

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: P315218

Luminaire Tested: **LDA2B05FL8030D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315218  
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: LDA2B05FL8030D010 PINW1MB  
Description: PORTFOLIO 2IN ADJ 500 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: 661.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

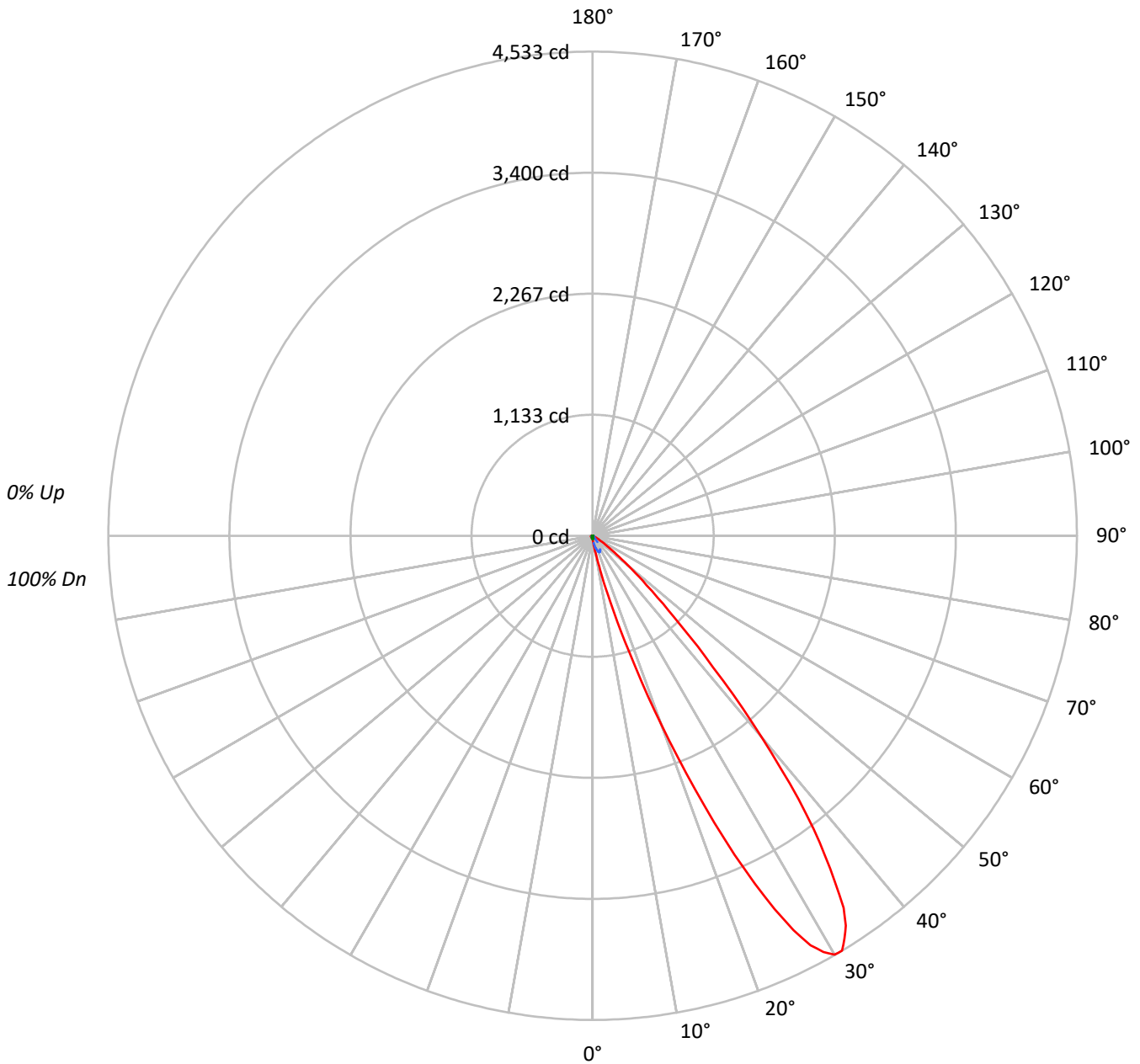
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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CATALOG NUMBER: LDA2B05FL8030D010 PINW1MB

**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°  | 13913   | 13913 | 13913 |
| 5°  | 31052   | 14362 | 11193 |
| 10° | 83061   | 8967  | 3156  |
| 15° | 327043  | 11543 | 7508  |
| 20° | 989304  | 7088  | 5828  |
| 25° | 1957752 | 6042  | 5171  |
| 30° | 2579648 | 3589  | 6324  |
| 35° | 2380345 | 5240  | 7649  |
| 40° | 1585493 | 4573  | 10498 |
| 45° | 747885  | 1675  | 4396  |
| 50° | 329733  | 6064  | 13739 |
| 55° | 134097  | 0     | 14020 |
| 60° | 55553   | 3947  | 12531 |
| 65° | 19029   | 4670  | 9222  |
| 70° | 16012   | 9088  | 23513 |
| 75° | 9150    | 13534 | 31071 |
| 80° | 0       | 6819  | 13638 |
| 85° | 9057    | 9057  | 44719 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.8    | 0.6       |
| 10°-20°   | 40.5   | 6.1       |
| 20°-30°   | 208.0  | 31.5      |
| 30°-40°   | 266.4  | 40.3      |
| 40°-50°   | 102.4  | 15.5      |
| 50°-60°   | 20.8   | 3.1       |
| 60°-70°   | 7.1    | 1.1       |
| 70°-80°   | 8.2    | 1.2       |
| 80°-90°   | 4.2    | 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°    | 252.3  | 38.1      |
| 0°-40°    | 518.7  | 78.4      |
| 0°-60°    | 642.0  | 97.1      |
| 0°-90°    | 661.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 661.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 28   | 28  | 28  | 28   | 28   |      |
| 5°  | 63   | 52  | 29  | 21   | 23   | 9    |
| 15° | 640  | 125 | 23  | 14   | 15   | 246  |
| 25° | 3596 | 163 | 11  | 9    | 10   | 1642 |
| 35° | 3952 | 84  | 9   | 7    | 13   | 2362 |
| 45° | 1072 | 21  | 2   | 2    | 6    | 921  |
| 55° | 156  | 4   | 0   | 3    | 16   | 161  |
| 65° | 16   | 6   | 4   | 6    | 8    | 23   |
| 75° | 5    | 9   | 7   | 12   | 16   | 6    |
| 85° | 2    | 6   | 2   | 6    | 8    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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CATALOG NUMBER: LDA2B05FL8030D010 PINW1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 22.5°  | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2  | 28.2  |
| 2.5°  | 41.7   | 36.1   | 37.7   | 32.1   | 35.3   | 36.1   | 29.8   | 39.3   | 35.3   | 36.9  | 32.1  |
| 5°    | 62.7   | 67.4   | 61.9   | 59.5   | 57.9   | 59.5   | 57.9   | 60.3   | 58.7   | 51.6  | 36.9  |
| 7.5°  | 104.7  | 95.6   | 95.6   | 92.4   | 94.8   | 94.0   | 90.0   | 92.4   | 86.9   | 62.7  | 42.4  |
| 10°   | 165.8  | 156.7  | 155.9  | 153.5  | 152.7  | 145.6  | 141.6  | 138.4  | 126.9  | 74.2  | 38.5  |
| 12.5° | 324.9  | 317.0  | 311.4  | 297.5  | 288.0  | 282.4  | 261.4  | 250.3  | 217.4  | 110.3 | 49.2  |
| 15°   | 640.3  | 599.4  | 609.7  | 564.9  | 532.0  | 510.1  | 466.5  | 428.0  | 349.1  | 124.6 | 47.6  |
| 17.5° | 1132.9 | 1093.3 | 1066.7 | 1017.9 | 950.9  | 892.9  | 806.9  | 721.6  | 560.9  | 141.6 | 44.4  |
| 20°   | 1884.3 | 1821.6 | 1766.1 | 1682.4 | 1553.4 | 1442.0 | 1290.4 | 1127.4 | 835.0  | 161.8 | 40.1  |
| 21°   | 2214.3 | 2165.9 | 2101.7 | 1991.4 | 1841.0 | 1691.9 | 1510.2 | 1313.8 | 951.7  | 163.4 | 36.1  |
| 22°   | 2558.6 | 2527.3 | 2442.8 | 2316.3 | 2140.9 | 1963.2 | 1740.3 | 1524.5 | 1075.8 | 165.8 | 34.5  |
| 23°   | 2917.2 | 2884.3 | 2788.7 | 2643.9 | 2446.8 | 2231.8 | 1971.9 | 1716.1 | 1192.4 | 169.0 | 33.7  |
| 24°   | 3268.3 | 3231.8 | 3125.1 | 2963.3 | 2739.5 | 2492.4 | 2198.8 | 1902.1 | 1301.1 | 167.4 | 35.3  |
| 25°   | 3596.4 | 3545.6 | 3432.9 | 3253.6 | 3008.1 | 2730.8 | 2407.1 | 2062.8 | 1396.7 | 162.6 | 29.8  |
| 26°   | 3889.1 | 3831.2 | 3709.8 | 3514.3 | 3245.7 | 2945.4 | 2580.9 | 2211.9 | 1467.3 | 158.7 | 28.2  |
| 27°   | 4143.4 | 4070.4 | 3940.7 | 3735.6 | 3447.6 | 3116.0 | 2729.2 | 2328.6 | 1529.6 | 152.7 | 22.6  |
| 28°   | 4341.4 | 4257.7 | 4126.0 | 3909.4 | 3605.1 | 3248.9 | 2838.3 | 2401.5 | 1566.5 | 153.5 | 25.8  |
| 29°   | 4455.6 | 4391.3 | 4248.1 | 4021.2 | 3701.1 | 3325.4 | 2895.8 | 2442.0 | 1573.7 | 141.6 | 24.2  |
| 30°   | 4528.2 | 4456.4 | 4309.2 | 4072.0 | 3738.0 | 3342.9 | 2903.0 | 2434.5 | 1552.6 | 132.9 | 22.6  |
| 31°   | 4533.0 | 4458.0 | 4308.4 | 4062.9 | 3723.7 | 3313.9 | 2863.3 | 2389.6 | 1507.0 | 123.8 | 18.6  |
| 32°   | 4447.7 | 4389.7 | 4242.6 | 3989.1 | 3646.4 | 3234.2 | 2778.0 | 2313.9 | 1435.2 | 105.5 | 12.7  |
| 33°   | 4351.3 | 4281.1 | 4134.7 | 3878.8 | 3539.2 | 3125.1 | 2655.0 | 2211.9 | 1360.6 | 103.9 | 16.3  |
| 34°   | 4201.3 | 4116.8 | 3972.8 | 3720.9 | 3390.5 | 2969.6 | 2508.7 | 2075.9 | 1265.4 | 94.8  | 15.5  |
| 35°   | 3952.2 | 3907.0 | 3761.4 | 3512.7 | 3191.8 | 2783.2 | 2332.5 | 1926.3 | 1164.3 | 84.5  | 11.1  |
| 36°   | 3702.7 | 3647.1 | 3509.5 | 3269.1 | 2964.8 | 2561.0 | 2133.8 | 1755.7 | 1050.0 | 71.8  | 8.7   |
| 37°   | 3438.9 | 3366.3 | 3240.9 | 3005.7 | 2688.0 | 2339.7 | 1943.0 | 1593.1 | 956.8  | 75.8  | 11.9  |
| 38°   | 3131.5 | 3107.3 | 2942.2 | 2723.3 | 2429.7 | 2100.9 | 1737.9 | 1421.7 | 853.7  | 70.6  | 19.4  |
| 39°   | 2793.5 | 2777.2 | 2612.6 | 2413.1 | 2149.7 | 1847.4 | 1528.0 | 1244.0 | 750.5  | 51.6  | 6.3   |
| 40°   | 2461.8 | 2415.4 | 2298.8 | 2117.5 | 1888.2 | 1616.5 | 1340.4 | 1092.5 | 661.3  | 50.8  | 12.7  |
| 42.5° | 1668.5 | 1683.1 | 1557.0 | 1427.3 | 1280.1 | 1095.7 | 911.6  | 748.9  | 462.5  | 37.7  | 7.9   |
| 45°   | 1071.9 | 1075.0 | 1018.7 | 917.9  | 821.5  | 706.5  | 585.1  | 487.5  | 298.3  | 21.0  | 2.4   |
| 47.5° | 682.3  | 680.7  | 644.6  | 586.7  | 523.6  | 456.2  | 380.4  | 318.5  | 193.2  | 16.3  | 7.1   |
| 50°   | 429.6  | 428.0  | 405.4  | 368.5  | 333.2  | 288.8  | 241.2  | 205.1  | 122.2  | 19.4  | 7.9   |
| 51°   | 349.1  | 351.5  | 332.4  | 295.1  | 267.8  | 225.3  | 192.4  | 163.4  | 95.6   | 13.5  | 7.1   |
| 52°   | 288.0  | 286.4  | 274.5  | 243.2  | 220.6  | 184.1  | 156.7  | 133.7  | 79.7   | 11.9  | 3.2   |
| 53°   | 231.7  | 232.5  | 220.6  | 196.4  | 174.5  | 147.2  | 125.4  | 103.9  | 57.1   | 8.7   | 2.4   |
| 54°   | 183.3  | 181.7  | 177.7  | 154.3  | 140.8  | 116.6  | 98.0   | 79.7   | 49.2   | 1.6   | 0.0   |
| 55°   | 155.9  | 153.5  | 148.0  | 127.7  | 114.2  | 96.4   | 78.1   | 68.2   | 42.4   | 4.0   | 0.0   |
| 57.5° | 90.0   | 90.0   | 86.9   | 75.8   | 66.6   | 59.5   | 47.6   | 44.4   | 21.8   | 4.0   | 0.0   |
| 60°   | 56.3   | 49.2   | 54.7   | 46.8   | 36.9   | 32.9   | 27.4   | 25.0   | 18.6   | 7.1   | 1.6   |
| 61°   | 46.8   | 37.7   | 36.9   | 34.5   | 32.1   | 21.8   | 18.6   | 20.2   | 11.9   | 2.4   | 1.6   |
| 62°   | 33.7   | 29.8   | 32.1   | 27.4   | 24.2   | 17.1   | 15.5   | 14.7   | 7.1    | 3.2   | 4.0   |
| 63°   | 30.5   | 27.4   | 26.6   | 20.2   | 17.9   | 17.9   | 13.5   | 12.7   | 8.7    | 6.3   | 3.2   |



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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°   | 16.3 | 13.5 | 11.9 | 13.5 | 7.9 | 10.3  | 4.0 | 11.1  | 2.4   | 4.0  | 2.4   |
| 67.5° | 12.7 | 7.9  | 7.1  | 8.7  | 5.6 | 4.0   | 5.6 | 7.1   | 2.4   | 4.0  | 5.6   |
| 70°   | 11.1 | 5.6  | 7.9  | 7.1  | 5.6 | 7.1   | 7.9 | 7.9   | 2.4   | 7.9  | 7.1   |
| 72.5° | 11.1 | 7.1  | 4.0  | 3.2  | 3.2 | 3.2   | 3.2 | 3.2   | 4.8   | 11.1 | 8.7   |
| 75°   | 4.8  | 4.8  | 2.4  | 5.6  | 3.2 | 4.8   | 3.2 | 7.9   | 3.2   | 8.7  | 7.1   |
| 77.5° | 3.2  | 4.0  | 0.0  | 4.0  | 0.0 | 0.0   | 2.4 | 5.6   | 2.4   | 6.3  | 7.9   |
| 80°   | 0.0  | 4.0  | 2.4  | 0.0  | 1.6 | 2.4   | 0.0 | 0.8   | 1.6   | 7.1  | 3.2   |
| 82.5° | 1.6  | 2.4  | 3.2  | 1.6  | 1.6 | 0.0   | 0.0 | 0.0   | 0.0   | 4.8  | 4.0   |
| 85°   | 1.6  | 3.2  | 0.0  | 0.8  | 3.2 | 1.6   | 0.8 | 4.0   | 1.6   | 5.6  | 6.3   |
| 87.5° | 0.0  | 1.6  | 1.6  | 0.0  | 2.4 | 0.0   | 2.4 | 1.6   | 0.0   | 4.8  | 2.4   |
| 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°    | 28.2 | 28.2   | 28.2 | 28.2   | 28.2 |
| 2.5°  | 24.2 | 21.8   | 18.6 | 23.4   | 19.4 |
| 5°    | 29.0 | 26.6   | 21.0 | 25.0   | 22.6 |
| 7.5°  | 29.8 | 25.0   | 21.8 | 20.2   | 22.6 |
| 10°   | 17.9 | 11.9   | 8.7  | 11.9   | 6.3  |
| 12.5° | 29.8 | 21.0   | 19.4 | 21.8   | 24.2 |
| 15°   | 22.6 | 13.5   | 13.5 | 10.3   | 14.7 |
| 17.5° | 12.7 | 10.3   | 9.5  | 12.7   | 14.7 |
| 20°   | 13.5 | 8.7    | 7.1  | 11.9   | 11.1 |
| 21°   | 11.9 | 3.2    | 9.5  | 9.5    | 11.1 |
| 22°   | 17.1 | 7.9    | 9.5  | 15.5   | 16.3 |
| 23°   | 11.1 | 8.7    | 7.1  | 9.5    | 12.7 |
| 24°   | 16.3 | 9.5    | 8.7  | 11.9   | 17.9 |
| 25°   | 11.1 | 8.7    | 8.7  | 11.1   | 9.5  |
| 26°   | 6.3  | 8.7    | 6.3  | 9.5    | 7.9  |
| 27°   | 4.8  | 7.9    | 4.8  | 7.1    | 9.5  |
| 28°   | 10.3 | 12.7   | 11.9 | 12.7   | 11.1 |
| 29°   | 11.1 | 13.5   | 11.1 | 17.1   | 12.7 |
| 30°   | 6.3  | 11.9   | 5.6  | 12.7   | 11.1 |
| 31°   | 6.3  | 8.7    | 4.0  | 12.7   | 11.1 |
| 32°   | 0.8  | 4.8    | 2.4  | 4.8    | 4.8  |
| 33°   | 4.8  | 5.6    | 6.3  | 10.3   | 7.9  |
| 34°   | 7.9  | 9.5    | 6.3  | 11.1   | 9.5  |
| 35°   | 8.7  | 4.8    | 7.1  | 11.9   | 12.7 |
| 36°   | 2.4  | 2.4    | 4.0  | 9.5    | 3.2  |
| 37°   | 4.8  | 13.5   | 9.5  | 16.3   | 9.5  |
| 38°   | 7.9  | 16.3   | 15.5 | 20.2   | 16.3 |
| 39°   | 1.6  | 4.8    | 5.6  | 11.1   | 11.1 |
| 40°   | 7.1  | 11.9   | 8.7  | 16.3   | 16.3 |
| 42.5° | 5.6  | 8.7    | 6.3  | 13.5   | 11.1 |
| 45°   | 2.4  | 2.4    | 1.6  | 8.7    | 6.3  |
| 47.5° | 4.0  | 4.0    | 7.1  | 11.1   | 19.4 |
| 50°   | 7.9  | 7.9    | 10.3 | 18.6   | 17.9 |
| 51°   | 4.8  | 4.0    | 5.6  | 12.7   | 16.3 |
| 52°   | 4.0  | 5.6    | 5.6  | 12.7   | 12.7 |
| 53°   | 1.6  | 0.0    | 0.0  | 9.5    | 7.9  |
| 54°   | 1.6  | 0.8    | 2.4  | 7.1    | 11.1 |
| 55°   | 0.0  | 4.0    | 3.2  | 14.7   | 16.3 |
| 57.5° | 0.8  | 6.3    | 3.2  | 10.3   | 12.7 |
| 60°   | 4.0  | 4.8    | 8.7  | 10.3   | 12.7 |
| 61°   | 0.0  | 4.0    | 4.0  | 9.5    | 11.1 |
| 62°   | 0.0  | 3.2    | 7.1  | 8.7    | 11.1 |
| 63°   | 4.0  | 4.8    | 6.3  | 10.3   | 12.7 |





TEST NUMBER: P315218

CATALOG NUMBER: LDA2B05FL8030D010 PINW1MB

**CANDELA DISTRIBUTION (continued):**

|       | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66°   | 2.4 | 6.3    | 7.9  | 10.3   | 9.5  |
| 67.5° | 4.8 | 5.6    | 4.8  | 13.5   | 16.3 |
| 70°   | 6.3 | 10.3   | 11.1 | 9.5    | 16.3 |
| 72.5° | 4.0 | 5.6    | 7.9  | 14.7   | 16.3 |
| 75°   | 7.1 | 7.9    | 11.9 | 13.5   | 16.3 |
| 77.5° | 5.6 | 7.9    | 7.9  | 8.7    | 16.3 |
| 80°   | 2.4 | 7.1    | 7.9  | 8.7    | 4.8  |
| 82.5° | 3.2 | 4.8    | 3.2  | 8.7    | 6.3  |
| 85°   | 1.6 | 7.1    | 6.3  | 7.9    | 7.9  |
| 87.5° | 2.4 | 4.0    | 4.0  | 7.1    | 4.8  |
| 90°   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |



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







|     |      |      |      |      |      |     |     |      |     |     |     |
|-----|------|------|------|------|------|-----|-----|------|-----|-----|-----|
| 64° | 17.9 | 18.6 | 17.9 | 12.7 | 9.5  | 8.7 | 6.3 | 11.1 | 3.2 | 3.2 | 0.0 |
| 65° | 16.3 | 17.9 | 13.5 | 15.5 | 10.3 | 9.5 | 5.6 | 11.1 | 1.6 | 5.6 | 4.0 |







|     |     |     |     |      |      |
|-----|-----|-----|-----|------|------|
| 64° | 2.4 | 4.0 | 4.0 | 7.1  | 11.1 |
| 65° | 4.0 | 5.6 | 5.6 | 10.3 | 7.9  |



(END OF REPORT)