

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: P179629

Luminaire Tested: **LDA6A45830D010TE LARH40FL 6LLWW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26669)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A45830D010TE LARH40FL 6LLWW1  
Description: PORTFOLIO 6" Lensed Wall Wash, Self-flanged, 40° Flood  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3751.8 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 2.14 / 1.07 / 1.49  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

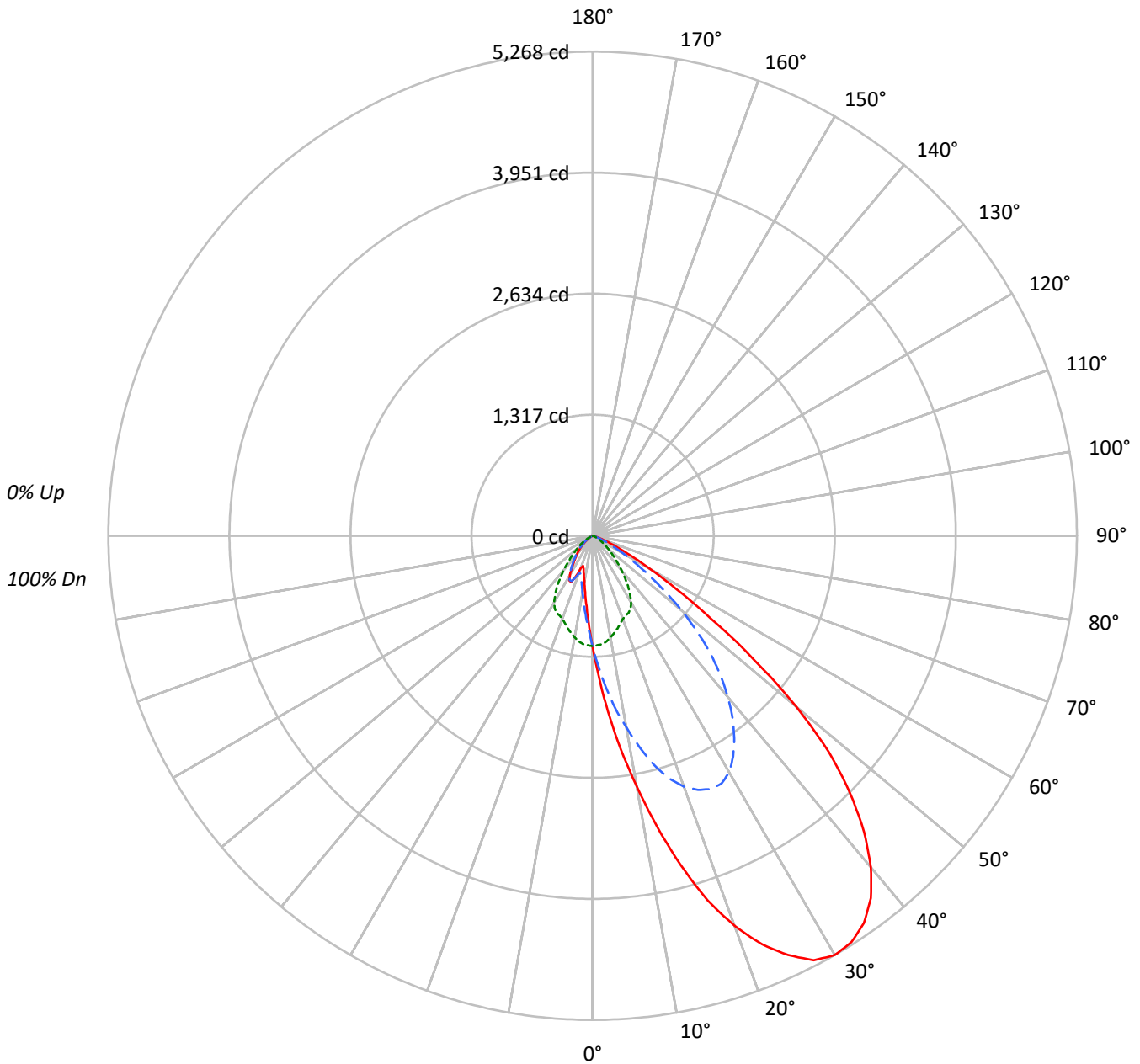
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |     | 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 | 100 | 100 | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 95  | 93  | 92  | 90  | 90  | 90  | 90  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  | 79  | 79  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  | 70  | 70  | 70  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 64  | 62  | 62  | 62  | 62  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 64  | 58  | 69  | 62  | 58  | 67  | 61  | 57  | 65  | 60  | 56  | 55  | 55  | 55  | 55  |
| 6   | 77  | 65  | 57  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 49  | 49  | 49  | 49  |
| 7   | 72  | 59  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 43  | 43  | 43  | 43  |
| 8   | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  | 39  | 39  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  | 35  | 35  | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 37  | 33  | 32  | 32  | 32  | 32  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 65872  | 65872 | 65872 |
| 5°  | 105442 | 65045 | 42175 |
| 10° | 154072 | 62468 | 28423 |
| 15° | 210654 | 59240 | 21470 |
| 20° | 263532 | 56092 | 21673 |
| 25° | 304421 | 55902 | 33613 |
| 30° | 333475 | 52920 | 31271 |
| 35° | 344353 | 44865 | 24139 |
| 40° | 337017 | 35001 | 19007 |
| 45° | 307210 | 25832 | 14591 |
| 50° | 246917 | 19061 | 9782  |
| 55° | 150351 | 13486 | 5524  |
| 60° | 78020  | 8914  | 2149  |
| 65° | 38020  | 4709  | 1012  |
| 70° | 17439  | 2036  | 946   |
| 75° | 7265   | 1461  | 1038  |
| 80° | 3725   | 1547  | 1231  |
| 85° | 2453   | 3082  | 1824  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.3  | 3.3       |
| 10°-20°   | 436.7  | 11.6      |
| 20°-30°   | 826.7  | 22.0      |
| 30°-40°   | 1001.3 | 26.7      |
| 40°-50°   | 838.0  | 22.3      |
| 50°-60°   | 406.1  | 10.8      |
| 60°-70°   | 99.6   | 2.7       |
| 70°-80°   | 16.2   | 0.4       |
| 80°-90°   | 3.9    | 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°    | 1386.7 | 37.0      |
| 0°-40°    | 2387.9 | 63.6      |
| 0°-60°    | 3632.1 | 96.8      |
| 0°-90°    | 3751.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3751.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1202 | 1202 | 1202 | 1202 | 1202 |      |
| 5°  | 1916 | 1650 | 1182 | 864  | 766  | 209  |
| 15° | 3712 | 2581 | 1044 | 477  | 378  | 1071 |
| 25° | 5033 | 3040 | 924  | 544  | 556  | 2318 |
| 35° | 5146 | 2686 | 670  | 387  | 361  | 3189 |
| 45° | 3963 | 1812 | 333  | 203  | 188  | 3007 |
| 55° | 1573 | 743  | 141  | 76   | 58   | 1474 |
| 65° | 293  | 163  | 36   | 12   | 8    | 330  |
| 75° | 34   | 18   | 7    | 6    | 5    | 46   |
| 85° | 4    | 3    | 5    | 4    | 3    | 5    |
| 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°    | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 |
| 2.5°  | 1525.0 | 1489.8 | 1497.6 | 1503.5 | 1477.0 | 1493.7 | 1465.3 | 1455.5 | 1431.9 | 1437.8 | 1420.2 |
| 5°    | 1916.1 | 1867.1 | 1852.4 | 1852.4 | 1808.3 | 1823.0 | 1797.5 | 1752.4 | 1706.4 | 1692.6 | 1650.5 |
| 7.5°  | 2336.6 | 2282.7 | 2259.1 | 2249.3 | 2184.7 | 2175.8 | 2154.3 | 2084.7 | 2009.2 | 1969.0 | 1894.5 |
| 10°   | 2767.8 | 2718.8 | 2685.5 | 2662.9 | 2573.8 | 2558.1 | 2519.8 | 2421.8 | 2326.8 | 2240.5 | 2118.0 |
| 12.5° | 3243.2 | 3177.5 | 3133.4 | 3096.2 | 2981.5 | 2957.0 | 2900.1 | 2768.8 | 2618.8 | 2514.9 | 2353.2 |
| 15°   | 3711.7 | 3645.0 | 3587.2 | 3533.3 | 3394.1 | 3358.8 | 3282.4 | 3115.8 | 2940.3 | 2785.5 | 2580.6 |
| 17.5° | 4157.6 | 4073.3 | 4002.7 | 3930.2 | 3766.5 | 3722.4 | 3622.5 | 3437.2 | 3192.2 | 3016.8 | 2769.8 |
| 20°   | 4517.3 | 4435.0 | 4353.6 | 4261.5 | 4074.3 | 4021.4 | 3899.8 | 3680.3 | 3401.9 | 3191.2 | 2903.1 |
| 22.5° | 4811.3 | 4718.2 | 4637.9 | 4517.3 | 4306.6 | 4244.8 | 4104.7 | 3855.7 | 3554.8 | 3308.8 | 2992.3 |
| 25°   | 5032.8 | 4933.8 | 4851.5 | 4716.3 | 4483.0 | 4411.5 | 4247.8 | 3978.2 | 3649.9 | 3379.4 | 3040.3 |
| 27.5° | 5207.3 | 5093.6 | 5000.5 | 4850.5 | 4593.8 | 4513.4 | 4334.0 | 4042.9 | 3688.1 | 3393.1 | 3038.3 |
| 30°   | 5268.1 | 5157.3 | 5052.4 | 4890.7 | 4614.3 | 4525.1 | 4338.9 | 4023.3 | 3653.8 | 3336.3 | 2970.7 |
| 32.5° | 5241.6 | 5126.9 | 5013.2 | 4841.7 | 4549.6 | 4453.6 | 4265.4 | 3928.3 | 3549.0 | 3214.7 | 2846.2 |
| 35°   | 5145.5 | 5028.9 | 4907.4 | 4730.0 | 4424.2 | 4320.3 | 4132.1 | 3783.2 | 3389.2 | 3055.0 | 2686.5 |
| 37.5° | 4971.1 | 4854.5 | 4739.8 | 4548.7 | 4236.0 | 4128.2 | 3943.0 | 3581.3 | 3197.1 | 2859.9 | 2501.2 |
| 40°   | 4709.4 | 4593.8 | 4487.9 | 4294.8 | 3980.2 | 3871.4 | 3696.0 | 3337.3 | 2966.8 | 2633.5 | 2288.5 |
| 42.5° | 4372.2 | 4261.5 | 4166.4 | 3977.3 | 3669.5 | 3565.6 | 3401.0 | 3054.0 | 2708.0 | 2385.6 | 2061.2 |
| 45°   | 3962.6 | 3861.6 | 3774.4 | 3596.0 | 3311.8 | 3211.8 | 3065.8 | 2737.4 | 2415.0 | 2113.1 | 1812.2 |
| 47.5° | 3490.2 | 3398.0 | 3321.6 | 3156.9 | 2893.3 | 2802.1 | 2676.7 | 2371.9 | 2083.7 | 1808.3 | 1540.7 |
| 50°   | 2895.2 | 2814.9 | 2761.9 | 2619.8 | 2384.6 | 2308.1 | 2211.1 | 1954.3 | 1718.1 | 1480.9 | 1259.4 |
| 52.5° | 2209.2 | 2146.4 | 2121.9 | 2015.1 | 1832.8 | 1779.9 | 1717.1 | 1520.1 | 1347.6 | 1160.4 | 987.9  |
| 55°   | 1573.1 | 1531.9 | 1516.2 | 1446.6 | 1327.1 | 1292.8 | 1238.9 | 1117.3 | 1002.6 | 870.3  | 742.9  |
| 57.5° | 1071.3 | 1049.7 | 1037.9 | 994.8  | 921.3  | 897.8  | 867.4  | 789.0  | 715.5  | 629.2  | 538.1  |
| 60°   | 711.6  | 702.7  | 692.9  | 666.5  | 623.3  | 605.7  | 591.0  | 539.1  | 494.0  | 440.1  | 376.4  |
| 62.5° | 461.6  | 457.7  | 450.8  | 434.2  | 417.5  | 405.8  | 390.1  | 355.8  | 329.3  | 301.9  | 253.8  |
| 65°   | 293.1  | 289.1  | 286.2  | 275.4  | 264.6  | 252.9  | 247.0  | 227.4  | 210.7  | 193.1  | 162.7  |
| 67.5° | 181.3  | 178.4  | 177.4  | 170.5  | 162.7  | 155.8  | 151.9  | 139.2  | 129.4  | 118.6  | 99.0   |
| 70°   | 108.8  | 107.8  | 105.9  | 101.9  | 97.0   | 92.1   | 90.2   | 81.3   | 75.5   | 68.6   | 55.9   |
| 72.5° | 62.7   | 61.7   | 60.8   | 57.8   | 54.9   | 52.9   | 51.0   | 48.0   | 41.2   | 37.2   | 31.4   |
| 75°   | 34.3   | 34.3   | 33.3   | 31.4   | 30.4   | 28.4   | 27.4   | 25.5   | 22.5   | 20.6   | 17.6   |
| 77.5° | 19.6   | 18.6   | 18.6   | 17.6   | 16.7   | 16.7   | 15.7   | 14.7   | 12.7   | 12.7   | 10.8   |
| 80°   | 11.8   | 11.8   | 11.8   | 10.8   | 10.8   | 10.8   | 9.8    | 9.8    | 8.8    | 7.8    | 7.8    |
| 82.5° | 7.8    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    | 5.9    | 4.9    |
| 85°   | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    | 3.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    | 2.0    | 2.9    |
| 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°    | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 |
| 2.5°  | 1374.1 | 1364.3 | 1344.7 | 1317.3 | 1307.5 | 1301.6 | 1269.2 | 1239.8 | 1219.3 | 1192.8 | 1167.3 |
| 5°    | 1574.0 | 1537.8 | 1490.7 | 1433.9 | 1411.4 | 1391.7 | 1332.0 | 1277.1 | 1232.0 | 1182.0 | 1135.0 |
| 7.5°  | 1780.9 | 1713.2 | 1633.8 | 1543.7 | 1506.4 | 1472.1 | 1381.9 | 1300.6 | 1231.0 | 1159.5 | 1091.8 |
| 10°   | 1974.9 | 1872.0 | 1757.3 | 1636.8 | 1580.9 | 1530.9 | 1411.4 | 1306.5 | 1214.3 | 1122.2 | 1038.9 |
| 12.5° | 2165.1 | 2024.9 | 1873.0 | 1718.1 | 1645.6 | 1580.9 | 1432.9 | 1304.5 | 1190.8 | 1083.0 | 987.0  |
| 15°   | 2348.3 | 2167.0 | 1979.8 | 1789.7 | 1702.4 | 1623.1 | 1447.6 | 1297.7 | 1166.3 | 1043.8 | 937.0  |
| 17.5° | 2496.3 | 2282.7 | 2056.3 | 1832.8 | 1734.8 | 1642.7 | 1445.7 | 1278.1 | 1133.0 | 999.7  | 886.0  |
| 20°   | 2600.2 | 2354.2 | 2102.3 | 1852.4 | 1745.6 | 1643.6 | 1431.0 | 1251.6 | 1098.7 | 961.5  | 846.8  |
| 22.5° | 2659.0 | 2387.5 | 2118.0 | 1852.4 | 1737.7 | 1630.9 | 1410.4 | 1227.1 | 1073.2 | 938.9  | 829.2  |
| 25°   | 2683.5 | 2393.4 | 2111.1 | 1836.7 | 1718.1 | 1608.4 | 1386.8 | 1203.6 | 1052.6 | 924.2  | 822.3  |
| 27.5° | 2663.9 | 2359.1 | 2072.9 | 1793.6 | 1672.1 | 1562.3 | 1341.8 | 1162.4 | 1016.4 | 893.9  | 796.8  |
| 30°   | 2585.5 | 2272.9 | 1987.7 | 1710.3 | 1587.8 | 1480.9 | 1267.3 | 1093.8 | 953.6  | 836.0  | 743.9  |
| 32.5° | 2458.1 | 2147.4 | 1867.1 | 1596.6 | 1475.1 | 1372.1 | 1168.3 | 1003.6 | 869.4  | 757.6  | 672.4  |
| 35°   | 2303.2 | 1998.4 | 1727.9 | 1464.3 | 1347.6 | 1249.6 | 1057.5 | 896.8  | 773.3  | 670.4  | 592.0  |
| 37.5° | 2128.8 | 1833.8 | 1566.2 | 1324.1 | 1212.4 | 1119.3 | 939.9  | 789.0  | 675.3  | 580.2  | 510.6  |
| 40°   | 1932.8 | 1654.4 | 1402.5 | 1173.2 | 1067.3 | 981.1  | 811.5  | 678.2  | 574.3  | 489.1  | 430.3  |
| 42.5° | 1726.0 | 1466.2 | 1232.0 | 1017.3 | 917.4  | 839.0  | 685.1  | 566.5  | 475.4  | 405.8  | 358.7  |
| 45°   | 1504.5 | 1264.3 | 1049.7 | 857.6  | 774.3  | 695.9  | 565.5  | 457.7  | 386.2  | 333.2  | 298.0  |
| 47.5° | 1268.3 | 1055.6 | 866.4  | 698.8  | 626.3  | 557.7  | 447.9  | 365.6  | 313.6  | 273.4  | 247.0  |
| 50°   | 1031.1 | 851.7  | 691.0  | 547.9  | 486.1  | 431.2  | 347.0  | 291.1  | 252.9  | 223.5  | 201.9  |
| 52.5° | 805.6  | 660.6  | 529.3  | 412.6  | 366.6  | 327.4  | 269.5  | 230.3  | 201.9  | 179.4  | 163.7  |
| 55°   | 604.7  | 490.1  | 387.1  | 299.9  | 272.5  | 248.0  | 209.7  | 178.4  | 158.8  | 141.1  | 129.4  |
| 57.5° | 438.1  | 349.9  | 275.4  | 220.5  | 202.9  | 186.2  | 158.8  | 137.2  | 122.5  | 108.8  | 100.0  |
| 60°   | 307.8  | 243.1  | 195.0  | 161.7  | 148.0  | 138.2  | 116.6  | 102.9  | 91.1   | 81.3   | 72.5   |
| 62.5° | 206.8  | 164.7  | 136.2  | 114.7  | 105.9  | 99.0   | 85.3   | 73.5   | 64.7   | 56.8   | 49.0   |
| 65°   | 132.3  | 110.8  | 92.1   | 77.4   | 71.5   | 66.6   | 57.8   | 48.0   | 42.1   | 36.3   | 30.4   |
| 67.5° | 81.3   | 69.6   | 57.8   | 48.0   | 44.1   | 41.2   | 35.3   | 29.4   | 25.5   | 21.6   | 18.6   |
| 70°   | 47.0   | 40.2   | 33.3   | 28.4   | 26.5   | 24.5   | 20.6   | 17.6   | 15.7   | 12.7   | 10.8   |
| 72.5° | 26.5   | 23.5   | 19.6   | 16.7   | 15.7   | 14.7   | 12.7   | 10.8   | 9.8    | 8.8    | 7.8    |
| 75°   | 15.7   | 13.7   | 11.8   | 10.8   | 9.8    | 9.8    | 8.8    | 7.8    | 6.9    | 6.9    | 5.9    |
| 77.5° | 9.8    | 8.8    | 7.8    | 7.8    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 80°   | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    | 5.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 82.5° | 4.9    | 4.9    | 4.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 4.9    | 4.9    | 4.9    |
| 85°   | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 4.9    | 4.9    | 4.9    |
| 87.5° | 2.9    | 2.9    | 2.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 |
| 2.5°  | 1139.9 | 1128.1 | 1106.5 | 1086.9 | 1084.0 | 1056.6 | 1028.1 | 1022.2 | 1012.4 | 996.8  | 978.1  |
| 5°    | 1087.9 | 1056.6 | 1019.3 | 991.9  | 980.1  | 940.9  | 901.7  | 884.1  | 864.5  | 834.1  | 816.4  |
| 7.5°  | 1027.1 | 981.1  | 929.1  | 897.8  | 881.1  | 832.1  | 787.0  | 761.5  | 735.1  | 702.7  | 681.2  |
| 10°   | 960.5  | 902.7  | 841.9  | 806.6  | 787.0  | 734.1  | 686.1  | 656.7  | 628.2  | 595.9  | 573.4  |
| 12.5° | 897.8  | 832.1  | 765.5  | 728.2  | 706.7  | 651.8  | 602.8  | 571.4  | 543.0  | 516.5  | 490.1  |
| 15°   | 841.9  | 768.4  | 698.8  | 661.6  | 639.0  | 583.2  | 536.1  | 504.8  | 477.3  | 451.8  | 428.3  |
| 17.5° | 788.0  | 711.6  | 642.9  | 606.7  | 584.1  | 532.2  | 487.1  | 458.7  | 432.2  | 408.7  | 388.1  |
| 20°   | 750.8  | 678.2  | 613.5  | 579.2  | 559.6  | 513.6  | 475.4  | 452.8  | 434.2  | 413.6  | 396.0  |
| 22.5° | 741.0  | 676.3  | 620.4  | 592.0  | 577.3  | 541.0  | 513.6  | 499.9  | 494.0  | 481.2  | 471.4  |
| 25°   | 741.0  | 684.1  | 637.1  | 613.5  | 601.8  | 574.3  | 552.8  | 547.9  | 544.0  | 536.1  | 531.2  |
| 27.5° | 722.3  | 669.4  | 627.3  | 606.7  | 596.9  | 572.4  | 553.8  | 547.9  | 543.0  | 537.1  | 531.2  |
| 30°   | 673.3  | 624.3  | 585.1  | 566.5  | 556.7  | 533.2  | 513.6  | 506.7  | 501.8  | 493.0  | 488.1  |
| 32.5° | 607.7  | 560.6  | 528.3  | 506.7  | 497.9  | 475.4  | 456.7  | 448.9  | 445.0  | 437.1  | 428.3  |
| 35°   | 534.2  | 493.0  | 461.6  | 444.0  | 435.2  | 415.6  | 398.9  | 391.1  | 387.1  | 378.3  | 367.5  |
| 37.5° | 459.7  | 422.4  | 396.9  | 380.3  | 373.4  | 357.7  | 343.0  | 337.2  | 333.2  | 326.4  | 317.6  |
| 40°   | 386.2  | 359.7  | 337.2  | 324.4  | 318.5  | 305.8  | 293.1  | 287.2  | 284.2  | 278.3  | 271.5  |
| 42.5° | 325.4  | 303.8  | 286.2  | 275.4  | 270.5  | 260.7  | 249.9  | 244.0  | 241.1  | 235.2  | 230.3  |
| 45°   | 272.5  | 255.8  | 242.1  | 232.3  | 228.4  | 219.5  | 210.7  | 205.8  | 202.9  | 198.0  | 193.1  |
| 47.5° | 228.4  | 213.7  | 201.9  | 195.0  | 191.1  | 184.3  | 176.4  | 171.5  | 169.6  | 165.6  | 160.7  |
| 50°   | 187.2  | 176.4  | 166.6  | 160.7  | 157.8  | 150.9  | 144.1  | 140.2  | 138.2  | 134.3  | 129.4  |
| 52.5° | 150.9  | 143.1  | 134.3  | 128.4  | 125.5  | 120.6  | 113.7  | 109.8  | 106.8  | 102.9  | 97.0   |
| 55°   | 118.6  | 111.7  | 104.9  | 99.0   | 97.0   | 91.1   | 85.3   | 79.4   | 76.4   | 72.5   | 67.6   |
| 57.5° | 92.1   | 84.3   | 77.4   | 72.5   | 70.6   | 64.7   | 58.8   | 52.9   | 50.0   | 45.1   | 42.1   |
| 60°   | 65.7   | 58.8   | 51.9   | 49.0   | 47.0   | 41.2   | 36.3   | 31.4   | 29.4   | 26.5   | 24.5   |
| 62.5° | 43.1   | 38.2   | 32.3   | 29.4   | 28.4   | 24.5   | 20.6   | 19.6   | 17.6   | 16.7   | 15.7   |
| 65°   | 26.5   | 23.5   | 19.6   | 17.6   | 16.7   | 15.7   | 13.7   | 12.7   | 11.8   | 10.8   | 10.8   |
| 67.5° | 15.7   | 14.7   | 12.7   | 11.8   | 10.8   | 9.8    | 9.8    | 8.8    | 8.8    | 7.8    | 7.8    |
| 70°   | 10.8   | 9.8    | 8.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 6.9    | 6.9    |
| 72.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 75°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 77.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 4.9    | 4.9    |
| 80°   | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 82.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 85°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    |
| 87.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.9    | 2.9    | 2.9    | 2.0    |
| 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: P179629

CATALOG NUMBER: LDA6A45830D010TE LARH40FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 | 1201.6 |
| 2.5°  | 976.2  | 967.4  | 958.5  | 972.3  | 971.3  | 957.6  | 967.4  | 951.7  |
| 5°    | 806.6  | 793.9  | 784.1  | 792.9  | 788.0  | 774.3  | 780.2  | 766.4  |
| 7.5°  | 668.4  | 653.7  | 642.0  | 648.8  | 641.0  | 628.2  | 626.3  | 620.4  |
| 10°   | 558.7  | 543.0  | 532.2  | 537.1  | 529.3  | 517.5  | 514.6  | 510.6  |
| 12.5° | 475.4  | 460.6  | 450.8  | 454.8  | 446.9  | 436.1  | 434.2  | 437.1  |
| 15°   | 410.7  | 399.9  | 392.0  | 395.0  | 384.2  | 378.3  | 376.4  | 378.3  |
| 17.5° | 373.4  | 361.7  | 355.8  | 358.7  | 350.9  | 345.0  | 344.0  | 343.0  |
| 20°   | 389.1  | 380.3  | 378.3  | 383.2  | 377.3  | 372.4  | 375.4  | 371.5  |
| 22.5° | 474.4  | 473.4  | 474.4  | 486.1  | 483.2  | 481.2  | 483.2  | 483.2  |
| 25°   | 534.2  | 538.1  | 539.1  | 551.8  | 552.8  | 550.8  | 555.7  | 555.7  |
| 27.5° | 532.2  | 533.2  | 532.2  | 544.9  | 546.9  | 543.0  | 547.9  | 548.9  |
| 30°   | 485.2  | 485.2  | 482.2  | 493.0  | 493.0  | 491.0  | 493.0  | 494.0  |
| 32.5° | 423.4  | 422.4  | 421.4  | 426.3  | 426.3  | 423.4  | 425.4  | 425.4  |
| 35°   | 365.6  | 361.7  | 361.7  | 364.6  | 363.6  | 360.7  | 361.7  | 360.7  |
| 37.5° | 315.6  | 310.7  | 310.7  | 312.7  | 309.7  | 306.8  | 307.8  | 307.8  |
| 40°   | 269.5  | 265.6  | 265.6  | 268.5  | 266.6  | 263.6  | 265.6  | 265.6  |
| 42.5° | 226.4  | 225.4  | 225.4  | 227.4  | 227.4  | 225.4  | 228.4  | 229.3  |
| 45°   | 191.1  | 188.2  | 188.2  | 190.1  | 190.1  | 188.2  | 189.2  | 188.2  |
| 47.5° | 158.8  | 155.8  | 155.8  | 155.8  | 153.9  | 150.9  | 150.9  | 150.0  |
| 50°   | 126.4  | 121.5  | 120.6  | 120.6  | 118.6  | 115.7  | 115.7  | 114.7  |
| 52.5° | 94.1   | 89.2   | 89.2   | 88.2   | 86.2   | 85.3   | 84.3   | 84.3   |
| 55°   | 64.7   | 60.8   | 61.7   | 59.8   | 59.8   | 57.8   | 58.8   | 57.8   |
| 57.5° | 40.2   | 38.2   | 38.2   | 37.2   | 35.3   | 34.3   | 34.3   | 33.3   |
| 60°   | 23.5   | 21.6   | 21.6   | 21.6   | 20.6   | 19.6   | 19.6   | 19.6   |
| 62.5° | 15.7   | 14.7   | 14.7   | 14.7   | 12.7   | 12.7   | 11.8   | 11.8   |
| 65°   | 9.8    | 8.8    | 8.8    | 8.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 67.5° | 7.8    | 7.8    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 70°   | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    |
| 72.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 75°   | 5.9    | 5.9    | 4.9    | 5.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 77.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 80°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 85°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 87.5° | 2.9    | 2.0    | 2.0    | 2.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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)