

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: P179946

Luminaire Tested: **LDA6A55935D010TE LARH40FL 6LAL1LI 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26691)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A55935D010TE LARH40FL 6LAL1LI 30°  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 40° Flood, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4595.3 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 2.62 / 0.52 / 1.36  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

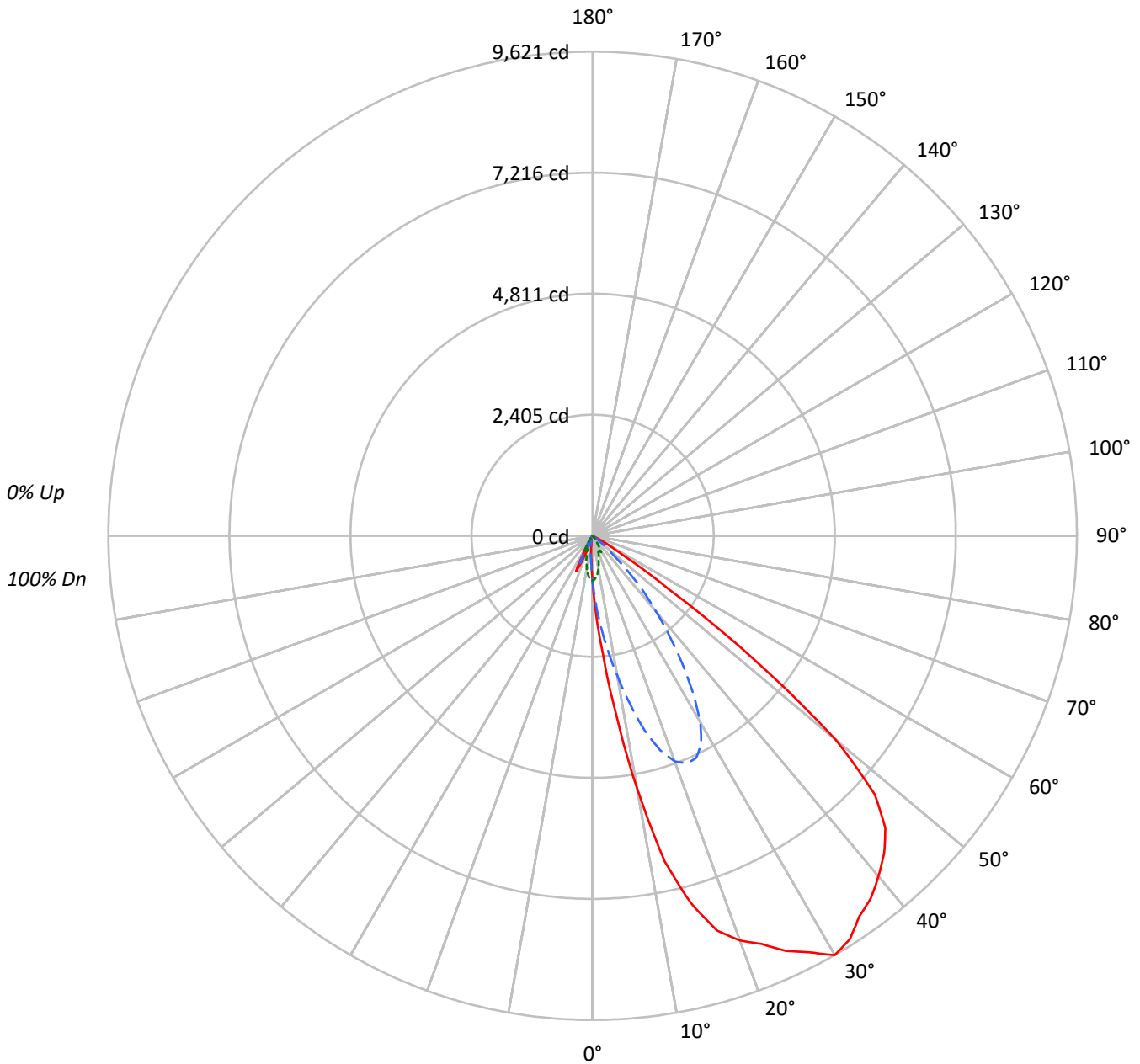
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 54  | 49  | 59  | 53  | 49  | 57  | 52  | 48  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 69  | 57  | 50  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 60  | 48  | 41  | 37  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 49075  | 49075 | 49075 |
| 5°  | 130233 | 45498 | 17406 |
| 10° | 284280 | 36790 | 5188  |
| 15° | 429106 | 26884 | 4512  |
| 20° | 499143 | 18452 | 7082  |
| 25° | 550471 | 19912 | 47168 |
| 30° | 609037 | 14990 | 14667 |
| 35° | 618081 | 7669  | 5494  |
| 40° | 632299 | 3120  | 2634  |
| 45° | 637601 | 1923  | 1589  |
| 50° | 537117 | 1313  | 1023  |
| 55° | 177408 | 898   | 573   |
| 60° | 34877  | 844   | 373   |
| 65° | 4099   | 1103  | 441   |
| 70° | 1090   | 1234  | 545   |
| 75° | 191    | 1631  | 911   |
| 80° | 0      | 2683  | 1357  |
| 85° | 0      | 5346  | 2139  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.1  | 2.6       |
| 10°-20°   | 601.6  | 13.1      |
| 20°-30°   | 1187.4 | 25.8      |
| 30°-40°   | 1339.3 | 29.1      |
| 40°-50°   | 1063.3 | 23.1      |
| 50°-60°   | 260.0  | 5.7       |
| 60°-70°   | 13.9   | 0.3       |
| 70°-80°   | 5.9    | 0.1       |
| 80°-90°   | 4.9    | 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°    | 1908.1 | 41.5      |
| 0°-40°    | 3247.4 | 70.7      |
| 0°-60°    | 4570.6 | 99.5      |
| 0°-90°    | 4595.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4595.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 895  | 895  | 895 | 895  | 895  |      |
| 5°  | 2367 | 1773 | 827 | 416  | 316  | 313  |
| 15° | 7561 | 4018 | 474 | 93   | 80   | 2121 |
| 25° | 9101 | 4871 | 329 | 596  | 780  | 4215 |
| 35° | 9236 | 3100 | 115 | 91   | 82   | 5808 |
| 45° | 8224 | 966  | 25  | 26   | 20   | 6164 |
| 55° | 1856 | 42   | 9   | 9    | 6    | 2178 |
| 65° | 32   | 8    | 8   | 7    | 3    | 77   |
| 75° | 1    | 4    | 8   | 7    | 4    | 2    |
| 85° | 0    | 4    | 8   | 6    | 3    | 0    |
| 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°    | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  |
| 2.5°  | 1553.5 | 1523.6 | 1537.3 | 1515.9 | 1455.2 | 1436.4 | 1451.8 | 1428.7 | 1359.4 | 1332.9 | 1305.6 |
| 5°    | 2366.6 | 2340.1 | 2348.7 | 2299.9 | 2186.2 | 2146.9 | 2144.3 | 2074.2 | 1934.0 | 1855.3 | 1773.3 |
| 7.5°  | 3588.4 | 3551.7 | 3541.4 | 3424.3 | 3205.4 | 3123.3 | 3083.1 | 2910.4 | 2646.2 | 2459.0 | 2275.2 |
| 10°   | 5106.9 | 5142.8 | 5106.1 | 4916.2 | 4572.5 | 4418.6 | 4321.2 | 3994.6 | 3518.3 | 3161.8 | 2818.1 |
| 12.5° | 6629.7 | 6651.9 | 6582.6 | 6346.7 | 5909.7 | 5725.1 | 5581.4 | 5163.3 | 4535.8 | 3930.4 | 3417.4 |
| 15°   | 7560.8 | 7665.9 | 7600.9 | 7435.9 | 7097.3 | 6873.3 | 6744.2 | 6227.8 | 5437.8 | 4772.6 | 4018.5 |
| 17.5° | 8224.2 | 8321.7 | 8267.8 | 8132.7 | 7750.6 | 7570.2 | 7486.4 | 7061.4 | 6201.3 | 5355.7 | 4468.2 |
| 20°   | 8556.0 | 8674.8 | 8626.1 | 8473.0 | 8192.6 | 8042.1 | 7940.4 | 7525.7 | 6750.2 | 5789.2 | 4768.3 |
| 22.5° | 8780.8 | 8912.5 | 8859.5 | 8720.1 | 8434.6 | 8259.3 | 8211.4 | 7819.0 | 7037.5 | 6049.1 | 4895.7 |
| 25°   | 9100.6 | 9210.9 | 9061.3 | 8889.4 | 8607.3 | 8422.6 | 8393.5 | 7992.5 | 7175.1 | 6147.4 | 4870.9 |
| 27.5° | 9329.7 | 9460.6 | 9206.6 | 9032.2 | 8709.9 | 8515.8 | 8478.2 | 8101.1 | 7188.0 | 6069.6 | 4670.0 |
| 30°   | 9621.3 | 9536.7 | 9313.5 | 9060.4 | 8716.7 | 8509.8 | 8461.9 | 8037.8 | 7059.7 | 5783.2 | 4276.7 |
| 32.5° | 9505.9 | 9485.4 | 9262.2 | 8964.7 | 8644.0 | 8435.4 | 8371.3 | 7842.9 | 6707.5 | 5289.0 | 3720.1 |
| 35°   | 9235.7 | 9300.7 | 9114.3 | 8929.6 | 8531.2 | 8314.0 | 8225.1 | 7555.6 | 6176.5 | 4652.9 | 3100.2 |
| 37.5° | 9077.5 | 9118.6 | 9000.6 | 8774.8 | 8379.8 | 8094.3 | 7925.8 | 7072.5 | 5481.4 | 3850.9 | 2502.6 |
| 40°   | 8835.6 | 8939.9 | 8826.1 | 8567.1 | 8111.4 | 7719.8 | 7426.5 | 6199.6 | 4565.7 | 3036.1 | 1957.1 |
| 42.5° | 8570.5 | 8663.7 | 8555.1 | 8244.7 | 7600.9 | 7076.0 | 6588.6 | 5173.6 | 3574.7 | 2319.6 | 1468.0 |
| 45°   | 8224.2 | 8308.0 | 8113.1 | 7630.0 | 6718.6 | 5994.4 | 5507.9 | 4063.0 | 2695.8 | 1704.0 | 966.1  |
| 47.5° | 7600.1 | 7577.9 | 7301.7 | 6551.0 | 5428.4 | 4779.4 | 4213.4 | 2910.4 | 1792.1 | 965.3  | 480.5  |
| 50°   | 6297.9 | 6090.2 | 5684.0 | 4812.8 | 3643.1 | 2942.0 | 2555.6 | 1502.2 | 813.1  | 467.7  | 301.8  |
| 52.5° | 4079.2 | 3847.5 | 3475.6 | 2671.0 | 1749.3 | 1403.9 | 1126.0 | 678.9  | 424.1  | 264.2  | 118.8  |
| 55°   | 1856.2 | 1692.0 | 1454.4 | 1079.0 | 750.7  | 624.1  | 528.4  | 343.7  | 227.4  | 98.3   | 41.9   |
| 57.5° | 707.1  | 652.4  | 579.7  | 462.6  | 347.1  | 300.1  | 248.8  | 165.0  | 71.0   | 36.8   | 24.8   |
| 60°   | 318.1  | 295.0  | 271.0  | 212.0  | 148.8  | 106.9  | 81.2   | 44.5   | 29.9   | 21.4   | 16.2   |
| 62.5° | 108.6  | 90.6   | 75.2   | 53.9   | 40.2   | 35.1   | 30.8   | 24.8   | 18.0   | 14.5   | 11.1   |
| 65°   | 31.6   | 30.8   | 29.1   | 25.6   | 20.5   | 18.8   | 18.0   | 14.5   | 11.1   | 9.4    | 7.7    |
| 67.5° | 15.4   | 14.5   | 13.7   | 12.8   | 10.3   | 9.4    | 9.4    | 8.5    | 6.8    | 6.0    | 5.1    |
| 70°   | 6.8    | 6.8    | 6.0    | 6.0    | 5.1    | 5.1    | 5.1    | 4.3    | 4.3    | 4.3    | 4.3    |
| 72.5° | 3.4    | 3.4    | 3.4    | 2.6    | 2.6    | 2.6    | 2.6    | 3.4    | 3.4    | 4.3    | 4.3    |
| 75°   | 0.9    | 1.7    | 1.7    | 1.7    | 1.7    | 2.6    | 2.6    | 3.4    | 3.4    | 4.3    | 4.3    |
| 77.5° | 0.9    | 0.9    | 0.9    | 1.7    | 1.7    | 1.7    | 2.6    | 3.4    | 3.4    | 4.3    | 4.3    |
| 80°   | 0.0    | 0.9    | 0.9    | 1.7    | 1.7    | 1.7    | 2.6    | 2.6    | 3.4    | 4.3    | 4.3    |
| 82.5° | 0.0    | 0.9    | 0.9    | 1.7    | 1.7    | 1.7    | 2.6    | 2.6    | 3.4    | 4.3    | 4.3    |
| 85°   | 0.0    | 0.0    | 0.9    | 0.9    | 1.7    | 1.7    | 2.6    | 2.6    | 3.4    | 4.3    | 4.3    |
| 87.5° | 0.0    | 0.0    | 0.9    | 0.9    | 1.7    | 1.7    | 2.6    | 2.6    | 3.4    | 4.3    | 4.3    |
| 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°    | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2  | 895.2 | 895.2 | 895.2 |
| 2.5°  | 1238.9 | 1220.9 | 1150.0 | 1095.3 | 1069.6 | 1067.9 | 1010.6 | 975.6  | 914.0 | 866.1 | 820.8 |
| 5°    | 1628.8 | 1549.3 | 1405.6 | 1291.9 | 1237.2 | 1209.0 | 1096.1 | 1014.9 | 908.9 | 826.8 | 745.6 |
| 7.5°  | 2025.5 | 1874.2 | 1672.4 | 1456.1 | 1367.1 | 1312.4 | 1138.0 | 1008.0 | 867.0 | 752.4 | 651.5 |
| 10°   | 2431.6 | 2164.9 | 1863.9 | 1578.3 | 1450.1 | 1357.7 | 1133.7 | 957.6  | 795.1 | 660.9 | 550.6 |
| 12.5° | 2854.8 | 2434.2 | 2015.2 | 1657.8 | 1488.6 | 1367.1 | 1095.3 | 884.1  | 707.1 | 564.3 | 459.1 |
| 15°   | 3211.4 | 2642.8 | 2111.0 | 1676.7 | 1476.6 | 1329.5 | 1013.2 | 790.9  | 613.0 | 473.7 | 377.9 |
| 17.5° | 3486.7 | 2759.9 | 2128.9 | 1630.5 | 1409.9 | 1245.7 | 907.2  | 688.3  | 513.9 | 390.7 | 295.8 |
| 20°   | 3625.2 | 2777.9 | 2072.5 | 1521.0 | 1289.3 | 1120.0 | 786.6  | 584.0  | 430.9 | 316.3 | 235.1 |
| 22.5° | 3635.5 | 2694.1 | 1949.4 | 1380.0 | 1156.8 | 985.0  | 687.4  | 503.6  | 377.9 | 283.9 | 223.2 |
| 25°   | 3502.1 | 2532.5 | 1784.4 | 1235.5 | 1020.9 | 866.1  | 616.5  | 483.1  | 380.5 | 329.2 | 302.7 |
| 27.5° | 3249.0 | 2308.5 | 1603.1 | 1091.0 | 903.7  | 784.0  | 587.4  | 483.1  | 412.1 | 371.9 | 381.3 |
| 30°   | 2898.4 | 2022.9 | 1350.9 | 894.3  | 735.3  | 631.0  | 461.7  | 361.7  | 283.9 | 236.8 | 228.3 |
| 32.5° | 2443.6 | 1655.3 | 1047.4 | 660.9  | 536.1  | 454.9  | 312.1  | 226.6  | 183.0 | 178.7 | 173.6 |
| 35°   | 2011.0 | 1307.3 | 795.1  | 488.2  | 395.0  | 321.5  | 199.2  | 133.4  | 121.4 | 114.6 | 109.4 |
| 37.5° | 1588.6 | 978.1  | 571.1  | 354.8  | 271.0  | 204.3  | 102.6  | 86.4   | 75.2  | 68.4  | 62.4  |
| 40°   | 1194.4 | 702.8  | 402.7  | 214.6  | 141.9  | 88.1   | 61.6   | 53.0   | 47.0  | 43.6  | 41.9  |
| 42.5° | 844.7  | 467.7  | 249.7  | 90.6   | 67.5   | 55.6   | 42.7   | 37.6   | 34.2  | 32.5  | 30.8  |
| 45°   | 490.8  | 290.7  | 100.9  | 53.0   | 42.7   | 38.5   | 31.6   | 28.2   | 26.5  | 24.8  | 23.9  |
| 47.5° | 306.9  | 117.1  | 52.2   | 34.2   | 29.9   | 27.4   | 23.1   | 22.2   | 20.5  | 19.7  | 19.7  |
| 50°   | 124.0  | 52.2   | 32.5   | 23.9   | 21.4   | 20.5   | 18.0   | 17.1   | 15.4  | 15.4  | 15.4  |
| 52.5° | 47.0   | 30.8   | 22.2   | 17.1   | 15.4   | 14.5   | 12.8   | 12.8   | 12.0  | 12.0  | 12.0  |
| 55°   | 27.4   | 20.5   | 15.4   | 12.0   | 11.1   | 11.1   | 10.3   | 10.3   | 9.4   | 9.4   | 9.4   |
| 57.5° | 18.0   | 13.7   | 11.1   | 8.5    | 8.5    | 8.5    | 7.7    | 7.7    | 7.7   | 7.7   | 7.7   |
| 60°   | 12.0   | 9.4    | 7.7    | 6.8    | 6.8    | 6.8    | 6.8    | 7.7    | 7.7   | 7.7   | 7.7   |
| 62.5° | 8.5    | 7.7    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    | 7.7    | 7.7   | 7.7   | 8.5   |
| 65°   | 6.8    | 6.0    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 8.5   | 8.5   |
| 67.5° | 5.1    | 5.1    | 5.1    | 5.1    | 6.0    | 6.0    | 6.8    | 7.7    | 7.7   | 7.7   | 8.5   |
| 70°   | 4.3    | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7   | 7.7   | 8.5   |
| 72.5° | 4.3    | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 7.7    | 7.7   | 7.7   | 8.5   |
| 75°   | 4.3    | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 7.7    | 7.7   | 7.7   | 8.5   |
| 77.5° | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 8.5   | 8.5   |
| 80°   | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 8.5   | 8.5   |
| 82.5° | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 8.5   | 8.5   |
| 85°   | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 8.5   | 8.5   |
| 87.5° | 5.1    | 5.1    | 6.0    | 6.0    | 6.0    | 6.8    | 6.8    | 7.7    | 7.7   | 7.7   | 8.5   |
| 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: P179946

CATALOG NUMBER: LDA6A55935D010TE LARH40FL 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 895.2 | 895.2 | 895.2 | 895.2  | 895.2 | 895.2 | 895.2 | 895.2 | 895.2 | 895.2 | 895.2 |
| 2.5°  | 798.6 | 759.2 | 716.5 | 702.8  | 689.1 | 662.6 | 646.4 | 617.3 | 595.9 | 574.6 | 557.5 |
| 5°    | 691.7 | 629.3 | 577.1 | 554.9  | 533.5 | 496.8 | 471.1 | 440.3 | 415.5 | 394.2 | 374.5 |
| 7.5°  | 580.5 | 508.7 | 456.6 | 434.3  | 413.0 | 372.8 | 340.3 | 301.8 | 272.7 | 248.8 | 229.1 |
| 10°   | 477.9 | 409.5 | 353.1 | 326.6  | 301.8 | 259.9 | 229.1 | 198.4 | 173.6 | 153.0 | 135.1 |
| 12.5° | 389.0 | 315.5 | 258.2 | 238.5  | 214.6 | 180.4 | 151.3 | 118.0 | 103.5 | 97.5  | 93.2  |
| 15°   | 301.8 | 236.0 | 188.1 | 170.1  | 148.8 | 116.3 | 103.5 | 97.5  | 93.2  | 90.6  | 87.2  |
| 17.5° | 230.0 | 175.3 | 128.2 | 116.3  | 109.4 | 102.6 | 99.2  | 94.9  | 92.3  | 91.5  | 88.9  |
| 20°   | 180.4 | 132.5 | 120.6 | 117.1  | 117.1 | 115.4 | 112.9 | 112.9 | 112.0 | 114.6 | 114.6 |
| 22.5° | 185.5 | 185.5 | 195.8 | 194.9  | 208.6 | 222.3 | 232.6 | 265.9 | 284.7 | 324.9 | 352.3 |
| 25°   | 324.0 | 354.8 | 390.7 | 401.8  | 428.4 | 467.7 | 508.7 | 560.0 | 595.9 | 634.4 | 649.8 |
| 27.5° | 404.4 | 409.5 | 404.4 | 417.2  | 400.1 | 389.9 | 393.3 | 399.3 | 399.3 | 401.8 | 412.1 |
| 30°   | 239.4 | 251.4 | 262.5 | 271.0  | 266.8 | 262.5 | 260.8 | 247.9 | 247.9 | 242.8 | 238.5 |
| 32.5° | 162.4 | 160.7 | 159.0 | 162.4  | 159.0 | 159.0 | 156.5 | 157.3 | 152.2 | 148.8 | 147.1 |
| 35°   | 111.1 | 106.0 | 100.0 | 100.9  | 97.5  | 96.6  | 94.0  | 94.0  | 90.6  | 88.9  | 88.1  |
| 37.5° | 61.6  | 61.6  | 59.0  | 59.8   | 59.0  | 59.0  | 59.0  | 59.8  | 59.0  | 59.0  | 59.8  |
| 40°   | 41.9  | 41.9  | 41.0  | 41.9   | 41.0  | 41.9  | 42.7  | 42.7  | 42.7  | 42.7  | 41.9  |
| 42.5° | 31.6  | 31.6  | 30.8  | 31.6   | 30.8  | 31.6  | 32.5  | 32.5  | 32.5  | 32.5  | 32.5  |
| 45°   | 24.8  | 24.8  | 24.8  | 24.8   | 24.8  | 24.8  | 24.8  | 25.6  | 25.6  | 24.8  | 24.8  |
| 47.5° | 19.7  | 20.5  | 19.7  | 19.7   | 19.7  | 19.7  | 20.5  | 20.5  | 19.7  | 19.7  | 19.7  |
| 50°   | 16.2  | 16.2  | 15.4  | 15.4   | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  |
| 52.5° | 12.8  | 12.0  | 12.0  | 11.1   | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  | 10.3  |
| 55°   | 9.4   | 9.4   | 8.5   | 8.5    | 8.5   | 9.4   | 9.4   | 9.4   | 9.4   | 8.5   | 8.5   |
| 57.5° | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 8.5   | 8.5   | 7.7   | 7.7   | 7.7   | 6.8   |
| 60°   | 7.7   | 8.5   | 7.7   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   |
| 62.5° | 8.5   | 8.5   | 7.7   | 7.7    | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   | 6.0   |
| 65°   | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   | 6.0   |
| 67.5° | 8.5   | 8.5   | 8.5   | 8.5    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   |
| 70°   | 8.5   | 8.5   | 8.5   | 8.5    | 8.5   | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   |
| 72.5° | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   |
| 75°   | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   |
| 77.5° | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   |
| 80°   | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.8   | 6.0   |
| 82.5° | 8.5   | 8.5   | 8.5   | 7.7    | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   | 6.0   |
| 85°   | 8.5   | 8.5   | 7.7   | 7.7    | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   | 6.0   | 5.1   |
| 87.5° | 7.7   | 7.7   | 7.7   | 7.7    | 6.8   | 6.8   | 6.8   | 6.0   | 5.1   | 5.1   | 4.3   |
| 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: P179946

CATALOG NUMBER: LDA6A55935D010TE LARH40FL 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 895.2 | 895.2 | 895.2  | 895.2 | 895.2 | 895.2 | 895.2 | 895.2 |
| 2.5°  | 536.9 | 533.5 | 531.0  | 536.1 | 534.4 | 513.0 | 515.6 | 514.7 |
| 5°    | 352.3 | 344.6 | 338.6  | 341.1 | 334.3 | 324.9 | 318.1 | 316.3 |
| 7.5°  | 209.5 | 200.9 | 195.8  | 190.7 | 189.0 | 177.0 | 171.9 | 175.3 |
| 10°   | 115.4 | 103.5 | 102.6  | 100.0 | 96.6  | 94.0  | 92.3  | 93.2  |
| 12.5° | 88.9  | 88.1  | 86.4   | 85.5  | 83.8  | 82.9  | 82.1  | 81.2  |
| 15°   | 84.6  | 83.8  | 82.9   | 82.1  | 81.2  | 80.4  | 79.5  | 79.5  |
| 17.5° | 87.2  | 87.2  | 86.4   | 85.5  | 85.5  | 86.4  | 85.5  | 84.6  |
| 20°   | 113.7 | 113.7 | 115.4  | 118.0 | 118.0 | 120.6 | 124.0 | 121.4 |
| 22.5° | 369.4 | 388.2 | 411.3  | 418.1 | 458.3 | 490.8 | 550.6 | 524.1 |
| 25°   | 675.4 | 718.2 | 728.5  | 743.0 | 765.2 | 776.3 | 765.2 | 779.8 |
| 27.5° | 410.4 | 424.9 | 426.6  | 427.5 | 432.6 | 431.8 | 420.7 | 427.5 |
| 30°   | 238.5 | 243.7 | 242.0  | 241.1 | 239.4 | 230.0 | 228.3 | 231.7 |
| 32.5° | 149.6 | 147.9 | 147.1  | 146.2 | 146.2 | 141.1 | 143.6 | 141.9 |
| 35°   | 85.5  | 88.1  | 87.2   | 86.4  | 83.8  | 82.9  | 82.9  | 82.1  |
| 37.5° | 57.3  | 58.1  | 57.3   | 56.4  | 54.7  | 53.9  | 53.0  | 52.2  |
| 40°   | 41.0  | 41.9  | 41.0   | 40.2  | 39.3  | 38.5  | 37.6  | 36.8  |
| 42.5° | 30.8  | 31.6  | 30.8   | 30.8  | 29.1  | 28.2  | 27.4  | 26.5  |
| 45°   | 23.9  | 23.1  | 23.1   | 23.1  | 22.2  | 21.4  | 20.5  | 20.5  |
| 47.5° | 19.7  | 19.7  | 19.7   | 18.8  | 18.0  | 18.0  | 18.0  | 17.1  |
| 50°   | 14.5  | 15.4  | 14.5   | 14.5  | 13.7  | 12.8  | 12.8  | 12.0  |
| 52.5° | 10.3  | 10.3  | 9.4    | 9.4   | 8.5   | 7.7   | 7.7   | 7.7   |
| 55°   | 7.7   | 7.7   | 7.7    | 6.8   | 6.8   | 6.0   | 6.0   | 6.0   |
| 57.5° | 6.8   | 6.0   | 6.0    | 6.0   | 5.1   | 5.1   | 4.3   | 4.3   |
| 60°   | 6.0   | 5.1   | 5.1    | 4.3   | 4.3   | 3.4   | 3.4   | 3.4   |
| 62.5° | 5.1   | 4.3   | 4.3    | 4.3   | 3.4   | 3.4   | 3.4   | 3.4   |
| 65°   | 5.1   | 4.3   | 4.3    | 4.3   | 3.4   | 3.4   | 3.4   | 3.4   |
| 67.5° | 5.1   | 5.1   | 4.3    | 4.3   | 4.3   | 3.4   | 3.4   | 3.4   |
| 70°   | 5.1   | 5.1   | 5.1    | 4.3   | 4.3   | 4.3   | 3.4   | 3.4   |
| 72.5° | 6.0   | 5.1   | 5.1    | 5.1   | 4.3   | 4.3   | 4.3   | 4.3   |
| 75°   | 6.0   | 5.1   | 5.1    | 5.1   | 4.3   | 4.3   | 4.3   | 4.3   |
| 77.5° | 6.0   | 5.1   | 5.1    | 5.1   | 4.3   | 4.3   | 4.3   | 4.3   |
| 80°   | 5.1   | 5.1   | 5.1    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   |
| 82.5° | 5.1   | 5.1   | 5.1    | 5.1   | 4.3   | 4.3   | 4.3   | 4.3   |
| 85°   | 5.1   | 4.3   | 4.3    | 4.3   | 3.4   | 3.4   | 3.4   | 3.4   |
| 87.5° | 4.3   | 3.4   | 3.4    | 2.6   | 2.6   | 2.6   | 1.7   | 1.7   |
| 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)