

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: P226277

Luminaire Tested: **LD2B20D010 EU2B20WW9035 2LBSW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P226277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14828)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WW9035 2LBSW*
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WALL WASH OPTIC
WALL WASH LENSED TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1115.2 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.79 / 1.02
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

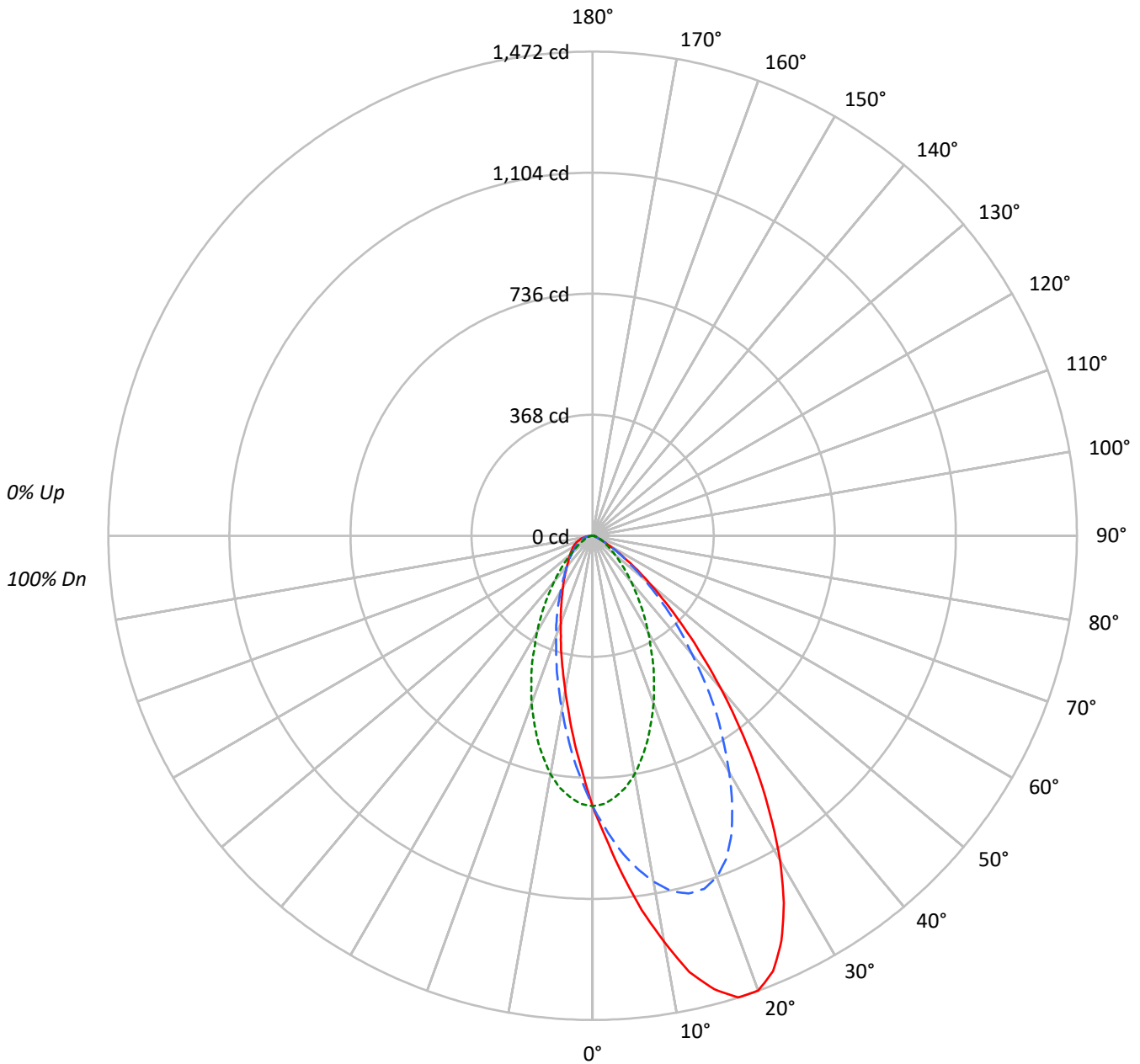
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226277

CATALOG NUMBER: LD2B20D010 EU2B20WW9035 2LBSW*

Luminous Intensity Polar Plot





TEST NUMBER: P226277

CATALOG NUMBER: LD2B20D010 EU2B20WW9035 2LBSW*

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 | 105 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 94 | 92 | 90 | | | |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 91 | 87 | 85 | 88 | 85 | 83 | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 83 | 79 | 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 | 64 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 | | | |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 55 | | | |
| 7 | 76 | 65 | 58 | 53 | 75 | 64 | 58 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 56 | 52 | 50 | | | |
| 8 | 72 | 60 | 53 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 | | | |
| 9 | 68 | 56 | 50 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 43 | | | |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 318243 | 318243 | 318243 |
| 5° | 401229 | 309777 | 245232 |
| 10° | 492910 | 289445 | 188244 |
| 15° | 572442 | 258491 | 147532 |
| 20° | 606642 | 223498 | 116324 |
| 25° | 580522 | 186812 | 95778 |
| 30° | 509797 | 150953 | 80419 |
| 35° | 410775 | 119019 | 69322 |
| 40° | 306319 | 92331 | 61537 |
| 45° | 212159 | 69734 | 56094 |
| 50° | 136670 | 51703 | 53330 |
| 55° | 80363 | 39236 | 52337 |
| 60° | 42840 | 32150 | 53609 |
| 65° | 20256 | 25388 | 53251 |
| 70° | 9400 | 21971 | 53229 |
| 75° | 12422 | 20653 | 57918 |
| 80° | 12269 | 18514 | 55543 |
| 85° | 12444 | 24444 | 49332 |



TEST NUMBER: P226277

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.6 | 7.0 |
| 10°-20° | 216.7 | 19.4 |
| 20°-30° | 282.7 | 25.3 |
| 30°-40° | 244.7 | 21.9 |
| 40°-50° | 154.9 | 13.9 |
| 50°-60° | 77.6 | 7.0 |
| 60°-70° | 35.7 | 3.2 |
| 70°-80° | 19.2 | 1.7 |
| 80°-90° | 6.2 | 0.6 |
| 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° | 577.0 | 51.7 |
| 0°-40° | 821.7 | 73.7 |
| 0°-60° | 1054.2 | 94.5 |
| 0°-90° | 1115.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1115.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 822 | 822 | 822 | 822 | 822 | |
| 5° | 1032 | 960 | 797 | 675 | 631 | 105 |
| 15° | 1428 | 1126 | 645 | 420 | 368 | 401 |
| 25° | 1358 | 999 | 437 | 252 | 224 | 615 |
| 35° | 869 | 653 | 252 | 152 | 147 | 540 |
| 45° | 387 | 324 | 127 | 100 | 102 | 305 |
| 55° | 119 | 111 | 58 | 66 | 78 | 114 |
| 65° | 22 | 25 | 28 | 47 | 58 | 25 |
| 75° | 8 | 8 | 14 | 28 | 39 | 8 |
| 85° | 3 | 3 | 6 | 8 | 11 | 2 |
| 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° | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 |
| 2.5° | 918.4 | 924.0 | 924.0 | 926.7 | 915.7 | 918.4 | 918.4 | 912.9 | 904.6 | 899.1 | 890.8 |
| 5° | 1031.9 | 1031.9 | 1029.1 | 1031.9 | 1023.6 | 1018.0 | 1020.8 | 1009.7 | 987.6 | 976.5 | 959.9 |
| 7.5° | 1148.1 | 1142.5 | 1142.5 | 1139.8 | 1125.9 | 1117.6 | 1114.9 | 1095.5 | 1065.1 | 1042.9 | 1018.0 |
| 10° | 1253.2 | 1253.2 | 1247.7 | 1242.1 | 1222.8 | 1211.7 | 1203.4 | 1173.0 | 1139.8 | 1103.8 | 1067.8 |
| 12.5° | 1358.3 | 1352.8 | 1344.5 | 1333.4 | 1305.7 | 1294.7 | 1280.8 | 1244.9 | 1195.1 | 1153.6 | 1106.6 |
| 15° | 1427.5 | 1430.2 | 1416.4 | 1402.6 | 1372.1 | 1355.5 | 1338.9 | 1294.7 | 1236.6 | 1184.0 | 1125.9 |
| 17.5° | 1471.7 | 1469.0 | 1455.1 | 1438.5 | 1405.3 | 1386.0 | 1366.6 | 1314.0 | 1253.2 | 1189.6 | 1125.9 |
| 20° | 1471.7 | 1471.7 | 1455.1 | 1438.5 | 1402.6 | 1380.4 | 1361.1 | 1305.7 | 1239.4 | 1173.0 | 1103.8 |
| 22.5° | 1433.0 | 1427.5 | 1416.4 | 1399.8 | 1363.8 | 1344.5 | 1322.3 | 1267.0 | 1197.9 | 1134.2 | 1062.3 |
| 25° | 1358.3 | 1358.3 | 1344.5 | 1325.1 | 1294.7 | 1272.6 | 1253.2 | 1197.9 | 1131.5 | 1067.8 | 998.7 |
| 27.5° | 1258.7 | 1256.0 | 1242.1 | 1228.3 | 1195.1 | 1178.5 | 1159.1 | 1106.6 | 1048.5 | 990.4 | 918.4 |
| 30° | 1139.8 | 1134.2 | 1128.7 | 1106.6 | 1084.4 | 1070.6 | 1054.0 | 1007.0 | 948.9 | 893.6 | 829.9 |
| 32.5° | 1004.2 | 1012.5 | 998.7 | 984.8 | 965.5 | 951.6 | 937.8 | 901.9 | 849.3 | 799.5 | 738.6 |
| 35° | 868.7 | 874.2 | 865.9 | 854.8 | 835.5 | 827.2 | 813.3 | 782.9 | 744.2 | 697.1 | 652.9 |
| 37.5° | 733.1 | 733.1 | 733.1 | 724.8 | 713.7 | 705.4 | 697.1 | 669.5 | 636.3 | 600.3 | 558.8 |
| 40° | 605.8 | 614.1 | 603.1 | 600.3 | 592.0 | 589.2 | 580.9 | 561.6 | 533.9 | 509.0 | 470.3 |
| 42.5° | 489.7 | 489.7 | 492.4 | 486.9 | 484.1 | 478.6 | 473.1 | 462.0 | 442.6 | 420.5 | 395.6 |
| 45° | 387.3 | 390.1 | 392.8 | 384.5 | 384.5 | 384.5 | 381.8 | 370.7 | 354.1 | 340.3 | 323.7 |
| 47.5° | 301.5 | 301.5 | 304.3 | 301.5 | 301.5 | 301.5 | 296.0 | 296.0 | 284.9 | 271.1 | 257.3 |
| 50° | 226.8 | 229.6 | 232.4 | 232.4 | 232.4 | 229.6 | 229.6 | 224.1 | 218.5 | 213.0 | 199.2 |
| 52.5° | 171.5 | 171.5 | 168.8 | 171.5 | 171.5 | 171.5 | 171.5 | 168.8 | 166.0 | 160.5 | 152.2 |
| 55° | 119.0 | 119.0 | 121.7 | 121.7 | 121.7 | 124.5 | 124.5 | 124.5 | 121.7 | 119.0 | 110.7 |
| 57.5° | 83.0 | 83.0 | 83.0 | 85.8 | 88.5 | 88.5 | 88.5 | 88.5 | 85.8 | 83.0 | 80.2 |
| 60° | 55.3 | 55.3 | 55.3 | 58.1 | 58.1 | 58.1 | 58.1 | 60.9 | 58.1 | 58.1 | 55.3 |
| 62.5° | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 36.0 |
| 65° | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 |
| 67.5° | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 70° | 8.3 | 8.3 | 8.3 | 8.3 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 72.5° | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| 75° | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| 77.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 8.3 | 8.3 | 8.3 |
| 80° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 5.5 | 5.5 | 2.8 |
| 85° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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° | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 |
| 2.5° | 890.8 | 879.7 | 874.2 | 860.4 | 857.6 | 846.5 | 846.5 | 835.5 | 821.6 | 816.1 | 802.3 |
| 5° | 948.9 | 926.7 | 915.7 | 890.8 | 882.5 | 865.9 | 857.6 | 835.5 | 813.3 | 796.7 | 777.4 |
| 7.5° | 998.7 | 965.5 | 943.3 | 910.2 | 896.3 | 871.4 | 854.8 | 827.2 | 796.7 | 771.8 | 744.2 |
| 10° | 1037.4 | 993.1 | 959.9 | 915.7 | 899.1 | 868.7 | 843.8 | 805.0 | 766.3 | 735.9 | 702.7 |
| 12.5° | 1062.3 | 1009.7 | 962.7 | 910.2 | 888.0 | 854.8 | 818.9 | 774.6 | 730.3 | 691.6 | 655.6 |
| 15° | 1073.4 | 1009.7 | 954.4 | 890.8 | 865.9 | 829.9 | 788.4 | 735.9 | 686.1 | 644.6 | 605.8 |
| 17.5° | 1065.1 | 990.4 | 932.3 | 860.4 | 832.7 | 791.2 | 744.2 | 688.8 | 636.3 | 592.0 | 553.3 |
| 20° | 1037.4 | 959.9 | 893.6 | 818.9 | 788.4 | 746.9 | 694.4 | 639.0 | 586.5 | 542.2 | 500.7 |
| 22.5° | 990.4 | 910.2 | 841.0 | 766.3 | 735.9 | 694.4 | 639.0 | 583.7 | 531.2 | 486.9 | 448.2 |
| 25° | 932.3 | 846.5 | 777.4 | 705.4 | 672.2 | 636.3 | 580.9 | 525.6 | 475.8 | 437.1 | 398.4 |
| 27.5° | 854.8 | 780.1 | 711.0 | 639.0 | 608.6 | 575.4 | 520.1 | 470.3 | 420.5 | 381.8 | 348.6 |
| 30° | 771.8 | 699.9 | 641.8 | 572.6 | 545.0 | 511.8 | 464.8 | 415.0 | 373.5 | 337.5 | 307.1 |
| 32.5° | 688.8 | 619.7 | 564.3 | 506.3 | 481.4 | 448.2 | 406.7 | 362.4 | 323.7 | 293.2 | 268.3 |
| 35° | 603.1 | 545.0 | 492.4 | 437.1 | 417.7 | 390.1 | 351.3 | 312.6 | 279.4 | 251.7 | 226.8 |
| 37.5° | 517.3 | 470.3 | 423.3 | 379.0 | 356.9 | 334.7 | 298.8 | 265.6 | 235.1 | 213.0 | 193.6 |
| 40° | 439.9 | 398.4 | 359.6 | 318.1 | 298.8 | 282.2 | 251.7 | 224.1 | 201.9 | 182.6 | 166.0 |
| 42.5° | 365.2 | 332.0 | 298.8 | 265.6 | 249.0 | 235.1 | 210.2 | 185.3 | 166.0 | 152.2 | 138.3 |
| 45° | 298.8 | 273.9 | 246.2 | 215.8 | 207.5 | 190.9 | 171.5 | 154.9 | 138.3 | 127.3 | 116.2 |
| 47.5° | 240.7 | 218.5 | 196.4 | 174.3 | 166.0 | 154.9 | 138.3 | 124.5 | 113.4 | 105.1 | 96.8 |
| 50° | 188.1 | 171.5 | 157.7 | 138.3 | 132.8 | 121.7 | 110.7 | 99.6 | 91.3 | 85.8 | 80.2 |
| 52.5° | 143.9 | 130.0 | 119.0 | 107.9 | 102.4 | 96.8 | 85.8 | 80.2 | 74.7 | 71.9 | 69.2 |
| 55° | 105.1 | 96.8 | 88.5 | 80.2 | 77.5 | 71.9 | 66.4 | 60.9 | 58.1 | 58.1 | 58.1 |
| 57.5° | 74.7 | 69.2 | 63.6 | 58.1 | 58.1 | 55.3 | 52.6 | 49.8 | 47.0 | 47.0 | 47.0 |
| 60° | 52.6 | 49.8 | 47.0 | 44.3 | 41.5 | 41.5 | 38.7 | 41.5 | 38.7 | 41.5 | 41.5 |
| 62.5° | 36.0 | 33.2 | 33.2 | 30.4 | 30.4 | 30.4 | 30.4 | 30.4 | 33.2 | 33.2 | 36.0 |
| 65° | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 24.9 | 24.9 | 24.9 | 27.7 | 27.7 |
| 67.5° | 16.6 | 16.6 | 16.6 | 19.4 | 19.4 | 19.4 | 19.4 | 22.1 | 22.1 | 22.1 | 24.9 |
| 70° | 11.1 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 16.6 | 16.6 | 16.6 | 19.4 | 19.4 |
| 72.5° | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 13.8 | 13.8 | 13.8 | 16.6 | 16.6 |
| 75° | 8.3 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 13.8 | 13.8 | 13.8 | 16.6 |
| 77.5° | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 11.1 | 11.1 | 11.1 | 11.1 |
| 80° | 5.5 | 5.5 | 5.5 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 11.1 |
| 82.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 8.3 |
| 85° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 5.5 | 2.8 | 5.5 | 5.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 |
| 2.5° | 796.7 | 788.4 | 791.2 | 774.6 | 777.4 | 766.3 | 760.8 | 752.5 | 746.9 | 738.6 | 741.4 |
| 5° | 763.5 | 749.7 | 744.2 | 724.8 | 727.6 | 711.0 | 699.9 | 686.1 | 675.0 | 661.2 | 658.4 |
| 7.5° | 722.0 | 699.9 | 691.6 | 672.2 | 669.5 | 647.3 | 633.5 | 616.9 | 603.1 | 589.2 | 583.7 |
| 10° | 675.0 | 650.1 | 633.5 | 614.1 | 611.4 | 586.5 | 569.9 | 553.3 | 536.7 | 522.9 | 517.3 |
| 12.5° | 625.2 | 597.5 | 578.2 | 556.0 | 550.5 | 528.4 | 509.0 | 492.4 | 475.8 | 462.0 | 453.7 |
| 15° | 572.6 | 542.2 | 522.9 | 500.7 | 495.2 | 470.3 | 453.7 | 434.3 | 420.5 | 406.7 | 401.1 |
| 17.5° | 520.1 | 489.7 | 467.5 | 448.2 | 442.6 | 417.7 | 398.4 | 384.5 | 367.9 | 359.6 | 351.3 |
| 20° | 467.5 | 437.1 | 415.0 | 398.4 | 390.1 | 370.7 | 351.3 | 337.5 | 323.7 | 315.4 | 307.1 |
| 22.5° | 415.0 | 387.3 | 367.9 | 351.3 | 345.8 | 326.4 | 309.8 | 296.0 | 287.7 | 276.6 | 271.1 |
| 25° | 367.9 | 340.3 | 323.7 | 307.1 | 301.5 | 284.9 | 273.9 | 260.0 | 251.7 | 243.4 | 237.9 |
| 27.5° | 323.7 | 298.8 | 282.2 | 268.3 | 265.6 | 251.7 | 237.9 | 229.6 | 221.3 | 215.8 | 213.0 |
| 30° | 279.4 | 260.0 | 246.2 | 235.1 | 232.4 | 218.5 | 207.5 | 201.9 | 193.6 | 190.9 | 188.1 |
| 32.5° | 246.2 | 226.8 | 215.8 | 204.7 | 201.9 | 190.9 | 185.3 | 177.1 | 171.5 | 168.8 | 168.8 |
| 35° | 210.2 | 196.4 | 185.3 | 179.8 | 177.1 | 168.8 | 160.5 | 157.7 | 152.2 | 149.4 | 149.4 |
| 37.5° | 179.8 | 168.8 | 160.5 | 152.2 | 152.2 | 146.6 | 141.1 | 138.3 | 135.6 | 135.6 | 132.8 |
| 40° | 154.9 | 143.9 | 141.1 | 135.6 | 132.8 | 130.0 | 127.3 | 124.5 | 121.7 | 121.7 | 121.7 |
| 42.5° | 130.0 | 124.5 | 119.0 | 116.2 | 116.2 | 113.4 | 110.7 | 110.7 | 107.9 | 110.7 | 110.7 |
| 45° | 110.7 | 105.1 | 102.4 | 99.6 | 102.4 | 99.6 | 99.6 | 96.8 | 99.6 | 99.6 | 99.6 |
| 47.5° | 94.1 | 91.3 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 91.3 | 91.3 |
| 50° | 80.2 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 80.2 | 80.2 | 80.2 | 83.0 | 83.0 |
| 52.5° | 66.4 | 66.4 | 66.4 | 66.4 | 69.2 | 69.2 | 71.9 | 71.9 | 74.7 | 74.7 | 77.5 |
| 55° | 58.1 | 58.1 | 58.1 | 58.1 | 60.9 | 60.9 | 63.6 | 66.4 | 66.4 | 69.2 | 71.9 |
| 57.5° | 49.8 | 49.8 | 52.6 | 52.6 | 55.3 | 55.3 | 58.1 | 60.9 | 60.9 | 63.6 | 66.4 |
| 60° | 41.5 | 44.3 | 47.0 | 47.0 | 47.0 | 49.8 | 52.6 | 55.3 | 55.3 | 58.1 | 60.9 |
| 62.5° | 36.0 | 38.7 | 41.5 | 41.5 | 41.5 | 44.3 | 47.0 | 49.8 | 49.8 | 52.6 | 55.3 |
| 65° | 30.4 | 33.2 | 36.0 | 36.0 | 36.0 | 38.7 | 41.5 | 44.3 | 47.0 | 47.0 | 49.8 |
| 67.5° | 27.7 | 27.7 | 30.4 | 30.4 | 33.2 | 36.0 | 36.0 | 38.7 | 41.5 | 44.3 | 47.0 |
| 70° | 22.1 | 24.9 | 27.7 | 27.7 | 27.7 | 30.4 | 33.2 | 36.0 | 36.0 | 38.7 | 41.5 |
| 72.5° | 19.4 | 19.4 | 22.1 | 22.1 | 24.9 | 27.7 | 27.7 | 30.4 | 33.2 | 33.2 | 36.0 |
| 75° | 16.6 | 19.4 | 19.4 | 19.4 | 22.1 | 22.1 | 24.9 | 27.7 | 27.7 | 30.4 | 30.4 |
| 77.5° | 13.8 | 13.8 | 16.6 | 16.6 | 16.6 | 19.4 | 19.4 | 22.1 | 22.1 | 24.9 | 24.9 |
| 80° | 11.1 | 11.1 | 13.8 | 13.8 | 13.8 | 13.8 | 16.6 | 16.6 | 19.4 | 19.4 | 19.4 |
| 82.5° | 8.3 | 8.3 | 8.3 | 8.3 | 11.1 | 11.1 | 11.1 | 11.1 | 13.8 | 13.8 | 13.8 |
| 85° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 11.1 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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: P226277

CATALOG NUMBER: LD2B20D010 EU2B20WW9035 2LBSW*

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 | 821.6 |
| 2.5° | 733.1 | 733.1 | 730.3 | 727.6 | 724.8 | 722.0 | 719.3 | 716.5 |
| 5° | 650.1 | 652.9 | 641.8 | 639.0 | 639.0 | 633.5 | 636.3 | 630.7 |
| 7.5° | 572.6 | 572.6 | 564.3 | 561.6 | 558.8 | 553.3 | 550.5 | 547.8 |
| 10° | 503.5 | 500.7 | 495.2 | 492.4 | 486.9 | 484.1 | 484.1 | 478.6 |
| 12.5° | 442.6 | 439.9 | 434.3 | 431.6 | 426.0 | 423.3 | 420.5 | 417.7 |
| 15° | 390.1 | 387.3 | 381.8 | 379.0 | 376.2 | 370.7 | 370.7 | 367.9 |
| 17.5° | 340.3 | 337.5 | 334.7 | 329.2 | 329.2 | 323.7 | 320.9 | 320.9 |
| 20° | 301.5 | 298.8 | 293.2 | 290.5 | 290.5 | 287.7 | 287.7 | 282.2 |
| 22.5° | 265.6 | 262.8 | 260.0 | 257.3 | 257.3 | 254.5 | 251.7 | 251.7 |
| 25° | 235.1 | 232.4 | 229.6 | 229.6 | 226.8 | 224.1 | 224.1 | 224.1 |
| 27.5° | 207.5 | 207.5 | 204.7 | 204.7 | 204.7 | 201.9 | 201.9 | 199.2 |
| 30° | 185.3 | 185.3 | 182.6 | 182.6 | 182.6 | 179.8 | 182.6 | 179.8 |
| 32.5° | 166.0 | 166.0 | 166.0 | 166.0 | 166.0 | 163.2 | 163.2 | 163.2 |
| 35° | 149.4 | 149.4 | 149.4 | 149.4 | 149.4 | 146.6 | 149.4 | 146.6 |
| 37.5° | 132.8 | 135.6 | 132.8 | 132.8 | 135.6 | 132.8 | 132.8 | 132.8 |
| 40° | 121.7 | 121.7 | 121.7 | 121.7 | 121.7 | 121.7 | 121.7 | 121.7 |
| 42.5° | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 | 110.7 |
| 45° | 99.6 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 |
| 47.5° | 94.1 | 94.1 | 94.1 | 94.1 | 96.8 | 94.1 | 96.8 | 96.8 |
| 50° | 85.8 | 85.8 | 85.8 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 |
| 52.5° | 80.2 | 80.2 | 80.2 | 80.2 | 83.0 | 83.0 | 83.0 | 83.0 |
| 55° | 71.9 | 74.7 | 74.7 | 74.7 | 77.5 | 77.5 | 77.5 | 77.5 |
| 57.5° | 69.2 | 69.2 | 69.2 | 71.9 | 71.9 | 71.9 | 74.7 | 71.9 |
| 60° | 63.6 | 63.6 | 66.4 | 66.4 | 66.4 | 69.2 | 69.2 | 69.2 |
| 62.5° | 58.1 | 60.9 | 60.9 | 60.9 | 60.9 | 63.6 | 63.6 | 63.6 |
| 65° | 52.6 | 55.3 | 55.3 | 55.3 | 58.1 | 58.1 | 58.1 | 58.1 |
| 67.5° | 47.0 | 49.8 | 49.8 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 |
| 70° | 41.5 | 44.3 | 44.3 | 44.3 | 47.0 | 47.0 | 47.0 | 47.0 |
| 72.5° | 38.7 | 38.7 | 38.7 | 41.5 | 41.5 | 41.5 | 44.3 | 41.5 |
| 75° | 33.2 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 38.7 | 38.7 |
| 77.5° | 27.7 | 27.7 | 27.7 | 27.7 | 30.4 | 30.4 | 30.4 | 30.4 |
| 80° | 22.1 | 22.1 | 22.1 | 22.1 | 24.9 | 24.9 | 24.9 | 24.9 |
| 82.5° | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 85° | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 87.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 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)