

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: P858548

Luminaire Tested: **LD4C25W2N2050D010 4LBSWNL\_2700K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858548  
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\_2700K  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, W2N2050 LEDS  
AND 4LBSWNLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

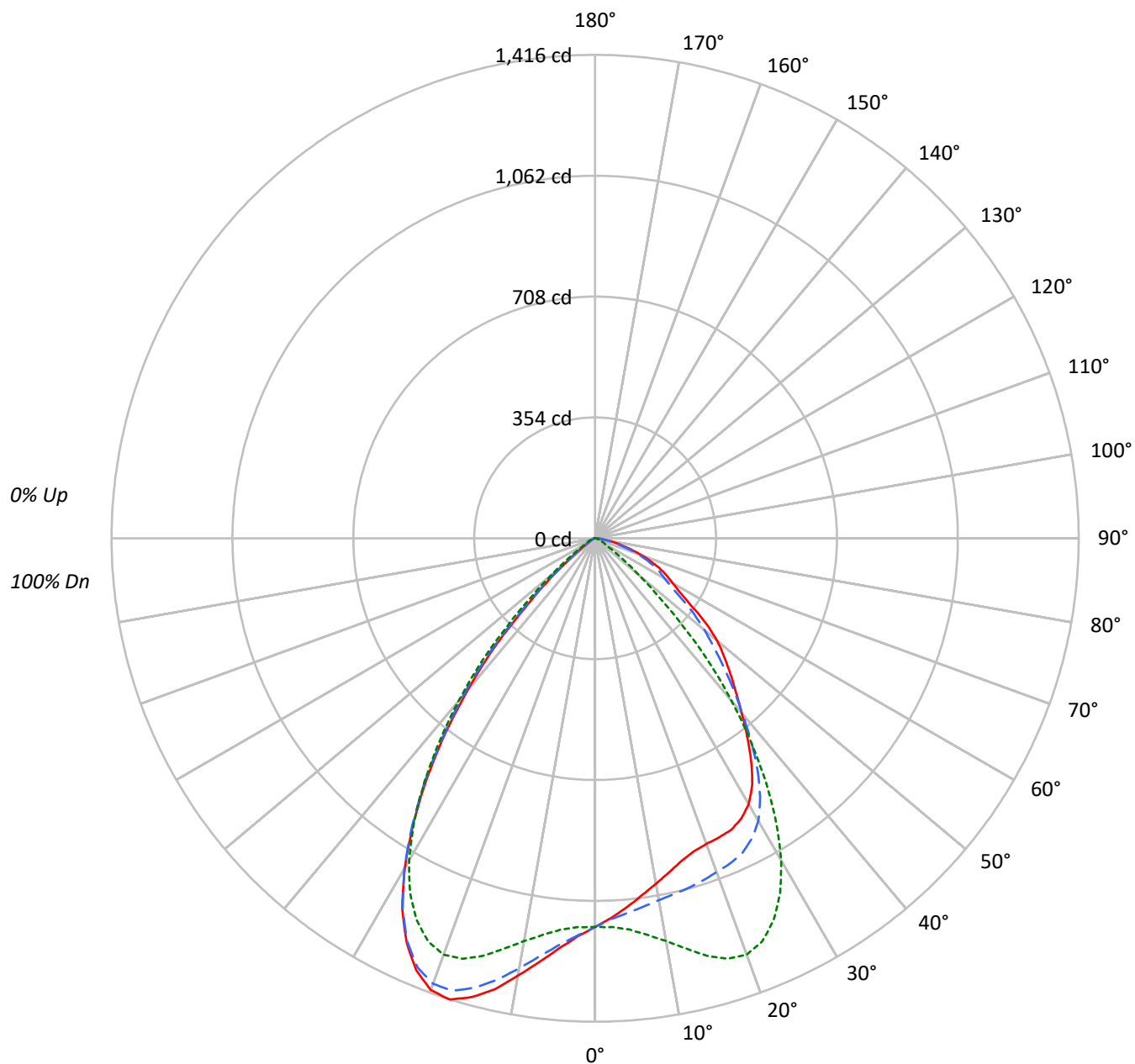
Lumens per Lamp: N/A  
Luminaire Lumens: 2101.0 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P858548

CATALOG NUMBER: LD4C25W2N2050D010 4LBSWNL1\_2700K

### 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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 112 | 108 | 105 | 102 |  | 109 | 106 | 103 | 101 |  | 102 | 100 | 98  |  | 98  | 96  | 95  |  | 95  | 93  | 92  |
| 2   | 104 | 98  | 93  | 89  |  | 102 | 96  | 92  | 88  |  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  | 85  | 82  |
| 3   | 97  | 89  | 83  | 78  |  | 95  | 88  | 82  | 77  |  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 77  | 74  |
| 4   | 91  | 81  | 75  | 69  |  | 89  | 80  | 74  | 69  |  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  |
| 5   | 85  | 75  | 67  | 62  |  | 83  | 74  | 67  | 62  |  | 72  | 66  | 61  |  | 70  | 65  | 60  |  | 68  | 64  | 60  |
| 6   | 79  | 69  | 61  | 56  |  | 78  | 68  | 61  | 56  |  | 66  | 60  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 54  |
| 7   | 75  | 63  | 56  | 51  |  | 73  | 62  | 55  | 51  |  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 58  | 53  | 50  |
| 8   | 70  | 58  | 51  | 46  |  | 69  | 58  | 51  | 46  |  | 57  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 45  |
| 9   | 66  | 54  | 47  | 42  |  | 65  | 54  | 47  | 42  |  | 53  | 46  | 42  |  | 52  | 46  | 42  |  | 51  | 46  | 42  |
| 10  | 62  | 51  | 44  | 39  |  | 61  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 47  | 42  | 39  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 139869 | 139869 | 139869 |
| 5°  | 133620 | 141870 | 148653 |
| 10° | 128117 | 149449 | 162236 |
| 15° | 124389 | 161070 | 176943 |
| 20° | 124554 | 169646 | 184027 |
| 25° | 127732 | 167436 | 177101 |
| 30° | 127560 | 154555 | 158130 |
| 35° | 119486 | 130629 | 128845 |
| 40° | 107017 | 99640  | 92969  |
| 45° | 97086  | 63259  | 51896  |
| 50° | 89199  | 32090  | 22152  |
| 55° | 73231  | 14329  | 7325   |
| 60° | 64277  | 8035   | 4030   |
| 65° | 60494  | 6046   | 3023   |
| 70° | 51797  | 4813   | 2694   |
| 75° | 39492  | 3560   | 2136   |
| 80° | 28370  | 2122   | 1061   |
| 85° | 20862  | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.6  | 5.3       |
| 10°-20°   | 344.7  | 16.4      |
| 20°-30°   | 533.3  | 25.4      |
| 30°-40°   | 525.4  | 25.0      |
| 40°-50°   | 322.6  | 15.4      |
| 50°-60°   | 143.5  | 6.8       |
| 60°-70°   | 80.1   | 3.8       |
| 70°-80°   | 34.7   | 1.7       |
| 80°-90°   | 6.2    | 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°    | 988.5  | 47.0      |
| 0°-40°    | 1513.9 | 72.1      |
| 0°-60°    | 1980.0 | 94.2      |
| 0°-90°    | 2101.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2101.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1138 | 1138 | 1138 | 1138 | 1138 |      |
| 5°  | 1084 | 1101 | 1150 | 1195 | 1205 | 102  |
| 15° | 978  | 1060 | 1266 | 1363 | 1391 | 277  |
| 25° | 942  | 1018 | 1235 | 1302 | 1306 | 432  |
| 35° | 797  | 829  | 871  | 868  | 859  | 495  |
| 45° | 559  | 531  | 364  | 318  | 299  | 433  |
| 55° | 342  | 309  | 67   | 39   | 34   | 314  |
| 65° | 208  | 187  | 21   | 12   | 10   | 204  |
| 75° | 83   | 71   | 8    | 4    | 4    | 92   |
| 85° | 15   | 12   | 0    | 0    | 0    | 18   |
| 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°    | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 |
| 2.5°  | 1111.8 | 1111.8 | 1111.8 | 1111.8 | 1114.7 | 1110.3 | 1114.7 | 1114.7 | 1119.2 | 1120.7 | 1116.2 |
| 5°    | 1083.5 | 1082.1 | 1083.5 | 1083.5 | 1086.5 | 1085.0 | 1089.5 | 1092.4 | 1098.4 | 1101.4 | 1101.4 |
| 7.5°  | 1053.8 | 1053.8 | 1053.8 | 1056.8 | 1061.2 | 1059.8 | 1064.2 | 1068.7 | 1077.6 | 1083.5 | 1088.0 |
| 10°   | 1027.0 | 1025.6 | 1030.0 | 1031.5 | 1035.9 | 1035.9 | 1043.4 | 1047.9 | 1058.2 | 1070.2 | 1076.1 |
| 12.5° | 1001.8 | 1000.3 | 1003.3 | 1007.8 | 1015.2 | 1015.2 | 1021.1 | 1028.5 | 1043.4 | 1056.8 | 1067.2 |
| 15°   | 978.0  | 979.5  | 983.9  | 986.9  | 995.8  | 995.8  | 1003.3 | 1012.2 | 1028.5 | 1044.9 | 1059.8 |
| 17.5° | 961.6  | 963.2  | 966.1  | 970.5  | 979.5  | 979.5  | 986.9  | 997.3  | 1015.2 | 1033.0 | 1050.8 |
| 20°   | 952.7  | 954.2  | 957.2  | 961.6  | 969.1  | 970.5  | 976.5  | 988.4  | 1004.7 | 1024.1 | 1040.4 |
| 22.5° | 948.3  | 951.3  | 954.2  | 957.2  | 964.6  | 964.6  | 972.1  | 981.0  | 997.3  | 1016.7 | 1031.5 |
| 25°   | 942.3  | 945.3  | 946.8  | 951.3  | 957.2  | 957.2  | 961.6  | 972.1  | 986.9  | 1003.3 | 1018.1 |
| 27.5° | 926.0  | 929.0  | 930.4  | 934.9  | 940.8  | 939.3  | 945.3  | 952.7  | 966.1  | 981.0  | 992.8  |
| 30°   | 899.2  | 900.7  | 903.7  | 905.2  | 909.6  | 909.6  | 914.1  | 921.5  | 930.4  | 943.8  | 955.7  |
| 32.5° | 856.1  | 859.1  | 860.6  | 862.1  | 866.5  | 865.0  | 866.5  | 871.0  | 879.9  | 891.8  | 899.2  |
| 35°   | 796.7  | 802.6  | 802.6  | 805.6  | 807.1  | 805.6  | 805.6  | 811.5  | 816.0  | 824.9  | 829.4  |
| 37.5° | 731.3  | 735.8  | 734.2  | 737.2  | 738.7  | 734.2  | 737.2  | 738.7  | 744.7  | 749.1  | 750.6  |
| 40°   | 667.3  | 668.8  | 668.8  | 668.8  | 668.8  | 667.3  | 668.8  | 670.3  | 674.8  | 674.8  | 670.3  |
| 42.5° | 609.4  | 610.9  | 610.9  | 607.9  | 610.9  | 609.4  | 609.4  | 609.4  | 609.4  | 603.5  | 599.0  |
| 45°   | 558.8  | 560.4  | 560.4  | 558.8  | 558.8  | 555.9  | 554.4  | 552.9  | 548.4  | 541.0  | 530.6  |
| 47.5° | 511.3  | 514.2  | 515.8  | 512.8  | 511.3  | 508.3  | 508.3  | 499.4  | 493.5  | 484.5  | 469.7  |
| 50°   | 466.7  | 469.7  | 469.7  | 466.7  | 466.7  | 462.2  | 457.8  | 454.8  | 445.9  | 435.5  | 417.6  |
| 52.5° | 410.2  | 414.7  | 414.7  | 413.2  | 413.2  | 407.3  | 405.8  | 399.8  | 392.4  | 380.5  | 365.6  |
| 55°   | 341.9  | 347.8  | 346.3  | 344.8  | 341.9  | 341.9  | 341.9  | 337.4  | 332.9  | 324.0  | 309.2  |
| 57.5° | 292.8  | 294.3  | 294.3  | 292.8  | 292.8  | 289.8  | 289.8  | 285.4  | 283.9  | 275.0  | 263.1  |
| 60°   | 261.6  | 261.6  | 263.1  | 261.6  | 260.1  | 258.6  | 257.2  | 254.2  | 249.7  | 243.8  | 234.8  |
| 62.5° | 236.3  | 237.8  | 237.8  | 236.3  | 234.8  | 233.3  | 231.9  | 228.9  | 225.9  | 221.5  | 212.5  |
| 65°   | 208.1  | 211.0  | 209.6  | 208.1  | 206.6  | 205.1  | 205.1  | 202.1  | 199.2  | 196.2  | 187.3  |
| 67.5° | 176.8  | 178.4  | 179.8  | 176.8  | 176.8  | 175.4  | 175.4  | 172.4  | 170.9  | 165.0  | 159.0  |
| 70°   | 144.2  | 145.6  | 145.6  | 144.2  | 144.2  | 142.7  | 142.7  | 141.2  | 139.7  | 135.3  | 129.3  |
| 72.5° | 113.0  | 114.4  | 113.0  | 111.5  | 111.5  | 111.5  | 110.0  | 108.5  | 107.0  | 104.1  | 99.6   |
| 75°   | 83.2   | 83.2   | 84.7   | 83.2   | 81.8   | 81.8   | 80.2   | 80.2   | 77.3   | 75.8   | 71.3   |
| 77.5° | 59.5   | 60.9   | 59.5   | 59.5   | 57.9   | 56.5   | 56.5   | 55.0   | 55.0   | 53.5   | 50.5   |
| 80°   | 40.1   | 40.1   | 41.6   | 40.1   | 38.7   | 40.1   | 38.7   | 37.2   | 37.2   | 35.7   | 32.7   |
| 82.5° | 25.3   | 26.7   | 25.3   | 25.3   | 25.3   | 25.3   | 25.3   | 23.8   | 23.8   | 22.3   | 20.8   |
| 85°   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 13.4   | 13.4   | 13.4   | 11.9   |
| 87.5° | 7.5    | 7.5    | 5.9    | 5.9    | 7.5    | 7.5    | 7.5    | 5.9    | 5.9    | 5.9    | 5.9    |
| 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°    | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 |
| 2.5°  | 1122.2 | 1123.6 | 1126.6 | 1131.1 | 1131.1 | 1128.1 | 1135.6 | 1135.6 | 1138.5 | 1140.0 | 1145.9 |
| 5°    | 1110.3 | 1113.3 | 1119.2 | 1126.6 | 1128.1 | 1126.6 | 1137.0 | 1141.5 | 1145.9 | 1150.4 | 1159.3 |
| 7.5°  | 1099.9 | 1105.8 | 1116.2 | 1126.6 | 1131.1 | 1131.1 | 1147.5 | 1153.4 | 1162.3 | 1171.2 | 1181.6 |
| 10°   | 1093.9 | 1102.8 | 1117.7 | 1134.1 | 1138.5 | 1143.0 | 1162.3 | 1174.2 | 1186.1 | 1198.0 | 1212.8 |
| 12.5° | 1086.5 | 1102.8 | 1122.2 | 1143.0 | 1151.9 | 1157.8 | 1184.6 | 1199.5 | 1215.8 | 1230.7 | 1250.0 |
| 15°   | 1085.0 | 1104.4 | 1129.6 | 1156.4 | 1168.2 | 1177.2 | 1206.9 | 1227.7 | 1247.0 | 1266.4 | 1285.7 |
| 17.5° | 1079.1 | 1102.8 | 1134.1 | 1163.8 | 1178.7 | 1190.5 | 1224.7 | 1250.0 | 1272.3 | 1291.6 | 1313.9 |
| 20°   | 1071.6 | 1098.4 | 1132.6 | 1165.3 | 1181.6 | 1193.5 | 1230.7 | 1254.5 | 1279.7 | 1297.6 | 1318.4 |
| 22.5° | 1061.2 | 1088.0 | 1122.2 | 1154.8 | 1169.8 | 1180.1 | 1217.3 | 1238.1 | 1260.4 | 1278.2 | 1297.6 |
| 25°   | 1043.4 | 1068.7 | 1098.4 | 1125.2 | 1140.0 | 1148.9 | 1181.6 | 1201.0 | 1217.3 | 1235.2 | 1253.0 |
| 27.5° | 1018.1 | 1037.5 | 1062.7 | 1082.1 | 1091.0 | 1099.9 | 1126.6 | 1143.0 | 1157.8 | 1172.7 | 1184.6 |
| 30°   | 973.5  | 988.4  | 1006.2 | 1022.6 | 1031.5 | 1033.0 | 1058.2 | 1067.2 | 1079.1 | 1089.5 | 1098.4 |
| 32.5° | 914.1  | 926.0  | 936.4  | 945.3  | 951.3  | 952.7  | 972.1  | 975.0  | 986.9  | 986.9  | 1000.3 |
| 35°   | 838.3  | 844.2  | 851.6  | 851.6  | 856.1  | 851.6  | 865.0  | 868.0  | 869.5  | 871.0  | 881.4  |
| 37.5° | 752.1  | 755.0  | 759.5  | 750.6  | 750.6  | 746.1  | 750.6  | 753.6  | 747.6  | 747.6  | 755.0  |
| 40°   | 670.3  | 664.4  | 658.4  | 649.5  | 645.1  | 636.1  | 636.1  | 628.7  | 624.2  | 621.3  | 622.8  |
| 42.5° | 591.6  | 578.2  | 564.8  | 545.5  | 536.5  | 527.6  | 518.7  | 508.3  | 505.3  | 497.9  | 493.5  |
| 45°   | 515.8  | 496.4  | 478.6  | 447.4  | 429.6  | 420.6  | 401.3  | 380.5  | 367.2  | 364.1  | 352.2  |
| 47.5° | 451.8  | 423.6  | 393.9  | 356.7  | 338.9  | 322.5  | 294.3  | 276.5  | 258.6  | 249.7  | 242.2  |
| 50°   | 395.3  | 370.1  | 331.5  | 291.3  | 269.0  | 252.7  | 221.5  | 200.7  | 181.3  | 167.9  | 159.0  |
| 52.5° | 346.3  | 318.1  | 282.4  | 236.3  | 214.1  | 196.2  | 162.0  | 138.2  | 121.9  | 108.5  | 98.1   |
| 55°   | 291.3  | 269.0  | 233.3  | 190.2  | 167.9  | 147.2  | 117.4  | 92.2   | 75.8   | 66.9   | 59.5   |
| 57.5° | 251.2  | 231.9  | 197.7  | 156.1  | 135.3  | 115.9  | 86.2   | 65.4   | 52.0   | 43.1   | 38.7   |
| 60°   | 224.4  | 206.6  | 176.8  | 136.7  | 117.4  | 99.6   | 71.3   | 52.0   | 40.1   | 32.7   | 29.7   |
| 62.5° | 202.1  | 184.3  | 157.6  | 120.4  | 104.1  | 86.2   | 60.9   | 43.1   | 32.7   | 26.7   | 22.3   |
| 65°   | 176.8  | 160.5  | 136.7  | 104.1  | 89.2   | 74.3   | 52.0   | 35.7   | 26.7   | 20.8   | 17.8   |
| 67.5° | 150.1  | 135.3  | 114.4  | 86.2   | 74.3   | 62.4   | 41.6   | 29.7   | 22.3   | 17.8   | 14.8   |
| 70°   | 121.9  | 110.0  | 90.7   | 69.9   | 59.5   | 49.0   | 34.2   | 23.8   | 16.4   | 13.4   | 11.9   |
| 72.5° | 93.6   | 83.2   | 69.9   | 53.5   | 44.6   | 37.2   | 25.3   | 17.8   | 13.4   | 10.4   | 8.9    |
| 75°   | 66.9   | 59.5   | 49.0   | 38.7   | 32.7   | 26.7   | 19.3   | 13.4   | 8.9    | 7.5    | 5.9    |
| 77.5° | 46.1   | 41.6   | 34.2   | 26.7   | 22.3   | 19.3   | 13.4   | 8.9    | 7.5    | 5.9    | 4.5    |
| 80°   | 29.7   | 26.7   | 22.3   | 16.4   | 13.4   | 11.9   | 7.5    | 5.9    | 4.5    | 3.0    | 3.0    |
| 82.5° | 17.8   | 16.4   | 13.4   | 8.9    | 7.5    | 5.9    | 4.5    | 3.0    | 3.0    | 1.5    | 1.5    |
| 85°   | 10.4   | 8.9    | 5.9    | 4.5    | 4.5    | 3.0    | 3.0    | 1.5    | 1.5    | 0.0    | 0.0    |
| 87.5° | 4.5    | 3.0    | 3.0    | 1.5    | 1.5    | 1.5    | 1.5    | 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°    | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 |
| 2.5°  | 1143.0 | 1150.4 | 1148.9 | 1153.4 | 1151.9 | 1151.9 | 1159.3 | 1156.4 | 1163.8 | 1163.8 | 1165.3 |
| 5°    | 1159.3 | 1169.8 | 1169.8 | 1177.2 | 1175.7 | 1178.7 | 1186.1 | 1186.1 | 1195.0 | 1198.0 | 1198.0 |
| 7.5°  | 1183.1 | 1196.5 | 1199.5 | 1206.9 | 1208.4 | 1214.3 | 1220.3 | 1221.8 | 1233.6 | 1236.6 | 1238.1 |
| 10°   | 1215.8 | 1232.2 | 1236.6 | 1244.1 | 1247.0 | 1253.0 | 1260.4 | 1263.4 | 1278.2 | 1279.7 | 1285.7 |
| 12.5° | 1255.9 | 1273.8 | 1278.2 | 1287.2 | 1288.7 | 1296.1 | 1306.5 | 1309.5 | 1324.3 | 1328.8 | 1333.2 |
| 15°   | 1294.6 | 1310.9 | 1318.4 | 1327.3 | 1328.8 | 1337.7 | 1346.6 | 1349.6 | 1363.0 | 1368.9 | 1373.4 |
| 17.5° | 1321.3 | 1340.7 | 1345.1 | 1357.0 | 1357.0 | 1364.4 | 1373.4 | 1376.4 | 1389.7 | 1394.2 | 1397.2 |
| 20°   | 1327.3 | 1345.1 | 1351.1 | 1360.0 | 1361.5 | 1365.9 | 1373.4 | 1376.4 | 1388.2 | 1389.7 | 1394.2 |
| 22.5° | 1305.0 | 1322.8 | 1325.8 | 1334.7 | 1336.2 | 1340.7 | 1346.6 | 1345.1 | 1360.0 | 1358.5 | 1360.0 |
| 25°   | 1257.5 | 1273.8 | 1273.8 | 1284.2 | 1282.7 | 1287.2 | 1290.1 | 1288.7 | 1302.0 | 1302.0 | 1302.0 |
| 27.5° | 1189.0 | 1203.9 | 1205.4 | 1212.8 | 1208.4 | 1209.9 | 1212.8 | 1211.3 | 1220.3 | 1220.3 | 1220.3 |
| 30°   | 1104.4 | 1116.2 | 1111.8 | 1117.7 | 1114.7 | 1117.7 | 1114.7 | 1113.3 | 1116.2 | 1119.2 | 1117.7 |
| 32.5° | 998.8  | 1007.8 | 1007.8 | 1009.2 | 1009.2 | 1000.3 | 997.3  | 997.3  | 995.8  | 994.4  | 994.4  |
| 35°   | 876.9  | 884.4  | 881.4  | 881.4  | 879.9  | 871.0  | 866.5  | 863.6  | 868.0  | 859.1  | 865.0  |
| 37.5° | 752.1  | 753.6  | 749.1  | 747.6  | 740.2  | 740.2  | 732.8  | 726.8  | 729.8  | 728.3  | 722.4  |
| 40°   | 615.3  | 621.3  | 612.4  | 609.4  | 613.9  | 607.9  | 600.5  | 593.0  | 599.0  | 591.6  | 594.5  |
| 42.5° | 481.6  | 480.1  | 477.1  | 477.1  | 477.1  | 468.2  | 466.7  | 465.2  | 466.7  | 460.8  | 456.3  |
| 45°   | 347.8  | 343.3  | 338.9  | 338.9  | 332.9  | 329.9  | 329.9  | 325.5  | 318.1  | 318.1  | 309.2  |
| 47.5° | 234.8  | 224.4  | 221.5  | 220.0  | 217.0  | 217.0  | 214.1  | 211.0  | 209.6  | 202.1  | 202.1  |
| 50°   | 153.1  | 142.7  | 139.7  | 138.2  | 139.7  | 136.7  | 133.8  | 130.8  | 127.8  | 126.4  | 123.4  |
| 52.5° | 92.2   | 87.7   | 84.7   | 83.2   | 80.2   | 78.8   | 77.3   | 74.3   | 72.8   | 72.8   | 71.3   |
| 55°   | 55.0   | 50.5   | 44.6   | 44.6   | 44.6   | 43.1   | 41.6   | 40.1   | 38.7   | 38.7   | 37.2   |
| 57.5° | 34.2   | 31.2   | 28.2   | 26.7   | 26.7   | 26.7   | 25.3   | 25.3   | 25.3   | 25.3   | 23.8   |
| 60°   | 25.3   | 22.3   | 20.8   | 20.8   | 20.8   | 19.3   | 19.3   | 19.3   | 19.3   | 17.8   | 17.8   |
| 62.5° | 19.3   | 17.8   | 16.4   | 16.4   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 13.4   |
| 65°   | 16.4   | 13.4   | 13.4   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   |
| 67.5° | 11.9   | 10.4   | 10.4   | 10.4   | 10.4   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 70°   | 8.9    | 8.9    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    |
| 72.5° | 7.5    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 75°   | 5.9    | 5.9    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 77.5° | 4.5    | 4.5    | 4.5    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 80°   | 3.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 1.5    | 1.5    | 1.5    | 1.5    | 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: P858548

CATALOG NUMBER: LD4C25W2N2050D010 4LBSWNL1\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 | 1138.5 |
| 2.5°  | 1165.3 | 1172.7 | 1165.3 | 1165.3 | 1169.8 | 1168.2 | 1171.2 | 1166.8 |
| 5°    | 1199.5 | 1209.9 | 1202.4 | 1201.0 | 1208.4 | 1206.9 | 1208.4 | 1205.4 |
| 7.5°  | 1241.1 | 1251.5 | 1244.1 | 1244.1 | 1251.5 | 1250.0 | 1254.5 | 1251.5 |
| 10°   | 1288.7 | 1300.5 | 1290.1 | 1291.6 | 1302.0 | 1300.5 | 1300.5 | 1300.5 |
| 12.5° | 1337.7 | 1349.6 | 1343.6 | 1343.6 | 1351.1 | 1352.5 | 1354.1 | 1352.5 |
| 15°   | 1377.8 | 1389.7 | 1382.3 | 1382.3 | 1392.7 | 1391.2 | 1392.7 | 1391.2 |
| 17.5° | 1401.6 | 1413.5 | 1404.6 | 1404.6 | 1413.5 | 1413.5 | 1415.0 | 1416.5 |
| 20°   | 1395.6 | 1409.0 | 1401.6 | 1398.6 | 1409.0 | 1409.0 | 1407.6 | 1407.6 |
| 22.5° | 1361.5 | 1373.4 | 1367.4 | 1364.4 | 1371.9 | 1368.9 | 1367.4 | 1368.9 |
| 25°   | 1302.0 | 1313.9 | 1302.0 | 1302.0 | 1307.9 | 1306.5 | 1307.9 | 1306.5 |
| 27.5° | 1221.8 | 1230.7 | 1218.8 | 1217.3 | 1223.3 | 1220.3 | 1218.8 | 1223.3 |
| 30°   | 1114.7 | 1123.6 | 1117.7 | 1113.3 | 1120.7 | 1116.2 | 1113.3 | 1114.7 |
| 32.5° | 992.8  | 998.8  | 995.8  | 988.4  | 992.8  | 989.9  | 988.4  | 989.9  |
| 35°   | 859.1  | 866.5  | 854.7  | 853.2  | 860.6  | 854.7  | 851.6  | 859.1  |
| 37.5° | 720.8  | 729.8  | 719.4  | 720.8  | 716.4  | 717.9  | 714.9  | 719.4  |
| 40°   | 590.1  | 588.6  | 585.6  | 584.1  | 585.6  | 581.2  | 584.1  | 579.7  |
| 42.5° | 448.8  | 451.8  | 450.4  | 448.8  | 450.4  | 444.4  | 441.5  | 447.4  |
| 45°   | 312.1  | 310.7  | 307.7  | 304.7  | 304.7  | 303.2  | 303.2  | 298.7  |
| 47.5° | 200.7  | 199.2  | 193.2  | 194.7  | 197.7  | 194.7  | 190.2  | 196.2  |
| 50°   | 121.9  | 120.4  | 120.4  | 118.9  | 121.9  | 118.9  | 115.9  | 115.9  |
| 52.5° | 68.4   | 68.4   | 66.9   | 66.9   | 66.9   | 66.9   | 65.4   | 63.9   |
| 55°   | 37.2   | 35.7   | 35.7   | 35.7   | 34.2   | 34.2   | 34.2   | 34.2   |
| 57.5° | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 22.3   | 22.3   |
| 60°   | 17.8   | 17.8   | 17.8   | 17.8   | 16.4   | 17.8   | 16.4   | 16.4   |
| 62.5° | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   |
| 65°   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   |
| 67.5° | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 70°   | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    |
| 72.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 75°   | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 77.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 80°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 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)