

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: P179912

Luminaire Tested: **LDA6A55927D010TE LARH20SP 6LAL1LI 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26689)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A55927D010TE LARH20SP 6LAL1LI 30°  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3469.9 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Spacing Criteria (0/90/45): 2.34 / 0.96 / 1.3  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

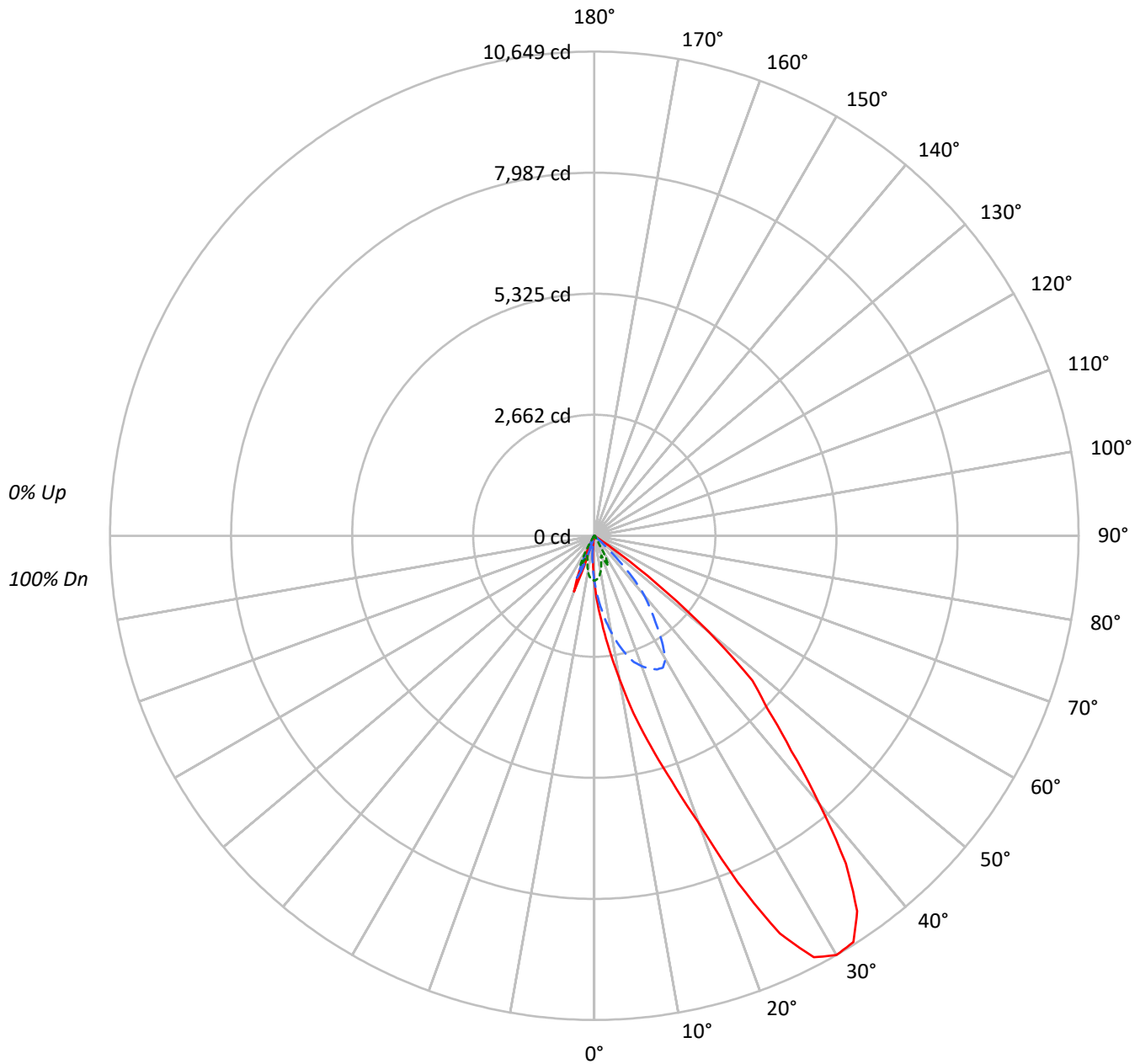
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

### Luminous Intensity Polar Plot





TEST NUMBER: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

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

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 10  |
| 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 | 104 | 110 | 107 | 104 | 102 |  | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  | 94  | 93  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 86  | 84  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  |  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 76  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  |  | 80  | 74  | 70  |  | 77  | 73  | 69  |  | 76  | 72  | 68  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  |  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 70  | 65  | 62  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  |  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  | 59  | 56  |
| 7   | 75  | 64  | 57  | 51  | 74  | 63  | 56  | 51  |  | 62  | 56  | 51  |  | 60  | 55  | 51  |  | 59  | 54  | 50  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  |  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  | 50  | 46  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  |  | 53  | 46  | 42  |  | 52  | 46  | 42  |  | 51  | 45  | 42  |
| 10  | 62  | 50  | 43  | 38  | 61  | 50  | 43  | 38  |  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 54151  | 54151 | 54151 |
| 5°  | 105871 | 51475 | 18776 |
| 10° | 178203 | 44199 | 4164  |
| 15° | 271381 | 33468 | 6839  |
| 20° | 392157 | 27110 | 76266 |
| 25° | 583624 | 43859 | 22042 |
| 30° | 674104 | 15015 | 4355  |
| 35° | 674317 | 3353  | 2356  |
| 40° | 551147 | 1875  | 1446  |
| 45° | 417353 | 1217  | 930   |
| 50° | 277168 | 827   | 640   |
| 55° | 44558  | 717   | 497   |
| 60° | 2785   | 735   | 406   |
| 65° | 869    | 973   | 480   |
| 70° | 481    | 1074  | 593   |
| 75° | 318    | 1271  | 784   |
| 80° | 221    | 1894  | 1168  |
| 85° | 440    | 3774  | 1384  |



TEST NUMBER: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.1  | 3.0       |
| 10°-20°   | 440.9  | 12.7      |
| 20°-30°   | 1037.9 | 29.9      |
| 30°-40°   | 1093.5 | 31.5      |
| 40°-50°   | 681.8  | 19.6      |
| 50°-60°   | 98.0   | 2.8       |
| 60°-70°   | 6.2    | 0.2       |
| 70°-80°   | 4.9    | 0.1       |
| 80°-90°   | 3.7    | 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°    | 1581.8 | 45.6      |
| 0°-40°    | 2675.3 | 77.1      |
| 0°-60°    | 3455.1 | 99.6      |
| 0°-90°    | 3469.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3469.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 988   | 988  | 988 | 988  | 988  |      |
| 5°  | 1924  | 1557 | 935 | 486  | 341  | 223  |
| 15° | 4782  | 2707 | 590 | 102  | 120  | 1424 |
| 25° | 9649  | 3245 | 725 | 525  | 364  | 4342 |
| 35° | 10076 | 2377 | 50  | 46   | 35   | 6078 |
| 45° | 5383  | 658  | 16  | 17   | 12   | 4213 |
| 55° | 466   | 12   | 8   | 8    | 5    | 838  |
| 65° | 7     | 5    | 8   | 6    | 4    | 10   |
| 75° | 2     | 4    | 6   | 6    | 4    | 2    |
| 85° | 1     | 4    | 6   | 4    | 2    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 987.8   | 987.8   | 987.8   | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  |
| 2.5°  | 1442.0  | 1432.3  | 1435.3  | 1412.8 | 1382.9 | 1396.3 | 1362.7 | 1363.4 | 1342.5 | 1289.3 | 1266.1 |
| 5°    | 1923.9  | 1922.4  | 1920.2  | 1879.0 | 1825.9 | 1831.9 | 1782.5 | 1763.8 | 1709.9 | 1616.3 | 1557.2 |
| 7.5°  | 2522.6  | 2523.3  | 2512.1  | 2411.8 | 2352.7 | 2348.9 | 2271.1 | 2215.0 | 2114.7 | 1967.3 | 1859.5 |
| 10°   | 3201.3  | 3222.2  | 3202.0  | 3047.9 | 2937.9 | 2939.4 | 2799.4 | 2691.7 | 2530.8 | 2316.0 | 2162.6 |
| 12.5° | 3998.2  | 4001.2  | 3969.8  | 3767.0 | 3599.4 | 3586.6 | 3398.8 | 3193.0 | 2948.3 | 2667.7 | 2444.7 |
| 15°   | 4781.7  | 4802.6  | 4762.2  | 4512.3 | 4278.8 | 4243.7 | 4004.2 | 3732.6 | 3428.8 | 3013.4 | 2706.6 |
| 17.5° | 5650.5  | 5617.6  | 5510.5  | 5152.9 | 4872.2 | 4820.6 | 4563.2 | 4207.7 | 3820.1 | 3318.0 | 2915.4 |
| 20°   | 6722.1  | 6733.3  | 6506.5  | 5972.3 | 5497.8 | 5296.5 | 4998.0 | 4608.8 | 4125.4 | 3541.7 | 3054.6 |
| 22.5° | 8253.1  | 8192.5  | 7706.1  | 6841.8 | 6128.7 | 5860.0 | 5434.2 | 4897.7 | 4353.7 | 3711.6 | 3158.6 |
| 25°   | 9648.7  | 9489.3  | 9041.1  | 7852.0 | 6735.5 | 6403.3 | 5962.5 | 5143.9 | 4543.0 | 3837.3 | 3244.7 |
| 27.5° | 10450.1 | 10379.0 | 9870.9  | 8671.4 | 7225.7 | 6758.0 | 6137.6 | 5325.0 | 4655.2 | 3899.4 | 3269.4 |
| 30°   | 10649.2 | 10661.9 | 10209.9 | 8943.0 | 7341.7 | 6807.4 | 6166.1 | 5319.7 | 4579.7 | 3788.7 | 3127.2 |
| 32.5° | 10598.3 | 10529.5 | 9964.5  | 8643.0 | 7032.6 | 6546.2 | 5887.7 | 5081.8 | 4278.8 | 3458.7 | 2773.2 |
| 35°   | 10076.0 | 9975.0  | 9279.8  | 7862.5 | 6508.0 | 6035.1 | 5438.0 | 4691.9 | 3859.0 | 3038.1 | 2376.6 |
| 37.5° | 9082.2  | 8965.5  | 8163.3  | 6925.6 | 5878.7 | 5478.4 | 4962.0 | 4257.9 | 3434.7 | 2646.0 | 2027.9 |
| 40°   | 7701.6  | 7556.4  | 6885.9  | 6027.6 | 5202.2 | 4922.4 | 4486.1 | 3762.5 | 2994.7 | 2274.9 | 1706.1 |
| 42.5° | 6410.8  | 6341.2  | 5938.6  | 5202.2 | 4646.3 | 4376.1 | 3936.1 | 3262.6 | 2556.2 | 1895.5 | 1263.1 |
| 45°   | 5383.3  | 5336.9  | 5069.8  | 4602.1 | 4037.9 | 3784.9 | 3370.4 | 2713.4 | 1944.9 | 1276.6 | 657.8  |
| 47.5° | 4712.1  | 4593.9  | 4332.7  | 3841.8 | 3214.7 | 2899.7 | 2504.6 | 1787.7 | 1097.0 | 565.7  | 202.0  |
| 50°   | 3249.9  | 3261.1  | 2966.3  | 2425.3 | 1891.7 | 1625.3 | 1342.5 | 822.4  | 362.9  | 123.5  | 35.2   |
| 52.5° | 1711.4  | 1584.9  | 1377.6  | 1028.9 | 716.1  | 546.3  | 398.8  | 164.6  | 65.9   | 24.7   | 18.7   |
| 55°   | 466.2   | 409.3   | 327.0   | 231.2  | 125.0  | 87.6   | 57.6   | 30.7   | 21.7   | 17.2   | 12.0   |
| 57.5° | 45.6    | 43.4    | 39.7    | 32.2   | 27.7   | 25.4   | 23.2   | 18.7   | 15.0   | 10.5   | 7.5    |
| 60°   | 25.4    | 24.7    | 23.2    | 20.2   | 18.0   | 16.5   | 15.0   | 12.7   | 9.0    | 6.7    | 6.0    |
| 62.5° | 14.2    | 13.5    | 12.7    | 11.2   | 9.7    | 9.0    | 9.0    | 7.5    | 6.0    | 5.2    | 5.2    |
| 65°   | 6.7     | 6.7     | 6.7     | 6.7    | 6.7    | 6.0    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 67.5° | 5.2     | 5.2     | 5.2     | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 3.7    | 4.5    |
| 70°   | 3.0     | 3.0     | 3.7     | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.7    |
| 72.5° | 1.5     | 2.2     | 2.2     | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 3.0    | 3.0    | 3.7    |
| 75°   | 1.5     | 1.5     | 1.5     | 1.5    | 2.2    | 2.2    | 2.2    | 2.2    | 3.0    | 3.0    | 3.7    |
| 77.5° | 1.5     | 1.5     | 1.5     | 1.5    | 1.5    | 1.5    | 2.2    | 2.2    | 3.0    | 3.0    | 3.7    |
| 80°   | 0.7     | 0.7     | 0.7     | 1.5    | 1.5    | 1.5    | 1.5    | 2.2    | 3.0    | 3.0    | 3.7    |
| 82.5° | 0.7     | 0.7     | 0.7     | 0.7    | 1.5    | 1.5    | 1.5    | 2.2    | 3.0    | 3.0    | 3.7    |
| 85°   | 0.7     | 0.7     | 0.7     | 0.7    | 1.5    | 1.5    | 1.5    | 2.2    | 2.2    | 3.0    | 3.7    |
| 87.5° | 0.0     | 0.0     | 0.7     | 0.7    | 1.5    | 1.5    | 1.5    | 2.2    | 2.2    | 3.0    | 3.7    |
| 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: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8 | 987.8 | 987.8 |
| 2.5°  | 1242.2 | 1205.5 | 1168.9 | 1132.2 | 1130.7 | 1109.0 | 1076.8 | 1034.2 | 999.0 | 969.1 | 939.9 |
| 5°    | 1498.1 | 1422.5 | 1347.0 | 1271.4 | 1248.9 | 1210.0 | 1140.4 | 1061.9 | 994.5 | 935.4 | 878.5 |
| 7.5°  | 1754.8 | 1627.6 | 1507.8 | 1389.6 | 1342.5 | 1283.4 | 1174.8 | 1061.1 | 963.8 | 877.0 | 792.5 |
| 10°   | 1983.8 | 1798.9 | 1630.6 | 1464.4 | 1396.3 | 1319.3 | 1173.3 | 1028.9 | 905.5 | 794.0 | 686.2 |
| 12.5° | 2194.8 | 1937.4 | 1724.1 | 1514.6 | 1421.8 | 1328.2 | 1150.2 | 978.0  | 830.6 | 697.4 | 573.2 |
| 15°   | 2380.4 | 2064.6 | 1790.0 | 1537.0 | 1423.3 | 1311.0 | 1101.5 | 907.7  | 742.3 | 589.7 | 455.0 |
| 17.5° | 2512.8 | 2128.2 | 1811.7 | 1516.8 | 1384.4 | 1258.7 | 1029.7 | 822.4  | 644.3 | 484.9 | 354.7 |
| 20°   | 2593.6 | 2154.4 | 1800.4 | 1479.4 | 1338.7 | 1208.5 | 976.5  | 775.2  | 602.4 | 464.7 | 376.4 |
| 22.5° | 2646.8 | 2179.8 | 1804.9 | 1478.7 | 1338.0 | 1215.3 | 999.0  | 810.4  | 669.7 | 595.7 | 585.2 |
| 25°   | 2703.6 | 2215.7 | 1837.8 | 1512.3 | 1381.4 | 1267.6 | 1058.1 | 874.0  | 756.5 | 725.1 | 729.6 |
| 27.5° | 2700.6 | 2200.0 | 1806.4 | 1483.1 | 1345.5 | 1230.2 | 984.8  | 752.1  | 642.0 | 553.7 | 521.6 |
| 30°   | 2539.8 | 2018.2 | 1592.4 | 1230.2 | 1067.8 | 926.4  | 603.1  | 392.1  | 270.9 | 237.2 | 203.5 |
| 32.5° | 2163.4 | 1635.1 | 1190.6 | 850.8  | 668.2  | 499.1  | 237.2  | 125.7  | 107.0 | 89.8  | 81.6  |
| 35°   | 1798.9 | 1303.6 | 890.5  | 514.1  | 324.8  | 201.3  | 85.3   | 56.1   | 53.1  | 50.1  | 50.1  |
| 37.5° | 1486.9 | 1023.7 | 575.4  | 217.0  | 119.0  | 72.6   | 41.2   | 37.4   | 35.9  | 35.2  | 35.2  |
| 40°   | 1162.9 | 667.5  | 249.2  | 71.8   | 38.2   | 32.9   | 29.2   | 27.7   | 26.9  | 26.2  | 26.9  |
| 42.5° | 686.2  | 268.6  | 72.6   | 26.9   | 25.4   | 23.9   | 21.7   | 21.0   | 21.0  | 20.2  | 21.0  |
| 45°   | 233.5  | 69.6   | 23.9   | 19.5   | 18.0   | 18.0   | 16.5   | 16.5   | 16.5  | 15.7  | 17.2  |
| 47.5° | 60.6   | 21.7   | 15.7   | 14.2   | 13.5   | 13.5   | 12.7   | 12.7   | 12.7  | 12.7  | 13.5  |
| 50°   | 21.0   | 14.2   | 11.2   | 10.5   | 9.7    | 10.5   | 9.7    | 9.7    | 9.7   | 9.7   | 10.5  |
| 52.5° | 12.7   | 9.7    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2   | 8.2   | 8.2   |
| 55°   | 8.2    | 7.5    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 7.5    | 7.5   | 7.5   | 7.5   |
| 57.5° | 6.7    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.7    | 6.0    | 6.0   | 6.7   | 7.5   |
| 60°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.7   | 6.7   | 7.5   |
| 62.5° | 5.2    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.7    | 6.7   | 6.7   | 7.5   |
| 65°   | 5.2    | 5.2    | 5.2    | 6.0    | 6.0    | 6.0    | 6.7    | 6.7    | 6.7   | 7.5   | 7.5   |
| 67.5° | 4.5    | 4.5    | 5.2    | 5.2    | 6.0    | 6.0    | 6.0    | 6.7    | 6.7   | 6.7   | 7.5   |
| 70°   | 4.5    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0    | 6.0   | 6.7   | 6.7   |
| 72.5° | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0    | 6.0   | 6.0   | 6.7   |
| 75°   | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0   | 6.0   | 6.7   |
| 77.5° | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0    | 6.0   | 6.0   | 6.7   |
| 80°   | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0    | 6.0   | 6.0   | 6.0   |
| 82.5° | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0    | 6.0   | 6.0   | 6.0   |
| 85°   | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.0   | 6.0   | 6.0   |
| 87.5° | 3.7    | 4.5    | 4.5    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2   | 5.2   | 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   |



TEST NUMBER: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°   | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|
| 0°    | 987.8 | 987.8 | 987.8 | 987.8  | 987.8 | 987.8 | 987.8 | 987.8 | 987.8  | 987.8 | 987.8 |
| 2.5°  | 899.5 | 886.7 | 841.8 | 835.9  | 828.4 | 791.7 | 776.7 | 751.3 | 715.4  | 704.9 | 692.2 |
| 5°    | 811.9 | 770.0 | 704.2 | 686.2  | 666.7 | 609.1 | 574.0 | 532.0 | 485.7  | 460.2 | 436.3 |
| 7.5°  | 700.4 | 642.0 | 554.5 | 519.3  | 497.6 | 434.8 | 378.6 | 322.5 | 254.4  | 215.5 | 190.8 |
| 10°   | 576.2 | 496.1 | 404.8 | 364.4  | 335.2 | 243.9 | 190.8 | 166.1 | 142.9  | 124.2 | 107.8 |
| 12.5° | 451.2 | 360.7 | 257.4 | 211.0  | 187.8 | 155.6 | 126.5 | 95.8  | 85.3   | 84.6  | 81.6  |
| 15°   | 330.8 | 229.7 | 173.6 | 156.4  | 139.9 | 100.3 | 99.5  | 99.5  | 102.5  | 104.8 | 105.5 |
| 17.5° | 243.9 | 202.0 | 158.6 | 148.2  | 155.6 | 161.6 | 172.1 | 187.8 | 200.5  | 236.5 | 229.0 |
| 20°   | 357.7 | 354.7 | 386.9 | 428.0  | 457.2 | 519.3 | 597.9 | 686.9 | 779.7  | 883.0 | 961.6 |
| 22.5° | 613.6 | 688.4 | 746.8 | 796.2  | 822.4 | 892.7 | 954.8 | 985.5 | 1003.5 | 994.5 | 981.8 |
| 25°   | 749.8 | 776.7 | 758.8 | 741.6  | 743.8 | 680.2 | 633.8 | 574.7 | 524.6  | 478.9 | 452.0 |
| 27.5° | 448.2 | 410.1 | 356.2 | 318.8  | 311.3 | 268.6 | 237.2 | 204.3 | 194.6  | 164.6 | 151.9 |
| 30°   | 161.6 | 150.4 | 133.2 | 119.7  | 118.2 | 107.0 | 100.3 | 92.8  | 92.0   | 85.3  | 81.6  |
| 32.5° | 73.3  | 73.3  | 67.3  | 68.8   | 67.3  | 65.1  | 64.4  | 62.1  | 62.1   | 59.9  | 58.4  |
| 35°   | 47.9  | 48.6  | 47.9  | 47.9   | 47.1  | 47.1  | 47.1  | 45.6  | 46.4   | 44.9  | 42.7  |
| 37.5° | 35.2  | 35.9  | 34.4  | 35.2   | 35.2  | 35.2  | 35.2  | 34.4  | 33.7   | 32.2  | 31.4  |
| 40°   | 26.9  | 26.9  | 26.9  | 26.9   | 26.9  | 26.9  | 26.9  | 26.2  | 26.2   | 25.4  | 23.9  |
| 42.5° | 21.0  | 21.7  | 21.7  | 21.7   | 21.7  | 21.7  | 21.7  | 21.7  | 21.7   | 21.0  | 21.0  |
| 45°   | 17.2  | 18.0  | 17.2  | 18.0   | 18.0  | 18.0  | 17.2  | 17.2  | 17.2   | 16.5  | 15.7  |
| 47.5° | 13.5  | 13.5  | 12.7  | 12.7   | 12.7  | 12.7  | 12.7  | 12.7  | 12.7   | 12.7  | 12.0  |
| 50°   | 10.5  | 10.5  | 10.5  | 10.5   | 10.5  | 10.5  | 11.2  | 10.5  | 10.5   | 10.5  | 10.5  |
| 52.5° | 8.2   | 9.0   | 9.0   | 9.7    | 9.7   | 9.7   | 9.7   | 9.7   | 9.0    | 9.0   | 8.2   |
| 55°   | 7.5   | 8.2   | 8.2   | 9.0    | 9.0   | 9.0   | 9.0   | 8.2   | 8.2    | 8.2   | 7.5   |
| 57.5° | 7.5   | 8.2   | 8.2   | 8.2    | 8.2   | 8.2   | 8.2   | 7.5   | 7.5    | 6.7   | 6.7   |
| 60°   | 7.5   | 7.5   | 7.5   | 8.2    | 8.2   | 7.5   | 7.5   | 6.7   | 6.7    | 6.0   | 6.0   |
| 62.5° | 7.5   | 7.5   | 7.5   | 8.2    | 8.2   | 7.5   | 7.5   | 6.7   | 6.0    | 6.0   | 5.2   |
| 65°   | 7.5   | 8.2   | 7.5   | 8.2    | 8.2   | 7.5   | 7.5   | 6.7   | 6.0    | 6.0   | 5.2   |
| 67.5° | 7.5   | 8.2   | 8.2   | 8.2    | 7.5   | 7.5   | 7.5   | 6.7   | 6.0    | 6.0   | 5.2   |
| 70°   | 6.7   | 7.5   | 7.5   | 7.5    | 7.5   | 7.5   | 6.7   | 6.7   | 6.0    | 6.0   | 5.2   |
| 72.5° | 6.7   | 7.5   | 6.7   | 7.5    | 7.5   | 6.7   | 6.7   | 6.7   | 6.0    | 6.0   | 5.2   |
| 75°   | 6.7   | 6.7   | 6.7   | 6.7    | 6.7   | 6.7   | 6.7   | 6.0   | 6.0    | 5.2   | 5.2   |
| 77.5° | 6.7   | 6.7   | 6.7   | 6.7    | 6.7   | 6.7   | 6.0   | 6.0   | 6.0    | 5.2   | 5.2   |
| 80°   | 6.7   | 6.7   | 6.7   | 6.7    | 6.7   | 6.7   | 6.0   | 6.0   | 5.2    | 5.2   | 4.5   |
| 82.5° | 6.0   | 6.7   | 6.7   | 6.7    | 6.7   | 6.7   | 6.0   | 6.0   | 5.2    | 5.2   | 4.5   |
| 85°   | 6.0   | 6.0   | 6.0   | 6.0    | 6.0   | 6.0   | 5.2   | 5.2   | 4.5    | 3.7   | 3.7   |
| 87.5° | 5.2   | 6.0   | 5.2   | 5.2    | 5.2   | 5.2   | 4.5   | 3.7   | 3.0    | 3.0   | 2.2   |
| 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: P179912

CATALOG NUMBER: LDA6A55927D010TE LARH20SP 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  | 987.8  |
| 2.5°  | 672.0  | 653.3  | 654.0  | 657.0  | 638.3  | 628.6  | 626.3  | 616.6  |
| 5°    | 404.1  | 382.4  | 378.6  | 375.7  | 349.5  | 339.0  | 330.8  | 341.2  |
| 7.5°  | 173.6  | 165.4  | 163.9  | 161.6  | 149.7  | 143.7  | 140.7  | 143.7  |
| 10°   | 86.1   | 80.8   | 81.6   | 82.3   | 78.6   | 76.3   | 75.6   | 74.8   |
| 12.5° | 85.3   | 84.6   | 85.3   | 85.3   | 86.1   | 84.6   | 85.3   | 85.3   |
| 15°   | 110.7  | 110.7  | 113.0  | 114.5  | 118.2  | 117.5  | 119.0  | 120.5  |
| 17.5° | 276.1  | 261.9  | 269.4  | 269.4  | 303.1  | 273.1  | 298.6  | 275.4  |
| 20°   | 1085.0 | 1135.9 | 1187.6 | 1231.0 | 1275.1 | 1288.6 | 1314.8 | 1307.3 |
| 22.5° | 962.3  | 968.3  | 960.8  | 952.6  | 950.4  | 952.6  | 912.2  | 918.2  |
| 25°   | 413.1  | 410.1  | 398.1  | 385.4  | 389.1  | 392.1  | 377.9  | 364.4  |
| 27.5° | 141.4  | 137.7  | 133.9  | 131.0  | 129.5  | 127.2  | 122.7  | 119.7  |
| 30°   | 80.1   | 77.8   | 76.3   | 75.6   | 74.1   | 72.6   | 70.3   | 68.8   |
| 32.5° | 57.6   | 56.1   | 55.4   | 54.6   | 53.1   | 51.6   | 49.4   | 48.6   |
| 35°   | 42.7   | 41.2   | 40.4   | 39.7   | 38.2   | 36.7   | 35.9   | 35.2   |
| 37.5° | 31.4   | 29.9   | 29.9   | 29.9   | 27.7   | 26.2   | 25.4   | 24.7   |
| 40°   | 23.9   | 23.2   | 23.2   | 23.2   | 21.7   | 21.0   | 20.2   | 20.2   |
| 42.5° | 21.0   | 20.2   | 20.2   | 20.2   | 18.7   | 18.0   | 18.0   | 17.2   |
| 45°   | 15.7   | 15.0   | 15.0   | 14.2   | 13.5   | 13.5   | 12.7   | 12.0   |
| 47.5° | 12.0   | 11.2   | 11.2   | 11.2   | 10.5   | 9.7    | 9.7    | 9.0    |
| 50°   | 9.7    | 9.7    | 9.0    | 9.7    | 8.2    | 8.2    | 8.2    | 7.5    |
| 52.5° | 8.2    | 8.2    | 7.5    | 7.5    | 6.7    | 6.7    | 6.7    | 6.0    |
| 55°   | 7.5    | 6.7    | 6.7    | 6.7    | 6.0    | 6.0    | 6.0    | 5.2    |
| 57.5° | 6.0    | 6.0    | 5.2    | 5.2    | 4.5    | 4.5    | 4.5    | 4.5    |
| 60°   | 5.2    | 5.2    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 62.5° | 5.2    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 65°   | 5.2    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 67.5° | 5.2    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 70°   | 5.2    | 5.2    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    |
| 72.5° | 5.2    | 5.2    | 4.5    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    |
| 75°   | 4.5    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 77.5° | 4.5    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    |
| 80°   | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 82.5° | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.0    | 3.0    | 3.0    |
| 85°   | 3.0    | 3.0    | 3.0    | 3.0    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 2.2    | 1.5    | 1.5    | 1.5    | 0.7    | 0.7    | 0.7    | 0.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By E9808895 / USPTCWHP6082093





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













(END OF REPORT)