

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P858551

Luminaire Tested: **LD4C25W2N2050D010 4LBSWNL\_4000K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251556)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 11/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25W2N2050D010 4LBSWNLI\_4000K  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, W2N2050 LEDS  
AND 4LBSWNLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

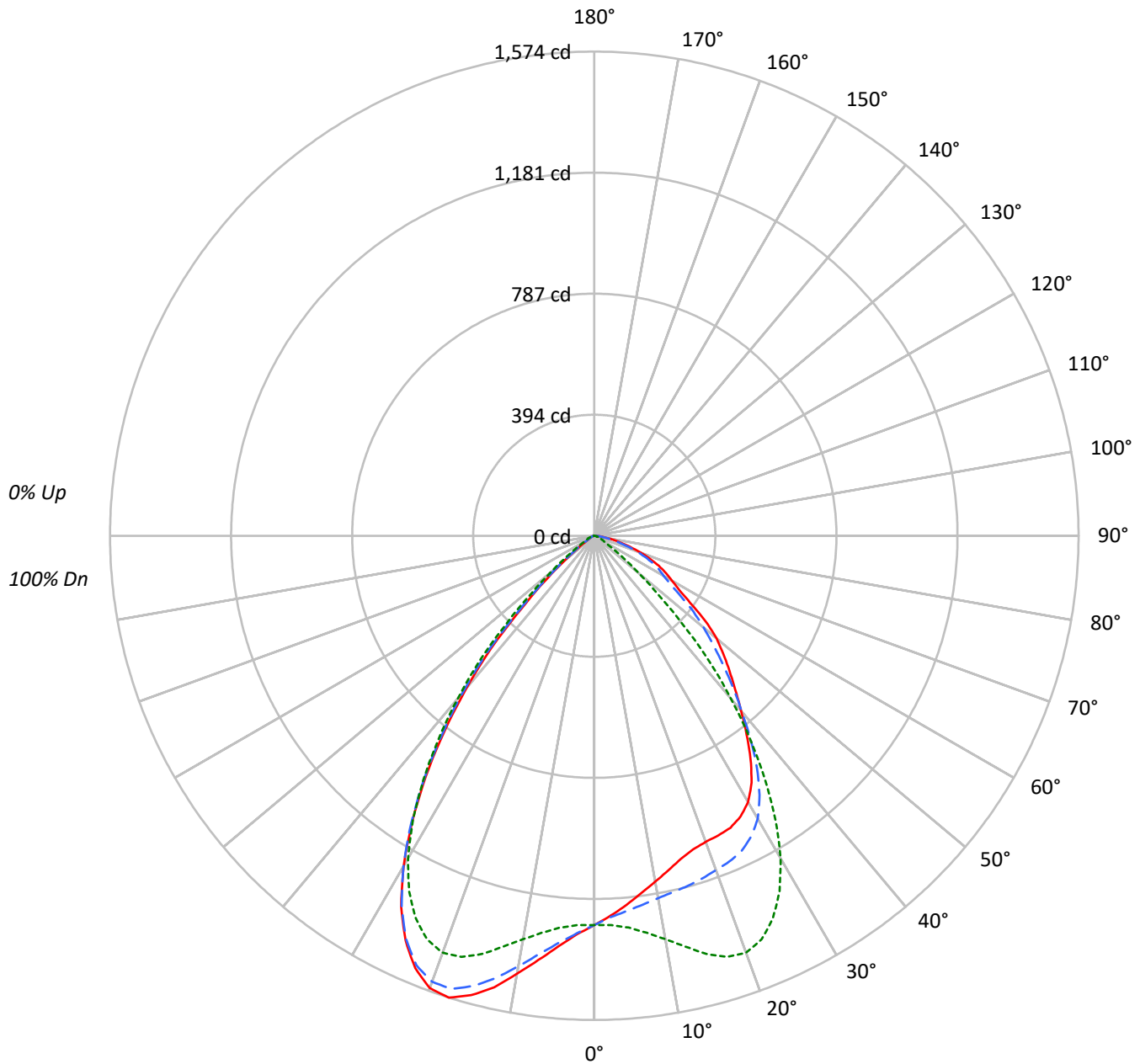
Lumens per Lamp: N/A  
Luminaire Lumens: 2335.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.5  
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: P858551

CATALOG NUMBER: LD4C25W2N2050D010 4LBSWNL1\_4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P858551

CATALOG NUMBER: LD4C25W2N2050D010 4LBSWNL\_4000K

**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 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 80  |    |    |   |  |  |  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |
| 4   | 91  | 81  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |   |  |  |  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    |   |  |  |  |
| 6   | 79  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |   |  |  |  |
| 7   | 75  | 63  | 56  | 51  | 73  | 62  | 55  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 50  | 48  |    |    |   |  |  |  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |   |  |  |  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |  |  |  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |   |  |  |  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 155447 | 155447 | 155447 |
| 5°  | 148505 | 157680 | 165203 |
| 10° | 142388 | 166090 | 180312 |
| 15° | 138240 | 179003 | 196657 |
| 20° | 138425 | 188537 | 204513 |
| 25° | 141966 | 186075 | 196824 |
| 30° | 141774 | 171763 | 175749 |
| 35° | 132789 | 145177 | 143197 |
| 40° | 118949 | 110738 | 103329 |
| 45° | 107911 | 70313  | 57682  |
| 50° | 99137  | 35664  | 24636  |
| 55° | 81392  | 15936  | 8139   |
| 60° | 71427  | 8944   | 4472   |
| 65° | 67209  | 6715   | 3372   |
| 70° | 57544  | 5352   | 2981   |
| 75° | 43907  | 3940   | 2373   |
| 80° | 31554  | 2335   | 1203   |
| 85° | 23258  | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.9  | 5.3       |
| 10°-20°   | 383.1  | 16.4      |
| 20°-30°   | 592.6  | 25.4      |
| 30°-40°   | 583.9  | 25.0      |
| 40°-50°   | 358.6  | 15.4      |
| 50°-60°   | 159.4  | 6.8       |
| 60°-70°   | 89.0   | 3.8       |
| 70°-80°   | 38.6   | 1.7       |
| 80°-90°   | 6.9    | 0.3       |
| 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°    | 1098.6 | 47.0      |
| 0°-40°    | 1682.5 | 72.1      |
| 0°-60°    | 2200.5 | 94.2      |
| 0°-90°    | 2335.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2335.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1265 | 1265 | 1265 | 1265 | 1265 |      |
| 5°  | 1204 | 1224 | 1279 | 1328 | 1340 | 113  |
| 15° | 1087 | 1178 | 1407 | 1515 | 1546 | 308  |
| 25° | 1047 | 1132 | 1373 | 1447 | 1452 | 481  |
| 35° | 885  | 922  | 968  | 965  | 955  | 550  |
| 45° | 621  | 590  | 405  | 354  | 332  | 481  |
| 55° | 380  | 344  | 74   | 43   | 38   | 349  |
| 65° | 231  | 208  | 23   | 13   | 12   | 226  |
| 75° | 92   | 79   | 8    | 5    | 5    | 102  |
| 85° | 16   | 13   | 0    | 0    | 0    | 20   |
| 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°    | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 |
| 2.5°  | 1235.6 | 1235.6 | 1235.6 | 1235.6 | 1238.9 | 1234.0 | 1238.9 | 1238.9 | 1243.9 | 1245.5 | 1240.6 |
| 5°    | 1204.2 | 1202.6 | 1204.2 | 1204.2 | 1207.5 | 1205.9 | 1210.8 | 1214.1 | 1220.8 | 1224.1 | 1224.1 |
| 7.5°  | 1171.2 | 1171.2 | 1171.2 | 1174.5 | 1179.4 | 1177.8 | 1182.7 | 1187.7 | 1197.6 | 1204.2 | 1209.2 |
| 10°   | 1141.4 | 1139.8 | 1144.7 | 1146.4 | 1151.3 | 1151.3 | 1159.6 | 1164.6 | 1176.1 | 1189.4 | 1196.0 |
| 12.5° | 1113.3 | 1111.7 | 1115.0 | 1120.0 | 1128.2 | 1128.2 | 1134.8 | 1143.1 | 1159.6 | 1174.5 | 1186.0 |
| 15°   | 1086.9 | 1088.6 | 1093.5 | 1096.8 | 1106.7 | 1106.7 | 1115.0 | 1124.9 | 1143.1 | 1161.3 | 1177.8 |
| 17.5° | 1068.7 | 1070.4 | 1073.7 | 1078.6 | 1088.6 | 1088.6 | 1096.8 | 1108.4 | 1128.2 | 1148.0 | 1167.9 |
| 20°   | 1058.8 | 1060.5 | 1063.8 | 1068.7 | 1077.0 | 1078.6 | 1085.3 | 1098.5 | 1116.6 | 1138.1 | 1156.3 |
| 22.5° | 1053.9 | 1057.2 | 1060.5 | 1063.8 | 1072.0 | 1072.0 | 1080.3 | 1090.2 | 1108.4 | 1129.9 | 1146.4 |
| 25°   | 1047.3 | 1050.6 | 1052.2 | 1057.2 | 1063.8 | 1063.8 | 1068.7 | 1080.3 | 1096.8 | 1115.0 | 1131.5 |
| 27.5° | 1029.1 | 1032.4 | 1034.1 | 1039.0 | 1045.6 | 1044.0 | 1050.6 | 1058.8 | 1073.7 | 1090.2 | 1103.4 |
| 30°   | 999.4  | 1001.0 | 1004.3 | 1006.0 | 1010.9 | 1010.9 | 1015.9 | 1024.1 | 1034.1 | 1048.9 | 1062.1 |
| 32.5° | 951.5  | 954.8  | 956.5  | 958.1  | 963.1  | 961.4  | 963.1  | 968.0  | 977.9  | 991.1  | 999.4  |
| 35°   | 885.4  | 892.0  | 892.0  | 895.3  | 897.0  | 895.3  | 895.3  | 901.9  | 906.9  | 916.8  | 921.8  |
| 37.5° | 812.7  | 817.7  | 816.0  | 819.3  | 821.0  | 816.0  | 819.3  | 821.0  | 827.6  | 832.5  | 834.2  |
| 40°   | 741.7  | 743.3  | 743.3  | 743.3  | 743.3  | 741.7  | 743.3  | 745.0  | 749.9  | 749.9  | 745.0  |
| 42.5° | 677.3  | 678.9  | 678.9  | 675.6  | 678.9  | 677.3  | 677.3  | 677.3  | 677.3  | 670.7  | 665.7  |
| 45°   | 621.1  | 622.8  | 622.8  | 621.1  | 621.1  | 617.8  | 616.2  | 614.5  | 609.5  | 601.3  | 589.7  |
| 47.5° | 568.2  | 571.5  | 573.2  | 569.9  | 568.2  | 564.9  | 564.9  | 555.0  | 548.4  | 538.5  | 522.0  |
| 50°   | 518.7  | 522.0  | 522.0  | 518.7  | 518.7  | 513.7  | 508.8  | 505.4  | 495.5  | 484.0  | 464.2  |
| 52.5° | 455.9  | 460.9  | 460.9  | 459.2  | 459.2  | 452.6  | 450.9  | 444.3  | 436.1  | 422.9  | 406.4  |
| 55°   | 380.0  | 386.6  | 384.9  | 383.3  | 380.0  | 380.0  | 380.0  | 375.0  | 370.0  | 360.1  | 343.6  |
| 57.5° | 325.4  | 327.1  | 327.1  | 325.4  | 325.4  | 322.1  | 322.1  | 317.2  | 315.5  | 305.6  | 292.4  |
| 60°   | 290.7  | 290.7  | 292.4  | 290.7  | 289.1  | 287.4  | 285.8  | 282.5  | 277.5  | 270.9  | 261.0  |
| 62.5° | 262.6  | 264.3  | 264.3  | 262.6  | 261.0  | 259.3  | 257.7  | 254.4  | 251.1  | 246.1  | 236.2  |
| 65°   | 231.2  | 234.5  | 232.9  | 231.2  | 229.6  | 227.9  | 227.9  | 224.6  | 221.3  | 218.0  | 208.1  |
| 67.5° | 196.5  | 198.2  | 199.8  | 196.5  | 196.5  | 194.9  | 194.9  | 191.6  | 189.9  | 183.3  | 176.7  |
| 70°   | 160.2  | 161.9  | 161.9  | 160.2  | 160.2  | 158.6  | 158.6  | 156.9  | 155.3  | 150.3  | 143.7  |
| 72.5° | 125.6  | 127.2  | 125.6  | 123.9  | 123.9  | 123.9  | 122.3  | 120.6  | 119.0  | 115.6  | 110.7  |
| 75°   | 92.5   | 92.5   | 94.2   | 92.5   | 90.9   | 90.9   | 89.2   | 89.2   | 85.9   | 84.3   | 79.3   |
| 77.5° | 66.1   | 67.7   | 66.1   | 66.1   | 64.4   | 62.8   | 62.8   | 61.1   | 61.1   | 59.5   | 56.2   |
| 80°   | 44.6   | 44.6   | 46.3   | 44.6   | 43.0   | 44.6   | 43.0   | 41.3   | 41.3   | 39.7   | 36.4   |
| 82.5° | 28.1   | 29.7   | 28.1   | 28.1   | 28.1   | 28.1   | 28.1   | 26.4   | 26.4   | 24.8   | 23.1   |
| 85°   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 14.9   | 14.9   | 14.9   | 13.2   |
| 87.5° | 8.3    | 8.3    | 6.6    | 6.6    | 8.3    | 8.3    | 8.3    | 6.6    | 6.6    | 6.6    | 6.6    |
| 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°    | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 |
| 2.5°  | 1247.2 | 1248.8 | 1252.1 | 1257.1 | 1257.1 | 1253.8 | 1262.0 | 1262.0 | 1265.3 | 1267.0 | 1273.6 |
| 5°    | 1234.0 | 1237.3 | 1243.9 | 1252.1 | 1253.8 | 1252.1 | 1263.7 | 1268.7 | 1273.6 | 1278.6 | 1288.5 |
| 7.5°  | 1222.4 | 1229.0 | 1240.6 | 1252.1 | 1257.1 | 1257.1 | 1275.3 | 1281.9 | 1291.8 | 1301.7 | 1313.2 |
| 10°   | 1215.8 | 1225.7 | 1242.2 | 1260.4 | 1265.3 | 1270.3 | 1291.8 | 1305.0 | 1318.2 | 1331.4 | 1347.9 |
| 12.5° | 1207.5 | 1225.7 | 1247.2 | 1270.3 | 1280.2 | 1286.8 | 1316.5 | 1333.0 | 1351.2 | 1367.7 | 1389.2 |
| 15°   | 1205.9 | 1227.4 | 1255.4 | 1285.2 | 1298.4 | 1308.3 | 1341.3 | 1364.4 | 1385.9 | 1407.4 | 1428.9 |
| 17.5° | 1199.3 | 1225.7 | 1260.4 | 1293.4 | 1309.9 | 1323.1 | 1361.1 | 1389.2 | 1414.0 | 1435.5 | 1460.3 |
| 20°   | 1191.0 | 1220.8 | 1258.7 | 1295.1 | 1313.2 | 1326.4 | 1367.7 | 1394.2 | 1422.2 | 1442.1 | 1465.2 |
| 22.5° | 1179.4 | 1209.2 | 1247.2 | 1283.5 | 1300.0 | 1311.6 | 1352.8 | 1376.0 | 1400.8 | 1420.6 | 1442.1 |
| 25°   | 1159.6 | 1187.7 | 1220.8 | 1250.5 | 1267.0 | 1276.9 | 1313.2 | 1334.7 | 1352.8 | 1372.7 | 1392.5 |
| 27.5° | 1131.5 | 1153.0 | 1181.1 | 1202.6 | 1212.5 | 1222.4 | 1252.1 | 1270.3 | 1286.8 | 1303.3 | 1316.5 |
| 30°   | 1081.9 | 1098.5 | 1118.3 | 1136.5 | 1146.4 | 1148.0 | 1176.1 | 1186.0 | 1199.3 | 1210.8 | 1220.8 |
| 32.5° | 1015.9 | 1029.1 | 1040.7 | 1050.6 | 1057.2 | 1058.8 | 1080.3 | 1083.6 | 1096.8 | 1096.8 | 1111.7 |
| 35°   | 931.7  | 938.3  | 946.5  | 946.5  | 951.5  | 946.5  | 961.4  | 964.7  | 966.4  | 968.0  | 979.6  |
| 37.5° | 835.8  | 839.1  | 844.1  | 834.2  | 834.2  | 829.2  | 834.2  | 837.5  | 830.9  | 830.9  | 839.1  |
| 40°   | 745.0  | 738.4  | 731.8  | 721.9  | 716.9  | 707.0  | 707.0  | 698.8  | 693.8  | 690.5  | 692.2  |
| 42.5° | 657.5  | 642.6  | 627.7  | 606.2  | 596.3  | 586.4  | 576.5  | 564.9  | 561.6  | 553.4  | 548.4  |
| 45°   | 573.2  | 551.7  | 531.9  | 497.2  | 477.4  | 467.5  | 446.0  | 422.9  | 408.0  | 404.7  | 391.5  |
| 47.5° | 502.1  | 470.8  | 437.7  | 396.5  | 376.7  | 358.5  | 327.1  | 307.3  | 287.4  | 277.5  | 269.2  |
| 50°   | 439.4  | 411.3  | 368.4  | 323.8  | 299.0  | 280.8  | 246.1  | 223.0  | 201.5  | 186.6  | 176.7  |
| 52.5° | 384.9  | 353.5  | 313.9  | 262.6  | 237.9  | 218.0  | 180.0  | 153.6  | 135.5  | 120.6  | 109.0  |
| 55°   | 323.8  | 299.0  | 259.3  | 211.4  | 186.6  | 163.5  | 130.5  | 102.4  | 84.3   | 74.4   | 66.1   |
| 57.5° | 279.2  | 257.7  | 219.7  | 173.4  | 150.3  | 128.9  | 95.8   | 72.7   | 57.8   | 47.9   | 43.0   |
| 60°   | 249.4  | 229.6  | 196.5  | 152.0  | 130.5  | 110.7  | 79.3   | 57.8   | 44.6   | 36.4   | 33.0   |
| 62.5° | 224.6  | 204.8  | 175.1  | 133.8  | 115.6  | 95.8   | 67.7   | 47.9   | 36.4   | 29.7   | 24.8   |
| 65°   | 196.5  | 178.4  | 152.0  | 115.6  | 99.1   | 82.6   | 57.8   | 39.7   | 29.7   | 23.1   | 19.8   |
| 67.5° | 166.8  | 150.3  | 127.2  | 95.8   | 82.6   | 69.4   | 46.3   | 33.0   | 24.8   | 19.8   | 16.5   |
| 70°   | 135.5  | 122.3  | 100.8  | 77.7   | 66.1   | 54.5   | 38.0   | 26.4   | 18.2   | 14.9   | 13.2   |
| 72.5° | 104.1  | 92.5   | 77.7   | 59.5   | 49.6   | 41.3   | 28.1   | 19.8   | 14.9   | 11.6   | 9.9    |
| 75°   | 74.4   | 66.1   | 54.5   | 43.0   | 36.4   | 29.7   | 21.5   | 14.9   | 9.9    | 8.3    | 6.6    |
| 77.5° | 51.2   | 46.3   | 38.0   | 29.7   | 24.8   | 21.5   | 14.9   | 9.9    | 8.3    | 6.6    | 5.0    |
| 80°   | 33.0   | 29.7   | 24.8   | 18.2   | 14.9   | 13.2   | 8.3    | 6.6    | 5.0    | 3.3    | 3.3    |
| 82.5° | 19.8   | 18.2   | 14.9   | 9.9    | 8.3    | 6.6    | 5.0    | 3.3    | 3.3    | 1.7    | 1.7    |
| 85°   | 11.6   | 9.9    | 6.6    | 5.0    | 5.0    | 3.3    | 3.3    | 1.7    | 1.7    | 0.0    | 0.0    |
| 87.5° | 5.0    | 3.3    | 3.3    | 1.7    | 1.7    | 1.7    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 |
| 2.5°  | 1270.3 | 1278.6 | 1276.9 | 1281.9 | 1280.2 | 1280.2 | 1288.5 | 1285.2 | 1293.4 | 1293.4 | 1295.1 |
| 5°    | 1288.5 | 1300.0 | 1300.0 | 1308.3 | 1306.6 | 1309.9 | 1318.2 | 1318.2 | 1328.1 | 1331.4 | 1331.4 |
| 7.5°  | 1314.9 | 1329.7 | 1333.0 | 1341.3 | 1342.9 | 1349.5 | 1356.2 | 1357.8 | 1371.0 | 1374.3 | 1376.0 |
| 10°   | 1351.2 | 1369.4 | 1374.3 | 1382.6 | 1385.9 | 1392.5 | 1400.8 | 1404.1 | 1420.6 | 1422.2 | 1428.9 |
| 12.5° | 1395.8 | 1415.6 | 1420.6 | 1430.5 | 1432.2 | 1440.4 | 1452.0 | 1455.3 | 1471.8 | 1476.8 | 1481.7 |
| 15°   | 1438.8 | 1456.9 | 1465.2 | 1475.1 | 1476.8 | 1486.7 | 1496.6 | 1499.9 | 1514.8 | 1521.4 | 1526.4 |
| 17.5° | 1468.5 | 1490.0 | 1495.0 | 1508.2 | 1508.2 | 1516.4 | 1526.4 | 1529.7 | 1544.5 | 1549.5 | 1552.8 |
| 20°   | 1475.1 | 1495.0 | 1501.6 | 1511.5 | 1513.1 | 1518.1 | 1526.4 | 1529.7 | 1542.9 | 1544.5 | 1549.5 |
| 22.5° | 1450.3 | 1470.2 | 1473.5 | 1483.4 | 1485.0 | 1490.0 | 1496.6 | 1495.0 | 1511.5 | 1509.8 | 1511.5 |
| 25°   | 1397.5 | 1415.6 | 1415.6 | 1427.2 | 1425.6 | 1430.5 | 1433.8 | 1432.2 | 1447.0 | 1447.0 | 1447.0 |
| 27.5° | 1321.5 | 1338.0 | 1339.6 | 1347.9 | 1342.9 | 1344.6 | 1347.9 | 1346.2 | 1356.2 | 1356.2 | 1356.2 |
| 30°   | 1227.4 | 1240.6 | 1235.6 | 1242.2 | 1238.9 | 1242.2 | 1238.9 | 1237.3 | 1240.6 | 1243.9 | 1242.2 |
| 32.5° | 1110.0 | 1120.0 | 1120.0 | 1121.6 | 1121.6 | 1111.7 | 1108.4 | 1108.4 | 1106.7 | 1105.1 | 1105.1 |
| 35°   | 974.6  | 982.9  | 979.6  | 979.6  | 977.9  | 968.0  | 963.1  | 959.8  | 964.7  | 954.8  | 961.4  |
| 37.5° | 835.8  | 837.5  | 832.5  | 830.9  | 822.6  | 822.6  | 814.4  | 807.7  | 811.0  | 809.4  | 802.8  |
| 40°   | 683.9  | 690.5  | 680.6  | 677.3  | 682.2  | 675.6  | 667.4  | 659.1  | 665.7  | 657.5  | 660.8  |
| 42.5° | 535.2  | 533.5  | 530.2  | 530.2  | 530.2  | 520.3  | 518.7  | 517.0  | 518.7  | 512.1  | 507.1  |
| 45°   | 386.6  | 381.6  | 376.7  | 376.7  | 370.0  | 366.7  | 366.7  | 361.8  | 353.5  | 353.5  | 343.6  |
| 47.5° | 261.0  | 249.4  | 246.1  | 244.5  | 241.2  | 241.2  | 237.9  | 234.5  | 232.9  | 224.6  | 224.6  |
| 50°   | 170.1  | 158.6  | 155.3  | 153.6  | 155.3  | 152.0  | 148.7  | 145.4  | 142.1  | 140.4  | 137.1  |
| 52.5° | 102.4  | 97.5   | 94.2   | 92.5   | 89.2   | 87.6   | 85.9   | 82.6   | 81.0   | 81.0   | 79.3   |
| 55°   | 61.1   | 56.2   | 49.6   | 49.6   | 49.6   | 47.9   | 46.3   | 44.6   | 43.0   | 43.0   | 41.3   |
| 57.5° | 38.0   | 34.7   | 31.4   | 29.7   | 29.7   | 29.7   | 28.1   | 28.1   | 28.1   | 28.1   | 26.4   |
| 60°   | 28.1   | 24.8   | 23.1   | 23.1   | 23.1   | 21.5   | 21.5   | 21.5   | 21.5   | 19.8   | 19.8   |
| 62.5° | 21.5   | 19.8   | 18.2   | 18.2   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 14.9   |
| 65°   | 18.2   | 14.9   | 14.9   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   |
| 67.5° | 13.2   | 11.6   | 11.6   | 11.6   | 11.6   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 70°   | 9.9    | 9.9    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    |
| 72.5° | 8.3    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 75°   | 6.6    | 6.6    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 77.5° | 5.0    | 5.0    | 5.0    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 80°   | 3.3    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 82.5° | 1.7    | 1.7    | 1.7    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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: P858551

CATALOG NUMBER: LD4C25W2N2050D010 4LBSWNL\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 | 1265.3 |
| 2.5°  | 1295.1 | 1303.3 | 1295.1 | 1295.1 | 1300.0 | 1298.4 | 1301.7 | 1296.7 |
| 5°    | 1333.0 | 1344.6 | 1336.3 | 1334.7 | 1342.9 | 1341.3 | 1342.9 | 1339.6 |
| 7.5°  | 1379.3 | 1390.9 | 1382.6 | 1382.6 | 1390.9 | 1389.2 | 1394.2 | 1390.9 |
| 10°   | 1432.2 | 1445.4 | 1433.8 | 1435.5 | 1447.0 | 1445.4 | 1445.4 | 1445.4 |
| 12.5° | 1486.7 | 1499.9 | 1493.3 | 1493.3 | 1501.6 | 1503.2 | 1504.9 | 1503.2 |
| 15°   | 1531.3 | 1544.5 | 1536.3 | 1536.3 | 1547.8 | 1546.2 | 1547.8 | 1546.2 |
| 17.5° | 1557.7 | 1570.9 | 1561.0 | 1561.0 | 1570.9 | 1570.9 | 1572.6 | 1574.2 |
| 20°   | 1551.1 | 1566.0 | 1557.7 | 1554.4 | 1566.0 | 1566.0 | 1564.3 | 1564.3 |
| 22.5° | 1513.1 | 1526.4 | 1519.7 | 1516.4 | 1524.7 | 1521.4 | 1519.7 | 1521.4 |
| 25°   | 1447.0 | 1460.3 | 1447.0 | 1447.0 | 1453.6 | 1452.0 | 1453.6 | 1452.0 |
| 27.5° | 1357.8 | 1367.7 | 1354.5 | 1352.8 | 1359.5 | 1356.2 | 1354.5 | 1359.5 |
| 30°   | 1238.9 | 1248.8 | 1242.2 | 1237.3 | 1245.5 | 1240.6 | 1237.3 | 1238.9 |
| 32.5° | 1103.4 | 1110.0 | 1106.7 | 1098.5 | 1103.4 | 1100.1 | 1098.5 | 1100.1 |
| 35°   | 954.8  | 963.1  | 949.9  | 948.2  | 956.5  | 949.9  | 946.5  | 954.8  |
| 37.5° | 801.1  | 811.0  | 799.5  | 801.1  | 796.2  | 797.8  | 794.5  | 799.5  |
| 40°   | 655.8  | 654.2  | 650.9  | 649.2  | 650.9  | 645.9  | 649.2  | 644.3  |
| 42.5° | 498.8  | 502.1  | 500.5  | 498.8  | 500.5  | 493.9  | 490.6  | 497.2  |
| 45°   | 346.9  | 345.3  | 342.0  | 338.6  | 338.6  | 337.0  | 337.0  | 332.0  |
| 47.5° | 223.0  | 221.3  | 214.7  | 216.4  | 219.7  | 216.4  | 211.4  | 218.0  |
| 50°   | 135.5  | 133.8  | 133.8  | 132.2  | 135.5  | 132.2  | 128.9  | 128.9  |
| 52.5° | 76.0   | 76.0   | 74.4   | 74.4   | 74.4   | 74.4   | 72.7   | 71.1   |
| 55°   | 41.3   | 39.7   | 39.7   | 39.7   | 38.0   | 38.0   | 38.0   | 38.0   |
| 57.5° | 26.4   | 26.4   | 26.4   | 26.4   | 26.4   | 26.4   | 24.8   | 24.8   |
| 60°   | 19.8   | 19.8   | 19.8   | 19.8   | 18.2   | 19.8   | 18.2   | 18.2   |
| 62.5° | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   |
| 65°   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   |
| 67.5° | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 70°   | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    |
| 72.5° | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 75°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 77.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 80°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)