

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: P179883

Luminaire Tested: **LDA6A55940D010TE LARH30NF 6LA1LI 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26687)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A55940D010TE LARH30NF 6LA1LI 30°  
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 30°  
Narrow Flood, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4808.9 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 2.58 / 0.47 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

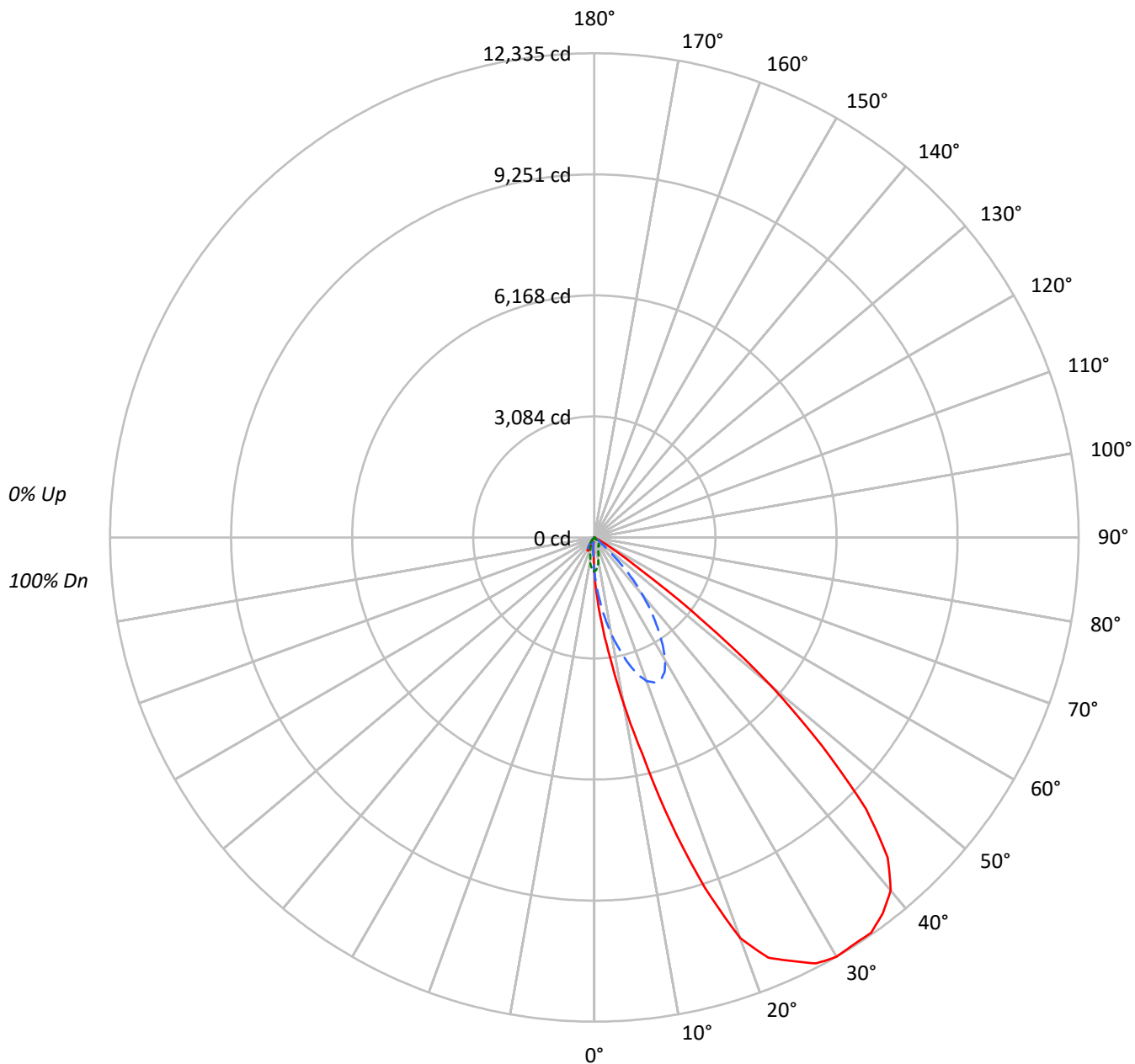
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 59  | 53  | 49  | 57  | 52  | 48  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 39  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 47551  | 47551 | 47551 |
| 5°  | 121979 | 43259 | 13471 |
| 10° | 237777 | 33244 | 6474  |
| 15° | 426836 | 22582 | 8683  |
| 20° | 633718 | 17140 | 14334 |
| 25° | 720320 | 14124 | 22477 |
| 30° | 780835 | 15445 | 21142 |
| 35° | 822478 | 10005 | 13110 |
| 40° | 840260 | 4444  | 6383  |
| 45° | 758924 | 1698  | 2372  |
| 50° | 499574 | 674   | 674   |
| 55° | 136808 | 583   | 0     |
| 60° | 27322  | 669   | 0     |
| 65° | 1933   | 908   | 0     |
| 70° | 272    | 1122  | 0     |
| 75° | 0      | 1673  | 0     |
| 80° | 0      | 2494  | 284   |
| 85° | 0      | 4969  | 566   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.3  | 2.2       |
| 10°-20°   | 564.5  | 11.7      |
| 20°-30°   | 1279.4 | 26.6      |
| 30°-40°   | 1535.8 | 31.9      |
| 40°-50°   | 1082.4 | 22.5      |
| 50°-60°   | 223.3  | 4.6       |
| 60°-70°   | 7.9    | 0.2       |
| 70°-80°   | 4.7    | 0.1       |
| 80°-90°   | 4.6    | 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°    | 1950.2 | 40.6      |
| 0°-40°    | 3486.0 | 72.5      |
| 0°-60°    | 4791.7 | 99.6      |
| 0°-90°    | 4808.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4808.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 867   | 867  | 867 | 867  | 867  |      |
| 5°  | 2217  | 1615 | 786 | 327  | 245  | 273  |
| 15° | 7521  | 3309 | 398 | 142  | 153  | 2232 |
| 25° | 11909 | 4002 | 234 | 327  | 372  | 5496 |
| 35° | 12290 | 2802 | 150 | 196  | 196  | 7640 |
| 45° | 9789  | 961  | 22  | 30   | 31   | 7200 |
| 55° | 1431  | 19   | 6   | 4    | 0    | 1886 |
| 65° | 15    | 4    | 7   | 4    | 0    | 44   |
| 75° | 0     | 4    | 8   | 5    | 0    | 0    |
| 85° | 0     | 5    | 8   | 5    | 1    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P179883

CATALOG NUMBER: LDA6A55940D010TE LARH30NF 6LA1LI 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°   | 25°     | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 867.4   | 867.4   | 867.4   | 867.4   | 867.4   | 867.4   | 867.4   | 867.4  | 867.4  | 867.4  | 867.4  |
| 2.5°  | 1478.6  | 1434.0  | 1451.5  | 1399.9  | 1388.6  | 1378.9  | 1388.6  | 1332.6 | 1301.1 | 1260.9 | 1228.6 |
| 5°    | 2216.6  | 2163.3  | 2175.5  | 2085.5  | 2044.4  | 2016.4  | 2011.1  | 1895.7 | 1809.2 | 1713.8 | 1615.0 |
| 7.5°  | 3085.8  | 3035.1  | 3028.1  | 2888.2  | 2803.4  | 2755.3  | 2735.2  | 2569.9 | 2420.4 | 2250.7 | 2065.4 |
| 10°   | 4271.5  | 4156.1  | 4120.2  | 3917.4  | 3755.6  | 3653.3  | 3527.4  | 3263.3 | 3001.0 | 2744.8 | 2508.7 |
| 12.5° | 5651.3  | 5588.4  | 5499.2  | 5141.5  | 4858.2  | 4713.1  | 4525.1  | 4112.4 | 3715.4 | 3292.2 | 2896.9 |
| 15°   | 7520.8  | 7297.0  | 7144.8  | 6628.0  | 6171.6  | 5947.8  | 5673.2  | 5041.9 | 4442.0 | 3906.0 | 3308.8 |
| 17.5° | 9347.5  | 9230.3  | 8992.5  | 8321.8  | 7618.8  | 7265.5  | 6856.3  | 5998.5 | 5151.2 | 4388.7 | 3659.4 |
| 20°   | 10862.8 | 10752.7 | 10481.6 | 9849.4  | 9069.4  | 8548.3  | 8033.2  | 6856.3 | 5749.3 | 4773.4 | 3893.8 |
| 22.5° | 11588.6 | 11518.6 | 11297.4 | 10756.2 | 10091.6 | 9595.8  | 9042.3  | 7586.4 | 6191.7 | 5025.3 | 4000.4 |
| 25°   | 11908.6 | 11876.3 | 11733.7 | 11307.0 | 10681.0 | 10260.4 | 9737.5  | 8103.2 | 6467.2 | 5142.4 | 4002.2 |
| 27.5° | 12233.0 | 12239.2 | 11924.4 | 11586.8 | 10993.1 | 10589.1 | 10085.5 | 8332.3 | 6517.0 | 5076.8 | 3871.0 |
| 30°   | 12335.3 | 12270.6 | 12131.6 | 11647.2 | 11083.2 | 10653.8 | 10113.5 | 8226.5 | 6312.4 | 4807.5 | 3609.6 |
| 32.5° | 12293.4 | 12268.0 | 12115.0 | 11602.6 | 10930.2 | 10457.1 | 9843.3  | 7806.8 | 5908.4 | 4422.8 | 3238.8 |
| 35°   | 12289.9 | 12242.7 | 11892.0 | 11452.2 | 10624.1 | 10040.0 | 9231.2  | 7128.2 | 5336.5 | 3915.6 | 2802.5 |
| 37.5° | 12067.8 | 11950.6 | 11687.4 | 11094.6 | 10003.3 | 9262.7  | 8355.9  | 6299.3 | 4637.0 | 3346.4 | 2369.7 |
| 40°   | 11741.6 | 11584.2 | 11238.0 | 10340.8 | 8927.8  | 8074.3  | 7189.4  | 5357.5 | 3896.4 | 2785.0 | 1909.7 |
| 42.5° | 11060.4 | 10822.6 | 10332.9 | 9099.1  | 7494.6  | 6725.1  | 5988.9  | 4403.5 | 3177.6 | 2269.1 | 1457.6 |
| 45°   | 9789.1  | 9463.8  | 8801.8  | 7447.4  | 6054.4  | 5426.6  | 4834.6  | 3543.1 | 2543.7 | 1683.2 | 961.0  |
| 47.5° | 7868.0  | 7566.3  | 6963.8  | 5928.5  | 4748.1  | 4217.3  | 3745.1  | 2635.5 | 1724.3 | 975.0  | 459.1  |
| 50°   | 5857.7  | 5598.9  | 5128.4  | 4120.2  | 3187.2  | 2770.1  | 2366.2  | 1497.0 | 808.0  | 463.4  | 190.6  |
| 52.5° | 3495.0  | 3366.5  | 2949.4  | 2284.8  | 1573.9  | 1356.2  | 1088.6  | 633.9  | 407.5  | 167.9  | 51.6   |
| 55°   | 1431.4  | 1321.2  | 1164.7  | 934.7   | 684.7   | 580.6   | 496.7   | 313.0  | 126.8  | 35.0   | 19.2   |
| 57.5° | 647.1   | 622.6   | 551.8   | 433.7   | 314.8   | 264.1   | 178.4   | 59.5   | 28.0   | 17.5   | 11.4   |
| 60°   | 249.2   | 224.7   | 192.4   | 104.1   | 44.6    | 37.6    | 30.6    | 20.1   | 14.0   | 9.6    | 7.0    |
| 62.5° | 35.9    | 34.1    | 30.6    | 24.5    | 19.2    | 17.5    | 14.9    | 10.5   | 7.9    | 6.1    | 5.2    |
| 65°   | 14.9    | 14.9    | 13.1    | 10.5    | 8.7     | 7.9     | 7.0     | 5.2    | 4.4    | 4.4    | 4.4    |
| 67.5° | 6.1     | 6.1     | 5.2     | 4.4     | 3.5     | 3.5     | 3.5     | 2.6    | 3.5    | 3.5    | 4.4    |
| 70°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 3.5    | 4.4    |
| 72.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 1.7     | 2.6    | 3.5    | 4.4    | 4.4    |
| 75°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 1.7     | 2.6    | 3.5    | 4.4    | 4.4    |
| 77.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 4.4    | 4.4    |
| 80°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 4.4    | 5.2    |
| 82.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 4.4    | 5.2    |
| 85°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 4.4    | 5.2    |
| 87.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.7     | 1.7     | 2.6     | 2.6    | 3.5    | 4.4    | 5.2    |
| 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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CATALOG NUMBER: LDA6A55940D010TE LARH30NF 6LA1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°   | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 867.4  | 867.4  | 867.4  | 867.4  | 867.4  | 867.4  | 867.4  | 867.4 | 867.4 | 867.4 | 867.4 |
| 2.5°  | 1200.6 | 1144.6 | 1128.9 | 1079.9 | 1038.8 | 1018.7 | 993.3  | 936.5 | 893.6 | 836.8 | 802.7 |
| 5°    | 1546.0 | 1440.2 | 1356.2 | 1253.9 | 1186.6 | 1142.9 | 1074.7 | 970.6 | 886.7 | 786.1 | 714.4 |
| 7.5°  | 1919.3 | 1726.1 | 1574.8 | 1406.1 | 1309.0 | 1232.9 | 1116.6 | 967.1 | 843.8 | 710.0 | 599.0 |
| 10°   | 2279.6 | 1991.0 | 1753.2 | 1511.0 | 1383.3 | 1277.5 | 1117.5 | 929.5 | 766.0 | 597.2 | 480.1 |
| 12.5° | 2597.0 | 2224.5 | 1889.6 | 1578.3 | 1420.0 | 1288.0 | 1087.8 | 862.2 | 664.6 | 491.4 | 388.2 |
| 15°   | 2862.0 | 2405.5 | 1985.8 | 1603.7 | 1422.7 | 1265.3 | 1025.7 | 766.0 | 551.8 | 397.9 | 325.3 |
| 17.5° | 3063.1 | 2500.8 | 2015.5 | 1573.1 | 1372.0 | 1200.6 | 930.4  | 644.4 | 447.7 | 337.5 | 273.7 |
| 20°   | 3167.1 | 2519.2 | 1972.7 | 1490.0 | 1278.4 | 1102.6 | 805.3  | 522.9 | 379.5 | 293.8 | 229.1 |
| 22.5° | 3180.2 | 2467.6 | 1870.4 | 1371.1 | 1160.3 | 983.7  | 667.2  | 436.3 | 338.4 | 259.7 | 202.0 |
| 25°   | 3102.4 | 2355.7 | 1724.3 | 1236.4 | 1030.9 | 847.3  | 543.0  | 390.9 | 307.8 | 233.5 | 232.6 |
| 27.5° | 2936.3 | 2163.3 | 1549.5 | 1079.9 | 874.4  | 689.0  | 460.8  | 353.3 | 274.6 | 247.5 | 263.2 |
| 30°   | 2701.9 | 1916.7 | 1334.4 | 882.3  | 682.9  | 529.9  | 388.2  | 291.2 | 241.3 | 244.0 | 257.1 |
| 32.5° | 2384.5 | 1610.7 | 1081.6 | 646.2  | 488.8  | 398.7  | 291.2  | 198.5 | 200.2 | 201.1 | 212.5 |
| 35°   | 1985.8 | 1291.5 | 808.0  | 434.6  | 343.6  | 280.7  | 164.4  | 146.0 | 148.7 | 149.5 | 157.4 |
| 37.5° | 1591.4 | 992.5  | 536.9  | 289.4  | 216.0  | 147.8  | 102.3  | 97.9  | 99.7  | 98.8  | 107.6 |
| 40°   | 1218.9 | 691.7  | 321.8  | 143.4  | 83.1   | 69.1   | 63.0   | 60.3  | 61.2  | 62.1  | 67.3  |
| 42.5° | 863.0  | 375.1  | 159.1  | 54.2   | 43.7   | 40.2   | 37.6   | 35.9  | 36.7  | 36.7  | 40.2  |
| 45°   | 438.1  | 177.5  | 54.2   | 29.7   | 27.1   | 24.5   | 22.7   | 21.9  | 21.9  | 21.9  | 23.6  |
| 47.5° | 189.7  | 58.6   | 25.4   | 18.4   | 16.6   | 15.7   | 14.0   | 13.1  | 13.1  | 13.1  | 14.0  |
| 50°   | 59.5   | 23.6   | 15.7   | 12.2   | 10.5   | 9.6    | 8.7    | 8.7   | 8.7   | 7.9   | 8.7   |
| 52.5° | 21.9   | 14.9   | 10.5   | 7.9    | 7.0    | 7.0    | 7.0    | 6.1   | 7.0   | 6.1   | 7.0   |
| 55°   | 13.1   | 9.6    | 7.0    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1   | 6.1   | 6.1   | 6.1   |
| 57.5° | 8.7    | 7.0    | 6.1    | 6.1    | 5.2    | 5.2    | 6.1    | 6.1   | 6.1   | 6.1   | 6.1   |
| 60°   | 6.1    | 6.1    | 5.2    | 5.2    | 5.2    | 5.2    | 6.1    | 6.1   | 6.1   | 6.1   | 6.1   |
| 62.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.1    | 6.1   | 6.1   | 6.1   | 7.0   |
| 65°   | 4.4    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.1    | 6.1   | 7.0   | 7.0   | 7.0   |
| 67.5° | 4.4    | 5.2    | 5.2    | 6.1    | 6.1    | 6.1    | 6.1    | 7.0   | 7.0   | 7.0   | 7.0   |
| 70°   | 5.2    | 5.2    | 6.1    | 6.1    | 6.1    | 6.1    | 7.0    | 7.0   | 7.0   | 7.0   | 7.9   |
| 72.5° | 5.2    | 5.2    | 6.1    | 6.1    | 6.1    | 6.1    | 7.0    | 7.0   | 7.9   | 7.9   | 7.9   |
| 75°   | 5.2    | 6.1    | 6.1    | 6.1    | 6.1    | 7.0    | 7.0    | 7.0   | 7.9   | 7.9   | 7.9   |
| 77.5° | 5.2    | 6.1    | 6.1    | 7.0    | 7.0    | 7.0    | 7.0    | 7.9   | 7.9   | 7.9   | 7.9   |
| 80°   | 5.2    | 6.1    | 6.1    | 7.0    | 7.0    | 7.0    | 7.9    | 7.9   | 7.9   | 7.9   | 8.7   |
| 82.5° | 5.2    | 6.1    | 6.1    | 7.0    | 7.0    | 7.0    | 7.9    | 7.9   | 7.9   | 7.9   | 8.7   |
| 85°   | 6.1    | 6.1    | 7.0    | 7.0    | 7.0    | 7.0    | 7.9    | 7.9   | 7.9   | 7.9   | 8.7   |
| 87.5° | 6.1    | 6.1    | 7.0    | 7.0    | 7.0    | 7.0    | 7.9    | 7.9   | 8.7   | 7.9   | 8.7   |
| 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: P179883

CATALOG NUMBER: LDA6A55940D010TE LARH30NF 6LA1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 867.4 | 867.4 | 867.4 | 867.4  | 867.4 | 867.4 | 867.4 | 867.4 | 867.4 | 867.4 | 867.4 |
| 2.5°  | 757.2 | 706.5 | 671.5 | 658.4  | 633.1 | 592.9 | 569.2 | 547.4 | 506.3 | 497.5 | 474.8 |
| 5°    | 632.2 | 550.9 | 493.2 | 471.3  | 442.5 | 408.4 | 375.1 | 353.3 | 327.0 | 316.5 | 300.8 |
| 7.5°  | 498.4 | 417.1 | 367.3 | 349.8  | 329.7 | 301.7 | 271.9 | 250.1 | 223.0 | 209.0 | 195.9 |
| 10°   | 391.7 | 331.4 | 289.4 | 271.9  | 251.0 | 221.2 | 190.6 | 161.8 | 138.2 | 123.3 | 120.7 |
| 12.5° | 318.3 | 268.4 | 223.8 | 205.5  | 181.0 | 151.3 | 129.4 | 128.5 | 126.8 | 125.9 | 127.7 |
| 15°   | 260.6 | 212.5 | 165.3 | 145.2  | 138.2 | 137.3 | 139.9 | 142.5 | 141.7 | 144.3 | 146.0 |
| 17.5° | 214.2 | 162.6 | 152.1 | 153.0  | 153.9 | 156.5 | 160.9 | 167.9 | 168.8 | 173.1 | 176.6 |
| 20°   | 174.9 | 172.3 | 176.6 | 180.1  | 182.8 | 188.0 | 197.6 | 206.4 | 209.0 | 215.1 | 222.1 |
| 22.5° | 198.5 | 206.4 | 216.0 | 220.4  | 223.8 | 233.5 | 244.0 | 258.0 | 263.2 | 271.1 | 280.7 |
| 25°   | 239.6 | 252.7 | 267.6 | 272.8  | 278.1 | 293.8 | 306.0 | 322.7 | 327.0 | 336.6 | 346.3 |
| 27.5° | 273.7 | 287.7 | 303.4 | 310.4  | 314.8 | 330.5 | 341.0 | 351.5 | 351.5 | 356.8 | 363.8 |
| 30°   | 268.4 | 279.8 | 292.9 | 298.2  | 299.9 | 311.3 | 321.8 | 325.3 | 323.5 | 326.2 | 331.4 |
| 32.5° | 223.0 | 231.7 | 242.2 | 246.6  | 248.3 | 256.2 | 264.9 | 264.9 | 264.1 | 264.1 | 267.6 |
| 35°   | 165.3 | 171.4 | 176.6 | 181.0  | 183.6 | 188.9 | 196.7 | 195.9 | 195.9 | 194.1 | 196.7 |
| 37.5° | 111.1 | 114.5 | 120.7 | 122.4  | 123.3 | 126.8 | 132.9 | 132.9 | 131.2 | 132.0 | 133.8 |
| 40°   | 67.3  | 71.7  | 75.2  | 76.1   | 77.8  | 80.4  | 84.8  | 84.8  | 84.8  | 84.8  | 85.7  |
| 42.5° | 40.2  | 42.8  | 45.5  | 45.5   | 46.3  | 49.8  | 51.6  | 51.6  | 51.6  | 51.6  | 52.5  |
| 45°   | 23.6  | 24.5  | 26.2  | 27.1   | 27.1  | 28.9  | 29.7  | 29.7  | 29.7  | 29.7  | 30.6  |
| 47.5° | 14.0  | 14.9  | 14.9  | 15.7   | 15.7  | 16.6  | 17.5  | 17.5  | 16.6  | 16.6  | 16.6  |
| 50°   | 8.7   | 8.7   | 8.7   | 8.7    | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 8.7   |
| 52.5° | 7.0   | 7.0   | 7.0   | 7.0    | 6.1   | 6.1   | 6.1   | 6.1   | 5.2   | 5.2   | 4.4   |
| 55°   | 6.1   | 6.1   | 6.1   | 6.1    | 6.1   | 5.2   | 5.2   | 5.2   | 4.4   | 3.5   | 2.6   |
| 57.5° | 6.1   | 6.1   | 6.1   | 6.1    | 6.1   | 5.2   | 5.2   | 4.4   | 3.5   | 3.5   | 2.6   |
| 60°   | 6.1   | 6.1   | 6.1   | 6.1    | 6.1   | 5.2   | 5.2   | 4.4   | 3.5   | 3.5   | 2.6   |
| 62.5° | 7.0   | 7.0   | 6.1   | 6.1    | 6.1   | 5.2   | 5.2   | 4.4   | 4.4   | 3.5   | 2.6   |
| 65°   | 7.0   | 7.0   | 6.1   | 6.1    | 6.1   | 6.1   | 5.2   | 5.2   | 4.4   | 3.5   | 2.6   |
| 67.5° | 7.0   | 7.0   | 7.0   | 7.0    | 6.1   | 6.1   | 6.1   | 5.2   | 4.4   | 3.5   | 2.6   |
| 70°   | 7.9   | 7.9   | 7.0   | 7.0    | 7.0   | 6.1   | 6.1   | 5.2   | 4.4   | 4.4   | 3.5   |
| 72.5° | 7.9   | 7.9   | 7.0   | 7.0    | 7.0   | 7.0   | 6.1   | 5.2   | 5.2   | 4.4   | 3.5   |
| 75°   | 7.9   | 7.9   | 7.9   | 7.9    | 7.0   | 7.0   | 6.1   | 6.1   | 5.2   | 4.4   | 3.5   |
| 77.5° | 7.9   | 7.9   | 7.9   | 7.9    | 7.0   | 7.0   | 7.0   | 6.1   | 5.2   | 4.4   | 3.5   |
| 80°   | 7.9   | 7.9   | 7.9   | 7.9    | 7.9   | 7.0   | 7.0   | 6.1   | 5.2   | 4.4   | 3.5   |
| 82.5° | 8.7   | 8.7   | 7.9   | 7.9    | 7.9   | 7.0   | 7.0   | 6.1   | 5.2   | 4.4   | 4.4   |
| 85°   | 8.7   | 8.7   | 7.9   | 7.9    | 7.9   | 7.0   | 7.0   | 6.1   | 5.2   | 5.2   | 4.4   |
| 87.5° | 8.7   | 8.7   | 7.9   | 7.9    | 7.9   | 7.0   | 7.0   | 6.1   | 5.2   | 5.2   | 4.4   |
| 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: P179883

CATALOG NUMBER: LDA6A55940D010TE LARH30NF 6LA1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 867.4 | 867.4 | 867.4  | 867.4 | 867.4 | 867.4 | 867.4 | 867.4 |
| 2.5°  | 460.8 | 434.6 | 425.8  | 432.0 | 425.0 | 419.7 | 412.7 | 409.2 |
| 5°    | 288.6 | 269.3 | 263.2  | 264.9 | 258.8 | 253.6 | 246.6 | 244.8 |
| 7.5°  | 177.5 | 159.1 | 152.1  | 152.1 | 145.2 | 139.0 | 134.7 | 132.0 |
| 10°   | 118.9 | 115.4 | 116.3  | 117.2 | 116.3 | 117.2 | 114.5 | 116.3 |
| 12.5° | 127.7 | 125.9 | 127.7  | 128.5 | 128.5 | 130.3 | 126.8 | 129.4 |
| 15°   | 148.7 | 146.9 | 149.5  | 151.3 | 151.3 | 153.9 | 150.4 | 153.0 |
| 17.5° | 181.9 | 181.0 | 185.4  | 187.1 | 188.0 | 192.4 | 188.0 | 191.5 |
| 20°   | 230.0 | 229.1 | 235.2  | 237.8 | 237.0 | 245.7 | 239.6 | 245.7 |
| 22.5° | 292.1 | 290.3 | 299.0  | 301.7 | 302.5 | 313.9 | 308.7 | 313.0 |
| 25°   | 354.1 | 355.9 | 360.3  | 364.6 | 365.5 | 375.1 | 367.3 | 371.6 |
| 27.5° | 367.3 | 364.6 | 367.3  | 372.5 | 373.4 | 377.7 | 370.8 | 374.2 |
| 30°   | 332.3 | 327.9 | 328.8  | 334.9 | 336.6 | 338.4 | 332.3 | 334.0 |
| 32.5° | 270.2 | 263.2 | 263.2  | 269.3 | 271.1 | 273.7 | 263.2 | 267.6 |
| 35°   | 199.4 | 193.2 | 193.2  | 197.6 | 198.5 | 200.2 | 192.4 | 195.9 |
| 37.5° | 136.4 | 131.2 | 132.9  | 134.7 | 135.5 | 137.3 | 136.4 | 135.5 |
| 40°   | 87.4  | 83.9  | 86.6   | 86.6  | 87.4  | 88.3  | 88.3  | 89.2  |
| 42.5° | 53.3  | 50.7  | 52.5   | 52.5  | 53.3  | 53.3  | 53.3  | 54.2  |
| 45°   | 30.6  | 29.7  | 29.7   | 30.6  | 30.6  | 30.6  | 29.7  | 30.6  |
| 47.5° | 16.6  | 15.7  | 16.6   | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  |
| 50°   | 8.7   | 7.9   | 7.9    | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   |
| 52.5° | 4.4   | 3.5   | 3.5    | 3.5   | 2.6   | 3.5   | 2.6   | 2.6   |
| 55°   | 2.6   | 1.7   | 1.7    | 1.7   | 0.9   | 0.9   | 0.0   | 0.0   |
| 57.5° | 1.7   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1.7   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.7   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.7   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2.6   | 1.7   | 0.9    | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   |
| 70°   | 2.6   | 1.7   | 1.7    | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2.6   | 1.7   | 1.7    | 1.7   | 0.9   | 0.9   | 0.0   | 0.0   |
| 75°   | 2.6   | 1.7   | 1.7    | 1.7   | 0.9   | 0.9   | 0.0   | 0.0   |
| 77.5° | 2.6   | 2.6   | 1.7    | 1.7   | 0.9   | 0.9   | 0.9   | 0.0   |
| 80°   | 3.5   | 2.6   | 1.7    | 1.7   | 1.7   | 0.9   | 0.9   | 0.9   |
| 82.5° | 3.5   | 2.6   | 1.7    | 1.7   | 1.7   | 0.9   | 0.9   | 0.9   |
| 85°   | 3.5   | 2.6   | 2.6    | 1.7   | 1.7   | 0.9   | 0.9   | 0.9   |
| 87.5° | 3.5   | 2.6   | 2.6    | 1.7   | 1.7   | 0.9   | 0.9   | 0.9   |
| 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)