

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: P179635

Luminaire Tested: **LDA6A45940D010TE LARH40FL 6LLWW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179635  
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: LDA6A45940D010TE LARH40FL 6LLWW1  
Description: PORTFOLIO 6" Lensed Wall Wash, Self-flanged, 40° Flood  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3369.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 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

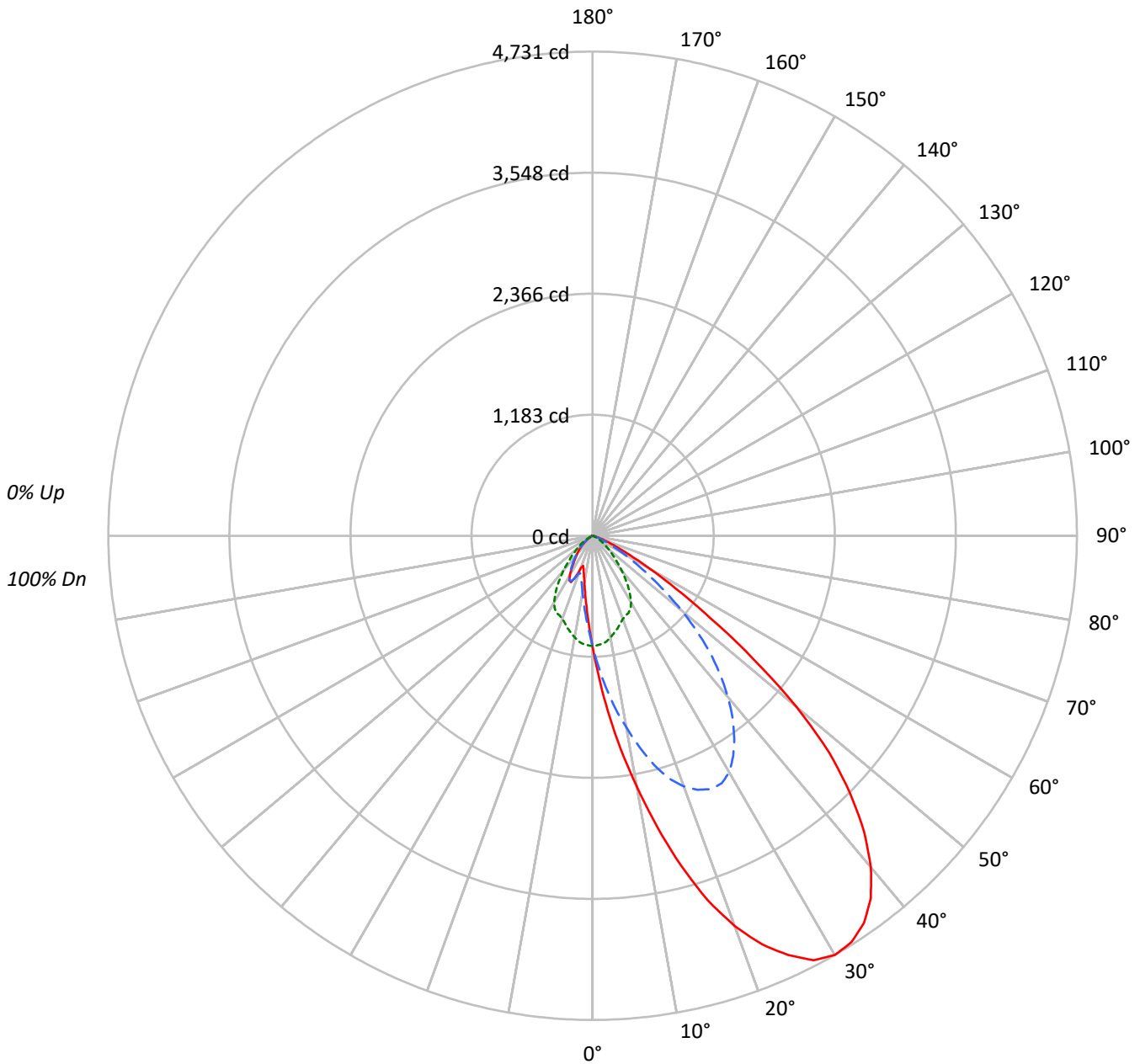
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 59151  | 59151 | 59151 |
| 5°  | 94684  | 58408 | 37871 |
| 10° | 138352 | 56094 | 25523 |
| 15° | 189155 | 53196 | 19279 |
| 20° | 236644 | 50369 | 19462 |
| 25° | 273361 | 50198 | 30183 |
| 30° | 299451 | 47520 | 28080 |
| 35° | 309218 | 40288 | 21676 |
| 40° | 302631 | 31430 | 17068 |
| 45° | 275866 | 23196 | 13102 |
| 50° | 221724 | 17117 | 8784  |
| 55° | 135011 | 12109 | 4960  |
| 60° | 70060  | 8004  | 1930  |
| 65° | 34141  | 4229  | 908   |
| 70° | 15660  | 1827  | 850   |
| 75° | 6524   | 1313  | 932   |
| 80° | 3346   | 1389  | 1105  |
| 85° | 2201   | 2768  | 1635  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.7  | 3.3       |
| 10°-20°   | 392.1  | 11.6      |
| 20°-30°   | 742.4  | 22.0      |
| 30°-40°   | 899.1  | 26.7      |
| 40°-50°   | 752.5  | 22.3      |
| 50°-60°   | 364.7  | 10.8      |
| 60°-70°   | 89.4   | 2.7       |
| 70°-80°   | 14.5   | 0.4       |
| 80°-90°   | 3.5    | 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°    | 1245.2 | 37.0      |
| 0°-40°    | 2144.3 | 63.6      |
| 0°-60°    | 3261.5 | 96.8      |
| 0°-90°    | 3369.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3369.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1079 | 1079 | 1079 | 1079 | 1079 |      |
| 5°  | 1721 | 1482 | 1061 | 776  | 688  | 188  |
| 15° | 3333 | 2317 | 937  | 429  | 340  | 962  |
| 25° | 4519 | 2730 | 830  | 488  | 499  | 2082 |
| 35° | 4620 | 2412 | 602  | 348  | 324  | 2863 |
| 45° | 3558 | 1627 | 299  | 182  | 169  | 2700 |
| 55° | 1413 | 667  | 127  | 69   | 52   | 1324 |
| 65° | 263  | 146  | 33   | 11   | 7    | 297  |
| 75° | 31   | 16   | 6    | 5    | 4    | 42   |
| 85° | 4    | 3    | 4    | 4    | 3    | 4    |
| 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°    | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 |
| 2.5°  | 1369.4 | 1337.8 | 1344.8 | 1350.1 | 1326.3 | 1341.3 | 1315.8 | 1307.0 | 1285.8 | 1291.1 | 1275.3 |
| 5°    | 1720.6 | 1676.6 | 1663.4 | 1663.4 | 1623.8 | 1637.0 | 1614.1 | 1573.6 | 1532.3 | 1519.9 | 1482.1 |
| 7.5°  | 2098.2 | 2049.8 | 2028.6 | 2019.8 | 1961.7 | 1953.8 | 1934.5 | 1872.0 | 1804.2 | 1768.1 | 1701.2 |
| 10°   | 2485.4 | 2441.4 | 2411.5 | 2391.2 | 2311.1 | 2297.1 | 2262.7 | 2174.7 | 2089.4 | 2011.9 | 1901.9 |
| 12.5° | 2912.3 | 2853.3 | 2813.7 | 2780.2 | 2677.3 | 2655.3 | 2604.2 | 2486.3 | 2351.6 | 2258.3 | 2113.1 |
| 15°   | 3332.9 | 3273.1 | 3221.2 | 3172.8 | 3047.8 | 3016.1 | 2947.5 | 2797.8 | 2640.3 | 2501.3 | 2317.3 |
| 17.5° | 3733.4 | 3657.7 | 3594.3 | 3529.2 | 3382.2 | 3342.6 | 3252.9 | 3086.5 | 2866.5 | 2709.0 | 2487.2 |
| 20°   | 4056.4 | 3982.5 | 3909.4 | 3826.7 | 3658.6 | 3611.1 | 3501.9 | 3304.8 | 3054.8 | 2865.6 | 2606.9 |
| 22.5° | 4320.4 | 4236.8 | 4164.6 | 4056.4 | 3867.2 | 3811.7 | 3685.9 | 3462.3 | 3192.1 | 2971.2 | 2687.0 |
| 25°   | 4519.3 | 4430.4 | 4356.5 | 4235.1 | 4025.6 | 3961.3 | 3814.4 | 3572.3 | 3277.5 | 3034.6 | 2730.1 |
| 27.5° | 4676.0 | 4573.9 | 4490.3 | 4355.6 | 4125.0 | 4052.9 | 3891.8 | 3630.4 | 3311.8 | 3046.9 | 2728.3 |
| 30°   | 4730.6 | 4631.1 | 4536.9 | 4391.7 | 4143.5 | 4063.4 | 3896.2 | 3612.8 | 3281.0 | 2995.9 | 2667.6 |
| 32.5° | 4706.8 | 4603.8 | 4501.7 | 4347.7 | 4085.4 | 3999.2 | 3830.2 | 3527.5 | 3186.9 | 2886.7 | 2555.8 |
| 35°   | 4620.5 | 4515.8 | 4406.7 | 4247.4 | 3972.8 | 3879.5 | 3710.5 | 3397.2 | 3043.4 | 2743.3 | 2412.4 |
| 37.5° | 4463.9 | 4359.1 | 4256.2 | 4084.6 | 3803.8 | 3707.0 | 3540.7 | 3215.9 | 2870.9 | 2568.1 | 2246.0 |
| 40°   | 4228.9 | 4125.0 | 4030.0 | 3856.6 | 3574.1 | 3476.4 | 3318.9 | 2996.7 | 2664.1 | 2364.8 | 2055.0 |
| 42.5° | 3926.1 | 3826.7 | 3741.3 | 3571.5 | 3295.1 | 3201.8 | 3054.0 | 2742.4 | 2431.7 | 2142.2 | 1850.9 |
| 45°   | 3558.3 | 3467.6 | 3389.3 | 3229.1 | 2973.9 | 2884.1 | 2753.0 | 2458.1 | 2168.6 | 1897.5 | 1627.3 |
| 47.5° | 3134.0 | 3051.3 | 2982.7 | 2834.8 | 2598.1 | 2516.2 | 2403.6 | 2129.8 | 1871.1 | 1623.8 | 1383.5 |
| 50°   | 2599.8 | 2527.7 | 2480.1 | 2352.5 | 2141.3 | 2072.6 | 1985.5 | 1754.9 | 1542.8 | 1329.8 | 1130.9 |
| 52.5° | 1983.8 | 1927.4 | 1905.4 | 1809.5 | 1645.8 | 1598.3 | 1541.9 | 1365.0 | 1210.1 | 1042.0 | 887.1  |
| 55°   | 1412.6 | 1375.6 | 1361.5 | 1299.0 | 1191.7 | 1160.9 | 1112.4 | 1003.3 | 900.3  | 781.5  | 667.1  |
| 57.5° | 962.0  | 942.6  | 932.0  | 893.3  | 827.3  | 806.2  | 778.9  | 708.5  | 642.5  | 565.0  | 483.2  |
| 60°   | 639.0  | 631.0  | 622.2  | 598.5  | 559.7  | 543.9  | 530.7  | 484.1  | 443.6  | 395.2  | 338.0  |
| 62.5° | 414.5  | 411.0  | 404.8  | 389.9  | 374.9  | 364.4  | 350.3  | 319.5  | 295.7  | 271.1  | 227.9  |
| 65°   | 263.2  | 259.6  | 257.0  | 247.3  | 237.6  | 227.1  | 221.8  | 204.2  | 189.2  | 173.4  | 146.1  |
| 67.5° | 162.8  | 160.2  | 159.3  | 153.1  | 146.1  | 139.9  | 136.4  | 125.0  | 116.2  | 106.5  | 88.9   |
| 70°   | 97.7   | 96.8   | 95.1   | 91.5   | 87.1   | 82.7   | 81.0   | 73.0   | 67.8   | 61.6   | 50.2   |
| 72.5° | 56.3   | 55.4   | 54.6   | 51.9   | 49.3   | 47.5   | 45.8   | 43.1   | 37.0   | 33.4   | 28.2   |
| 75°   | 30.8   | 30.8   | 29.9   | 28.2   | 27.3   | 25.5   | 24.6   | 22.9   | 20.2   | 18.5   | 15.8   |
| 77.5° | 17.6   | 16.7   | 16.7   | 15.8   | 15.0   | 15.0   | 14.1   | 13.2   | 11.4   | 11.4   | 9.7    |
| 80°   | 10.6   | 10.6   | 10.6   | 9.7    | 9.7    | 9.7    | 8.8    | 8.8    | 7.9    | 7.0    | 7.0    |
| 82.5° | 7.0    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 5.3    | 5.3    | 5.3    | 5.3    | 4.4    |
| 85°   | 3.5    | 3.5    | 3.5    | 3.5    | 2.6    | 3.5    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 87.5° | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    | 1.8    | 2.6    |
| 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°    | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 |
| 2.5°  | 1233.9 | 1225.1 | 1207.5 | 1182.9 | 1174.1 | 1168.8 | 1139.7 | 1113.3 | 1094.8 | 1071.1 | 1048.2 |
| 5°    | 1413.4 | 1380.9 | 1338.6 | 1287.6 | 1267.3 | 1249.7 | 1196.1 | 1146.8 | 1106.3 | 1061.4 | 1019.2 |
| 7.5°  | 1599.1 | 1538.4 | 1467.1 | 1386.2 | 1352.7 | 1321.9 | 1240.9 | 1167.9 | 1105.4 | 1041.2 | 980.4  |
| 10°   | 1773.4 | 1681.0 | 1578.0 | 1469.8 | 1419.6 | 1374.7 | 1267.3 | 1173.2 | 1090.4 | 1007.7 | 932.9  |
| 12.5° | 1944.1 | 1818.3 | 1681.9 | 1542.8 | 1477.7 | 1419.6 | 1286.7 | 1171.4 | 1069.3 | 972.5  | 886.3  |
| 15°   | 2108.7 | 1945.9 | 1777.8 | 1607.1 | 1528.7 | 1457.4 | 1299.9 | 1165.3 | 1047.3 | 937.3  | 841.4  |
| 17.5° | 2241.6 | 2049.8 | 1846.5 | 1645.8 | 1557.8 | 1475.1 | 1298.2 | 1147.7 | 1017.4 | 897.7  | 795.6  |
| 20°   | 2334.9 | 2114.0 | 1887.8 | 1663.4 | 1567.5 | 1475.9 | 1284.9 | 1123.9 | 986.6  | 863.4  | 760.4  |
| 22.5° | 2387.7 | 2143.9 | 1901.9 | 1663.4 | 1560.4 | 1464.5 | 1266.5 | 1101.9 | 963.7  | 843.1  | 744.6  |
| 25°   | 2409.7 | 2149.2 | 1895.7 | 1649.3 | 1542.8 | 1444.2 | 1245.3 | 1080.8 | 945.2  | 829.9  | 738.4  |
| 27.5° | 2392.1 | 2118.4 | 1861.4 | 1610.6 | 1501.5 | 1402.9 | 1204.9 | 1043.8 | 912.7  | 802.7  | 715.5  |
| 30°   | 2321.7 | 2041.0 | 1784.8 | 1535.8 | 1425.8 | 1329.8 | 1138.0 | 982.2  | 856.3  | 750.7  | 668.0  |
| 32.5° | 2207.3 | 1928.3 | 1676.6 | 1433.7 | 1324.6 | 1232.1 | 1049.1 | 901.2  | 780.7  | 680.3  | 603.8  |
| 35°   | 2068.2 | 1794.5 | 1551.6 | 1314.9 | 1210.1 | 1122.1 | 949.6  | 805.3  | 694.4  | 602.0  | 531.6  |
| 37.5° | 1911.6 | 1646.7 | 1406.4 | 1189.0 | 1088.7 | 1005.1 | 844.0  | 708.5  | 606.4  | 521.0  | 458.5  |
| 40°   | 1735.6 | 1485.6 | 1259.4 | 1053.5 | 958.4  | 881.0  | 728.7  | 609.0  | 515.7  | 439.2  | 386.4  |
| 42.5° | 1549.9 | 1316.6 | 1106.3 | 913.5  | 823.8  | 753.4  | 615.2  | 508.7  | 426.8  | 364.4  | 322.1  |
| 45°   | 1351.0 | 1135.3 | 942.6  | 770.1  | 695.3  | 624.9  | 507.8  | 411.0  | 346.8  | 299.2  | 267.6  |
| 47.5° | 1138.9 | 947.9  | 778.0  | 627.5  | 562.4  | 500.8  | 402.2  | 328.3  | 281.6  | 245.5  | 221.8  |
| 50°   | 925.9  | 764.8  | 620.5  | 492.0  | 436.5  | 387.2  | 311.6  | 261.4  | 227.1  | 200.7  | 181.3  |
| 52.5° | 723.4  | 593.2  | 475.3  | 370.5  | 329.2  | 294.0  | 242.0  | 206.8  | 181.3  | 161.1  | 147.0  |
| 55°   | 543.0  | 440.1  | 347.6  | 269.3  | 244.7  | 222.7  | 188.3  | 160.2  | 142.6  | 126.7  | 116.2  |
| 57.5° | 393.4  | 314.2  | 247.3  | 198.0  | 182.2  | 167.2  | 142.6  | 123.2  | 110.0  | 97.7   | 89.8   |
| 60°   | 276.4  | 218.3  | 175.1  | 145.2  | 132.9  | 124.1  | 104.7  | 92.4   | 81.8   | 73.0   | 65.1   |
| 62.5° | 185.7  | 147.9  | 122.3  | 103.0  | 95.1   | 88.9   | 76.6   | 66.0   | 58.1   | 51.0   | 44.0   |
| 65°   | 118.8  | 99.5   | 82.7   | 69.5   | 64.2   | 59.8   | 51.9   | 43.1   | 37.8   | 32.6   | 27.3   |
| 67.5° | 73.0   | 62.5   | 51.9   | 43.1   | 39.6   | 37.0   | 31.7   | 26.4   | 22.9   | 19.4   | 16.7   |
| 70°   | 42.2   | 36.1   | 29.9   | 25.5   | 23.8   | 22.0   | 18.5   | 15.8   | 14.1   | 11.4   | 9.7    |
| 72.5° | 23.8   | 21.1   | 17.6   | 15.0   | 14.1   | 13.2   | 11.4   | 9.7    | 8.8    | 7.9    | 7.0    |
| 75°   | 14.1   | 12.3   | 10.6   | 9.7    | 8.8    | 8.8    | 7.9    | 7.0    | 6.2    | 6.2    | 5.3    |
| 77.5° | 8.8    | 7.9    | 7.0    | 7.0    | 6.2    | 6.2    | 6.2    | 5.3    | 5.3    | 5.3    | 5.3    |
| 80°   | 6.2    | 6.2    | 5.3    | 5.3    | 5.3    | 5.3    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 82.5° | 4.4    | 4.4    | 4.4    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 4.4    | 4.4    | 4.4    |
| 85°   | 2.6    | 2.6    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 4.4    | 4.4    | 4.4    |
| 87.5° | 2.6    | 2.6    | 2.6    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 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°    | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 |
| 2.5°  | 1023.6 | 1013.0 | 993.6  | 976.0  | 973.4  | 948.8  | 923.2  | 917.9  | 909.1  | 895.1  | 878.3  |
| 5°    | 976.9  | 948.8  | 915.3  | 890.7  | 880.1  | 844.9  | 809.7  | 793.9  | 776.3  | 749.0  | 733.1  |
| 7.5°  | 922.3  | 881.0  | 834.3  | 806.2  | 791.2  | 747.2  | 706.7  | 683.8  | 660.1  | 631.0  | 611.7  |
| 10°   | 862.5  | 810.6  | 756.0  | 724.3  | 706.7  | 659.2  | 616.1  | 589.7  | 564.1  | 535.1  | 514.9  |
| 12.5° | 806.2  | 747.2  | 687.4  | 653.9  | 634.6  | 585.3  | 541.3  | 513.1  | 487.6  | 463.8  | 440.1  |
| 15°   | 756.0  | 690.0  | 627.5  | 594.1  | 573.8  | 523.7  | 481.4  | 453.3  | 428.6  | 405.7  | 384.6  |
| 17.5° | 707.6  | 639.0  | 577.3  | 544.8  | 524.5  | 477.9  | 437.4  | 411.9  | 388.1  | 367.0  | 348.5  |
| 20°   | 674.2  | 609.0  | 550.9  | 520.1  | 502.5  | 461.2  | 426.8  | 406.6  | 389.9  | 371.4  | 355.6  |
| 22.5° | 665.4  | 607.3  | 557.1  | 531.6  | 518.4  | 485.8  | 461.2  | 448.9  | 443.6  | 432.1  | 423.3  |
| 25°   | 665.4  | 614.3  | 572.1  | 550.9  | 540.4  | 515.7  | 496.4  | 492.0  | 488.5  | 481.4  | 477.0  |
| 27.5° | 648.6  | 601.1  | 563.3  | 544.8  | 536.0  | 514.0  | 497.3  | 492.0  | 487.6  | 482.3  | 477.0  |
| 30°   | 604.6  | 560.6  | 525.4  | 508.7  | 499.9  | 478.8  | 461.2  | 455.0  | 450.6  | 442.7  | 438.3  |
| 32.5° | 545.7  | 503.4  | 474.4  | 455.0  | 447.1  | 426.8  | 410.1  | 403.1  | 399.6  | 392.5  | 384.6  |
| 35°   | 479.7  | 442.7  | 414.5  | 398.7  | 390.8  | 373.2  | 358.2  | 351.2  | 347.6  | 339.7  | 330.0  |
| 37.5° | 412.8  | 379.3  | 356.4  | 341.5  | 335.3  | 321.2  | 308.0  | 302.8  | 299.2  | 293.1  | 285.2  |
| 40°   | 346.8  | 323.0  | 302.8  | 291.3  | 286.0  | 274.6  | 263.2  | 257.9  | 255.2  | 249.9  | 243.8  |
| 42.5° | 292.2  | 272.8  | 257.0  | 247.3  | 242.9  | 234.1  | 224.4  | 219.1  | 216.5  | 211.2  | 206.8  |
| 45°   | 244.7  | 229.7  | 217.4  | 208.6  | 205.1  | 197.1  | 189.2  | 184.8  | 182.2  | 177.8  | 173.4  |
| 47.5° | 205.1  | 191.9  | 181.3  | 175.1  | 171.6  | 165.5  | 158.4  | 154.0  | 152.3  | 148.7  | 144.3  |
| 50°   | 168.1  | 158.4  | 149.6  | 144.3  | 141.7  | 135.5  | 129.4  | 125.9  | 124.1  | 120.6  | 116.2  |
| 52.5° | 135.5  | 128.5  | 120.6  | 115.3  | 112.7  | 108.3  | 102.1  | 98.6   | 95.9   | 92.4   | 87.1   |
| 55°   | 106.5  | 100.3  | 94.2   | 88.9   | 87.1   | 81.8   | 76.6   | 71.3   | 68.6   | 65.1   | 60.7   |
| 57.5° | 82.7   | 75.7   | 69.5   | 65.1   | 63.4   | 58.1   | 52.8   | 47.5   | 44.9   | 40.5   | 37.8   |
| 60°   | 59.0   | 52.8   | 46.6   | 44.0   | 42.2   | 37.0   | 32.6   | 28.2   | 26.4   | 23.8   | 22.0   |
| 62.5° | 38.7   | 34.3   | 29.0   | 26.4   | 25.5   | 22.0   | 18.5   | 17.6   | 15.8   | 15.0   | 14.1   |
| 65°   | 23.8   | 21.1   | 17.6   | 15.8   | 15.0   | 14.1   | 12.3   | 11.4   | 10.6   | 9.7    | 9.7    |
| 67.5° | 14.1   | 13.2   | 11.4   | 10.6   | 9.7    | 8.8    | 8.8    | 7.9    | 7.9    | 7.0    | 7.0    |
| 70°   | 9.7    | 8.8    | 7.9    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 6.2    | 6.2    |
| 72.5° | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 75°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 77.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 4.4    | 4.4    |
| 80°   | 4.4    | 5.3    | 5.3    | 5.3    | 5.3    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 82.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 85°   | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 2.6    |
| 87.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 2.6    | 2.6    | 2.6    | 1.8    |
| 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: P179635

CATALOG NUMBER: LDA6A45940D010TE LARH40FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 | 1079.0 |
| 2.5°  | 876.6  | 868.7  | 860.7  | 873.1  | 872.2  | 859.9  | 868.7  | 854.6  |
| 5°    | 724.3  | 712.9  | 704.1  | 712.0  | 707.6  | 695.3  | 700.6  | 688.2  |
| 7.5°  | 600.2  | 587.0  | 576.5  | 582.6  | 575.6  | 564.1  | 562.4  | 557.1  |
| 10°   | 501.7  | 487.6  | 477.9  | 482.3  | 475.3  | 464.7  | 462.1  | 458.5  |
| 12.5° | 426.8  | 413.6  | 404.8  | 408.4  | 401.3  | 391.6  | 389.9  | 392.5  |
| 15°   | 368.8  | 359.1  | 352.0  | 354.7  | 345.0  | 339.7  | 338.0  | 339.7  |
| 17.5° | 335.3  | 324.8  | 319.5  | 322.1  | 315.1  | 309.8  | 308.9  | 308.0  |
| 20°   | 349.4  | 341.5  | 339.7  | 344.1  | 338.8  | 334.4  | 337.1  | 333.6  |
| 22.5° | 426.0  | 425.1  | 426.0  | 436.5  | 433.9  | 432.1  | 433.9  | 433.9  |
| 25°   | 479.7  | 483.2  | 484.1  | 495.5  | 496.4  | 494.6  | 499.0  | 499.0  |
| 27.5° | 477.9  | 478.8  | 477.9  | 489.3  | 491.1  | 487.6  | 492.0  | 492.9  |
| 30°   | 435.7  | 435.7  | 433.0  | 442.7  | 442.7  | 440.9  | 442.7  | 443.6  |
| 32.5° | 380.2  | 379.3  | 378.4  | 382.8  | 382.8  | 380.2  | 382.0  | 382.0  |
| 35°   | 328.3  | 324.8  | 324.8  | 327.4  | 326.5  | 323.9  | 324.8  | 323.9  |
| 37.5° | 283.4  | 279.0  | 279.0  | 280.8  | 278.1  | 275.5  | 276.4  | 276.4  |
| 40°   | 242.0  | 238.5  | 238.5  | 241.1  | 239.4  | 236.7  | 238.5  | 238.5  |
| 42.5° | 203.3  | 202.4  | 202.4  | 204.2  | 204.2  | 202.4  | 205.1  | 205.9  |
| 45°   | 171.6  | 169.0  | 169.0  | 170.7  | 170.7  | 169.0  | 169.9  | 169.0  |
| 47.5° | 142.6  | 139.9  | 139.9  | 139.9  | 138.2  | 135.5  | 135.5  | 134.7  |
| 50°   | 113.5  | 109.1  | 108.3  | 108.3  | 106.5  | 103.9  | 103.9  | 103.0  |
| 52.5° | 84.5   | 80.1   | 80.1   | 79.2   | 77.4   | 76.6   | 75.7   | 75.7   |
| 55°   | 58.1   | 54.6   | 55.4   | 53.7   | 53.7   | 51.9   | 52.8   | 51.9   |
| 57.5° | 36.1   | 34.3   | 34.3   | 33.4   | 31.7   | 30.8   | 30.8   | 29.9   |
| 60°   | 21.1   | 19.4   | 19.4   | 19.4   | 18.5   | 17.6   | 17.6   | 17.6   |
| 62.5° | 14.1   | 13.2   | 13.2   | 13.2   | 11.4   | 11.4   | 10.6   | 10.6   |
| 65°   | 8.8    | 7.9    | 7.9    | 7.9    | 7.0    | 7.0    | 7.0    | 7.0    |
| 67.5° | 7.0    | 7.0    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 70°   | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 5.3    | 5.3    | 5.3    |
| 72.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 75°   | 5.3    | 5.3    | 4.4    | 5.3    | 4.4    | 4.4    | 4.4    | 4.4    |
| 77.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 80°   | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 3.5    | 3.5    | 3.5    |
| 82.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 85°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 87.5° | 2.6    | 1.8    | 1.8    | 1.8    | 0.9    | 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)