

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: P170805

Luminaire Tested: **LDA4A18827D010TE LAR35FL 4LAL1 30° Tilt**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26106)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A18827D010TE LAR35FL 4LAL1 30° Tilt  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flanged, 35° Flood Optic, at 30° tilt. --- 27.9W  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1795.1 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Spacing Criteria (0/90/45): 2.71 / 1.11 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

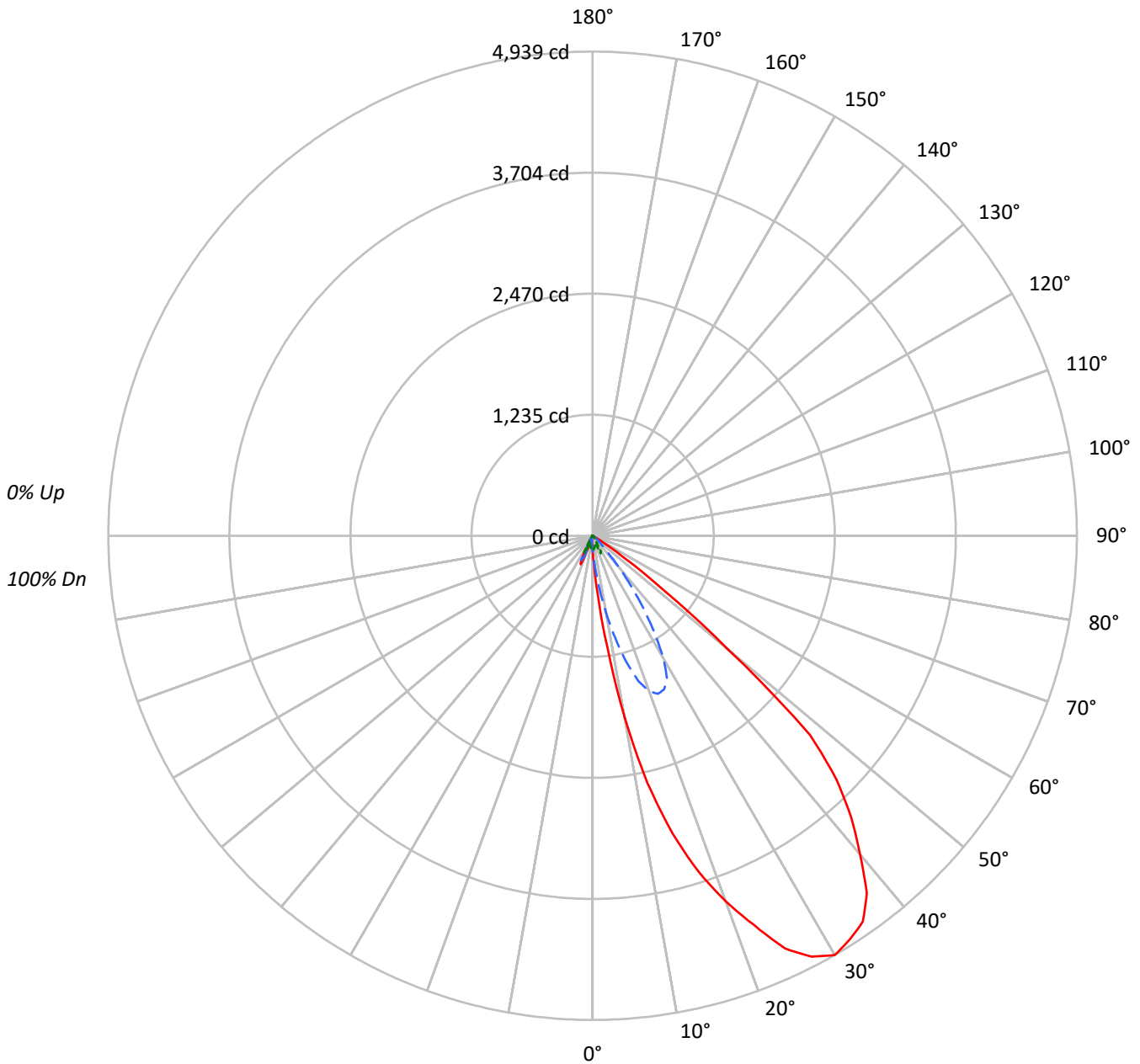
Input Watts (W): 29.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 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  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 79  | 76  | 81  | 78  | 75  | 73  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 70  | 67  | 65  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 85  | 75  | 68  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 60  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 74  | 62  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 64  | 53  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 60  | 48  | 41  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 18206  | 18206 | 18206 |
| 5°  | 73312  | 17186 | 8048  |
| 10° | 236356 | 14416 | 4622  |
| 15° | 400955 | 11442 | 3588  |
| 20° | 521122 | 10265 | 10842 |
| 25° | 632388 | 27015 | 38379 |
| 30° | 703462 | 9514  | 10141 |
| 35° | 723614 | 5692  | 4758  |
| 40° | 683240 | 2399  | 1691  |
| 45° | 614071 | 1378  | 454   |
| 50° | 345597 | 844   | 0     |
| 55° | 85782  | 559   | 0     |
| 60° | 13223  | 641   | 0     |
| 65° | 3065   | 759   | 0     |
| 70° | 649    | 938   | 0     |
| 75° | 0      | 1239  | 0     |
| 80° | 0      | 2486  | 0     |
| 85° | 0      | 4953  | 1274  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.6   | 1.7       |
| 10°-20°   | 220.3  | 12.3      |
| 20°-30°   | 508.9  | 28.3      |
| 30°-40°   | 570.8  | 31.8      |
| 40°-50°   | 398.3  | 22.2      |
| 50°-60°   | 59.4   | 3.3       |
| 60°-70°   | 3.9    | 0.2       |
| 70°-80°   | 1.9    | 0.1       |
| 80°-90°   | 1.9    | 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°    | 758.9  | 42.3      |
| 0°-40°    | 1329.7 | 74.1      |
| 0°-60°    | 1787.4 | 99.6      |
| 0°-90°    | 1795.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1795.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 148  | 148  | 148 | 148  | 148  |      |
| 5°  | 592  | 346  | 139 | 81   | 65   | 98   |
| 15° | 3140 | 1336 | 90  | 34   | 28   | 897  |
| 25° | 4647 | 1727 | 198 | 277  | 282  | 2124 |
| 35° | 4806 | 898  | 38  | 32   | 32   | 2956 |
| 45° | 3520 | 135  | 8   | 4    | 3    | 2583 |
| 55° | 399  | 18   | 3   | 2    | 0    | 524  |
| 65° | 10   | 3    | 3   | 2    | 0    | 16   |
| 75° | 0    | 2    | 3   | 3    | 0    | 0    |
| 85° | 0    | 2    | 4   | 3    | 1    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  |
| 2.5°  | 268.8  | 266.2  | 259.2  | 257.4  | 263.6  | 258.3  | 260.9  | 266.2  | 260.9  | 254.8  | 260.9  |
| 5°    | 592.1  | 607.1  | 592.1  | 589.5  | 600.0  | 590.4  | 594.8  | 604.4  | 591.3  | 579.0  | 587.7  |
| 7.5°  | 1143.0 | 1152.6 | 1110.5 | 1125.4 | 1121.9 | 1124.5 | 1127.2 | 1127.2 | 1119.3 | 1097.3 | 1109.6 |
| 10°   | 1887.1 | 1894.1 | 1837.9 | 1857.2 | 1831.7 | 1857.2 | 1852.8 | 1833.5 | 1837.9 | 1808.0 | 1823.8 |
| 12.5° | 2577.6 | 2600.5 | 2544.2 | 2562.7 | 2531.9 | 2560.9 | 2549.5 | 2544.2 | 2499.4 | 2499.4 | 2516.1 |
| 15°   | 3139.9 | 3191.7 | 3140.8 | 3160.1 | 3124.9 | 3165.4 | 3133.7 | 3147.8 | 3107.4 | 3057.3 | 3101.2 |
| 17.5° | 3595.0 | 3645.9 | 3598.5 | 3622.2 | 3589.7 | 3621.3 | 3584.4 | 3614.3 | 3562.5 | 3526.4 | 3556.3 |
| 20°   | 3970.1 | 4007.9 | 3951.6 | 3985.0 | 3946.4 | 3978.0 | 3937.6 | 3977.1 | 3916.5 | 3890.1 | 3907.7 |
| 22.5° | 4296.9 | 4311.8 | 4282.9 | 4339.1 | 4263.5 | 4296.9 | 4248.6 | 4289.0 | 4217.0 | 4183.6 | 4188.0 |
| 25°   | 4646.6 | 4680.0 | 4624.6 | 4645.7 | 4593.0 | 4615.8 | 4561.3 | 4599.1 | 4509.5 | 4462.1 | 4452.4 |
| 27.5° | 4840.7 | 4888.2 | 4839.0 | 4862.7 | 4809.1 | 4828.4 | 4774.0 | 4828.4 | 4737.1 | 4690.5 | 4680.0 |
| 30°   | 4939.1 | 4962.0 | 4930.3 | 4946.1 | 4885.5 | 4895.2 | 4839.0 | 4897.8 | 4806.5 | 4765.2 | 4759.9 |
| 32.5° | 4882.0 | 4927.7 | 4886.4 | 4906.6 | 4850.4 | 4860.0 | 4805.6 | 4868.8 | 4777.5 | 4739.7 | 4721.2 |
| 35°   | 4805.6 | 4852.1 | 4813.5 | 4834.6 | 4782.7 | 4789.8 | 4731.8 | 4787.1 | 4681.7 | 4635.1 | 4595.6 |
| 37.5° | 4593.9 | 4637.8 | 4605.3 | 4612.3 | 4562.2 | 4557.0 | 4494.6 | 4541.1 | 4438.4 | 4398.8 | 4372.5 |
| 40°   | 4243.3 | 4282.9 | 4256.5 | 4271.4 | 4221.4 | 4209.9 | 4167.8 | 4210.8 | 4130.9 | 4101.9 | 4065.0 |
| 42.5° | 3907.7 | 3940.2 | 3915.6 | 3939.3 | 3883.1 | 3868.2 | 3830.4 | 3884.9 | 3794.4 | 3770.7 | 3744.3 |
| 45°   | 3520.3 | 3540.5 | 3521.2 | 3541.4 | 3487.8 | 3464.1 | 3429.8 | 3476.4 | 3387.6 | 3365.7 | 3308.6 |
| 47.5° | 3008.1 | 2986.1 | 2982.6 | 3002.0 | 2935.2 | 2886.0 | 2854.4 | 2914.1 | 2785.8 | 2742.8 | 2676.9 |
| 50°   | 1801.0 | 1837.9 | 1853.7 | 1840.5 | 1794.8 | 1727.2 | 1676.2 | 1749.2 | 1680.6 | 1575.2 | 1469.8 |
| 52.5° | 927.7  | 886.4  | 895.2  | 899.6  | 845.1  | 824.9  | 808.3  | 824.9  | 771.4  | 744.1  | 677.3  |
| 55°   | 398.9  | 379.5  | 386.6  | 389.2  | 378.6  | 354.0  | 345.3  | 355.8  | 331.2  | 320.7  | 293.4  |
| 57.5° | 147.6  | 147.6  | 143.2  | 145.0  | 141.4  | 132.7  | 130.9  | 135.3  | 127.4  | 124.8  | 114.2  |
| 60°   | 53.6   | 53.6   | 53.6   | 53.6   | 49.2   | 48.3   | 48.3   | 50.1   | 47.4   | 46.6   | 43.0   |
| 62.5° | 22.8   | 23.7   | 22.0   | 22.8   | 22.0   | 21.1   | 22.0   | 21.1   | 21.1   | 20.2   | 20.2   |
| 65°   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 9.7    | 9.7    |
| 67.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 4.4    | 4.4    | 4.4    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 11°    | 12°    | 13°    | 14°    | 15°    | 17.5°  | 20°    | 22.5°  | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6  | 147.6 | 147.6 |
| 2.5°  | 253.0  | 252.1  | 255.7  | 252.1  | 246.0  | 242.5  | 246.9  | 238.1  | 203.8  | 169.6 | 144.1 |
| 5°    | 571.9  | 567.5  | 561.4  | 563.1  | 548.2  | 535.9  | 535.9  | 512.2  | 346.1  | 196.8 | 138.8 |
| 7.5°  | 1084.1 | 1073.6 | 1028.8 | 1061.3 | 1029.6 | 1005.0 | 988.4  | 940.0  | 559.6  | 225.8 | 128.3 |
| 10°   | 1790.5 | 1772.0 | 1740.4 | 1746.5 | 1694.7 | 1653.4 | 1603.3 | 1522.5 | 804.7  | 251.3 | 115.1 |
| 12.5° | 2487.1 | 2468.7 | 2384.3 | 2432.7 | 2363.3 | 2322.8 | 2238.5 | 2143.6 | 1069.2 | 263.6 | 102.8 |
| 15°   | 3078.4 | 3062.6 | 2970.3 | 3016.0 | 2930.8 | 2893.0 | 2784.1 | 2678.6 | 1336.3 | 259.2 | 89.6  |
| 17.5° | 3537.9 | 3535.2 | 3428.9 | 3474.6 | 3380.6 | 3349.8 | 3222.5 | 3118.8 | 1552.4 | 239.8 | 80.8  |
| 20°   | 3891.9 | 3885.8 | 3778.6 | 3824.3 | 3721.5 | 3691.6 | 3529.9 | 3421.0 | 1689.4 | 213.5 | 78.2  |
| 22.5° | 4171.3 | 4159.0 | 4043.9 | 4083.4 | 3968.3 | 3929.7 | 3751.3 | 3638.0 | 1745.6 | 196.8 | 96.6  |
| 25°   | 4422.5 | 4400.6 | 4269.7 | 4300.4 | 4173.9 | 4181.8 | 3913.9 | 3789.1 | 1727.2 | 221.4 | 198.5 |
| 27.5° | 4643.9 | 4604.4 | 4472.6 | 4481.4 | 4332.9 | 4255.6 | 4025.4 | 3887.5 | 1642.9 | 246.9 | 184.5 |
| 30°   | 4726.5 | 4687.9 | 4548.2 | 4553.4 | 4398.8 | 4289.9 | 4043.9 | 3890.1 | 1440.8 | 154.6 | 66.8  |
| 32.5° | 4680.8 | 4638.7 | 4492.8 | 4494.6 | 4335.6 | 4224.9 | 3979.8 | 3810.2 | 1172.0 | 101.9 | 51.0  |
| 35°   | 4548.2 | 4504.2 | 4359.3 | 4366.3 | 4212.6 | 4102.8 | 3862.9 | 3681.9 | 897.9  | 80.8  | 37.8  |
| 37.5° | 4324.1 | 4293.4 | 4155.5 | 4167.8 | 4036.9 | 3920.0 | 3676.7 | 3480.8 | 633.4  | 58.0  | 23.7  |
| 40°   | 4036.0 | 4012.3 | 3878.7 | 3898.1 | 3755.7 | 3647.7 | 3386.7 | 3174.1 | 394.5  | 39.5  | 14.9  |
| 42.5° | 3698.6 | 3673.2 | 3541.4 | 3556.3 | 3435.1 | 3280.4 | 3014.2 | 2773.5 | 206.5  | 28.1  | 10.5  |
| 45°   | 3277.8 | 3247.9 | 3114.4 | 3122.3 | 2979.1 | 2798.1 | 2522.3 | 2309.7 | 135.3  | 19.3  | 7.9   |
| 47.5° | 2616.3 | 2562.7 | 2388.7 | 2381.7 | 2264.9 | 1968.8 | 1577.0 | 1276.5 | 89.6   | 13.2  | 5.3   |
| 50°   | 1438.2 | 1382.8 | 1229.9 | 1213.3 | 1083.2 | 889.1  | 657.1  | 511.3  | 51.8   | 8.8   | 4.4   |
| 52.5° | 654.5  | 625.5  | 554.4  | 542.9  | 487.6  | 404.1  | 311.0  | 255.7  | 29.9   | 6.1   | 3.5   |
| 55°   | 283.8  | 273.2  | 243.4  | 241.6  | 216.1  | 187.1  | 149.4  | 126.5  | 17.6   | 4.4   | 2.6   |
| 57.5° | 111.6  | 108.1  | 101.9  | 97.5   | 87.9   | 78.2   | 65.0   | 54.5   | 11.4   | 3.5   | 2.6   |
| 60°   | 42.2   | 41.3   | 37.8   | 38.7   | 35.1   | 33.4   | 29.0   | 24.6   | 7.0    | 2.6   | 2.6   |
| 62.5° | 19.3   | 19.3   | 18.4   | 18.4   | 17.6   | 15.8   | 14.1   | 13.2   | 4.4    | 2.6   | 2.6   |
| 65°   | 9.7    | 9.7    | 8.8    | 8.8    | 8.8    | 7.9    | 7.0    | 7.0    | 2.6    | 2.6   | 2.6   |
| 67.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 3.5    | 3.5    | 3.5    | 1.8    | 2.6   | 2.6   |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 2.6   | 2.6   |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 2.6   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 2.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 3.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 3.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 3.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 3.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 2.6   | 3.5   |
| 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: P170805

CATALOG NUMBER: LDA4A18827D010TE LAR35FL 4LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 147.6  | 147.6 | 147.6  | 147.6 |
| 2.5°  | 123.9  | 109.8 | 97.5   | 94.9  |
| 5°    | 101.9  | 80.8  | 67.6   | 65.0  |
| 7.5°  | 82.6   | 58.9  | 49.2   | 47.4  |
| 10°   | 67.6   | 47.4  | 38.7   | 36.9  |
| 12.5° | 56.2   | 38.7  | 30.7   | 29.0  |
| 15°   | 48.3   | 34.3  | 28.1   | 28.1  |
| 17.5° | 46.6   | 37.8  | 36.0   | 36.9  |
| 20°   | 60.6   | 68.5  | 81.7   | 82.6  |
| 22.5° | 140.6  | 228.4 | 302.2  | 316.3 |
| 25°   | 253.0  | 276.7 | 269.7  | 282.0 |
| 27.5° | 133.5  | 104.5 | 106.3  | 108.9 |
| 30°   | 58.0   | 64.1  | 67.6   | 71.2  |
| 32.5° | 48.3   | 50.1  | 51.0   | 53.6  |
| 35°   | 31.6   | 31.6  | 30.7   | 31.6  |
| 37.5° | 19.3   | 18.4  | 17.6   | 17.6  |
| 40°   | 12.3   | 11.4  | 10.5   | 10.5  |
| 42.5° | 8.8    | 7.0   | 6.1    | 6.1   |
| 45°   | 6.1    | 4.4   | 3.5    | 2.6   |
| 47.5° | 4.4    | 2.6   | 1.8    | 0.9   |
| 50°   | 3.5    | 2.6   | 0.9    | 0.0   |
| 52.5° | 2.6    | 1.8   | 0.9    | 0.0   |
| 55°   | 2.6    | 1.8   | 0.0    | 0.0   |
| 57.5° | 2.6    | 1.8   | 0.0    | 0.0   |
| 60°   | 2.6    | 1.8   | 0.0    | 0.0   |
| 62.5° | 2.6    | 1.8   | 0.0    | 0.0   |
| 65°   | 2.6    | 1.8   | 0.9    | 0.0   |
| 67.5° | 2.6    | 1.8   | 0.9    | 0.0   |
| 70°   | 2.6    | 1.8   | 0.9    | 0.0   |
| 72.5° | 2.6    | 1.8   | 0.9    | 0.0   |
| 75°   | 2.6    | 2.6   | 0.9    | 0.0   |
| 77.5° | 3.5    | 2.6   | 0.9    | 0.0   |
| 80°   | 3.5    | 2.6   | 0.9    | 0.0   |
| 82.5° | 3.5    | 2.6   | 0.9    | 0.0   |
| 85°   | 3.5    | 2.6   | 0.9    | 0.9   |
| 87.5° | 3.5    | 2.6   | 0.9    | 0.0   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |





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











(END OF REPORT)