242007 | 218109 |
| 30° | 162908 | 202945 | 222970 | 202945 |
| 35° | 155185 | 172230 | 188402 | 172230 |
| 40° | 142371 | 131067 | 144577 | 131067 |
| 45° | 131438 | 83416 | 89887 | 83416 |
| 50° | 120239 | 40451 | 39338 | 40451 |
| 55° | 104104 | 17634 | 12602 | 17634 |
| 60° | 67421 | 8659 | 5773 | 8659 |
| 65° | 35315 | 5691 | 4553 | 5691 |
| 70° | 19006 | 4219 | 3534 | 4219 |
| 75° | 10246 | 3717 | 2812 | 3717 |
| 80° | 6961 | 2770 | 1421 | 2770 |
| 85° | 5519 | 2830 | 0 | 2830 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.0 | 5.3 |
| 10°-20° | 450.6 | 16.6 |
| 20°-30° | 700.6 | 25.8 |
| 30°-40° | 707.6 | 26.1 |
| 40°-50° | 448.1 | 16.5 |
| 50°-60° | 188.1 | 6.9 |
| 60°-70° | 59.6 | 2.2 |
| 70°-80° | 13.7 | 0.5 |
| 80°-90° | 2.0 | 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° | 1295.3 | 47.7 |
| 0°-40° | 2002.9 | 73.8 |
| 0°-60° | 2639.1 | 97.2 |
| 0°-90° | 2714.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2714.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1478 | 1478 | 1478 | 1478 | 1478 | |
| 5° | 1409 | 1503 | 1581 | 1503 | 1409 | 132 |
| 15° | 1288 | 1649 | 1845 | 1649 | 1288 | 363 |
| 25° | 1198 | 1603 | 1778 | 1603 | 1198 | 552 |
| 35° | 1031 | 1144 | 1251 | 1144 | 1031 | 640 |
| 45° | 754 | 478 | 515 | 478 | 754 | 582 |
| 55° | 484 | 82 | 59 | 82 | 484 | 418 |
| 65° | 121 | 20 | 16 | 20 | 121 | 134 |
| 75° | 22 | 8 | 6 | 8 | 22 | 26 |
| 85° | 4 | 2 | 0 | 2 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P212733

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1442.5 | 1428.8 | 1440.5 | 1444.4 | 1444.4 | 1442.5 | 1446.4 | 1442.5 | 1436.6 | 1460.1 | 1442.5 |
| 5° | 1409.3 | 1399.5 | 1409.3 | 1413.2 | 1415.2 | 1417.1 | 1421.0 | 1421.0 | 1419.1 | 1440.5 | 1428.8 |
| 7.5° | 1374.2 | 1368.3 | 1376.1 | 1382.0 | 1389.8 | 1387.8 | 1393.7 | 1395.6 | 1399.5 | 1424.9 | 1413.2 |
| 10° | 1337.1 | 1331.2 | 1341.0 | 1344.9 | 1354.7 | 1356.6 | 1360.5 | 1366.4 | 1374.2 | 1399.5 | 1395.6 |
| 12.5° | 1305.9 | 1303.9 | 1309.8 | 1317.6 | 1327.3 | 1329.3 | 1333.2 | 1342.9 | 1354.7 | 1382.0 | 1383.9 |
| 15° | 1288.3 | 1286.3 | 1292.2 | 1300.0 | 1307.8 | 1311.7 | 1315.6 | 1329.3 | 1341.0 | 1370.3 | 1378.1 |
| 17.5° | 1262.9 | 1262.9 | 1268.8 | 1276.6 | 1286.3 | 1290.2 | 1296.1 | 1309.8 | 1325.4 | 1354.7 | 1364.4 |
| 20° | 1237.5 | 1239.5 | 1243.4 | 1251.2 | 1261.0 | 1264.9 | 1270.7 | 1284.4 | 1302.0 | 1331.2 | 1344.9 |
| 22.5° | 1216.1 | 1221.9 | 1223.9 | 1229.7 | 1239.5 | 1245.3 | 1247.3 | 1262.9 | 1278.5 | 1303.9 | 1321.5 |
| 25° | 1198.5 | 1206.3 | 1206.3 | 1210.2 | 1221.9 | 1223.9 | 1225.8 | 1241.4 | 1255.1 | 1278.5 | 1296.1 |
| 27.5° | 1175.1 | 1182.9 | 1182.9 | 1188.7 | 1196.5 | 1200.5 | 1200.5 | 1214.1 | 1227.8 | 1245.3 | 1259.0 |
| 30° | 1143.8 | 1149.7 | 1149.7 | 1151.7 | 1159.5 | 1163.4 | 1161.4 | 1175.1 | 1184.8 | 1196.5 | 1210.2 |
| 32.5° | 1091.1 | 1100.9 | 1097.0 | 1102.9 | 1106.8 | 1110.7 | 1106.8 | 1118.5 | 1126.3 | 1138.0 | 1141.9 |
| 35° | 1030.6 | 1038.4 | 1032.6 | 1036.5 | 1044.3 | 1044.3 | 1042.3 | 1050.2 | 1054.1 | 1059.9 | 1061.9 |
| 37.5° | 960.4 | 966.2 | 962.3 | 964.3 | 968.2 | 970.1 | 966.2 | 974.0 | 974.0 | 976.0 | 972.1 |
| 40° | 884.2 | 894.0 | 888.1 | 888.1 | 892.0 | 894.0 | 888.1 | 892.0 | 895.9 | 886.2 | 878.4 |
| 42.5° | 817.9 | 827.6 | 821.8 | 821.8 | 821.8 | 823.7 | 815.9 | 817.9 | 817.9 | 804.2 | 792.5 |
| 45° | 753.5 | 761.3 | 755.4 | 749.5 | 751.5 | 753.5 | 745.6 | 743.7 | 737.8 | 722.2 | 704.7 |
| 47.5° | 691.0 | 698.8 | 691.0 | 687.1 | 687.1 | 687.1 | 677.3 | 671.5 | 663.7 | 642.2 | 620.7 |
| 50° | 626.6 | 634.4 | 628.5 | 624.6 | 620.7 | 620.7 | 612.9 | 605.1 | 593.4 | 571.9 | 548.5 |
| 52.5° | 560.2 | 566.1 | 560.2 | 556.3 | 552.4 | 552.4 | 542.6 | 536.8 | 523.1 | 501.7 | 476.3 |
| 55° | 484.1 | 488.0 | 482.1 | 478.2 | 476.3 | 476.3 | 468.5 | 462.6 | 450.9 | 433.3 | 409.9 |
| 57.5° | 382.6 | 390.4 | 380.6 | 384.5 | 384.5 | 382.6 | 376.7 | 374.8 | 370.9 | 355.3 | 337.7 |
| 60° | 273.3 | 273.3 | 271.3 | 279.1 | 277.2 | 281.1 | 277.2 | 279.1 | 281.1 | 269.4 | 257.7 |
| 62.5° | 179.6 | 185.4 | 181.5 | 185.4 | 189.3 | 189.3 | 187.4 | 191.3 | 195.2 | 189.3 | 183.5 |
| 65° | 121.0 | 121.0 | 121.0 | 123.0 | 123.0 | 124.9 | 123.0 | 124.9 | 126.9 | 124.9 | 121.0 |
| 67.5° | 80.0 | 82.0 | 80.0 | 82.0 | 80.0 | 82.0 | 82.0 | 82.0 | 83.9 | 82.0 | 80.0 |
| 70° | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 54.7 | 52.7 | 50.8 |
| 72.5° | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 75° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| 77.5° | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 80° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 7.8 | 9.8 | 7.8 | 7.8 |
| 82.5° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 85° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.0 | 3.9 | 2.0 | 2.0 |
| 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: P212733

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1452.3 | 1446.4 | 1475.7 | 1450.3 | 1464.0 | 1462.0 | 1464.0 | 1475.7 | 1475.7 | 1481.5 | 1479.6 |
| 5° | 1444.4 | 1438.6 | 1471.8 | 1452.3 | 1467.9 | 1467.9 | 1473.7 | 1491.3 | 1491.3 | 1503.0 | 1505.0 |
| 7.5° | 1432.7 | 1434.7 | 1469.8 | 1458.1 | 1475.7 | 1477.6 | 1487.4 | 1508.9 | 1514.7 | 1530.3 | 1538.1 |
| 10° | 1419.1 | 1426.9 | 1464.0 | 1460.1 | 1483.5 | 1485.4 | 1505.0 | 1530.3 | 1538.1 | 1559.6 | 1573.3 |
| 12.5° | 1413.2 | 1426.9 | 1469.8 | 1473.7 | 1497.1 | 1506.9 | 1528.4 | 1561.6 | 1575.2 | 1600.6 | 1620.1 |
| 15° | 1411.3 | 1430.8 | 1477.6 | 1491.3 | 1518.6 | 1532.3 | 1561.6 | 1600.6 | 1616.2 | 1649.4 | 1672.8 |
| 17.5° | 1401.5 | 1426.9 | 1477.6 | 1499.1 | 1528.4 | 1542.0 | 1579.1 | 1624.0 | 1643.5 | 1680.6 | 1708.0 |
| 20° | 1383.9 | 1411.3 | 1462.0 | 1489.3 | 1520.6 | 1540.1 | 1577.2 | 1624.0 | 1643.5 | 1682.6 | 1713.8 |
| 22.5° | 1360.5 | 1387.8 | 1436.6 | 1467.9 | 1495.2 | 1516.7 | 1555.7 | 1600.6 | 1618.2 | 1655.3 | 1686.5 |
| 25° | 1331.2 | 1358.6 | 1399.5 | 1430.8 | 1456.2 | 1475.7 | 1508.9 | 1555.7 | 1567.4 | 1602.6 | 1635.7 |
| 27.5° | 1290.2 | 1315.6 | 1346.8 | 1376.1 | 1399.5 | 1415.2 | 1444.4 | 1485.4 | 1495.2 | 1530.3 | 1557.7 |
| 30° | 1235.6 | 1251.2 | 1278.5 | 1298.0 | 1315.6 | 1331.2 | 1352.7 | 1389.8 | 1393.7 | 1424.9 | 1450.3 |
| 32.5° | 1161.4 | 1169.2 | 1188.7 | 1198.5 | 1214.1 | 1220.0 | 1237.5 | 1268.8 | 1264.9 | 1294.1 | 1315.6 |
| 35° | 1071.6 | 1075.5 | 1075.5 | 1087.2 | 1091.1 | 1093.1 | 1106.8 | 1124.3 | 1118.5 | 1143.8 | 1159.5 |
| 37.5° | 974.0 | 972.1 | 960.4 | 960.4 | 962.3 | 956.5 | 962.3 | 970.1 | 962.3 | 981.8 | 995.5 |
| 40° | 874.5 | 862.8 | 841.3 | 829.6 | 823.7 | 821.8 | 810.1 | 819.8 | 800.3 | 814.0 | 823.7 |
| 42.5° | 778.8 | 759.3 | 726.1 | 702.7 | 692.9 | 683.2 | 663.7 | 663.7 | 638.3 | 648.0 | 650.0 |
| 45° | 681.2 | 648.0 | 603.2 | 581.7 | 556.3 | 540.7 | 515.3 | 489.9 | 472.4 | 478.2 | 472.4 |
| 47.5° | 591.4 | 552.4 | 499.7 | 462.6 | 433.3 | 411.9 | 376.7 | 347.4 | 329.9 | 322.1 | 314.3 |
| 50° | 513.4 | 474.3 | 413.8 | 367.0 | 337.7 | 312.3 | 277.2 | 244.0 | 222.5 | 210.8 | 205.0 |
| 52.5° | 443.1 | 402.1 | 343.5 | 294.7 | 263.5 | 240.1 | 201.1 | 167.9 | 144.4 | 130.8 | 123.0 |
| 55° | 376.7 | 339.6 | 285.0 | 240.1 | 210.8 | 187.4 | 148.3 | 117.1 | 95.6 | 82.0 | 72.2 |
| 57.5° | 310.4 | 277.2 | 232.3 | 189.3 | 164.0 | 142.5 | 109.3 | 82.0 | 64.4 | 52.7 | 44.9 |
| 60° | 238.1 | 212.8 | 175.7 | 142.5 | 121.0 | 103.5 | 78.1 | 56.6 | 44.9 | 35.1 | 31.2 |
| 62.5° | 167.9 | 152.3 | 124.9 | 101.5 | 87.8 | 74.2 | 54.7 | 41.0 | 31.2 | 25.4 | 23.4 |
| 65° | 113.2 | 101.5 | 85.9 | 68.3 | 58.6 | 50.8 | 39.0 | 29.3 | 23.4 | 19.5 | 17.6 |
| 67.5° | 74.2 | 68.3 | 56.6 | 46.8 | 41.0 | 35.1 | 27.3 | 21.5 | 17.6 | 15.6 | 13.7 |
| 70° | 48.8 | 44.9 | 37.1 | 31.2 | 29.3 | 25.4 | 19.5 | 15.6 | 13.7 | 11.7 | 11.7 |
| 72.5° | 31.2 | 27.3 | 25.4 | 21.5 | 19.5 | 17.6 | 13.7 | 11.7 | 9.8 | 9.8 | 9.8 |
| 75° | 19.5 | 17.6 | 15.6 | 13.7 | 13.7 | 11.7 | 9.8 | 9.8 | 7.8 | 7.8 | 7.8 |
| 77.5° | 11.7 | 11.7 | 9.8 | 9.8 | 7.8 | 7.8 | 7.8 | 5.9 | 5.9 | 5.9 | 5.9 |
| 80° | 7.8 | 7.8 | 5.9 | 5.9 | 5.9 | 5.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1489.3 | 1493.2 | 1489.3 | 1501.1 | 1481.5 | 1503.0 | 1495.2 | 1499.1 | 1514.7 | 1508.9 | 1514.7 |
| 5° | 1518.6 | 1526.4 | 1526.4 | 1540.1 | 1522.5 | 1547.9 | 1540.1 | 1547.9 | 1563.5 | 1563.5 | 1571.3 |
| 7.5° | 1555.7 | 1565.5 | 1569.4 | 1583.0 | 1565.5 | 1596.7 | 1588.9 | 1598.6 | 1618.2 | 1618.2 | 1624.0 |
| 10° | 1594.7 | 1606.5 | 1614.3 | 1629.9 | 1610.4 | 1645.5 | 1637.7 | 1651.4 | 1668.9 | 1670.9 | 1680.6 |
| 12.5° | 1643.5 | 1659.2 | 1668.9 | 1682.6 | 1668.9 | 1704.1 | 1696.2 | 1709.9 | 1733.3 | 1735.3 | 1747.0 |
| 15° | 1698.2 | 1717.7 | 1729.4 | 1745.0 | 1729.4 | 1768.5 | 1760.7 | 1776.3 | 1793.8 | 1801.7 | 1813.4 |
| 17.5° | 1733.3 | 1756.8 | 1766.5 | 1784.1 | 1768.5 | 1807.5 | 1797.7 | 1819.2 | 1834.8 | 1838.7 | 1852.4 |
| 20° | 1739.2 | 1760.7 | 1774.3 | 1788.0 | 1774.3 | 1813.4 | 1803.6 | 1821.2 | 1840.7 | 1844.6 | 1854.4 |
| 22.5° | 1713.8 | 1731.4 | 1747.0 | 1758.7 | 1747.0 | 1786.0 | 1772.4 | 1791.9 | 1809.5 | 1813.4 | 1821.2 |
| 25° | 1655.3 | 1676.7 | 1692.3 | 1702.1 | 1690.4 | 1727.5 | 1715.8 | 1733.3 | 1748.9 | 1756.8 | 1758.7 |
| 27.5° | 1573.3 | 1592.8 | 1608.4 | 1614.3 | 1606.5 | 1641.6 | 1626.0 | 1647.4 | 1661.1 | 1665.0 | 1670.9 |
| 30° | 1462.0 | 1479.6 | 1495.2 | 1499.1 | 1493.2 | 1518.6 | 1510.8 | 1530.3 | 1544.0 | 1547.9 | 1551.8 |
| 32.5° | 1325.4 | 1342.9 | 1352.7 | 1356.6 | 1350.8 | 1376.1 | 1368.3 | 1383.9 | 1399.5 | 1399.5 | 1399.5 |
| 35° | 1171.2 | 1186.8 | 1192.6 | 1204.4 | 1190.7 | 1216.1 | 1208.3 | 1221.9 | 1235.6 | 1235.6 | 1237.5 |
| 37.5° | 1005.3 | 1017.0 | 1020.9 | 1032.6 | 1018.9 | 1042.3 | 1036.5 | 1048.2 | 1059.9 | 1058.0 | 1061.9 |
| 40° | 827.6 | 839.3 | 843.2 | 853.0 | 841.3 | 860.8 | 856.9 | 868.6 | 878.4 | 878.4 | 878.4 |
| 42.5° | 655.9 | 663.7 | 663.7 | 673.4 | 661.7 | 679.3 | 679.3 | 687.1 | 696.8 | 694.9 | 694.9 |
| 45° | 476.3 | 474.3 | 478.2 | 476.3 | 476.3 | 491.9 | 491.9 | 495.8 | 503.6 | 499.7 | 501.7 |
| 47.5° | 316.2 | 318.2 | 310.4 | 316.2 | 308.4 | 322.1 | 322.1 | 322.1 | 327.9 | 324.0 | 327.9 |
| 50° | 201.1 | 195.2 | 191.3 | 191.3 | 189.3 | 199.1 | 195.2 | 197.1 | 201.1 | 197.1 | 201.1 |
| 52.5° | 113.2 | 111.3 | 107.4 | 109.3 | 105.4 | 107.4 | 107.4 | 107.4 | 109.3 | 107.4 | 111.3 |
| 55° | 66.4 | 60.5 | 58.6 | 58.6 | 56.6 | 58.6 | 56.6 | 56.6 | 56.6 | 54.7 | 56.6 |
| 57.5° | 39.0 | 37.1 | 35.1 | 35.1 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 60° | 27.3 | 25.4 | 25.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 |
| 62.5° | 21.5 | 19.5 | 19.5 | 19.5 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 19.5 | 17.6 |
| 65° | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 13.7 | 15.6 | 15.6 | 15.6 | 15.6 |
| 67.5° | 13.7 | 13.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 70° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 72.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 75° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 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 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 0.0 | 2.0 | 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: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° | 185° | 190° | 195° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1520.6 | 1512.8 | 1495.2 | 1506.9 | 1508.9 | 1501.1 | 1510.8 | 1522.5 | 1510.8 | 1501.1 | 1508.9 |
| 5° | 1577.2 | 1571.3 | 1555.7 | 1565.5 | 1567.4 | 1565.5 | 1571.3 | 1581.1 | 1571.3 | 1565.5 | 1567.4 |
| 7.5° | 1633.8 | 1629.9 | 1612.3 | 1624.0 | 1627.9 | 1624.0 | 1629.9 | 1639.6 | 1629.9 | 1624.0 | 1627.9 |
| 10° | 1688.4 | 1686.5 | 1668.9 | 1684.5 | 1686.5 | 1682.6 | 1688.4 | 1704.1 | 1688.4 | 1682.6 | 1686.5 |
| 12.5° | 1750.9 | 1754.8 | 1735.3 | 1752.9 | 1754.8 | 1750.9 | 1758.7 | 1770.4 | 1758.7 | 1750.9 | 1754.8 |
| 15° | 1823.1 | 1821.2 | 1805.6 | 1819.2 | 1823.1 | 1819.2 | 1829.0 | 1844.6 | 1829.0 | 1819.2 | 1823.1 |
| 17.5° | 1858.3 | 1858.3 | 1846.5 | 1860.2 | 1862.2 | 1862.2 | 1870.0 | 1881.7 | 1870.0 | 1862.2 | 1862.2 |
| 20° | 1860.2 | 1862.2 | 1848.5 | 1864.1 | 1864.1 | 1864.1 | 1871.9 | 1877.8 | 1871.9 | 1864.1 | 1864.1 |
| 22.5° | 1829.0 | 1830.9 | 1817.3 | 1830.9 | 1830.9 | 1832.9 | 1836.8 | 1840.7 | 1836.8 | 1832.9 | 1830.9 |
| 25° | 1768.5 | 1770.4 | 1758.7 | 1770.4 | 1768.5 | 1768.5 | 1772.4 | 1778.2 | 1772.4 | 1768.5 | 1768.5 |
| 27.5° | 1678.7 | 1680.6 | 1665.0 | 1678.7 | 1676.7 | 1674.8 | 1680.6 | 1682.6 | 1680.6 | 1674.8 | 1676.7 |
| 30° | 1559.6 | 1561.6 | 1547.9 | 1559.6 | 1557.7 | 1555.7 | 1563.5 | 1565.5 | 1563.5 | 1555.7 | 1557.7 |
| 32.5° | 1417.1 | 1413.2 | 1403.5 | 1413.2 | 1411.3 | 1411.3 | 1415.2 | 1421.0 | 1415.2 | 1411.3 | 1411.3 |
| 35° | 1245.3 | 1245.3 | 1239.5 | 1247.3 | 1241.4 | 1249.2 | 1249.2 | 1251.2 | 1249.2 | 1249.2 | 1241.4 |
| 37.5° | 1069.7 | 1069.7 | 1065.8 | 1069.7 | 1067.7 | 1075.5 | 1075.5 | 1081.4 | 1075.5 | 1075.5 | 1067.7 |
| 40° | 886.2 | 886.2 | 882.3 | 886.2 | 892.0 | 892.0 | 890.1 | 897.9 | 890.1 | 892.0 | 892.0 |
| 42.5° | 700.8 | 700.8 | 698.8 | 708.6 | 708.6 | 708.6 | 702.7 | 710.5 | 702.7 | 708.6 | 708.6 |
| 45° | 509.5 | 505.6 | 503.6 | 503.6 | 505.6 | 513.4 | 505.6 | 515.3 | 505.6 | 513.4 | 505.6 |
| 47.5° | 324.0 | 326.0 | 327.9 | 333.8 | 329.9 | 327.9 | 327.9 | 333.8 | 327.9 | 327.9 | 329.9 |
| 50° | 199.1 | 201.1 | 201.1 | 205.0 | 199.1 | 203.0 | 201.1 | 205.0 | 201.1 | 203.0 | 199.1 |
| 52.5° | 109.3 | 109.3 | 109.3 | 113.2 | 109.3 | 111.3 | 109.3 | 113.2 | 109.3 | 111.3 | 109.3 |
| 55° | 56.6 | 56.6 | 56.6 | 58.6 | 56.6 | 56.6 | 56.6 | 58.6 | 56.6 | 56.6 | 56.6 |
| 57.5° | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 60° | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 |
| 62.5° | 19.5 | 17.6 | 17.6 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |
| 65° | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| 67.5° | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 70° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 72.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 75° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 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° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

CANDELA DISTRIBUTION (continued):

| | 200° | 202.5° | 205° | 210° | 215° | 220° | 225° | 230° | 235° | 240° | 245° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1506.9 | 1495.2 | 1512.8 | 1520.6 | 1514.7 | 1508.9 | 1514.7 | 1499.1 | 1495.2 | 1503.0 | 1481.5 |
| 5° | 1565.5 | 1555.7 | 1571.3 | 1577.2 | 1571.3 | 1563.5 | 1563.5 | 1547.9 | 1540.1 | 1547.9 | 1522.5 |
| 7.5° | 1624.0 | 1612.3 | 1629.9 | 1633.8 | 1624.0 | 1618.2 | 1618.2 | 1598.6 | 1588.9 | 1596.7 | 1565.5 |
| 10° | 1684.5 | 1668.9 | 1686.5 | 1688.4 | 1680.6 | 1670.9 | 1668.9 | 1651.4 | 1637.7 | 1645.5 | 1610.4 |
| 12.5° | 1752.9 | 1735.3 | 1754.8 | 1750.9 | 1747.0 | 1735.3 | 1733.3 | 1709.9 | 1696.2 | 1704.1 | 1668.9 |
| 15° | 1819.2 | 1805.6 | 1821.2 | 1823.1 | 1813.4 | 1801.7 | 1793.8 | 1776.3 | 1760.7 | 1768.5 | 1729.4 |
| 17.5° | 1860.2 | 1846.5 | 1858.3 | 1858.3 | 1852.4 | 1838.7 | 1834.8 | 1819.2 | 1797.7 | 1807.5 | 1768.5 |
| 20° | 1864.1 | 1848.5 | 1862.2 | 1860.2 | 1854.4 | 1844.6 | 1840.7 | 1821.2 | 1803.6 | 1813.4 | 1774.3 |
| 22.5° | 1830.9 | 1817.3 | 1830.9 | 1829.0 | 1821.2 | 1813.4 | 1809.5 | 1791.9 | 1772.4 | 1786.0 | 1747.0 |
| 25° | 1770.4 | 1758.7 | 1770.4 | 1768.5 | 1758.7 | 1756.8 | 1748.9 | 1733.3 | 1715.8 | 1727.5 | 1690.4 |
| 27.5° | 1678.7 | 1665.0 | 1680.6 | 1678.7 | 1670.9 | 1665.0 | 1661.1 | 1647.4 | 1626.0 | 1641.6 | 1606.5 |
| 30° | 1559.6 | 1547.9 | 1561.6 | 1559.6 | 1551.8 | 1547.9 | 1544.0 | 1530.3 | 1510.8 | 1518.6 | 1493.2 |
| 32.5° | 1413.2 | 1403.5 | 1413.2 | 1417.1 | 1399.5 | 1399.5 | 1399.5 | 1383.9 | 1368.3 | 1376.1 | 1350.8 |
| 35° | 1247.3 | 1239.5 | 1245.3 | 1245.3 | 1237.5 | 1235.6 | 1235.6 | 1221.9 | 1208.3 | 1216.1 | 1190.7 |
| 37.5° | 1069.7 | 1065.8 | 1069.7 | 1069.7 | 1061.9 | 1058.0 | 1059.9 | 1048.2 | 1036.5 | 1042.3 | 1018.9 |
| 40° | 886.2 | 882.3 | 886.2 | 886.2 | 878.4 | 878.4 | 878.4 | 868.6 | 856.9 | 860.8 | 841.3 |
| 42.5° | 708.6 | 698.8 | 700.8 | 700.8 | 694.9 | 694.9 | 696.8 | 687.1 | 679.3 | 679.3 | 661.7 |
| 45° | 503.6 | 503.6 | 505.6 | 509.5 | 501.7 | 499.7 | 503.6 | 495.8 | 491.9 | 491.9 | 476.3 |
| 47.5° | 333.8 | 327.9 | 326.0 | 324.0 | 327.9 | 324.0 | 327.9 | 322.1 | 322.1 | 322.1 | 308.4 |
| 50° | 205.0 | 201.1 | 201.1 | 199.1 | 201.1 | 197.1 | 201.1 | 197.1 | 195.2 | 199.1 | 189.3 |
| 52.5° | 113.2 | 109.3 | 109.3 | 109.3 | 111.3 | 107.4 | 109.3 | 107.4 | 107.4 | 107.4 | 105.4 |
| 55° | 58.6 | 56.6 | 56.6 | 56.6 | 56.6 | 54.7 | 56.6 | 56.6 | 56.6 | 58.6 | 56.6 |
| 57.5° | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 60° | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 |
| 62.5° | 19.5 | 17.6 | 17.6 | 19.5 | 17.6 | 19.5 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 65° | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 13.7 | 15.6 | 15.6 |
| 67.5° | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 70° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 72.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 75° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 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° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 255° | 260° | 265° | 270° | 275° | 280° | 285° | 290° | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1501.1 | 1489.3 | 1493.2 | 1489.3 | 1479.6 | 1481.5 | 1475.7 | 1475.7 | 1464.0 | 1462.0 | 1464.0 |
| 5° | 1540.1 | 1526.4 | 1526.4 | 1518.6 | 1505.0 | 1503.0 | 1491.3 | 1491.3 | 1473.7 | 1467.9 | 1467.9 |
| 7.5° | 1583.0 | 1569.4 | 1565.5 | 1555.7 | 1538.1 | 1530.3 | 1514.7 | 1508.9 | 1487.4 | 1477.6 | 1475.7 |
| 10° | 1629.9 | 1614.3 | 1606.5 | 1594.7 | 1573.3 | 1559.6 | 1538.1 | 1530.3 | 1505.0 | 1485.4 | 1483.5 |
| 12.5° | 1682.6 | 1668.9 | 1659.2 | 1643.5 | 1620.1 | 1600.6 | 1575.2 | 1561.6 | 1528.4 | 1506.9 | 1497.1 |
| 15° | 1745.0 | 1729.4 | 1717.7 | 1698.2 | 1672.8 | 1649.4 | 1616.2 | 1600.6 | 1561.6 | 1532.3 | 1518.6 |
| 17.5° | 1784.1 | 1766.5 | 1756.8 | 1733.3 | 1708.0 | 1680.6 | 1643.5 | 1624.0 | 1579.1 | 1542.0 | 1528.4 |
| 20° | 1788.0 | 1774.3 | 1760.7 | 1739.2 | 1713.8 | 1682.6 | 1643.5 | 1624.0 | 1577.2 | 1540.1 | 1520.6 |
| 22.5° | 1758.7 | 1747.0 | 1731.4 | 1713.8 | 1686.5 | 1655.3 | 1618.2 | 1600.6 | 1555.7 | 1516.7 | 1495.2 |
| 25° | 1702.1 | 1692.3 | 1676.7 | 1655.3 | 1635.7 | 1602.6 | 1567.4 | 1555.7 | 1508.9 | 1475.7 | 1456.2 |
| 27.5° | 1614.3 | 1608.4 | 1592.8 | 1573.3 | 1557.7 | 1530.3 | 1495.2 | 1485.4 | 1444.4 | 1415.2 | 1399.5 |
| 30° | 1499.1 | 1495.2 | 1479.6 | 1462.0 | 1450.3 | 1424.9 | 1393.7 | 1389.8 | 1352.7 | 1331.2 | 1315.6 |
| 32.5° | 1356.6 | 1352.7 | 1342.9 | 1325.4 | 1315.6 | 1294.1 | 1264.9 | 1268.8 | 1237.5 | 1220.0 | 1214.1 |
| 35° | 1204.4 | 1192.6 | 1186.8 | 1171.2 | 1159.5 | 1143.8 | 1118.5 | 1124.3 | 1106.8 | 1093.1 | 1091.1 |
| 37.5° | 1032.6 | 1020.9 | 1017.0 | 1005.3 | 995.5 | 981.8 | 962.3 | 970.1 | 962.3 | 956.5 | 962.3 |
| 40° | 853.0 | 843.2 | 839.3 | 827.6 | 823.7 | 814.0 | 800.3 | 819.8 | 810.1 | 821.8 | 823.7 |
| 42.5° | 673.4 | 663.7 | 663.7 | 655.9 | 650.0 | 648.0 | 638.3 | 663.7 | 663.7 | 683.2 | 692.9 |
| 45° | 476.3 | 478.2 | 474.3 | 476.3 | 472.4 | 478.2 | 472.4 | 489.9 | 515.3 | 540.7 | 556.3 |
| 47.5° | 316.2 | 310.4 | 318.2 | 316.2 | 314.3 | 322.1 | 329.9 | 347.4 | 376.7 | 411.9 | 433.3 |
| 50° | 191.3 | 191.3 | 195.2 | 201.1 | 205.0 | 210.8 | 222.5 | 244.0 | 277.2 | 312.3 | 337.7 |
| 52.5° | 109.3 | 107.4 | 111.3 | 113.2 | 123.0 | 130.8 | 144.4 | 167.9 | 201.1 | 240.1 | 263.5 |
| 55° | 58.6 | 58.6 | 60.5 | 66.4 | 72.2 | 82.0 | 95.6 | 117.1 | 148.3 | 187.4 | 210.8 |
| 57.5° | 35.1 | 35.1 | 37.1 | 39.0 | 44.9 | 52.7 | 64.4 | 82.0 | 109.3 | 142.5 | 164.0 |
| 60° | 23.4 | 25.4 | 25.4 | 27.3 | 31.2 | 35.1 | 44.9 | 56.6 | 78.1 | 103.5 | 121.0 |
| 62.5° | 19.5 | 19.5 | 19.5 | 21.5 | 23.4 | 25.4 | 31.2 | 41.0 | 54.7 | 74.2 | 87.8 |
| 65° | 15.6 | 15.6 | 15.6 | 15.6 | 17.6 | 19.5 | 23.4 | 29.3 | 39.0 | 50.8 | 58.6 |
| 67.5° | 11.7 | 11.7 | 13.7 | 13.7 | 13.7 | 15.6 | 17.6 | 21.5 | 27.3 | 35.1 | 41.0 |
| 70° | 9.8 | 9.8 | 9.8 | 9.8 | 11.7 | 11.7 | 13.7 | 15.6 | 19.5 | 25.4 | 29.3 |
| 72.5° | 7.8 | 7.8 | 7.8 | 7.8 | 9.8 | 9.8 | 9.8 | 11.7 | 13.7 | 17.6 | 19.5 |
| 75° | 5.9 | 5.9 | 5.9 | 5.9 | 7.8 | 7.8 | 7.8 | 9.8 | 9.8 | 11.7 | 13.7 |
| 77.5° | 3.9 | 3.9 | 3.9 | 3.9 | 5.9 | 5.9 | 5.9 | 5.9 | 7.8 | 7.8 | 7.8 |
| 80° | 2.0 | 2.0 | 2.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 5.9 | 5.9 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.9 | 3.9 |
| 85° | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

CANDELA DISTRIBUTION (continued):

| | 295° | 300° | 305° | 310° | 315° | 320° | 325° | 330° | 335° | 337.5° | 340° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1450.3 | 1475.7 | 1446.4 | 1452.3 | 1442.5 | 1460.1 | 1436.6 | 1442.5 | 1446.4 | 1442.5 | 1444.4 |
| 5° | 1452.3 | 1471.8 | 1438.6 | 1444.4 | 1428.8 | 1440.5 | 1419.1 | 1421.0 | 1421.0 | 1417.1 | 1415.2 |
| 7.5° | 1458.1 | 1469.8 | 1434.7 | 1432.7 | 1413.2 | 1424.9 | 1399.5 | 1395.6 | 1393.7 | 1387.8 | 1389.8 |
| 10° | 1460.1 | 1464.0 | 1426.9 | 1419.1 | 1395.6 | 1399.5 | 1374.2 | 1366.4 | 1360.5 | 1356.6 | 1354.7 |
| 12.5° | 1473.7 | 1469.8 | 1426.9 | 1413.2 | 1383.9 | 1382.0 | 1354.7 | 1342.9 | 1333.2 | 1329.3 | 1327.3 |
| 15° | 1491.3 | 1477.6 | 1430.8 | 1411.3 | 1378.1 | 1370.3 | 1341.0 | 1329.3 | 1315.6 | 1311.7 | 1307.8 |
| 17.5° | 1499.1 | 1477.6 | 1426.9 | 1401.5 | 1364.4 | 1354.7 | 1325.4 | 1309.8 | 1296.1 | 1290.2 | 1286.3 |
| 20° | 1489.3 | 1462.0 | 1411.3 | 1383.9 | 1344.9 | 1331.2 | 1302.0 | 1284.4 | 1270.7 | 1264.9 | 1261.0 |
| 22.5° | 1467.9 | 1436.6 | 1387.8 | 1360.5 | 1321.5 | 1303.9 | 1278.5 | 1262.9 | 1247.3 | 1245.3 | 1239.5 |
| 25° | 1430.8 | 1399.5 | 1358.6 | 1331.2 | 1296.1 | 1278.5 | 1255.1 | 1241.4 | 1225.8 | 1223.9 | 1221.9 |
| 27.5° | 1376.1 | 1346.8 | 1315.6 | 1290.2 | 1259.0 | 1245.3 | 1227.8 | 1214.1 | 1200.5 | 1200.5 | 1196.5 |
| 30° | 1298.0 | 1278.5 | 1251.2 | 1235.6 | 1210.2 | 1196.5 | 1184.8 | 1175.1 | 1161.4 | 1163.4 | 1159.5 |
| 32.5° | 1198.5 | 1188.7 | 1169.2 | 1161.4 | 1141.9 | 1138.0 | 1126.3 | 1118.5 | 1106.8 | 1110.7 | 1106.8 |
| 35° | 1087.2 | 1075.5 | 1075.5 | 1071.6 | 1061.9 | 1059.9 | 1054.1 | 1050.2 | 1042.3 | 1044.3 | 1044.3 |
| 37.5° | 960.4 | 960.4 | 972.1 | 974.0 | 972.1 | 976.0 | 974.0 | 974.0 | 966.2 | 970.1 | 968.2 |
| 40° | 829.6 | 841.3 | 862.8 | 874.5 | 878.4 | 886.2 | 895.9 | 892.0 | 888.1 | 894.0 | 892.0 |
| 42.5° | 702.7 | 726.1 | 759.3 | 778.8 | 792.5 | 804.2 | 817.9 | 817.9 | 815.9 | 823.7 | 821.8 |
| 45° | 581.7 | 603.2 | 648.0 | 681.2 | 704.7 | 722.2 | 737.8 | 743.7 | 745.6 | 753.5 | 751.5 |
| 47.5° | 462.6 | 499.7 | 552.4 | 591.4 | 620.7 | 642.2 | 663.7 | 671.5 | 677.3 | 687.1 | 687.1 |
| 50° | 367.0 | 413.8 | 474.3 | 513.4 | 548.5 | 571.9 | 593.4 | 605.1 | 612.9 | 620.7 | 620.7 |
| 52.5° | 294.7 | 343.5 | 402.1 | 443.1 | 476.3 | 501.7 | 523.1 | 536.8 | 542.6 | 552.4 | 552.4 |
| 55° | 240.1 | 285.0 | 339.6 | 376.7 | 409.9 | 433.3 | 450.9 | 462.6 | 468.5 | 476.3 | 476.3 |
| 57.5° | 189.3 | 232.3 | 277.2 | 310.4 | 337.7 | 355.3 | 370.9 | 374.8 | 376.7 | 382.6 | 384.5 |
| 60° | 142.5 | 175.7 | 212.8 | 238.1 | 257.7 | 269.4 | 281.1 | 279.1 | 277.2 | 281.1 | 277.2 |
| 62.5° | 101.5 | 124.9 | 152.3 | 167.9 | 183.5 | 189.3 | 195.2 | 191.3 | 187.4 | 189.3 | 189.3 |
| 65° | 68.3 | 85.9 | 101.5 | 113.2 | 121.0 | 124.9 | 126.9 | 124.9 | 123.0 | 124.9 | 123.0 |
| 67.5° | 46.8 | 56.6 | 68.3 | 74.2 | 80.0 | 82.0 | 83.9 | 82.0 | 82.0 | 82.0 | 80.0 |
| 70° | 31.2 | 37.1 | 44.9 | 48.8 | 50.8 | 52.7 | 54.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| 72.5° | 21.5 | 25.4 | 27.3 | 31.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 75° | 13.7 | 15.6 | 17.6 | 19.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| 77.5° | 9.8 | 9.8 | 11.7 | 11.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 80° | 5.9 | 5.9 | 7.8 | 7.8 | 7.8 | 7.8 | 9.8 | 7.8 | 9.8 | 9.8 | 9.8 |
| 82.5° | 3.9 | 3.9 | 3.9 | 3.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 85° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.9 | 2.0 | 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: P212733

CATALOG NUMBER: LD4B30D010 EU4B30508035 4LBSWLI1

CANDELA DISTRIBUTION (continued):

| | 345° | 350° | 355° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 | 1477.6 |
| 2.5° | 1444.4 | 1440.5 | 1428.8 | 1442.5 |
| 5° | 1413.2 | 1409.3 | 1399.5 | 1409.3 |
| 7.5° | 1382.0 | 1376.1 | 1368.3 | 1374.2 |
| 10° | 1344.9 | 1341.0 | 1331.2 | 1337.1 |
| 12.5° | 1317.6 | 1309.8 | 1303.9 | 1305.9 |
| 15° | 1300.0 | 1292.2 | 1286.3 | 1288.3 |
| 17.5° | 1276.6 | 1268.8 | 1262.9 | 1262.9 |
| 20° | 1251.2 | 1243.4 | 1239.5 | 1237.5 |
| 22.5° | 1229.7 | 1223.9 | 1221.9 | 1216.1 |
| 25° | 1210.2 | 1206.3 | 1206.3 | 1198.5 |
| 27.5° | 1188.7 | 1182.9 | 1182.9 | 1175.1 |
| 30° | 1151.7 | 1149.7 | 1149.7 | 1143.8 |
| 32.5° | 1102.9 | 1097.0 | 1100.9 | 1091.1 |
| 35° | 1036.5 | 1032.6 | 1038.4 | 1030.6 |
| 37.5° | 964.3 | 962.3 | 966.2 | 960.4 |
| 40° | 888.1 | 888.1 | 894.0 | 884.2 |
| 42.5° | 821.8 | 821.8 | 827.6 | 817.9 |
| 45° | 749.5 | 755.4 | 761.3 | 753.5 |
| 47.5° | 687.1 | 691.0 | 698.8 | 691.0 |
| 50° | 624.6 | 628.5 | 634.4 | 626.6 |
| 52.5° | 556.3 | 560.2 | 566.1 | 560.2 |
| 55° | 478.2 | 482.1 | 488.0 | 484.1 |
| 57.5° | 384.5 | 380.6 | 390.4 | 382.6 |
| 60° | 279.1 | 271.3 | 273.3 | 273.3 |
| 62.5° | 185.4 | 181.5 | 185.4 | 179.6 |
| 65° | 123.0 | 121.0 | 121.0 | 121.0 |
| 67.5° | 82.0 | 80.0 | 82.0 | 80.0 |
| 70° | 52.7 | 52.7 | 52.7 | 52.7 |
| 72.5° | 33.2 | 33.2 | 33.2 | 33.2 |
| 75° | 21.5 | 21.5 | 21.5 | 21.5 |
| 77.5° | 13.7 | 13.7 | 13.7 | 13.7 |
| 80° | 9.8 | 9.8 | 9.8 | 9.8 |
| 82.5° | 5.9 | 5.9 | 5.9 | 5.9 |
| 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)