

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: P252411

Luminaire Tested: **LD6B50D010TE EU6B30509050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B50D010TE EU6B30509050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4212.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

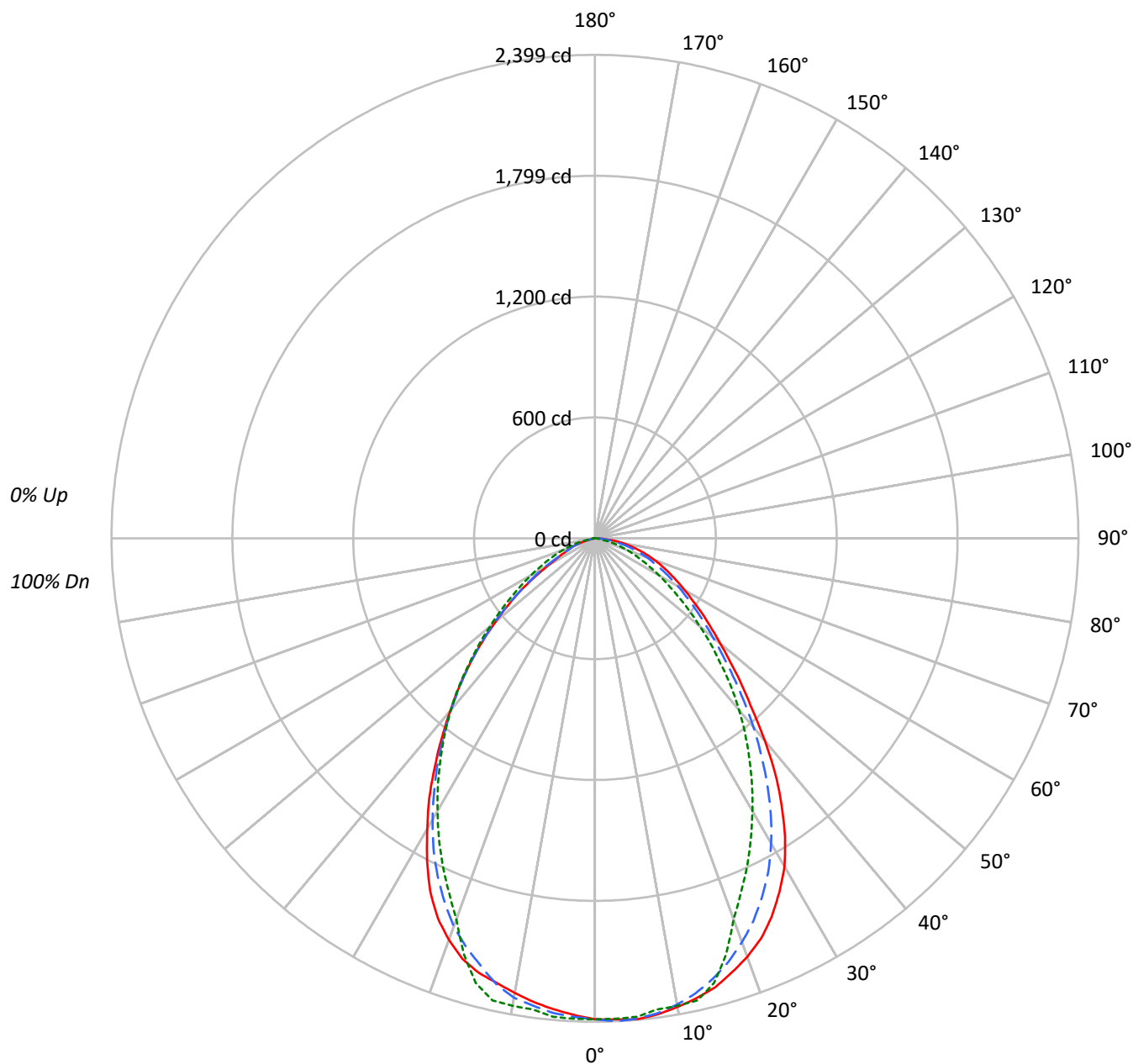
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  |  | 88  | 84  | 81  |  | 85  |
| 3   | 95  | 86  | 80  | 74  | 93  | 85  | 79  | 73  | 82  | 77  | 72  |  | 79  | 75  | 71  |  | 77  |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 64  |  | 72  | 67  | 63  |  | 70  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 62  | 57  |  | 66  | 60  | 56  |  | 64  |
| 6   | 77  | 65  | 57  | 51  | 75  | 64  | 57  | 51  | 62  | 56  | 51  |  | 61  | 55  | 50  |  | 59  |
| 7   | 72  | 60  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  |
| 8   | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 46  | 42  |  | 52  | 46  | 42  |  | 51  |
| 9   | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 40  | 35  |  | 45  | 39  | 35  |  | 44  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 155703 | 155703 | 155703 |
| 5°  | 156907 | 156095 | 153659 |
| 10° | 156462 | 156052 | 151739 |
| 15° | 155752 | 154286 | 150727 |
| 20° | 153428 | 139654 | 147187 |
| 25° | 149261 | 128738 | 139219 |
| 30° | 141725 | 117678 | 125385 |
| 35° | 128609 | 106397 | 110339 |
| 40° | 111661 | 94764  | 95028  |
| 45° | 95226  | 81497  | 80639  |
| 50° | 82415  | 68896  | 65120  |
| 55° | 73683  | 57463  | 50411  |
| 60° | 67133  | 47717  | 33977  |
| 65° | 62675  | 39241  | 25363  |
| 70° | 59705  | 31932  | 21288  |
| 75° | 56262  | 22661  | 7033   |
| 80° | 53576  | 11647  | 2329   |
| 85° | 44090  | 6962   | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 225.4  | 5.4       |
| 10°-20°   | 630.3  | 15.0      |
| 20°-30°   | 870.1  | 20.7      |
| 30°-40°   | 885.4  | 21.0      |
| 40°-50°   | 711.5  | 16.9      |
| 50°-60°   | 473.1  | 11.2      |
| 60°-70°   | 269.6  | 6.4       |
| 70°-80°   | 121.1  | 2.9       |
| 80°-90°   | 25.5   | 0.6       |
| 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°    | 1725.8 | 41.0      |
| 0°-40°    | 2611.1 | 62.0      |
| 0°-60°    | 3795.8 | 90.1      |
| 0°-90°    | 4212.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4212.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2387 | 2387 | 2387 | 2387 | 2387 |      |
| 5°  | 2396 | 2393 | 2384 | 2365 | 2346 | 227  |
| 15° | 2306 | 2263 | 2284 | 2194 | 2232 | 649  |
| 25° | 2074 | 1962 | 1788 | 1847 | 1934 | 950  |
| 35° | 1615 | 1491 | 1336 | 1361 | 1385 | 1004 |
| 45° | 1032 | 970  | 883  | 874  | 874  | 800  |
| 55° | 648  | 604  | 505  | 449  | 443  | 582  |
| 65° | 406  | 363  | 254  | 164  | 164  | 404  |
| 75° | 223  | 186  | 90   | 37   | 28   | 238  |
| 85° | 59   | 40   | 9    | 3    | 0    | 70   |
| 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°    | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 |
| 2.5°  | 2389.7 | 2402.1 | 2399.0 | 2395.9 | 2399.0 | 2395.9 | 2389.7 | 2389.7 | 2383.5 | 2383.5 | 2399.0 |
| 5°    | 2395.9 | 2402.1 | 2399.0 | 2395.9 | 2395.9 | 2399.0 | 2386.6 | 2386.6 | 2380.4 | 2377.3 | 2392.8 |
| 7.5°  | 2383.5 | 2392.8 | 2386.6 | 2386.6 | 2383.5 | 2386.6 | 2374.2 | 2374.2 | 2364.9 | 2361.8 | 2377.3 |
| 10°   | 2361.8 | 2374.2 | 2368.0 | 2368.0 | 2368.0 | 2361.8 | 2355.6 | 2352.5 | 2343.2 | 2340.1 | 2349.4 |
| 12.5° | 2337.0 | 2346.3 | 2343.2 | 2337.0 | 2337.0 | 2337.0 | 2324.6 | 2321.5 | 2309.1 | 2302.9 | 2312.2 |
| 15°   | 2306.0 | 2312.2 | 2309.1 | 2306.0 | 2299.8 | 2299.8 | 2287.4 | 2281.2 | 2268.8 | 2256.4 | 2262.6 |
| 17.5° | 2259.5 | 2268.8 | 2262.6 | 2259.5 | 2250.2 | 2250.2 | 2237.8 | 2231.6 | 2213.0 | 2200.6 | 2203.7 |
| 20°   | 2209.9 | 2213.0 | 2209.9 | 2203.7 | 2194.4 | 2191.3 | 2178.9 | 2166.5 | 2151.0 | 2135.5 | 2132.4 |
| 22.5° | 2151.0 | 2154.1 | 2144.8 | 2138.6 | 2129.3 | 2126.2 | 2110.7 | 2101.4 | 2076.6 | 2058.0 | 2054.9 |
| 25°   | 2073.5 | 2076.6 | 2076.6 | 2061.1 | 2054.9 | 2048.7 | 2033.2 | 2017.7 | 1996.0 | 1971.2 | 1961.9 |
| 27.5° | 1980.5 | 1989.8 | 1983.6 | 1968.1 | 1955.7 | 1952.6 | 1937.1 | 1924.7 | 1896.8 | 1875.1 | 1862.8 |
| 30°   | 1881.3 | 1878.2 | 1875.1 | 1865.9 | 1847.3 | 1844.2 | 1828.7 | 1813.2 | 1791.5 | 1763.6 | 1748.1 |
| 32.5° | 1754.3 | 1754.3 | 1751.2 | 1741.9 | 1723.3 | 1717.1 | 1704.7 | 1686.1 | 1661.3 | 1639.6 | 1624.1 |
| 35°   | 1614.8 | 1617.9 | 1614.8 | 1596.2 | 1583.8 | 1577.6 | 1571.4 | 1549.7 | 1528.0 | 1503.2 | 1490.8 |
| 37.5° | 1469.1 | 1459.8 | 1462.9 | 1447.4 | 1431.9 | 1438.1 | 1419.5 | 1410.2 | 1385.4 | 1366.8 | 1354.4 |
| 40°   | 1311.1 | 1317.3 | 1304.9 | 1298.7 | 1289.4 | 1280.1 | 1280.1 | 1264.6 | 1252.2 | 1230.5 | 1224.3 |
| 42.5° | 1156.1 | 1165.4 | 1162.3 | 1156.1 | 1143.7 | 1146.8 | 1131.3 | 1125.1 | 1109.6 | 1100.3 | 1091.0 |
| 45°   | 1032.1 | 1032.1 | 1032.1 | 1025.9 | 1022.8 | 1016.6 | 1007.3 | 998.0  | 988.7  | 976.3  | 970.1  |
| 47.5° | 911.2  | 911.2  | 914.3  | 908.1  | 901.9  | 898.8  | 892.6  | 892.6  | 877.1  | 864.7  | 858.5  |
| 50°   | 812.0  | 812.0  | 812.0  | 805.8  | 799.7  | 799.7  | 793.5  | 787.3  | 778.0  | 768.7  | 762.5  |
| 52.5° | 722.2  | 722.2  | 722.2  | 716.0  | 712.9  | 709.8  | 706.7  | 703.6  | 691.2  | 685.0  | 678.8  |
| 55°   | 647.8  | 644.7  | 644.7  | 641.6  | 635.4  | 635.4  | 632.3  | 626.1  | 616.8  | 607.5  | 604.4  |
| 57.5° | 573.4  | 576.5  | 573.4  | 573.4  | 567.2  | 567.2  | 561.0  | 557.9  | 548.6  | 542.4  | 536.2  |
| 60°   | 514.5  | 514.5  | 514.5  | 511.4  | 505.2  | 508.3  | 502.1  | 499.0  | 489.7  | 480.4  | 474.2  |
| 62.5° | 455.6  | 458.7  | 458.7  | 455.6  | 449.4  | 449.4  | 446.3  | 443.2  | 433.9  | 424.6  | 415.3  |
| 65°   | 406.0  | 406.0  | 406.0  | 402.9  | 399.8  | 399.8  | 396.7  | 393.6  | 384.3  | 371.9  | 362.6  |
| 67.5° | 359.5  | 356.4  | 356.4  | 356.4  | 353.3  | 350.2  | 347.1  | 344.0  | 334.7  | 325.4  | 313.0  |
| 70°   | 313.0  | 313.0  | 313.0  | 309.9  | 303.7  | 306.8  | 303.7  | 300.6  | 291.3  | 282.0  | 272.7  |
| 72.5° | 269.6  | 269.6  | 266.6  | 263.5  | 263.5  | 260.4  | 260.4  | 257.3  | 248.0  | 235.6  | 226.3  |
| 75°   | 223.2  | 223.2  | 223.2  | 223.2  | 217.0  | 220.1  | 213.9  | 210.8  | 204.6  | 195.3  | 186.0  |
| 77.5° | 182.9  | 182.9  | 182.9  | 179.8  | 176.7  | 176.7  | 173.6  | 170.5  | 161.2  | 155.0  | 142.6  |
| 80°   | 142.6  | 142.6  | 142.6  | 142.6  | 139.5  | 136.4  | 133.3  | 130.2  | 124.0  | 114.7  | 105.4  |
| 82.5° | 105.4  | 105.4  | 102.3  | 102.3  | 102.3  | 99.2   | 96.1   | 93.0   | 86.8   | 80.6   | 74.4   |
| 85°   | 58.9   | 62.0   | 62.0   | 55.8   | 58.9   | 55.8   | 55.8   | 49.6   | 49.6   | 43.4   | 40.3   |
| 87.5° | 21.7   | 18.6   | 18.6   | 18.6   | 18.6   | 18.6   | 18.6   | 15.5   | 15.5   | 15.5   | 12.4   |
| 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°    | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 |
| 2.5°  | 2386.6 | 2383.5 | 2395.9 | 2395.9 | 2377.3 | 2386.6 | 2389.7 | 2383.5 | 2383.5 | 2386.6 | 2377.3 |
| 5°    | 2380.4 | 2374.2 | 2386.6 | 2389.7 | 2371.1 | 2380.4 | 2383.5 | 2377.3 | 2380.4 | 2383.5 | 2371.1 |
| 7.5°  | 2358.7 | 2358.7 | 2368.0 | 2371.1 | 2352.5 | 2361.8 | 2361.8 | 2355.6 | 2358.7 | 2358.7 | 2349.4 |
| 10°   | 2337.0 | 2327.7 | 2337.0 | 2337.0 | 2321.5 | 2324.6 | 2330.8 | 2327.7 | 2340.1 | 2355.6 | 2355.6 |
| 12.5° | 2296.7 | 2287.4 | 2302.9 | 2302.9 | 2293.6 | 2306.0 | 2321.5 | 2330.8 | 2343.2 | 2349.4 | 2330.8 |
| 15°   | 2247.1 | 2250.2 | 2278.1 | 2299.8 | 2290.5 | 2309.1 | 2324.6 | 2318.4 | 2302.9 | 2284.3 | 2256.4 |
| 17.5° | 2182.0 | 2172.7 | 2197.5 | 2209.9 | 2197.5 | 2203.7 | 2216.1 | 2203.7 | 2178.9 | 2163.4 | 2126.2 |
| 20°   | 2107.6 | 2082.8 | 2082.8 | 2076.6 | 2054.9 | 2054.9 | 2051.8 | 2030.1 | 2020.8 | 2011.5 | 1996.0 |
| 22.5° | 2023.9 | 1996.0 | 1986.7 | 1968.1 | 1949.5 | 1946.4 | 1937.1 | 1915.4 | 1903.0 | 1896.8 | 1878.2 |
| 25°   | 1927.8 | 1903.0 | 1887.5 | 1869.0 | 1841.1 | 1834.9 | 1825.6 | 1803.9 | 1797.7 | 1788.4 | 1772.9 |
| 27.5° | 1828.7 | 1797.7 | 1776.0 | 1757.4 | 1732.6 | 1729.5 | 1710.9 | 1695.4 | 1683.0 | 1676.8 | 1664.4 |
| 30°   | 1714.0 | 1679.9 | 1664.4 | 1639.6 | 1621.0 | 1614.8 | 1599.3 | 1577.6 | 1568.3 | 1562.1 | 1552.8 |
| 32.5° | 1586.9 | 1559.0 | 1543.5 | 1521.8 | 1497.0 | 1500.1 | 1481.5 | 1462.9 | 1456.7 | 1450.5 | 1441.2 |
| 35°   | 1462.9 | 1435.0 | 1416.4 | 1397.8 | 1382.3 | 1376.1 | 1363.7 | 1348.2 | 1339.0 | 1335.9 | 1329.7 |
| 37.5° | 1326.6 | 1304.9 | 1289.4 | 1270.8 | 1258.4 | 1252.2 | 1246.0 | 1230.5 | 1224.3 | 1224.3 | 1211.9 |
| 40°   | 1193.3 | 1174.7 | 1162.3 | 1153.0 | 1137.5 | 1134.4 | 1128.2 | 1118.9 | 1115.8 | 1112.7 | 1103.4 |
| 42.5° | 1072.4 | 1047.6 | 1038.3 | 1032.1 | 1022.8 | 1016.6 | 1013.5 | 1007.3 | 1004.2 | 1001.1 | 991.8  |
| 45°   | 957.7  | 936.0  | 926.7  | 920.5  | 911.2  | 908.1  | 905.0  | 895.7  | 889.5  | 883.3  | 880.2  |
| 47.5° | 846.1  | 830.6  | 827.5  | 812.0  | 805.8  | 799.7  | 793.5  | 787.3  | 784.2  | 781.1  | 768.7  |
| 50°   | 750.1  | 740.8  | 725.3  | 716.0  | 709.8  | 706.7  | 694.3  | 685.0  | 681.9  | 678.8  | 669.5  |
| 52.5° | 663.3  | 650.9  | 641.6  | 626.1  | 623.0  | 616.8  | 610.6  | 598.2  | 592.0  | 588.9  | 579.6  |
| 55°   | 585.8  | 576.5  | 564.1  | 551.7  | 542.4  | 539.3  | 530.0  | 517.6  | 511.4  | 505.2  | 499.0  |
| 57.5° | 520.7  | 505.2  | 492.8  | 480.4  | 474.2  | 464.9  | 455.6  | 449.4  | 440.1  | 430.8  | 421.5  |
| 60°   | 458.7  | 446.3  | 430.8  | 418.4  | 412.2  | 406.0  | 393.6  | 384.3  | 375.0  | 365.7  | 356.4  |
| 62.5° | 399.8  | 387.4  | 371.9  | 359.5  | 353.3  | 347.1  | 334.7  | 325.4  | 316.1  | 306.8  | 294.4  |
| 65°   | 347.1  | 334.7  | 322.3  | 309.9  | 303.7  | 297.5  | 285.1  | 272.7  | 263.5  | 254.2  | 241.8  |
| 67.5° | 303.7  | 288.2  | 275.8  | 263.5  | 257.3  | 251.1  | 238.7  | 229.4  | 217.0  | 207.7  | 195.3  |
| 70°   | 257.3  | 244.9  | 235.6  | 223.2  | 217.0  | 210.8  | 198.4  | 186.0  | 176.7  | 167.4  | 155.0  |
| 72.5° | 217.0  | 201.5  | 192.2  | 179.8  | 173.6  | 170.5  | 158.1  | 148.8  | 139.5  | 127.1  | 117.8  |
| 75°   | 173.6  | 161.2  | 148.8  | 139.5  | 133.3  | 130.2  | 117.8  | 108.5  | 99.2   | 89.9   | 80.6   |
| 77.5° | 133.3  | 124.0  | 111.6  | 102.3  | 96.1   | 93.0   | 80.6   | 71.3   | 62.0   | 55.8   | 46.5   |
| 80°   | 99.2   | 86.8   | 80.6   | 71.3   | 68.2   | 62.0   | 55.8   | 46.5   | 40.3   | 31.0   | 24.8   |
| 82.5° | 68.2   | 58.9   | 52.7   | 46.5   | 43.4   | 40.3   | 34.1   | 27.9   | 21.7   | 18.6   | 15.5   |
| 85°   | 37.2   | 31.0   | 27.9   | 24.8   | 21.7   | 21.7   | 18.6   | 15.5   | 12.4   | 9.3    | 6.2    |
| 87.5° | 12.4   | 9.3    | 9.3    | 9.3    | 9.3    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    |
| 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°    | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 |
| 2.5°  | 2383.5 | 2383.5 | 2383.5 | 2380.4 | 2380.4 | 2380.4 | 2377.3 | 2389.7 | 2377.3 | 2374.2 | 2383.5 |
| 5°    | 2380.4 | 2374.2 | 2374.2 | 2374.2 | 2374.2 | 2371.1 | 2368.0 | 2374.2 | 2364.9 | 2361.8 | 2361.8 |
| 7.5°  | 2361.8 | 2358.7 | 2358.7 | 2355.6 | 2352.5 | 2349.4 | 2346.3 | 2349.4 | 2340.1 | 2337.0 | 2337.0 |
| 10°   | 2364.9 | 2358.7 | 2358.7 | 2349.4 | 2343.2 | 2333.9 | 2324.6 | 2327.7 | 2315.3 | 2306.0 | 2306.0 |
| 12.5° | 2327.7 | 2312.2 | 2302.9 | 2293.6 | 2287.4 | 2284.3 | 2271.9 | 2278.1 | 2265.7 | 2262.6 | 2262.6 |
| 15°   | 2244.0 | 2225.4 | 2209.9 | 2203.7 | 2203.7 | 2197.5 | 2188.2 | 2200.6 | 2194.4 | 2197.5 | 2213.0 |
| 17.5° | 2113.8 | 2104.5 | 2095.2 | 2092.1 | 2095.2 | 2101.4 | 2107.6 | 2126.2 | 2126.2 | 2135.5 | 2151.0 |
| 20°   | 1999.1 | 1992.9 | 1999.1 | 1999.1 | 2002.2 | 2014.6 | 2027.0 | 2042.5 | 2048.7 | 2058.0 | 2079.7 |
| 22.5° | 1887.5 | 1887.5 | 1893.7 | 1903.0 | 1899.9 | 1921.6 | 1924.7 | 1952.6 | 1952.6 | 1971.2 | 1989.8 |
| 25°   | 1779.1 | 1779.1 | 1785.3 | 1788.4 | 1794.6 | 1807.0 | 1819.4 | 1841.1 | 1847.3 | 1865.9 | 1881.3 |
| 27.5° | 1673.7 | 1670.6 | 1670.6 | 1673.7 | 1679.9 | 1695.4 | 1701.6 | 1726.4 | 1735.7 | 1748.1 | 1763.6 |
| 30°   | 1555.9 | 1552.8 | 1559.0 | 1565.2 | 1562.1 | 1577.6 | 1586.9 | 1605.5 | 1611.7 | 1624.1 | 1636.5 |
| 32.5° | 1444.3 | 1444.3 | 1444.3 | 1450.5 | 1450.5 | 1462.9 | 1462.9 | 1484.6 | 1484.6 | 1493.9 | 1506.3 |
| 35°   | 1329.7 | 1329.7 | 1332.8 | 1335.9 | 1339.0 | 1342.0 | 1345.1 | 1357.5 | 1360.6 | 1363.7 | 1369.9 |
| 37.5° | 1221.2 | 1218.1 | 1221.2 | 1221.2 | 1215.0 | 1227.4 | 1227.4 | 1239.8 | 1230.5 | 1239.8 | 1242.9 |
| 40°   | 1109.6 | 1109.6 | 1106.5 | 1106.5 | 1106.5 | 1112.7 | 1106.5 | 1115.8 | 1109.6 | 1115.8 | 1112.7 |
| 42.5° | 994.9  | 994.9  | 988.7  | 994.9  | 991.8  | 991.8  | 991.8  | 998.0  | 988.7  | 994.9  | 998.0  |
| 45°   | 880.2  | 877.1  | 877.1  | 874.0  | 874.0  | 874.0  | 877.1  | 877.1  | 874.0  | 880.2  | 880.2  |
| 47.5° | 768.7  | 765.6  | 765.6  | 765.6  | 765.6  | 768.7  | 759.4  | 765.6  | 759.4  | 759.4  | 759.4  |
| 50°   | 672.6  | 669.5  | 666.4  | 663.3  | 660.2  | 660.2  | 657.1  | 657.1  | 650.9  | 647.8  | 644.7  |
| 52.5° | 579.6  | 576.5  | 570.3  | 570.3  | 567.2  | 564.1  | 554.8  | 554.8  | 545.5  | 542.4  | 542.4  |
| 55°   | 495.9  | 486.6  | 483.5  | 477.3  | 477.3  | 471.1  | 464.9  | 458.7  | 449.4  | 443.2  | 443.2  |
| 57.5° | 418.4  | 409.1  | 402.9  | 399.8  | 396.7  | 390.5  | 378.1  | 375.0  | 362.6  | 359.5  | 356.4  |
| 60°   | 350.2  | 340.9  | 331.6  | 325.4  | 322.3  | 313.0  | 300.6  | 294.4  | 288.2  | 278.9  | 269.6  |
| 62.5° | 285.1  | 275.8  | 263.5  | 260.4  | 254.2  | 244.9  | 235.6  | 226.3  | 220.1  | 210.8  | 204.6  |
| 65°   | 229.4  | 220.1  | 210.8  | 204.6  | 198.4  | 189.1  | 179.8  | 170.5  | 164.3  | 161.2  | 158.1  |
| 67.5° | 186.0  | 173.6  | 164.3  | 161.2  | 155.0  | 148.8  | 139.5  | 136.4  | 130.2  | 130.2  | 130.2  |
| 70°   | 145.7  | 136.4  | 127.1  | 124.0  | 120.9  | 114.7  | 108.5  | 108.5  | 108.5  | 108.5  | 108.5  |
| 72.5° | 108.5  | 102.3  | 93.0   | 89.9   | 86.8   | 83.7   | 77.5   | 80.6   | 77.5   | 77.5   | 77.5   |
| 75°   | 68.2   | 62.0   | 55.8   | 52.7   | 49.6   | 46.5   | 43.4   | 40.3   | 37.2   | 34.1   | 34.1   |
| 77.5° | 37.2   | 31.0   | 27.9   | 24.8   | 24.8   | 21.7   | 18.6   | 18.6   | 15.5   | 15.5   | 15.5   |
| 80°   | 21.7   | 18.6   | 15.5   | 12.4   | 12.4   | 9.3    | 9.3    | 9.3    | 9.3    | 6.2    | 6.2    |
| 82.5° | 12.4   | 9.3    | 6.2    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 85°   | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 0.0    |
| 87.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 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: P252411

CATALOG NUMBER: LD6B50D010TE EU6B30509050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 | 2386.6 |
| 2.5°  | 2368.0 | 2377.3 | 2368.0 | 2377.3 | 2377.3 | 2377.3 | 2377.3 | 2368.0 |
| 5°    | 2352.5 | 2358.7 | 2349.4 | 2355.6 | 2358.7 | 2355.6 | 2355.6 | 2346.3 |
| 7.5°  | 2324.6 | 2330.8 | 2321.5 | 2330.8 | 2333.9 | 2330.8 | 2327.7 | 2321.5 |
| 10°   | 2296.7 | 2299.8 | 2290.5 | 2296.7 | 2302.9 | 2302.9 | 2299.8 | 2290.5 |
| 12.5° | 2253.3 | 2262.6 | 2253.3 | 2259.5 | 2265.7 | 2268.8 | 2268.8 | 2259.5 |
| 15°   | 2203.7 | 2219.2 | 2213.0 | 2222.3 | 2231.6 | 2234.7 | 2234.7 | 2231.6 |
| 17.5° | 2154.1 | 2169.6 | 2160.3 | 2175.8 | 2185.1 | 2191.3 | 2194.4 | 2188.2 |
| 20°   | 2082.8 | 2101.4 | 2095.2 | 2107.6 | 2120.0 | 2129.3 | 2129.3 | 2120.0 |
| 22.5° | 1989.8 | 2014.6 | 2011.5 | 2020.8 | 2036.3 | 2039.4 | 2045.6 | 2039.4 |
| 25°   | 1887.5 | 1906.1 | 1903.0 | 1912.3 | 1930.9 | 1930.9 | 1934.0 | 1934.0 |
| 27.5° | 1769.8 | 1788.4 | 1785.3 | 1791.5 | 1803.9 | 1807.0 | 1810.1 | 1803.9 |
| 30°   | 1642.7 | 1652.0 | 1652.0 | 1661.3 | 1670.6 | 1673.7 | 1673.7 | 1664.4 |
| 32.5° | 1503.2 | 1515.6 | 1521.8 | 1518.7 | 1528.0 | 1534.2 | 1531.1 | 1531.1 |
| 35°   | 1376.1 | 1379.2 | 1382.3 | 1385.4 | 1388.5 | 1394.7 | 1388.5 | 1385.4 |
| 37.5° | 1239.8 | 1249.1 | 1242.9 | 1249.1 | 1255.3 | 1252.2 | 1249.1 | 1249.1 |
| 40°   | 1115.8 | 1118.9 | 1112.7 | 1118.9 | 1122.0 | 1122.0 | 1122.0 | 1115.8 |
| 42.5° | 991.8  | 998.0  | 991.8  | 998.0  | 998.0  | 998.0  | 998.0  | 994.9  |
| 45°   | 867.8  | 874.0  | 874.0  | 877.1  | 877.1  | 874.0  | 874.0  | 874.0  |
| 47.5° | 753.2  | 759.4  | 753.2  | 759.4  | 762.5  | 756.3  | 756.3  | 756.3  |
| 50°   | 644.7  | 641.6  | 641.6  | 644.7  | 644.7  | 644.7  | 644.7  | 641.6  |
| 52.5° | 533.1  | 536.2  | 536.2  | 536.2  | 539.3  | 536.2  | 539.3  | 539.3  |
| 55°   | 437.0  | 437.0  | 437.0  | 440.1  | 437.0  | 437.0  | 440.1  | 443.2  |
| 57.5° | 350.2  | 347.1  | 344.0  | 344.0  | 347.1  | 344.0  | 344.0  | 344.0  |
| 60°   | 269.6  | 266.6  | 263.5  | 263.5  | 263.5  | 263.5  | 263.5  | 260.4  |
| 62.5° | 201.5  | 201.5  | 201.5  | 204.6  | 204.6  | 204.6  | 204.6  | 207.7  |
| 65°   | 161.2  | 161.2  | 161.2  | 161.2  | 161.2  | 161.2  | 161.2  | 164.3  |
| 67.5° | 130.2  | 130.2  | 130.2  | 133.3  | 133.3  | 133.3  | 133.3  | 133.3  |
| 70°   | 108.5  | 108.5  | 111.6  | 108.5  | 111.6  | 111.6  | 111.6  | 111.6  |
| 72.5° | 74.4   | 74.4   | 74.4   | 74.4   | 74.4   | 71.3   | 74.4   | 71.3   |
| 75°   | 31.0   | 31.0   | 31.0   | 31.0   | 31.0   | 31.0   | 31.0   | 27.9   |
| 77.5° | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   |
| 80°   | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 82.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 0.0    | 0.0    | 0.0    |
| 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)