

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: P315404

Luminaire Tested: **LDA2B15FL8050D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15FL8050D010 PINW1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj PinHole, White oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1250.3 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.6 / 1.34  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

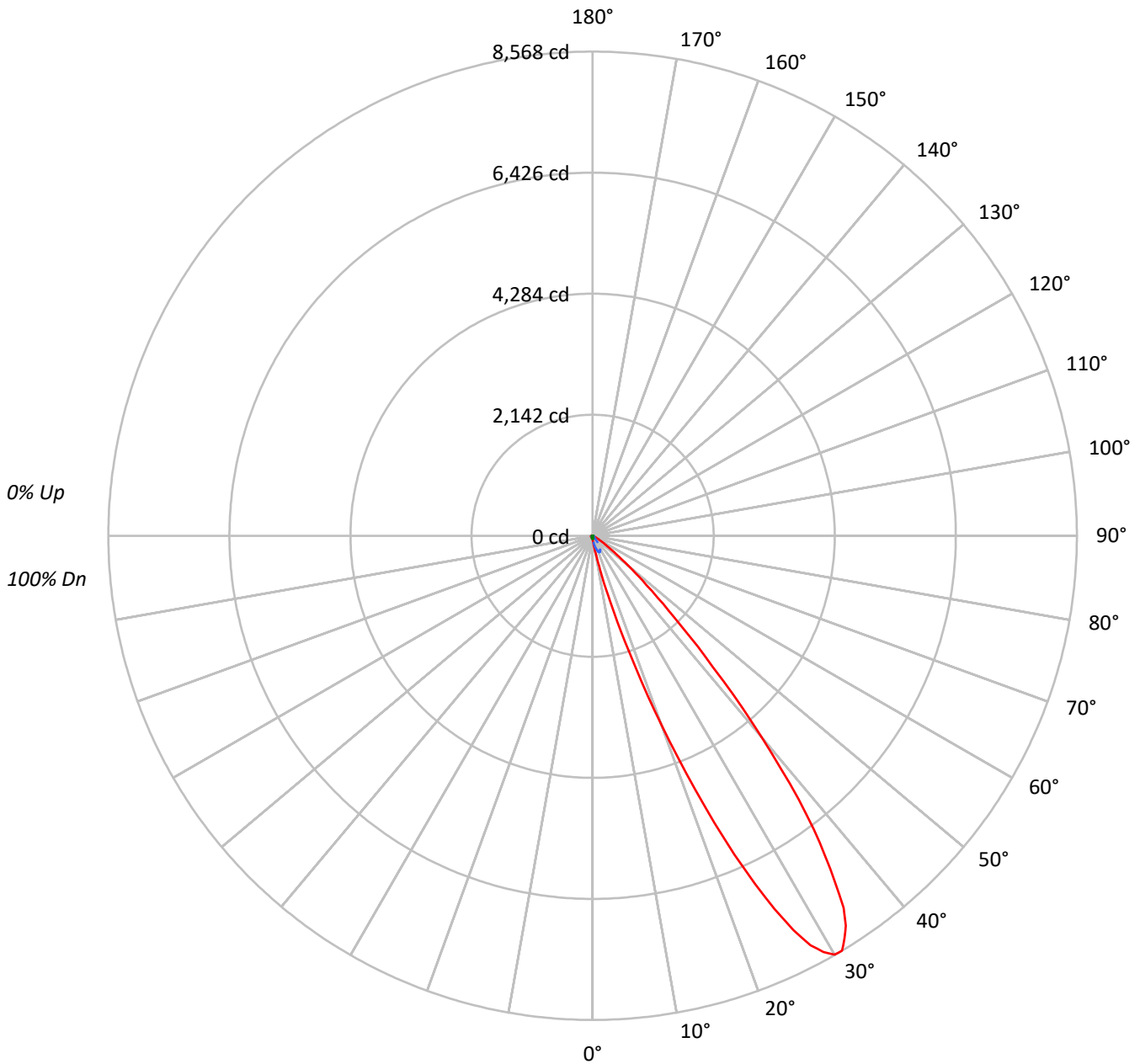
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 97  | 89  | 82  | 77  | 95  | 87  | 82  | 77  | 85  | 80  | 75  | 82  | 78  | 74  | 80  | 76  | 73  | 71  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 90  | 81  | 74  | 68  | 88  | 79  | 73  | 68  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 58  | 56  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 78  | 67  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 58  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 37  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 26247   | 26247 | 26247 |
| 5°  | 58687   | 27090 | 21147 |
| 10° | 157005  | 16883 | 6012  |
| 15° | 618078  | 21810 | 14148 |
| 20° | 1869875 | 13388 | 11026 |
| 25° | 3700318 | 11432 | 9799  |
| 30° | 4875821 | 6836  | 11963 |
| 35° | 4499118 | 9938  | 14455 |
| 40° | 2996774 | 8695  | 19772 |
| 45° | 1413509 | 3140  | 8373  |
| 50° | 623238  | 11513 | 25866 |
| 55° | 253486  | 0     | 26407 |
| 60° | 105086  | 7400  | 23681 |
| 65° | 35839   | 8755  | 17511 |
| 70° | 30292   | 17310 | 44285 |
| 75° | 17156   | 25734 | 58520 |
| 80° | 0       | 12785 | 25570 |
| 85° | 16982   | 16982 | 84910 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.2    | 0.6       |
| 10°-20°   | 76.5   | 6.1       |
| 20°-30°   | 393.2  | 31.5      |
| 30°-40°   | 503.5  | 40.3      |
| 40°-50°   | 193.6  | 15.5      |
| 50°-60°   | 39.4   | 3.1       |
| 60°-70°   | 13.4   | 1.1       |
| 70°-80°   | 15.5   | 1.2       |
| 80°-90°   | 7.9    | 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°    | 477.0  | 38.1      |
| 0°-40°    | 980.5  | 78.4      |
| 0°-60°    | 1213.5 | 97.1      |
| 0°-90°    | 1250.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1250.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 53   | 53  | 53  | 53   | 53   |      |
| 5°  | 118  | 98  | 55  | 40   | 43   | 18   |
| 15° | 1210 | 235 | 43  | 26   | 28   | 464  |
| 25° | 6798 | 307 | 21  | 16   | 18   | 3103 |
| 35° | 7470 | 160 | 16  | 14   | 24   | 4465 |
| 45° | 2026 | 40  | 4   | 3    | 12   | 1741 |
| 55° | 295  | 8   | 0   | 6    | 31   | 305  |
| 65° | 31   | 10  | 8   | 10   | 15   | 43   |
| 75° | 9    | 16  | 14  | 22   | 31   | 12   |
| 85° | 3    | 10  | 3   | 12   | 15   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 22.5°  | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2  | 53.2  |
| 2.5°  | 78.7   | 68.2   | 71.2   | 60.7   | 66.7   | 68.2   | 56.2   | 74.2   | 66.7   | 69.7  | 60.7  |
| 5°    | 118.5  | 127.5  | 117.0  | 112.5  | 109.5  | 112.5  | 109.5  | 114.0  | 111.0  | 97.5  | 69.7  |
| 7.5°  | 197.9  | 180.7  | 180.7  | 174.7  | 179.2  | 177.7  | 170.2  | 174.7  | 164.2  | 118.5 | 80.2  |
| 10°   | 313.4  | 296.2  | 294.7  | 290.2  | 288.7  | 275.2  | 267.7  | 261.7  | 239.9  | 140.2 | 72.7  |
| 12.5° | 614.1  | 599.1  | 588.6  | 562.3  | 544.3  | 533.8  | 494.1  | 473.1  | 410.9  | 208.4 | 93.0  |
| 15°   | 1210.1 | 1132.9 | 1152.4 | 1067.7 | 1005.5 | 964.2  | 881.7  | 809.0  | 659.8  | 235.4 | 90.0  |
| 17.5° | 2141.4 | 2066.4 | 2016.2 | 1923.9 | 1797.2 | 1687.8 | 1525.1 | 1363.9 | 1060.2 | 267.7 | 84.0  |
| 20°   | 3561.5 | 3443.0 | 3338.0 | 3179.8 | 2936.1 | 2725.5 | 2439.0 | 2130.9 | 1578.3 | 305.9 | 75.7  |
| 21°   | 4185.3 | 4093.8 | 3972.3 | 3763.9 | 3479.7 | 3197.8 | 2854.4 | 2483.3 | 1798.7 | 308.9 | 68.2  |
| 22°   | 4836.1 | 4776.9 | 4617.2 | 4378.0 | 4046.6 | 3710.7 | 3289.3 | 2881.4 | 2033.4 | 313.4 | 65.2  |
| 23°   | 5513.9 | 5451.7 | 5271.0 | 4997.3 | 4624.7 | 4218.3 | 3727.2 | 3243.6 | 2253.8 | 319.4 | 63.7  |
| 24°   | 6177.4 | 6108.5 | 5906.8 | 5600.9 | 5178.0 | 4710.9 | 4156.0 | 3595.2 | 2459.3 | 316.4 | 66.7  |
| 25°   | 6797.5 | 6701.5 | 6488.6 | 6149.7 | 5685.6 | 5161.5 | 4549.7 | 3898.9 | 2640.0 | 307.4 | 56.2  |
| 26°   | 7350.9 | 7241.4 | 7012.0 | 6642.3 | 6134.7 | 5567.1 | 4878.1 | 4180.8 | 2773.4 | 299.9 | 53.2  |
| 27°   | 7831.5 | 7693.5 | 7448.3 | 7060.7 | 6516.4 | 5889.5 | 5158.5 | 4401.2 | 2891.2 | 288.7 | 42.7  |
| 28°   | 8205.6 | 8047.4 | 7798.5 | 7389.1 | 6814.0 | 6140.7 | 5364.7 | 4539.2 | 2960.9 | 290.2 | 48.7  |
| 29°   | 8421.5 | 8300.1 | 8029.4 | 7600.5 | 6995.5 | 6285.4 | 5473.4 | 4615.7 | 2974.4 | 267.7 | 45.7  |
| 30°   | 8558.8 | 8423.0 | 8144.9 | 7696.5 | 7065.2 | 6318.4 | 5486.9 | 4601.4 | 2934.6 | 251.2 | 42.7  |
| 31°   | 8567.8 | 8426.0 | 8143.4 | 7679.3 | 7038.2 | 6263.7 | 5411.9 | 4516.7 | 2848.4 | 233.9 | 35.2  |
| 32°   | 8406.5 | 8297.1 | 8018.9 | 7539.8 | 6892.0 | 6113.0 | 5250.7 | 4373.5 | 2712.7 | 199.4 | 24.0  |
| 33°   | 8224.4 | 8091.6 | 7815.0 | 7331.4 | 6689.6 | 5906.8 | 5018.3 | 4180.8 | 2571.8 | 196.4 | 30.7  |
| 34°   | 7940.9 | 7781.2 | 7509.1 | 7033.0 | 6408.4 | 5612.9 | 4741.6 | 3923.6 | 2391.8 | 179.2 | 29.2  |
| 35°   | 7470.1 | 7384.6 | 7109.4 | 6639.3 | 6032.7 | 5260.5 | 4408.7 | 3640.9 | 2200.6 | 159.7 | 21.0  |
| 36°   | 6998.5 | 6893.5 | 6633.3 | 6178.9 | 5603.9 | 4840.6 | 4033.1 | 3318.5 | 1984.7 | 135.7 | 16.5  |
| 37°   | 6499.9 | 6362.6 | 6125.7 | 5681.1 | 5080.5 | 4422.2 | 3672.4 | 3011.1 | 1808.5 | 143.2 | 22.5  |
| 38°   | 5918.8 | 5873.0 | 5561.1 | 5147.2 | 4592.4 | 3970.8 | 3284.8 | 2687.2 | 1613.5 | 133.5 | 36.7  |
| 39°   | 5280.0 | 5249.2 | 4938.1 | 4560.9 | 4063.1 | 3491.7 | 2888.2 | 2351.3 | 1418.6 | 97.5  | 12.0  |
| 40°   | 4653.1 | 4565.4 | 4345.0 | 4002.3 | 3569.0 | 3055.4 | 2533.5 | 2064.9 | 1249.9 | 96.0  | 24.0  |
| 42.5° | 3153.6 | 3181.3 | 2942.9 | 2697.7 | 2419.5 | 2070.9 | 1723.0 | 1415.6 | 874.2  | 71.2  | 15.0  |
| 45°   | 2025.9 | 2031.9 | 1925.4 | 1735.0 | 1552.8 | 1335.4 | 1105.9 | 921.5  | 563.8  | 39.7  | 4.5   |
| 47.5° | 1289.6 | 1286.6 | 1218.4 | 1108.9 | 989.7  | 862.2  | 719.0  | 602.1  | 365.1  | 30.7  | 13.5  |
| 50°   | 812.0  | 809.0  | 766.3  | 696.5  | 629.8  | 545.8  | 455.9  | 387.6  | 230.9  | 36.7  | 15.0  |
| 51°   | 659.8  | 664.3  | 628.3  | 557.8  | 506.1  | 425.9  | 363.6  | 308.9  | 180.7  | 25.5  | 13.5  |
| 52°   | 544.3  | 541.3  | 518.8  | 459.6  | 416.9  | 347.9  | 296.2  | 252.7  | 150.7  | 22.5  | 6.0   |
| 53°   | 437.9  | 439.4  | 416.9  | 371.1  | 329.9  | 278.2  | 236.9  | 196.4  | 108.0  | 16.5  | 4.5   |
| 54°   | 346.4  | 343.4  | 335.9  | 291.7  | 266.2  | 220.4  | 185.2  | 150.7  | 93.0   | 3.0   | 0.0   |
| 55°   | 294.7  | 290.2  | 279.7  | 241.4  | 215.9  | 182.2  | 147.7  | 129.0  | 80.2   | 7.5   | 0.0   |
| 57.5° | 170.2  | 170.2  | 164.2  | 143.2  | 126.0  | 112.5  | 90.0   | 84.0   | 41.2   | 7.5   | 0.0   |
| 60°   | 106.5  | 93.0   | 103.5  | 88.5   | 69.7   | 62.2   | 51.7   | 47.2   | 35.2   | 13.5  | 3.0   |
| 61°   | 88.5   | 71.2   | 69.7   | 65.2   | 60.7   | 41.2   | 35.2   | 38.2   | 22.5   | 4.5   | 3.0   |
| 62°   | 63.7   | 56.2   | 60.7   | 51.7   | 45.7   | 32.2   | 29.2   | 27.7   | 13.5   | 6.0   | 7.5   |
| 63°   | 57.7   | 51.7   | 50.2   | 38.2   | 33.7   | 33.7   | 25.5   | 24.0   | 16.5   | 12.0  | 6.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 2.5° | 5°   | 7.5° | 10°  | 12.5° | 15°  | 17.5° | 22.5° | 45°  | 67.5° |
|-------|------|------|------|------|------|-------|------|-------|-------|------|-------|
| 66°   | 30.7 | 25.5 | 22.5 | 25.5 | 15.0 | 19.5  | 7.5  | 21.0  | 4.5   | 7.5  | 4.5   |
| 67.5° | 24.0 | 15.0 | 13.5 | 16.5 | 10.5 | 7.5   | 10.5 | 13.5  | 4.5   | 7.5  | 10.5  |
| 70°   | 21.0 | 10.5 | 15.0 | 13.5 | 10.5 | 13.5  | 15.0 | 15.0  | 4.5   | 15.0 | 13.5  |
| 72.5° | 21.0 | 13.5 | 7.5  | 6.0  | 6.0  | 6.0   | 6.0  | 6.0   | 9.0   | 21.0 | 16.5  |
| 75°   | 9.0  | 9.0  | 4.5  | 10.5 | 6.0  | 9.0   | 6.0  | 15.0  | 6.0   | 16.5 | 13.5  |
| 77.5° | 6.0  | 7.5  | 0.0  | 7.5  | 0.0  | 0.0   | 4.5  | 10.5  | 4.5   | 12.0 | 15.0  |
| 80°   | 0.0  | 7.5  | 4.5  | 0.0  | 3.0  | 4.5   | 0.0  | 1.5   | 3.0   | 13.5 | 6.0   |
| 82.5° | 3.0  | 4.5  | 6.0  | 3.0  | 3.0  | 0.0   | 0.0  | 0.0   | 0.0   | 9.0  | 7.5   |
| 85°   | 3.0  | 6.0  | 0.0  | 1.5  | 6.0  | 3.0   | 1.5  | 7.5   | 3.0   | 10.5 | 12.0  |
| 87.5° | 0.0  | 3.0  | 3.0  | 0.0  | 4.5  | 0.0   | 4.5  | 3.0   | 0.0   | 9.0  | 4.5   |
| 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):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 53.2 | 53.2   | 53.2 | 53.2   | 53.2 |
| 2.5°  | 45.7 | 41.2   | 35.2 | 44.2   | 36.7 |
| 5°    | 54.7 | 50.2   | 39.7 | 47.2   | 42.7 |
| 7.5°  | 56.2 | 47.2   | 41.2 | 38.2   | 42.7 |
| 10°   | 33.7 | 22.5   | 16.5 | 22.5   | 12.0 |
| 12.5° | 56.2 | 39.7   | 36.7 | 41.2   | 45.7 |
| 15°   | 42.7 | 25.5   | 25.5 | 19.5   | 27.7 |
| 17.5° | 24.0 | 19.5   | 18.0 | 24.0   | 27.7 |
| 20°   | 25.5 | 16.5   | 13.5 | 22.5   | 21.0 |
| 21°   | 22.5 | 6.0    | 18.0 | 18.0   | 21.0 |
| 22°   | 32.2 | 15.0   | 18.0 | 29.2   | 30.7 |
| 23°   | 21.0 | 16.5   | 13.5 | 18.0   | 24.0 |
| 24°   | 30.7 | 18.0   | 16.5 | 22.5   | 33.7 |
| 25°   | 21.0 | 16.5   | 16.5 | 21.0   | 18.0 |
| 26°   | 12.0 | 16.5   | 12.0 | 18.0   | 15.0 |
| 27°   | 9.0  | 15.0   | 9.0  | 13.5   | 18.0 |
| 28°   | 19.5 | 24.0   | 22.5 | 24.0   | 21.0 |
| 29°   | 21.0 | 25.5   | 21.0 | 32.2   | 24.0 |
| 30°   | 12.0 | 22.5   | 10.5 | 24.0   | 21.0 |
| 31°   | 12.0 | 16.5   | 7.5  | 24.0   | 21.0 |
| 32°   | 1.5  | 9.0    | 4.5  | 9.0    | 9.0  |
| 33°   | 9.0  | 10.5   | 12.0 | 19.5   | 15.0 |
| 34°   | 15.0 | 18.0   | 12.0 | 21.0   | 18.0 |
| 35°   | 16.5 | 9.0    | 13.5 | 22.5   | 24.0 |
| 36°   | 4.5  | 4.5    | 7.5  | 18.0   | 6.0  |
| 37°   | 9.0  | 25.5   | 18.0 | 30.7   | 18.0 |
| 38°   | 15.0 | 30.7   | 29.2 | 38.2   | 30.7 |
| 39°   | 3.0  | 9.0    | 10.5 | 21.0   | 21.0 |
| 40°   | 13.5 | 22.5   | 16.5 | 30.7   | 30.7 |
| 42.5° | 10.5 | 16.5   | 12.0 | 25.5   | 21.0 |
| 45°   | 4.5  | 4.5    | 3.0  | 16.5   | 12.0 |
| 47.5° | 7.5  | 7.5    | 13.5 | 21.0   | 36.7 |
| 50°   | 15.0 | 15.0   | 19.5 | 35.2   | 33.7 |
| 51°   | 9.0  | 7.5    | 10.5 | 24.0   | 30.7 |
| 52°   | 7.5  | 10.5   | 10.5 | 24.0   | 24.0 |
| 53°   | 3.0  | 0.0    | 0.0  | 18.0   | 15.0 |
| 54°   | 3.0  | 1.5    | 4.5  | 13.5   | 21.0 |
| 55°   | 0.0  | 7.5    | 6.0  | 27.7   | 30.7 |
| 57.5° | 1.5  | 12.0   | 6.0  | 19.5   | 24.0 |
| 60°   | 7.5  | 9.0    | 16.5 | 19.5   | 24.0 |
| 61°   | 0.0  | 7.5    | 7.5  | 18.0   | 21.0 |
| 62°   | 0.0  | 6.0    | 13.5 | 16.5   | 21.0 |
| 63°   | 7.5  | 9.0    | 12.0 | 19.5   | 24.0 |





TEST NUMBER: P315404

CATALOG NUMBER: LDA2B15FL8050D010 PINW1MB

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 66°   | 4.5  | 12.0   | 15.0 | 19.5   | 18.0 |
| 67.5° | 9.0  | 10.5   | 9.0  | 25.5   | 30.7 |
| 70°   | 12.0 | 19.5   | 21.0 | 18.0   | 30.7 |
| 72.5° | 7.5  | 10.5   | 15.0 | 27.7   | 30.7 |
| 75°   | 13.5 | 15.0   | 22.5 | 25.5   | 30.7 |
| 77.5° | 10.5 | 15.0   | 15.0 | 16.5   | 30.7 |
| 80°   | 4.5  | 13.5   | 15.0 | 16.5   | 9.0  |
| 82.5° | 6.0  | 9.0    | 6.0  | 16.5   | 12.0 |
| 85°   | 3.0  | 13.5   | 12.0 | 15.0   | 15.0 |
| 87.5° | 4.5  | 7.5    | 7.5  | 13.5   | 9.0  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







|     |      |      |      |      |      |      |      |      |     |      |     |
|-----|------|------|------|------|------|------|------|------|-----|------|-----|
| 64° | 33.7 | 35.2 | 33.7 | 24.0 | 18.0 | 16.5 | 12.0 | 21.0 | 6.0 | 6.0  | 0.0 |
| 65° | 30.7 | 33.7 | 25.5 | 29.2 | 19.5 | 18.0 | 10.5 | 21.0 | 3.0 | 10.5 | 7.5 |







|     |     |      |      |      |      |
|-----|-----|------|------|------|------|
| 64° | 4.5 | 7.5  | 7.5  | 13.5 | 21.0 |
| 65° | 7.5 | 10.5 | 10.5 | 19.5 | 15.0 |



(END OF REPORT)