

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: P226265

Luminaire Tested: **LD2B15D010 EU2B15WW9040 2LBSW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P226265
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: LD2B15D010 EU2B15WW9040 2LBSW*
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WALL WASH OPTIC
WALL WASH LENSED TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 844.3 lumens
Efficiency: N/A
Efficacy: 59.0 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

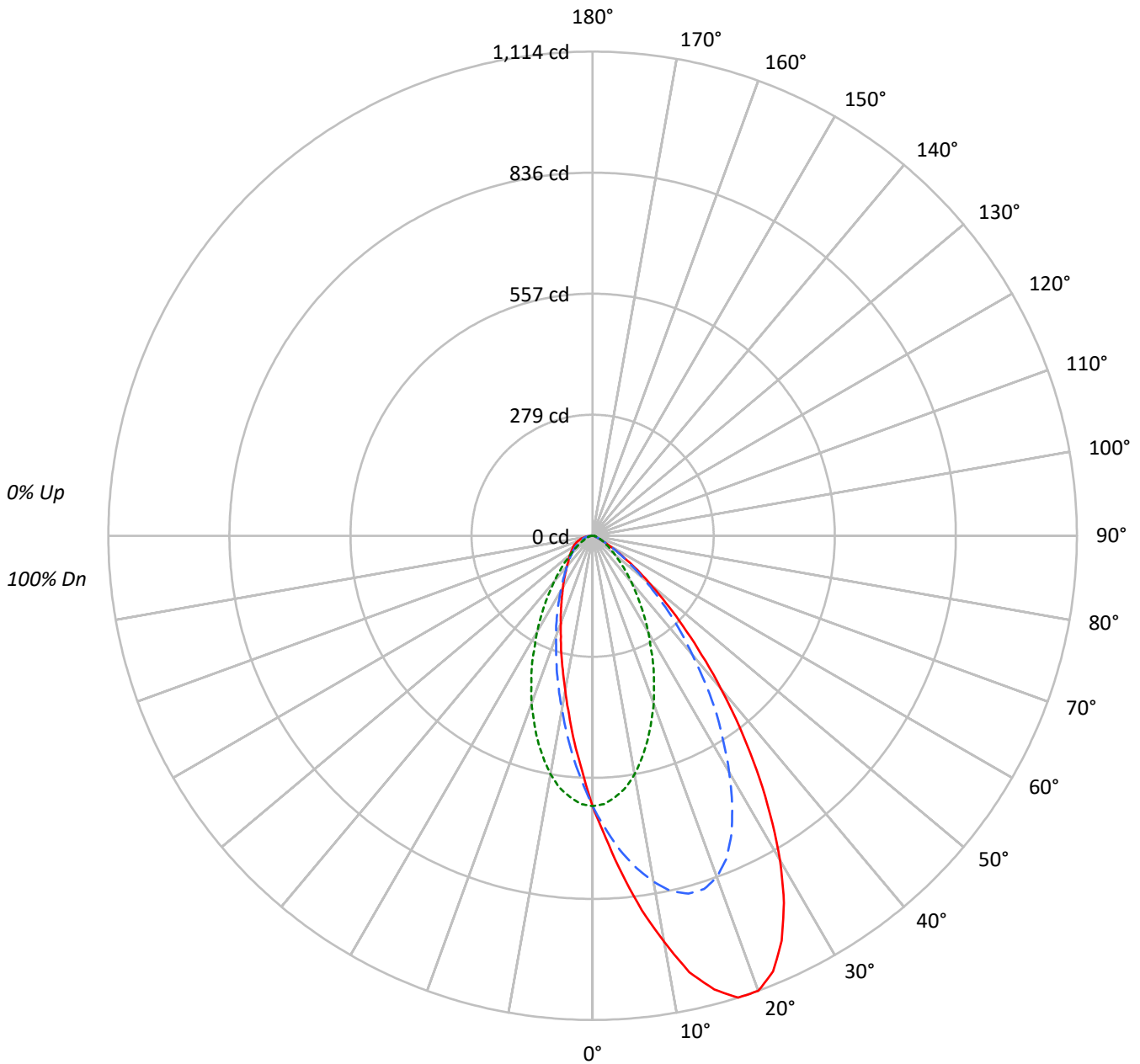
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226265

CATALOG NUMBER: LD2B15D010 EU2B15WW9040 2LBSW*

Luminous Intensity Polar Plot





TEST NUMBER: P226265

CATALOG NUMBER: LD2B15D010 EU2B15WW9040 2LBSW*

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 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° | 240929 | 240929 | 240929 |
| 5° | 303751 | 234540 | 185664 |
| 10° | 373144 | 219119 | 142500 |
| 15° | 433331 | 195693 | 111681 |
| 20° | 459279 | 169210 | 88047 |
| 25° | 439484 | 141423 | 72485 |
| 30° | 385903 | 114277 | 60873 |
| 35° | 310954 | 90128 | 52488 |
| 40° | 231888 | 69880 | 46570 |
| 45° | 160612 | 52752 | 42454 |
| 50° | 103467 | 39109 | 40374 |
| 55° | 60846 | 29714 | 39574 |
| 60° | 32460 | 24325 | 40594 |
| 65° | 15398 | 19156 | 40328 |
| 70° | 7135 | 16648 | 40318 |
| 75° | 9429 | 15714 | 43850 |
| 80° | 9369 | 14053 | 41936 |
| 85° | 9333 | 18666 | 37332 |



TEST NUMBER: P226265

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.8 | 7.0 |
| 10°-20° | 164.0 | 19.4 |
| 20°-30° | 214.0 | 25.3 |
| 30°-40° | 185.3 | 21.9 |
| 40°-50° | 117.3 | 13.9 |
| 50°-60° | 58.7 | 7.0 |
| 60°-70° | 27.0 | 3.2 |
| 70°-80° | 14.5 | 1.7 |
| 80°-90° | 4.7 | 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° | 436.8 | 51.7 |
| 0°-40° | 622.1 | 73.7 |
| 0°-60° | 798.1 | 94.5 |
| 0°-90° | 844.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 844.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 622 | 622 | 622 | 622 | 622 | |
| 5° | 781 | 727 | 603 | 511 | 478 | 80 |
| 15° | 1081 | 852 | 488 | 318 | 278 | 304 |
| 25° | 1028 | 756 | 331 | 191 | 170 | 466 |
| 35° | 658 | 494 | 191 | 115 | 111 | 409 |
| 45° | 293 | 245 | 96 | 75 | 78 | 231 |
| 55° | 90 | 84 | 44 | 50 | 59 | 86 |
| 65° | 17 | 19 | 21 | 36 | 44 | 19 |
| 75° | 6 | 6 | 10 | 21 | 29 | 6 |
| 85° | 2 | 2 | 4 | 6 | 8 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P226265

CATALOG NUMBER: LD2B15D010 EU2B15WW9040 2LBSW*

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 695.3 | 699.5 | 699.5 | 701.6 | 693.2 | 695.3 | 695.3 | 691.1 | 684.8 | 680.6 | 674.4 |
| 5° | 781.2 | 781.2 | 779.1 | 781.2 | 774.9 | 770.7 | 772.8 | 764.4 | 747.7 | 739.3 | 726.7 |
| 7.5° | 869.1 | 864.9 | 864.9 | 862.8 | 852.4 | 846.1 | 844.0 | 829.3 | 806.3 | 789.5 | 770.7 |
| 10° | 948.7 | 948.7 | 944.5 | 940.3 | 925.7 | 917.3 | 911.0 | 888.0 | 862.8 | 835.6 | 808.4 |
| 12.5° | 1028.3 | 1024.1 | 1017.8 | 1009.4 | 988.5 | 980.1 | 969.7 | 942.4 | 904.7 | 873.3 | 837.7 |
| 15° | 1080.6 | 1082.7 | 1072.3 | 1061.8 | 1038.8 | 1026.2 | 1013.6 | 980.1 | 936.1 | 896.4 | 852.4 |
| 17.5° | 1114.2 | 1112.1 | 1101.6 | 1089.0 | 1063.9 | 1049.2 | 1034.6 | 994.8 | 948.7 | 900.5 | 852.4 |
| 20° | 1114.2 | 1114.2 | 1101.6 | 1089.0 | 1061.8 | 1045.0 | 1030.4 | 988.5 | 938.2 | 888.0 | 835.6 |
| 22.5° | 1084.8 | 1080.6 | 1072.3 | 1059.7 | 1032.5 | 1017.8 | 1001.1 | 959.2 | 906.8 | 858.7 | 804.2 |
| 25° | 1028.3 | 1028.3 | 1017.8 | 1003.2 | 980.1 | 963.4 | 948.7 | 906.8 | 856.6 | 808.4 | 756.0 |
| 27.5° | 952.9 | 950.8 | 940.3 | 929.9 | 904.7 | 892.2 | 877.5 | 837.7 | 793.7 | 749.8 | 695.3 |
| 30° | 862.8 | 858.7 | 854.5 | 837.7 | 821.0 | 810.5 | 797.9 | 762.3 | 718.3 | 676.5 | 628.3 |
| 32.5° | 760.2 | 766.5 | 756.0 | 745.6 | 730.9 | 720.4 | 710.0 | 682.7 | 642.9 | 605.2 | 559.2 |
| 35° | 657.6 | 661.8 | 655.5 | 647.1 | 632.5 | 626.2 | 615.7 | 592.7 | 563.4 | 527.8 | 494.2 |
| 37.5° | 555.0 | 555.0 | 555.0 | 548.7 | 540.3 | 534.0 | 527.8 | 506.8 | 481.7 | 454.5 | 423.0 |
| 40° | 458.6 | 464.9 | 456.6 | 454.5 | 448.2 | 446.1 | 439.8 | 425.1 | 404.2 | 385.3 | 356.0 |
| 42.5° | 370.7 | 370.7 | 372.8 | 368.6 | 366.5 | 362.3 | 358.1 | 349.7 | 335.1 | 318.3 | 299.5 |
| 45° | 293.2 | 295.3 | 297.4 | 291.1 | 291.1 | 291.1 | 289.0 | 280.6 | 268.1 | 257.6 | 245.0 |
| 47.5° | 228.3 | 228.3 | 230.4 | 228.3 | 228.3 | 228.3 | 224.1 | 224.1 | 215.7 | 205.2 | 194.8 |
| 50° | 171.7 | 173.8 | 175.9 | 175.9 | 175.9 | 173.8 | 173.8 | 169.6 | 165.4 | 161.3 | 150.8 |
| 52.5° | 129.8 | 129.8 | 127.8 | 129.8 | 129.8 | 129.8 | 129.8 | 127.8 | 125.7 | 121.5 | 115.2 |
| 55° | 90.1 | 90.1 | 92.1 | 92.1 | 92.1 | 94.2 | 94.2 | 94.2 | 92.1 | 90.1 | 83.8 |
| 57.5° | 62.8 | 62.8 | 62.8 | 64.9 | 67.0 | 67.0 | 67.0 | 67.0 | 64.9 | 62.8 | 60.7 |
| 60° | 41.9 | 41.9 | 41.9 | 44.0 | 44.0 | 44.0 | 44.0 | 46.1 | 44.0 | 44.0 | 41.9 |
| 62.5° | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 27.2 |
| 65° | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| 67.5° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| 70° | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 72.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 75° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 77.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 6.3 | 6.3 | 6.3 |
| 80° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 82.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.2 | 4.2 | 2.1 |
| 85° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 674.4 | 666.0 | 661.8 | 651.3 | 649.2 | 640.8 | 640.8 | 632.5 | 622.0 | 617.8 | 607.3 |
| 5° | 718.3 | 701.6 | 693.2 | 674.4 | 668.1 | 655.5 | 649.2 | 632.5 | 615.7 | 603.2 | 588.5 |
| 7.5° | 756.0 | 730.9 | 714.1 | 689.0 | 678.5 | 659.7 | 647.1 | 626.2 | 603.2 | 584.3 | 563.4 |
| 10° | 785.4 | 751.8 | 726.7 | 693.2 | 680.6 | 657.6 | 638.8 | 609.4 | 580.1 | 557.1 | 531.9 |
| 12.5° | 804.2 | 764.4 | 728.8 | 689.0 | 672.3 | 647.1 | 619.9 | 586.4 | 552.9 | 523.6 | 496.3 |
| 15° | 812.6 | 764.4 | 722.5 | 674.4 | 655.5 | 628.3 | 596.9 | 557.1 | 519.4 | 488.0 | 458.6 |
| 17.5° | 806.3 | 749.8 | 705.8 | 651.3 | 630.4 | 599.0 | 563.4 | 521.5 | 481.7 | 448.2 | 418.9 |
| 20° | 785.4 | 726.7 | 676.5 | 619.9 | 596.9 | 565.5 | 525.7 | 483.8 | 444.0 | 410.5 | 379.1 |
| 22.5° | 749.8 | 689.0 | 636.7 | 580.1 | 557.1 | 525.7 | 483.8 | 441.9 | 402.1 | 368.6 | 339.3 |
| 25° | 705.8 | 640.8 | 588.5 | 534.0 | 508.9 | 481.7 | 439.8 | 397.9 | 360.2 | 330.9 | 301.6 |
| 27.5° | 647.1 | 590.6 | 538.2 | 483.8 | 460.7 | 435.6 | 393.7 | 356.0 | 318.3 | 289.0 | 263.9 |
| 30° | 584.3 | 529.9 | 485.9 | 433.5 | 412.6 | 387.4 | 351.8 | 314.1 | 282.7 | 255.5 | 232.5 |
| 32.5° | 521.5 | 469.1 | 427.2 | 383.3 | 364.4 | 339.3 | 307.9 | 274.4 | 245.0 | 222.0 | 203.1 |
| 35° | 456.6 | 412.6 | 372.8 | 330.9 | 316.2 | 295.3 | 266.0 | 236.7 | 211.5 | 190.6 | 171.7 |
| 37.5° | 391.6 | 356.0 | 320.4 | 286.9 | 270.2 | 253.4 | 226.2 | 201.1 | 178.0 | 161.3 | 146.6 |
| 40° | 333.0 | 301.6 | 272.3 | 240.8 | 226.2 | 213.6 | 190.6 | 169.6 | 152.9 | 138.2 | 125.7 |
| 42.5° | 276.4 | 251.3 | 226.2 | 201.1 | 188.5 | 178.0 | 159.2 | 140.3 | 125.7 | 115.2 | 104.7 |
| 45° | 226.2 | 207.3 | 186.4 | 163.4 | 157.1 | 144.5 | 129.8 | 117.3 | 104.7 | 96.3 | 88.0 |
| 47.5° | 182.2 | 165.4 | 148.7 | 131.9 | 125.7 | 117.3 | 104.7 | 94.2 | 85.9 | 79.6 | 73.3 |
| 50° | 142.4 | 129.8 | 119.4 | 104.7 | 100.5 | 92.1 | 83.8 | 75.4 | 69.1 | 64.9 | 60.7 |
| 52.5° | 108.9 | 98.4 | 90.1 | 81.7 | 77.5 | 73.3 | 64.9 | 60.7 | 56.5 | 54.5 | 52.4 |
| 55° | 79.6 | 73.3 | 67.0 | 60.7 | 58.6 | 54.5 | 50.3 | 46.1 | 44.0 | 44.0 | 44.0 |
| 57.5° | 56.5 | 52.4 | 48.2 | 44.0 | 44.0 | 41.9 | 39.8 | 37.7 | 35.6 | 35.6 | 35.6 |
| 60° | 39.8 | 37.7 | 35.6 | 33.5 | 31.4 | 31.4 | 29.3 | 31.4 | 29.3 | 31.4 | 31.4 |
| 62.5° | 27.2 | 25.1 | 25.1 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 25.1 | 25.1 | 27.2 |
| 65° | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 18.8 | 18.8 | 18.8 | 20.9 | 20.9 |
| 67.5° | 12.6 | 12.6 | 12.6 | 14.7 | 14.7 | 14.7 | 14.7 | 16.8 | 16.8 | 16.8 | 18.8 |
| 70° | 8.4 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 12.6 | 12.6 | 12.6 | 14.7 | 14.7 |
| 72.5° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 10.5 | 10.5 | 12.6 | 12.6 |
| 75° | 6.3 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 10.5 | 10.5 | 12.6 |
| 77.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 | 8.4 | 8.4 | 8.4 |
| 80° | 4.2 | 4.2 | 4.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 |
| 82.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 6.3 |
| 85° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.2 | 2.1 | 4.2 | 4.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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: P226265

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 603.2 | 596.9 | 599.0 | 586.4 | 588.5 | 580.1 | 575.9 | 569.6 | 565.5 | 559.2 | 561.3 |
| 5° | 578.0 | 567.5 | 563.4 | 548.7 | 550.8 | 538.2 | 529.9 | 519.4 | 511.0 | 500.5 | 498.4 |
| 7.5° | 546.6 | 529.9 | 523.6 | 508.9 | 506.8 | 490.1 | 479.6 | 467.0 | 456.6 | 446.1 | 441.9 |
| 10° | 511.0 | 492.2 | 479.6 | 464.9 | 462.8 | 444.0 | 431.4 | 418.9 | 406.3 | 395.8 | 391.6 |
| 12.5° | 473.3 | 452.4 | 437.7 | 420.9 | 416.8 | 400.0 | 385.3 | 372.8 | 360.2 | 349.7 | 343.5 |
| 15° | 433.5 | 410.5 | 395.8 | 379.1 | 374.9 | 356.0 | 343.5 | 328.8 | 318.3 | 307.9 | 303.7 |
| 17.5° | 393.7 | 370.7 | 353.9 | 339.3 | 335.1 | 316.2 | 301.6 | 291.1 | 278.5 | 272.3 | 266.0 |
| 20° | 353.9 | 330.9 | 314.1 | 301.6 | 295.3 | 280.6 | 266.0 | 255.5 | 245.0 | 238.7 | 232.5 |
| 22.5° | 314.1 | 293.2 | 278.5 | 266.0 | 261.8 | 247.1 | 234.6 | 224.1 | 217.8 | 209.4 | 205.2 |
| 25° | 278.5 | 257.6 | 245.0 | 232.5 | 228.3 | 215.7 | 207.3 | 196.9 | 190.6 | 184.3 | 180.1 |
| 27.5° | 245.0 | 226.2 | 213.6 | 203.1 | 201.1 | 190.6 | 180.1 | 173.8 | 167.5 | 163.4 | 161.3 |
| 30° | 211.5 | 196.9 | 186.4 | 178.0 | 175.9 | 165.4 | 157.1 | 152.9 | 146.6 | 144.5 | 142.4 |
| 32.5° | 186.4 | 171.7 | 163.4 | 155.0 | 152.9 | 144.5 | 140.3 | 134.0 | 129.8 | 127.8 | 127.8 |
| 35° | 159.2 | 148.7 | 140.3 | 136.1 | 134.0 | 127.8 | 121.5 | 119.4 | 115.2 | 113.1 | 113.1 |
| 37.5° | 136.1 | 127.8 | 121.5 | 115.2 | 115.2 | 111.0 | 106.8 | 104.7 | 102.6 | 102.6 | 100.5 |
| 40° | 117.3 | 108.9 | 106.8 | 102.6 | 100.5 | 98.4 | 96.3 | 94.2 | 92.1 | 92.1 | 92.1 |
| 42.5° | 98.4 | 94.2 | 90.1 | 88.0 | 88.0 | 85.9 | 83.8 | 83.8 | 81.7 | 83.8 | 83.8 |
| 45° | 83.8 | 79.6 | 77.5 | 75.4 | 77.5 | 75.4 | 75.4 | 73.3 | 75.4 | 75.4 | 75.4 |
| 47.5° | 71.2 | 69.1 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 69.1 | 69.1 |
| 50° | 60.7 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 60.7 | 60.7 | 60.7 | 62.8 | 62.8 |
| 52.5° | 50.3 | 50.3 | 50.3 | 50.3 | 52.4 | 52.4 | 54.5 | 54.5 | 56.5 | 56.5 | 58.6 |
| 55° | 44.0 | 44.0 | 44.0 | 44.0 | 46.1 | 46.1 | 48.2 | 50.3 | 50.3 | 52.4 | 54.5 |
| 57.5° | 37.7 | 37.7 | 39.8 | 39.8 | 41.9 | 41.9 | 44.0 | 46.1 | 46.1 | 48.2 | 50.3 |
| 60° | 31.4 | 33.5 | 35.6 | 35.6 | 35.6 | 37.7 | 39.8 | 41.9 | 41.9 | 44.0 | 46.1 |
| 62.5° | 27.2 | 29.3 | 31.4 | 31.4 | 31.4 | 33.5 | 35.6 | 37.7 | 37.7 | 39.8 | 41.9 |
| 65° | 23.0 | 25.1 | 27.2 | 27.2 | 27.2 | 29.3 | 31.4 | 33.5 | 35.6 | 35.6 | 37.7 |
| 67.5° | 20.9 | 20.9 | 23.0 | 23.0 | 25.1 | 27.2 | 27.2 | 29.3 | 31.4 | 33.5 | 35.6 |
| 70° | 16.8 | 18.8 | 20.9 | 20.9 | 20.9 | 23.0 | 25.1 | 27.2 | 27.2 | 29.3 | 31.4 |
| 72.5° | 14.7 | 14.7 | 16.8 | 16.8 | 18.8 | 20.9 | 20.9 | 23.0 | 25.1 | 25.1 | 27.2 |
| 75° | 12.6 | 14.7 | 14.7 | 14.7 | 16.8 | 16.8 | 18.8 | 20.9 | 20.9 | 23.0 | 23.0 |
| 77.5° | 10.5 | 10.5 | 12.6 | 12.6 | 12.6 | 14.7 | 14.7 | 16.8 | 16.8 | 18.8 | 18.8 |
| 80° | 8.4 | 8.4 | 10.5 | 10.5 | 10.5 | 10.5 | 12.6 | 12.6 | 14.7 | 14.7 | 14.7 |
| 82.5° | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 10.5 | 10.5 |
| 85° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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: P226265

CATALOG NUMBER: LD2B15D010 EU2B15WW9040 2LBSW*

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 555.0 | 555.0 | 552.9 | 550.8 | 548.7 | 546.6 | 544.5 | 542.4 |
| 5° | 492.2 | 494.2 | 485.9 | 483.8 | 483.8 | 479.6 | 481.7 | 477.5 |
| 7.5° | 433.5 | 433.5 | 427.2 | 425.1 | 423.0 | 418.9 | 416.8 | 414.7 |
| 10° | 381.2 | 379.1 | 374.9 | 372.8 | 368.6 | 366.5 | 366.5 | 362.3 |
| 12.5° | 335.1 | 333.0 | 328.8 | 326.7 | 322.5 | 320.4 | 318.3 | 316.2 |
| 15° | 295.3 | 293.2 | 289.0 | 286.9 | 284.8 | 280.6 | 280.6 | 278.5 |
| 17.5° | 257.6 | 255.5 | 253.4 | 249.2 | 249.2 | 245.0 | 242.9 | 242.9 |
| 20° | 228.3 | 226.2 | 222.0 | 219.9 | 219.9 | 217.8 | 217.8 | 213.6 |
| 22.5° | 201.1 | 199.0 | 196.9 | 194.8 | 194.8 | 192.7 | 190.6 | 190.6 |
| 25° | 178.0 | 175.9 | 173.8 | 173.8 | 171.7 | 169.6 | 169.6 | 169.6 |
| 27.5° | 157.1 | 157.1 | 155.0 | 155.0 | 155.0 | 152.9 | 152.9 | 150.8 |
| 30° | 140.3 | 140.3 | 138.2 | 138.2 | 138.2 | 136.1 | 138.2 | 136.1 |
| 32.5° | 125.7 | 125.7 | 125.7 | 125.7 | 125.7 | 123.6 | 123.6 | 123.6 |
| 35° | 113.1 | 113.1 | 113.1 | 113.1 | 113.1 | 111.0 | 113.1 | 111.0 |
| 37.5° | 100.5 | 102.6 | 100.5 | 100.5 | 102.6 | 100.5 | 100.5 | 100.5 |
| 40° | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |
| 42.5° | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 |
| 45° | 75.4 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 |
| 47.5° | 71.2 | 71.2 | 71.2 | 71.2 | 73.3 | 71.2 | 73.3 | 73.3 |
| 50° | 64.9 | 64.9 | 64.9 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 |
| 52.5° | 60.7 | 60.7 | 60.7 | 60.7 | 62.8 | 62.8 | 62.8 | 62.8 |
| 55° | 54.5 | 56.5 | 56.5 | 56.5 | 58.6 | 58.6 | 58.6 | 58.6 |
| 57.5° | 52.4 | 52.4 | 52.4 | 54.5 | 54.5 | 54.5 | 56.5 | 54.5 |
| 60° | 48.2 | 48.2 | 50.3 | 50.3 | 50.3 | 52.4 | 52.4 | 52.4 |
| 62.5° | 44.0 | 46.1 | 46.1 | 46.1 | 46.1 | 48.2 | 48.2 | 48.2 |
| 65° | 39.8 | 41.9 | 41.9 | 41.9 | 44.0 | 44.0 | 44.0 | 44.0 |
| 67.5° | 35.6 | 37.7 | 37.7 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 |
| 70° | 31.4 | 33.5 | 33.5 | 33.5 | 35.6 | 35.6 | 35.6 | 35.6 |
| 72.5° | 29.3 | 29.3 | 29.3 | 31.4 | 31.4 | 31.4 | 33.5 | 31.4 |
| 75° | 25.1 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 29.3 | 29.3 |
| 77.5° | 20.9 | 20.9 | 20.9 | 20.9 | 23.0 | 23.0 | 23.0 | 23.0 |
| 80° | 16.8 | 16.8 | 16.8 | 16.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| 82.5° | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| 85° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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)