

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: P179925

Luminaire Tested: **LDA6A55830D010TE LARH30NF 6LAL1LI 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26690)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A55830D010TE LARH30NF 6LAL1LI 30°  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 30° Narrow Flood, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4923.7 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 2.55 / 0.46 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

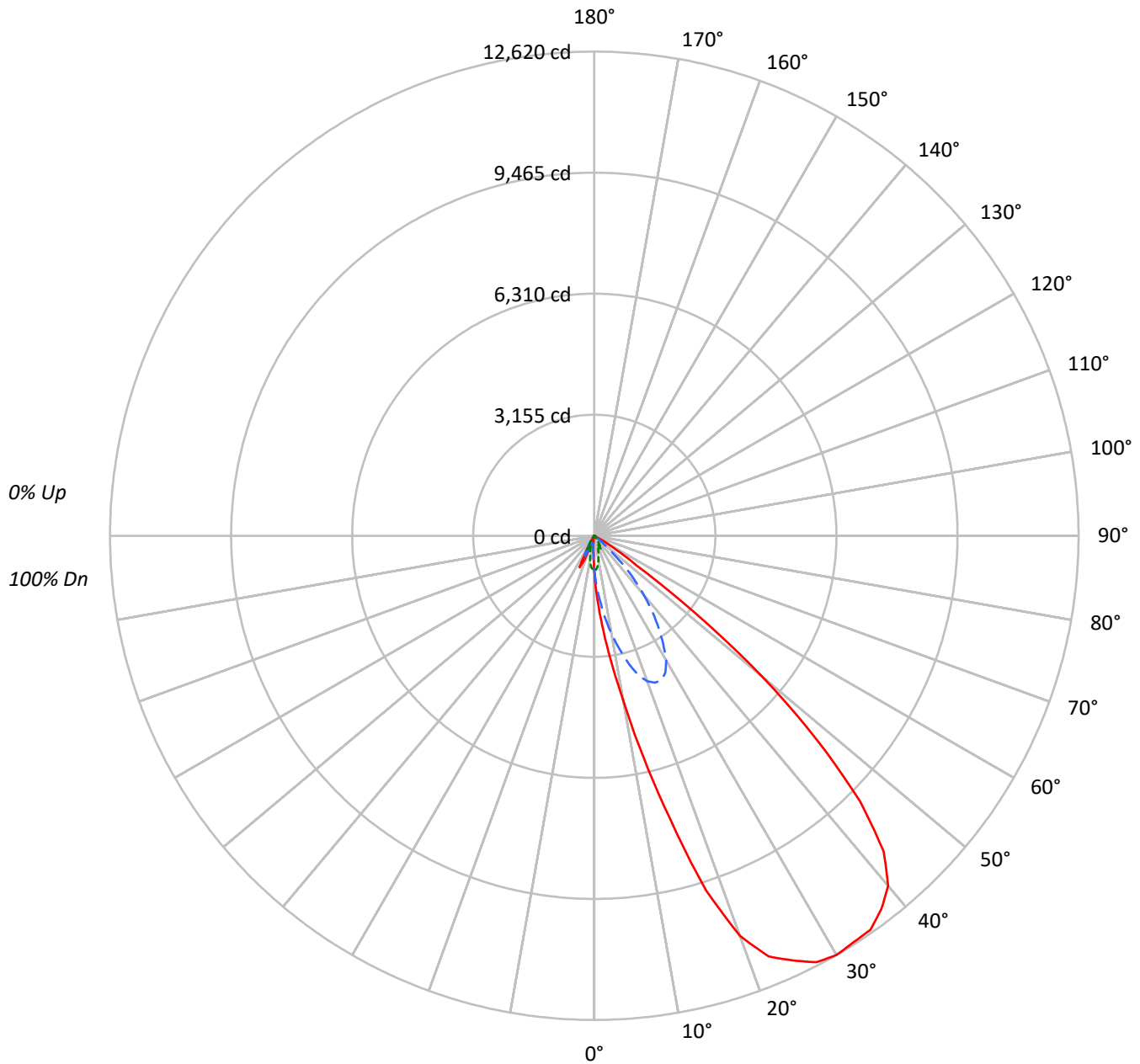
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 75  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  |  | 78  | 73  | 68  |  | 76  | 71  | 68  |  | 74  | 70  | 67  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 62  |  | 72  | 66  | 61  |  | 70  | 64  | 60  |  | 68  | 63  | 60  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  |  | 65  | 59  | 55  |  | 64  | 58  | 54  |  | 62  | 58  | 54  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  |  | 60  | 54  | 49  |  | 59  | 53  | 49  |  | 57  | 52  | 48  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  |  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  |
| 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°  | 49612  | 49612 | 49612 |
| 5°  | 128081 | 45983 | 14374 |
| 10° | 242976 | 35086 | 4826  |
| 15° | 434463 | 22809 | 4813  |
| 20° | 647370 | 15518 | 8768  |
| 25° | 738666 | 19356 | 55092 |
| 30° | 798825 | 16167 | 16471 |
| 35° | 839122 | 7870  | 5160  |
| 40° | 852397 | 2827  | 2619  |
| 45° | 759435 | 1868  | 1566  |
| 50° | 487745 | 1313  | 1066  |
| 55° | 128406 | 918   | 554   |
| 60° | 28638  | 954   | 428   |
| 65° | 2750   | 1129  | 506   |
| 70° | 930    | 1394  | 625   |
| 75° | 212    | 1843  | 1017  |
| 80° | 0      | 3031  | 1515  |
| 85° | 0      | 5472  | 2453  |



TEST NUMBER: P179925

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.9  | 2.2       |
| 10°-20°   | 573.6  | 11.6      |
| 20°-30°   | 1345.8 | 27.3      |
| 30°-40°   | 1548.0 | 31.4      |
| 40°-50°   | 1099.6 | 22.3      |
| 50°-60°   | 223.6  | 4.5       |
| 60°-70°   | 11.2   | 0.2       |
| 70°-80°   | 6.7    | 0.1       |
| 80°-90°   | 5.5    | 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°    | 2029.2 | 41.2      |
| 0°-40°    | 3577.2 | 72.7      |
| 0°-60°    | 4900.3 | 99.5      |
| 0°-90°    | 4923.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4923.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 905   | 905  | 905 | 905  | 905  |      |
| 5°  | 2328  | 1684 | 836 | 334  | 261  | 284  |
| 15° | 7655  | 3442 | 402 | 91   | 85   | 2296 |
| 25° | 12212 | 4145 | 320 | 699  | 911  | 5628 |
| 35° | 12539 | 2911 | 118 | 87   | 77   | 7789 |
| 45° | 9796  | 1035 | 24  | 26   | 20   | 7219 |
| 55° | 1344  | 27   | 10  | 10   | 6    | 1812 |
| 65° | 21    | 8    | 9   | 8    | 4    | 51   |
| 75° | 1     | 5    | 9   | 8    | 5    | 2    |
| 85° | 0     | 5    | 9   | 7    | 4    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P179925

CATALOG NUMBER: LDA6A55830D010TE LARH30NF 6LAL1LI 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°   | 25°     | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 905.0   | 905.0   | 905.0   | 905.0   | 905.0   | 905.0   | 905.0   | 905.0  | 905.0  | 905.0  | 905.0  |
| 2.5°  | 1559.4  | 1512.1  | 1489.0  | 1488.1  | 1420.6  | 1442.8  | 1420.6  | 1403.2 | 1340.6 | 1314.6 | 1271.2 |
| 5°    | 2327.5  | 2269.7  | 2223.4  | 2203.2  | 2087.5  | 2062.5  | 2050.9  | 1992.1 | 1861.0 | 1784.9 | 1683.7 |
| 7.5°  | 3233.4  | 3172.7  | 3096.6  | 3035.9  | 2868.2  | 2820.9  | 2790.1  | 2688.9 | 2495.2 | 2341.9 | 2153.1 |
| 10°   | 4364.9  | 4329.2  | 4205.9  | 4094.1  | 3839.6  | 3741.3  | 3648.8  | 3412.7 | 3159.2 | 2851.8 | 2607.9 |
| 12.5° | 5888.6  | 5804.8  | 5585.0  | 5361.4  | 4962.4  | 4815.9  | 4662.7  | 4284.9 | 3897.5 | 3415.6 | 3012.7 |
| 15°   | 7655.2  | 7583.9  | 7245.6  | 6881.3  | 6313.6  | 6072.7  | 5832.7  | 5238.1 | 4642.5 | 4021.8 | 3441.6 |
| 17.5° | 9688.7  | 9553.8  | 9217.4  | 8601.6  | 7807.5  | 7428.7  | 6981.5  | 6224.0 | 5364.3 | 4521.0 | 3800.1 |
| 20°   | 11096.8 | 11016.8 | 10732.5 | 10141.7 | 9237.7  | 8737.5  | 8182.4  | 7142.5 | 5966.7 | 4921.0 | 4035.3 |
| 22.5° | 11866.8 | 11786.8 | 11573.9 | 11052.5 | 10311.3 | 9809.2  | 9164.4  | 7885.5 | 6421.6 | 5189.9 | 4146.1 |
| 25°   | 12211.9 | 12159.8 | 12043.2 | 11618.2 | 10932.0 | 10480.0 | 9869.9  | 8399.2 | 6705.9 | 5312.3 | 4145.2 |
| 27.5° | 12530.9 | 12544.4 | 12256.2 | 11906.4 | 11274.1 | 10820.2 | 10241.9 | 8630.5 | 6761.8 | 5250.6 | 4012.2 |
| 30°   | 12619.5 | 12585.8 | 12459.6 | 11967.1 | 11378.2 | 10883.8 | 10264.1 | 8508.1 | 6544.0 | 4977.8 | 3748.1 |
| 32.5° | 12564.6 | 12565.6 | 12447.0 | 11923.7 | 11231.7 | 10678.5 | 9981.7  | 8069.6 | 6119.9 | 4549.9 | 3337.5 |
| 35°   | 12538.6 | 12529.9 | 12222.5 | 11762.8 | 10883.8 | 10233.3 | 9355.3  | 7366.1 | 5532.0 | 4003.5 | 2910.6 |
| 37.5° | 12280.3 | 12228.3 | 12006.6 | 11383.0 | 10233.3 | 9401.5  | 8456.1  | 6505.4 | 4808.2 | 3434.9 | 2473.0 |
| 40°   | 11911.2 | 11845.6 | 11485.2 | 10590.8 | 9121.1  | 8193.0  | 7253.3  | 5531.0 | 4050.7 | 2869.1 | 1985.4 |
| 42.5° | 11154.6 | 11046.7 | 10500.2 | 9313.8  | 7688.9  | 6825.4  | 6046.7  | 4555.7 | 3311.5 | 2329.4 | 1524.7 |
| 45°   | 9795.7  | 9619.3  | 8862.8  | 7623.4  | 6206.6  | 5529.1  | 4870.9  | 3651.7 | 2651.3 | 1734.8 | 1035.1 |
| 47.5° | 7865.3  | 7672.5  | 6986.3  | 5990.8  | 4859.3  | 4310.0  | 3751.0  | 2688.9 | 1793.6 | 1011.0 | 519.5  |
| 50°   | 5719.0  | 5586.0  | 4979.8  | 4140.3  | 3213.2  | 2752.5  | 2323.6  | 1499.6 | 860.6  | 488.6  | 213.0  |
| 52.5° | 3295.1  | 3199.7  | 2777.6  | 2179.1  | 1580.6  | 1323.2  | 1064.0  | 654.4  | 438.5  | 193.7  | 68.4   |
| 55°   | 1343.5  | 1288.6  | 1103.5  | 934.9   | 701.6   | 606.2   | 506.0   | 326.7  | 147.5  | 46.3   | 27.0   |
| 57.5° | 657.3   | 650.5   | 542.6   | 434.7   | 320.0   | 258.3   | 194.7   | 65.5   | 35.7   | 23.1   | 17.3   |
| 60°   | 261.2   | 251.5   | 172.5   | 100.2   | 55.9    | 45.3    | 38.6    | 27.0   | 20.2   | 15.4   | 12.5   |
| 62.5° | 45.3    | 44.3    | 37.6    | 31.8    | 26.0    | 23.1    | 21.2    | 16.4   | 13.5   | 10.6   | 9.6    |
| 65°   | 21.2    | 21.2    | 19.3    | 17.3    | 14.5    | 13.5    | 12.5    | 10.6   | 8.7    | 7.7    | 7.7    |
| 67.5° | 10.6    | 10.6    | 9.6     | 8.7     | 7.7     | 7.7     | 6.7     | 6.7    | 5.8    | 5.8    | 5.8    |
| 70°   | 5.8     | 5.8     | 5.8     | 4.8     | 4.8     | 4.8     | 4.8     | 4.8    | 3.9    | 4.8    | 4.8    |
| 72.5° | 3.9     | 3.9     | 3.9     | 2.9     | 1.9     | 2.9     | 2.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 75°   | 1.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 77.5° | 1.0     | 1.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 80°   | 0.0     | 1.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 82.5° | 0.0     | 0.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 85°   | 0.0     | 0.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 87.5° | 0.0     | 0.0     | 1.0     | 1.0     | 1.9     | 1.9     | 1.9     | 2.9    | 3.9    | 4.8    | 4.8    |
| 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: P179925

CATALOG NUMBER: LDA6A55830D010TE LARH30NF 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 905.0  | 905.0  | 905.0  | 905.0  | 905.0  | 905.0  | 905.0  | 905.0  | 905.0 | 905.0 | 905.0 |
| 2.5°  | 1251.9 | 1201.8 | 1169.0 | 1111.2 | 1087.1 | 1076.5 | 1023.5 | 972.4  | 923.3 | 887.6 | 832.7 |
| 5°    | 1606.6 | 1526.6 | 1404.2 | 1289.5 | 1239.4 | 1207.6 | 1103.5 | 1007.1 | 915.6 | 835.6 | 740.2 |
| 7.5°  | 1988.2 | 1823.4 | 1631.7 | 1447.6 | 1360.8 | 1303.0 | 1142.1 | 1001.4 | 870.3 | 748.8 | 618.7 |
| 10°   | 2354.5 | 2095.2 | 1815.7 | 1552.6 | 1435.0 | 1348.3 | 1138.2 | 958.0  | 787.4 | 630.3 | 490.6 |
| 12.5° | 2666.7 | 2331.3 | 1960.3 | 1619.1 | 1465.9 | 1355.1 | 1102.5 | 882.8  | 675.6 | 506.9 | 385.5 |
| 15°   | 2929.8 | 2512.5 | 2055.7 | 1641.3 | 1457.2 | 1326.1 | 1033.2 | 779.7  | 553.2 | 401.9 | 311.3 |
| 17.5° | 3114.9 | 2600.2 | 2077.9 | 1603.7 | 1396.5 | 1245.2 | 928.1  | 647.7  | 434.7 | 324.8 | 245.8 |
| 20°   | 3222.8 | 2611.8 | 2023.9 | 1512.1 | 1290.5 | 1130.5 | 796.1  | 508.9  | 352.7 | 266.0 | 190.8 |
| 22.5° | 3239.2 | 2554.9 | 1917.9 | 1388.8 | 1168.1 | 1013.9 | 663.1  | 426.0  | 320.9 | 248.7 | 187.0 |
| 25°   | 3160.2 | 2442.2 | 1780.1 | 1268.3 | 1057.3 | 899.2  | 573.4  | 430.8  | 360.4 | 320.0 | 332.5 |
| 27.5° | 3006.9 | 2256.2 | 1622.0 | 1145.0 | 941.6  | 781.6  | 541.6  | 451.0  | 393.2 | 400.0 | 423.1 |
| 30°   | 2771.8 | 1994.0 | 1394.6 | 935.8  | 720.9  | 595.6  | 430.8  | 324.8  | 269.9 | 255.4 | 256.4 |
| 32.5° | 2425.8 | 1665.4 | 1094.8 | 649.6  | 484.8  | 401.9  | 272.7  | 181.2  | 182.2 | 168.7 | 167.7 |
| 35°   | 2030.7 | 1340.6 | 819.2  | 435.6  | 335.4  | 279.5  | 160.9  | 127.2  | 122.4 | 117.6 | 110.8 |
| 37.5° | 1639.4 | 1036.0 | 545.5  | 297.8  | 214.0  | 155.2  | 81.0   | 66.5   | 61.7  | 57.8  | 57.8  |
| 40°   | 1248.1 | 724.8  | 337.3  | 156.1  | 86.7   | 63.6   | 48.2   | 40.5   | 39.5  | 39.5  | 38.6  |
| 42.5° | 905.9  | 427.9  | 183.1  | 61.7   | 48.2   | 42.4   | 33.7   | 29.9   | 29.9  | 29.9  | 29.9  |
| 45°   | 481.9  | 217.8  | 70.4   | 38.6   | 31.8   | 29.9   | 25.1   | 23.1   | 23.1  | 24.1  | 24.1  |
| 47.5° | 222.6  | 81.9   | 35.7   | 26.0   | 22.2   | 22.2   | 19.3   | 18.3   | 18.3  | 19.3  | 19.3  |
| 50°   | 80.0   | 33.7   | 23.1   | 18.3   | 16.4   | 17.3   | 15.4   | 14.5   | 15.4  | 15.4  | 15.4  |
| 52.5° | 30.8   | 21.2   | 16.4   | 14.5   | 12.5   | 13.5   | 11.6   | 11.6   | 12.5  | 12.5  | 12.5  |
| 55°   | 19.3   | 15.4   | 12.5   | 10.6   | 9.6    | 10.6   | 9.6    | 9.6    | 9.6   | 9.6   | 9.6   |
| 57.5° | 13.5   | 11.6   | 9.6    | 8.7    | 7.7    | 8.7    | 8.7    | 8.7    | 8.7   | 8.7   | 8.7   |
| 60°   | 10.6   | 8.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7   | 8.7   | 8.7   |
| 62.5° | 8.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.7   | 8.7   | 8.7   |
| 65°   | 7.7    | 6.7    | 7.7    | 7.7    | 6.7    | 7.7    | 7.7    | 7.7    | 8.7   | 8.7   | 9.6   |
| 67.5° | 5.8    | 5.8    | 5.8    | 6.7    | 6.7    | 6.7    | 7.7    | 7.7    | 8.7   | 8.7   | 8.7   |
| 70°   | 5.8    | 5.8    | 6.7    | 6.7    | 6.7    | 6.7    | 7.7    | 7.7    | 8.7   | 8.7   | 8.7   |
| 72.5° | 5.8    | 5.8    | 6.7    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 8.7   | 8.7   | 8.7   |
| 75°   | 5.8    | 5.8    | 6.7    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 8.7   | 8.7   | 8.7   |
| 77.5° | 5.8    | 5.8    | 6.7    | 6.7    | 6.7    | 7.7    | 7.7    | 8.7    | 8.7   | 8.7   | 8.7   |
| 80°   | 5.8    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.7    | 8.7   | 9.6   | 9.6   |
| 82.5° | 5.8    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.7    | 8.7   | 9.6   | 9.6   |
| 85°   | 5.8    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.7    | 8.7   | 8.7   | 8.7   |
| 87.5° | 5.8    | 6.7    | 6.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.7   | 8.7   | 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: P179925

CATALOG NUMBER: LDA6A55830D010TE LARH30NF 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 905.0 | 905.0 | 905.0 | 905.0  | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 |
| 2.5°  | 796.1 | 748.8 | 701.6 | 678.5  | 658.3 | 629.3 | 592.7 | 562.8 | 531.0 | 514.7 | 477.1 |
| 5°    | 665.0 | 584.0 | 515.6 | 482.8  | 457.8 | 423.1 | 385.5 | 358.5 | 334.4 | 320.9 | 296.8 |
| 7.5°  | 514.7 | 437.5 | 377.8 | 352.7  | 334.4 | 299.7 | 271.8 | 243.8 | 218.8 | 200.5 | 176.4 |
| 10°   | 398.0 | 338.3 | 289.1 | 265.0  | 244.8 | 208.2 | 174.4 | 148.4 | 121.4 | 103.1 | 95.4  |
| 12.5° | 316.1 | 260.2 | 210.1 | 186.0  | 164.8 | 127.2 | 102.2 | 97.3  | 92.5  | 90.6  | 87.7  |
| 15°   | 242.9 | 191.8 | 138.8 | 114.7  | 106.0 | 101.2 | 95.4  | 94.4  | 90.6  | 90.6  | 87.7  |
| 17.5° | 182.2 | 125.3 | 106.0 | 104.1  | 103.1 | 101.2 | 98.3  | 97.3  | 96.4  | 96.4  | 95.4  |
| 20°   | 131.1 | 121.4 | 118.5 | 120.5  | 121.4 | 123.4 | 122.4 | 122.4 | 126.3 | 134.9 | 133.0 |
| 22.5° | 184.1 | 199.5 | 215.9 | 221.7  | 242.9 | 264.1 | 283.3 | 307.4 | 364.3 | 429.8 | 445.3 |
| 25°   | 364.3 | 410.6 | 453.0 | 476.1  | 510.8 | 558.0 | 603.3 | 659.2 | 698.7 | 731.5 | 769.1 |
| 27.5° | 453.0 | 470.3 | 463.6 | 466.5  | 462.6 | 455.9 | 457.8 | 469.4 | 463.6 | 446.2 | 453.0 |
| 30°   | 267.9 | 281.4 | 273.7 | 277.6  | 267.0 | 267.0 | 264.1 | 269.9 | 266.0 | 259.3 | 257.3 |
| 32.5° | 174.4 | 182.2 | 181.2 | 181.2  | 177.3 | 175.4 | 168.7 | 166.7 | 160.0 | 147.5 | 144.6 |
| 35°   | 105.1 | 100.2 | 95.4  | 92.5   | 90.6  | 90.6  | 89.6  | 89.6  | 86.7  | 83.8  | 82.9  |
| 37.5° | 56.9  | 57.8  | 57.8  | 57.8   | 57.8  | 59.8  | 58.8  | 58.8  | 58.8  | 56.9  | 56.9  |
| 40°   | 39.5  | 41.4  | 41.4  | 41.4   | 42.4  | 42.4  | 42.4  | 43.4  | 42.4  | 42.4  | 42.4  |
| 42.5° | 30.8  | 31.8  | 30.8  | 30.8   | 31.8  | 31.8  | 31.8  | 32.8  | 32.8  | 32.8  | 31.8  |
| 45°   | 25.1  | 25.1  | 24.1  | 25.1   | 25.1  | 26.0  | 26.0  | 26.0  | 26.0  | 25.1  | 25.1  |
| 47.5° | 20.2  | 20.2  | 20.2  | 20.2   | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  |
| 50°   | 16.4  | 16.4  | 16.4  | 17.3   | 17.3  | 17.3  | 16.4  | 17.3  | 17.3  | 17.3  | 16.4  |
| 52.5° | 12.5  | 12.5  | 12.5  | 12.5   | 12.5  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 10.6  |
| 55°   | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 10.6  | 9.6   | 10.6  | 9.6   | 9.6   | 8.7   |
| 57.5° | 8.7   | 8.7   | 8.7   | 8.7    | 9.6   | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 7.7   |
| 60°   | 8.7   | 8.7   | 8.7   | 8.7    | 8.7   | 8.7   | 8.7   | 8.7   | 7.7   | 6.7   | 6.7   |
| 62.5° | 9.6   | 9.6   | 8.7   | 8.7    | 8.7   | 8.7   | 7.7   | 7.7   | 7.7   | 6.7   | 6.7   |
| 65°   | 9.6   | 9.6   | 8.7   | 9.6    | 9.6   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   | 6.7   |
| 67.5° | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 9.6   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 70°   | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 9.6   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 72.5° | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 6.7   |
| 75°   | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 77.5° | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 80°   | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 9.6   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 82.5° | 9.6   | 9.6   | 9.6   | 9.6    | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   |
| 85°   | 9.6   | 8.7   | 8.7   | 8.7    | 8.7   | 8.7   | 7.7   | 7.7   | 6.7   | 6.7   | 5.8   |
| 87.5° | 8.7   | 8.7   | 8.7   | 8.7    | 8.7   | 7.7   | 7.7   | 6.7   | 5.8   | 4.8   | 4.8   |
| 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: P179925

CATALOG NUMBER: LDA6A55830D010TE LARH30NF 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 905.0 | 905.0 | 905.0  | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 |
| 2.5°  | 477.1 | 468.4 | 464.5  | 457.8 | 452.0 | 449.1 | 438.5 | 451.0 |
| 5°    | 292.0 | 281.4 | 278.5  | 272.7 | 266.0 | 262.1 | 254.4 | 261.2 |
| 7.5°  | 166.7 | 154.2 | 148.4  | 143.6 | 136.9 | 131.1 | 124.3 | 128.2 |
| 10°   | 93.5  | 89.6  | 90.6   | 87.7  | 86.7  | 85.8  | 84.8  | 86.7  |
| 12.5° | 86.7  | 83.8  | 84.8   | 82.9  | 81.9  | 81.9  | 81.0  | 81.9  |
| 15°   | 87.7  | 84.8  | 86.7   | 84.8  | 83.8  | 83.8  | 82.9  | 84.8  |
| 17.5° | 95.4  | 93.5  | 95.4   | 93.5  | 94.4  | 93.5  | 94.4  | 95.4  |
| 20°   | 134.0 | 136.9 | 142.6  | 138.8 | 141.7 | 145.5 | 150.3 | 150.3 |
| 22.5° | 471.3 | 533.0 | 540.7  | 571.5 | 650.5 | 647.7 | 700.7 | 702.6 |
| 25°   | 823.1 | 826.9 | 861.6  | 850.0 | 851.0 | 891.5 | 887.6 | 910.8 |
| 27.5° | 473.2 | 472.2 | 479.0  | 466.5 | 470.3 | 473.2 | 462.6 | 475.1 |
| 30°   | 264.1 | 259.3 | 262.1  | 255.4 | 255.4 | 257.3 | 254.4 | 260.2 |
| 32.5° | 146.5 | 142.6 | 142.6  | 137.8 | 136.9 | 135.9 | 133.0 | 135.9 |
| 35°   | 83.8  | 81.0  | 81.9   | 80.0  | 78.1  | 77.1  | 76.1  | 77.1  |
| 37.5° | 57.8  | 55.9  | 56.9   | 54.9  | 53.0  | 52.0  | 51.1  | 52.0  |
| 40°   | 42.4  | 41.4  | 41.4   | 39.5  | 38.6  | 37.6  | 36.6  | 36.6  |
| 42.5° | 31.8  | 30.8  | 30.8   | 28.9  | 27.9  | 27.0  | 26.0  | 27.0  |
| 45°   | 24.1  | 23.1  | 23.1   | 22.2  | 21.2  | 20.2  | 20.2  | 20.2  |
| 47.5° | 21.2  | 20.2  | 21.2   | 20.2  | 19.3  | 19.3  | 19.3  | 19.3  |
| 50°   | 16.4  | 16.4  | 16.4   | 15.4  | 14.5  | 14.5  | 13.5  | 12.5  |
| 52.5° | 10.6  | 9.6   | 9.6    | 8.7   | 8.7   | 7.7   | 7.7   | 7.7   |
| 55°   | 8.7   | 7.7   | 7.7    | 6.7   | 6.7   | 5.8   | 5.8   | 5.8   |
| 57.5° | 6.7   | 6.7   | 5.8    | 5.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 60°   | 5.8   | 5.8   | 5.8    | 4.8   | 4.8   | 3.9   | 3.9   | 3.9   |
| 62.5° | 5.8   | 4.8   | 4.8    | 4.8   | 3.9   | 3.9   | 3.9   | 3.9   |
| 65°   | 5.8   | 4.8   | 4.8    | 4.8   | 3.9   | 3.9   | 3.9   | 3.9   |
| 67.5° | 5.8   | 4.8   | 4.8    | 4.8   | 3.9   | 3.9   | 3.9   | 3.9   |
| 70°   | 6.7   | 5.8   | 5.8    | 4.8   | 4.8   | 4.8   | 3.9   | 3.9   |
| 72.5° | 6.7   | 5.8   | 5.8    | 5.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 75°   | 6.7   | 5.8   | 5.8    | 5.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 77.5° | 6.7   | 5.8   | 5.8    | 5.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 80°   | 6.7   | 5.8   | 5.8    | 5.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 82.5° | 5.8   | 5.8   | 5.8    | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 85°   | 5.8   | 4.8   | 4.8    | 4.8   | 3.9   | 3.9   | 3.9   | 3.9   |
| 87.5° | 3.9   | 3.9   | 2.9    | 2.9   | 2.9   | 1.9   | 1.9   | 1.9   |
| 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)