

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: P858594

Luminaire Tested: **LD4C25W2N2765D010 4LBSWNL1\_6500K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858594  
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: LD4C25W2N2765D010 4LBSWNLI\_6500K  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 6500K, W2N2765 LEDS  
AND 4LBSWNLI TRIM WITH FINISH

Light Source: -  
Ballast/Driver: -

**Summary**

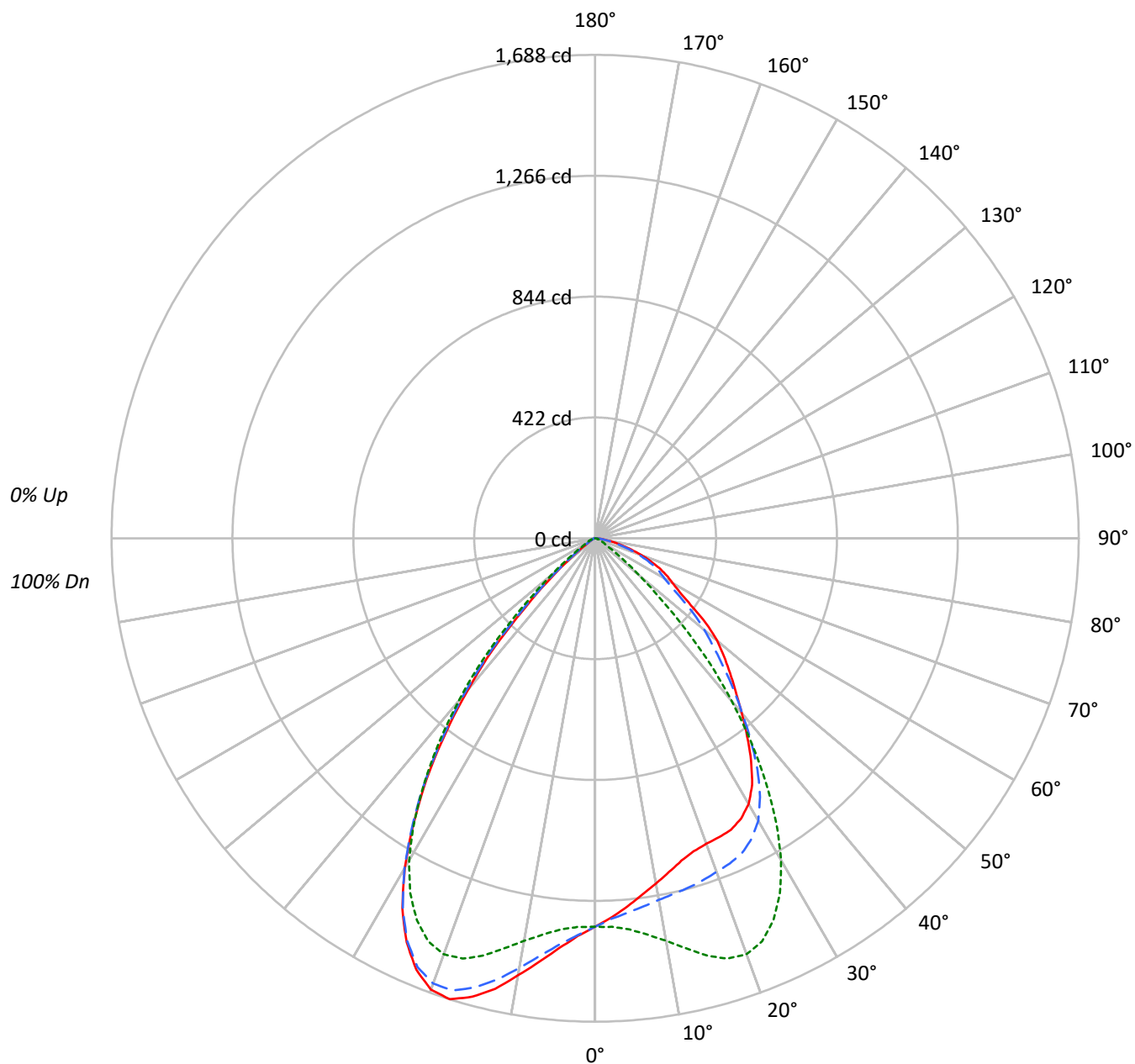
Lumens per Lamp: N/A  
Luminaire Lumens: 2503.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P858594

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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  |     |     |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 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°  | 166638 | 166638 | 166638 |
| 5°  | 159185 | 169014 | 177091 |
| 10° | 152630 | 178041 | 193286 |
| 15° | 148186 | 191887 | 210800 |
| 20° | 148388 | 202095 | 219234 |
| 25° | 152173 | 199467 | 210990 |
| 30° | 151974 | 184119 | 188389 |
| 35° | 142343 | 155616 | 153501 |
| 40° | 127497 | 118693 | 110754 |
| 45° | 115677 | 75369  | 61834  |
| 50° | 106266 | 38244  | 26395  |
| 55° | 87239  | 17071  | 8717   |
| 60° | 76562  | 9583   | 4791   |
| 65° | 72064  | 7209   | 3605   |
| 70° | 61710  | 5747   | 3197   |
| 75° | 47040  | 4225   | 2516   |
| 80° | 33818  | 2476   | 1273   |
| 85° | 24950  | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.8  | 5.3       |
| 10°-20°   | 410.6  | 16.4      |
| 20°-30°   | 635.3  | 25.4      |
| 30°-40°   | 625.9  | 25.0      |
| 40°-50°   | 384.4  | 15.4      |
| 50°-60°   | 170.9  | 6.8       |
| 60°-70°   | 95.5   | 3.8       |
| 70°-80°   | 41.3   | 1.7       |
| 80°-90°   | 7.4    | 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°    | 1177.7 | 47.0      |
| 0°-40°    | 1803.6 | 72.1      |
| 0°-60°    | 2358.8 | 94.2      |
| 0°-90°    | 2503.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2503.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1356 | 1356 | 1356 | 1356 | 1356 |      |
| 5°  | 1291 | 1312 | 1370 | 1424 | 1436 | 121  |
| 15° | 1165 | 1262 | 1509 | 1624 | 1657 | 331  |
| 25° | 1123 | 1213 | 1472 | 1551 | 1556 | 515  |
| 35° | 949  | 988  | 1038 | 1034 | 1024 | 589  |
| 45° | 666  | 632  | 434  | 379  | 356  | 516  |
| 55° | 407  | 368  | 80   | 46   | 41   | 374  |
| 65° | 248  | 223  | 25   | 14   | 12   | 243  |
| 75° | 99   | 85   | 9    | 5    | 5    | 109  |
| 85° | 18   | 14   | 0    | 0    | 0    | 22   |
| 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°    | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5°  | 1324.5 | 1324.5 | 1324.5 | 1324.5 | 1328.0 | 1322.7 | 1328.0 | 1328.0 | 1333.4 | 1335.1 | 1329.8 |
| 5°    | 1290.8 | 1289.1 | 1290.8 | 1290.8 | 1294.4 | 1292.6 | 1297.9 | 1301.4 | 1308.6 | 1312.1 | 1312.1 |
| 7.5°  | 1255.5 | 1255.5 | 1255.5 | 1259.0 | 1264.3 | 1262.5 | 1267.8 | 1273.1 | 1283.8 | 1290.8 | 1296.2 |
| 10°   | 1223.5 | 1221.8 | 1227.1 | 1228.9 | 1234.2 | 1234.2 | 1243.0 | 1248.4 | 1260.7 | 1274.9 | 1282.0 |
| 12.5° | 1193.4 | 1191.7 | 1195.2 | 1200.6 | 1209.4 | 1209.4 | 1216.5 | 1225.3 | 1243.0 | 1259.0 | 1271.3 |
| 15°   | 1165.1 | 1166.9 | 1172.2 | 1175.7 | 1186.4 | 1186.4 | 1195.2 | 1205.8 | 1225.3 | 1244.8 | 1262.5 |
| 17.5° | 1145.6 | 1147.4 | 1151.0 | 1156.2 | 1166.9 | 1166.9 | 1175.7 | 1188.2 | 1209.4 | 1230.6 | 1251.9 |
| 20°   | 1135.0 | 1136.8 | 1140.4 | 1145.6 | 1154.5 | 1156.2 | 1163.4 | 1177.5 | 1197.0 | 1220.0 | 1239.5 |
| 22.5° | 1129.7 | 1133.3 | 1136.8 | 1140.4 | 1149.2 | 1149.2 | 1158.1 | 1168.7 | 1188.2 | 1211.2 | 1228.9 |
| 25°   | 1122.6 | 1126.1 | 1127.9 | 1133.3 | 1140.4 | 1140.4 | 1145.6 | 1158.1 | 1175.7 | 1195.2 | 1212.9 |
| 27.5° | 1103.2 | 1106.7 | 1108.4 | 1113.8 | 1120.9 | 1119.1 | 1126.1 | 1135.0 | 1151.0 | 1168.7 | 1182.8 |
| 30°   | 1071.3 | 1073.1 | 1076.6 | 1078.3 | 1083.7 | 1083.7 | 1089.0 | 1097.8 | 1108.4 | 1124.4 | 1138.6 |
| 32.5° | 1019.9 | 1023.5 | 1025.3 | 1027.0 | 1032.3 | 1030.5 | 1032.3 | 1037.6 | 1048.2 | 1062.5 | 1071.3 |
| 35°   | 949.1  | 956.2  | 956.2  | 959.7  | 961.5  | 959.7  | 959.7  | 966.8  | 972.1  | 982.7  | 988.1  |
| 37.5° | 871.2  | 876.5  | 874.7  | 878.3  | 880.1  | 874.7  | 878.3  | 880.1  | 887.1  | 892.4  | 894.2  |
| 40°   | 795.0  | 796.8  | 796.8  | 796.8  | 796.8  | 795.0  | 796.8  | 798.6  | 803.9  | 803.9  | 798.6  |
| 42.5° | 726.0  | 727.8  | 727.8  | 724.2  | 727.8  | 726.0  | 726.0  | 726.0  | 726.0  | 718.9  | 713.6  |
| 45°   | 665.8  | 667.6  | 667.6  | 665.8  | 665.8  | 662.2  | 660.5  | 658.7  | 653.4  | 644.5  | 632.1  |
| 47.5° | 609.1  | 612.6  | 614.4  | 610.9  | 609.1  | 605.6  | 605.6  | 594.9  | 587.9  | 577.3  | 559.6  |
| 50°   | 556.0  | 559.6  | 559.6  | 556.0  | 556.0  | 550.7  | 545.4  | 541.8  | 531.2  | 518.8  | 497.5  |
| 52.5° | 488.7  | 494.0  | 494.0  | 492.3  | 492.3  | 485.2  | 483.4  | 476.3  | 467.4  | 453.3  | 435.6  |
| 55°   | 407.3  | 414.4  | 412.6  | 410.8  | 407.3  | 407.3  | 407.3  | 401.9  | 396.6  | 386.0  | 368.3  |
| 57.5° | 348.8  | 350.6  | 350.6  | 348.8  | 348.8  | 345.3  | 345.3  | 340.0  | 338.2  | 327.6  | 313.4  |
| 60°   | 311.6  | 311.6  | 313.4  | 311.6  | 309.9  | 308.1  | 306.4  | 302.8  | 297.5  | 290.4  | 279.8  |
| 62.5° | 281.5  | 283.3  | 283.3  | 281.5  | 279.8  | 278.0  | 276.2  | 272.7  | 269.2  | 263.8  | 253.2  |
| 65°   | 247.9  | 251.4  | 249.7  | 247.9  | 246.1  | 244.3  | 244.3  | 240.8  | 237.3  | 233.7  | 223.1  |
| 67.5° | 210.7  | 212.5  | 214.2  | 210.7  | 210.7  | 209.0  | 209.0  | 205.4  | 203.6  | 196.5  | 189.5  |
| 70°   | 171.8  | 173.5  | 173.5  | 171.8  | 171.8  | 170.0  | 170.0  | 168.2  | 166.4  | 161.2  | 154.1  |
| 72.5° | 134.6  | 136.3  | 134.6  | 132.8  | 132.8  | 132.8  | 131.0  | 129.2  | 127.5  | 124.0  | 118.6  |
| 75°   | 99.1   | 99.1   | 100.9  | 99.1   | 97.4   | 97.4   | 95.6   | 95.6   | 92.1   | 90.3   | 85.0   |
| 77.5° | 70.8   | 72.6   | 70.8   | 70.8   | 69.0   | 67.3   | 67.3   | 65.5   | 65.5   | 63.8   | 60.2   |
| 80°   | 47.8   | 47.8   | 49.6   | 47.8   | 46.1   | 47.8   | 46.1   | 44.3   | 44.3   | 42.5   | 39.0   |
| 82.5° | 30.1   | 31.8   | 30.1   | 30.1   | 30.1   | 30.1   | 30.1   | 28.3   | 28.3   | 26.6   | 24.8   |
| 85°   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 16.0   | 16.0   | 16.0   | 14.2   |
| 87.5° | 8.9    | 8.9    | 7.1    | 7.1    | 8.9    | 8.9    | 8.9    | 7.1    | 7.1    | 7.1    | 7.1    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5°  | 1336.9 | 1338.6 | 1342.2 | 1347.5 | 1347.5 | 1344.0 | 1352.9 | 1352.9 | 1356.4 | 1358.1 | 1365.2 |
| 5°    | 1322.7 | 1326.3 | 1333.4 | 1342.2 | 1344.0 | 1342.2 | 1354.6 | 1359.9 | 1365.2 | 1370.5 | 1381.2 |
| 7.5°  | 1310.3 | 1317.4 | 1329.8 | 1342.2 | 1347.5 | 1347.5 | 1367.0 | 1374.1 | 1384.7 | 1395.3 | 1407.7 |
| 10°   | 1303.3 | 1313.9 | 1331.6 | 1351.0 | 1356.4 | 1361.7 | 1384.7 | 1398.8 | 1413.0 | 1427.2 | 1444.9 |
| 12.5° | 1294.4 | 1313.9 | 1336.9 | 1361.7 | 1372.3 | 1379.4 | 1411.3 | 1429.0 | 1448.4 | 1466.1 | 1489.2 |
| 15°   | 1292.6 | 1315.7 | 1345.8 | 1377.6 | 1391.8 | 1402.4 | 1437.8 | 1462.6 | 1485.6 | 1508.7 | 1531.7 |
| 17.5° | 1285.6 | 1313.9 | 1351.0 | 1386.5 | 1404.2 | 1418.3 | 1459.1 | 1489.2 | 1515.7 | 1538.8 | 1565.3 |
| 20°   | 1276.7 | 1308.6 | 1349.3 | 1388.2 | 1407.7 | 1421.9 | 1466.1 | 1494.5 | 1524.6 | 1545.8 | 1570.6 |
| 22.5° | 1264.3 | 1296.2 | 1336.9 | 1375.8 | 1393.6 | 1405.9 | 1450.2 | 1475.0 | 1501.6 | 1522.8 | 1545.8 |
| 25°   | 1243.0 | 1273.1 | 1308.6 | 1340.4 | 1358.1 | 1368.7 | 1407.7 | 1430.8 | 1450.2 | 1471.5 | 1492.7 |
| 27.5° | 1212.9 | 1236.0 | 1266.1 | 1289.1 | 1299.7 | 1310.3 | 1342.2 | 1361.7 | 1379.4 | 1397.1 | 1411.3 |
| 30°   | 1159.8 | 1177.5 | 1198.8 | 1218.3 | 1228.9 | 1230.6 | 1260.7 | 1271.3 | 1285.6 | 1297.9 | 1308.6 |
| 32.5° | 1089.0 | 1103.2 | 1115.5 | 1126.1 | 1133.3 | 1135.0 | 1158.1 | 1161.6 | 1175.7 | 1175.7 | 1191.7 |
| 35°   | 998.7  | 1005.8 | 1014.6 | 1014.6 | 1019.9 | 1014.6 | 1030.5 | 1034.1 | 1035.9 | 1037.6 | 1050.0 |
| 37.5° | 896.0  | 899.5  | 904.8  | 894.2  | 894.2  | 888.9  | 894.2  | 897.8  | 890.7  | 890.7  | 899.5  |
| 40°   | 798.6  | 791.5  | 784.4  | 773.8  | 768.5  | 757.8  | 757.8  | 749.0  | 743.7  | 740.1  | 741.9  |
| 42.5° | 704.8  | 688.8  | 672.9  | 649.8  | 639.2  | 628.6  | 618.0  | 605.6  | 602.0  | 593.2  | 587.9  |
| 45°   | 614.4  | 591.4  | 570.2  | 533.0  | 511.8  | 501.1  | 478.1  | 453.3  | 437.4  | 433.8  | 419.6  |
| 47.5° | 538.3  | 504.6  | 469.2  | 425.0  | 403.8  | 384.3  | 350.6  | 329.4  | 308.1  | 297.5  | 288.6  |
| 50°   | 471.0  | 440.9  | 394.9  | 347.1  | 320.5  | 301.0  | 263.8  | 239.1  | 216.0  | 200.1  | 189.5  |
| 52.5° | 412.6  | 378.9  | 336.5  | 281.5  | 255.0  | 233.7  | 193.0  | 164.7  | 145.2  | 129.2  | 116.9  |
| 55°   | 347.1  | 320.5  | 278.0  | 226.6  | 200.1  | 175.3  | 139.9  | 109.8  | 90.3   | 79.7   | 70.8   |
| 57.5° | 299.3  | 276.2  | 235.5  | 185.9  | 161.2  | 138.1  | 102.7  | 77.9   | 62.0   | 51.3   | 46.1   |
| 60°   | 267.4  | 246.1  | 210.7  | 162.9  | 139.9  | 118.6  | 85.0   | 62.0   | 47.8   | 39.0   | 35.4   |
| 62.5° | 240.8  | 219.6  | 187.7  | 143.4  | 124.0  | 102.7  | 72.6   | 51.3   | 39.0   | 31.8   | 26.6   |
| 65°   | 210.7  | 191.3  | 162.9  | 124.0  | 106.2  | 88.5   | 62.0   | 42.5   | 31.8   | 24.8   | 21.2   |
| 67.5° | 178.8  | 161.2  | 136.3  | 102.7  | 88.5   | 74.4   | 49.6   | 35.4   | 26.6   | 21.2   | 17.7   |
| 70°   | 145.2  | 131.0  | 108.0  | 83.2   | 70.8   | 58.4   | 40.7   | 28.3   | 19.5   | 16.0   | 14.2   |
| 72.5° | 111.6  | 99.1   | 83.2   | 63.8   | 53.1   | 44.3   | 30.1   | 21.2   | 16.0   | 12.4   | 10.6   |
| 75°   | 79.7   | 70.8   | 58.4   | 46.1   | 39.0   | 31.8   | 23.0   | 16.0   | 10.6   | 8.9    | 7.1    |
| 77.5° | 54.9   | 49.6   | 40.7   | 31.8   | 26.6   | 23.0   | 16.0   | 10.6   | 8.9    | 7.1    | 5.3    |
| 80°   | 35.4   | 31.8   | 26.6   | 19.5   | 16.0   | 14.2   | 8.9    | 7.1    | 5.3    | 3.5    | 3.5    |
| 82.5° | 21.2   | 19.5   | 16.0   | 10.6   | 8.9    | 7.1    | 5.3    | 3.5    | 3.5    | 1.8    | 1.8    |
| 85°   | 12.4   | 10.6   | 7.1    | 5.3    | 5.3    | 3.5    | 3.5    | 1.8    | 1.8    | 0.0    | 0.0    |
| 87.5° | 5.3    | 3.5    | 3.5    | 1.8    | 1.8    | 1.8    | 1.8    | 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°    | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5°  | 1361.7 | 1370.5 | 1368.7 | 1374.1 | 1372.3 | 1372.3 | 1381.2 | 1377.6 | 1386.5 | 1386.5 | 1388.2 |
| 5°    | 1381.2 | 1393.6 | 1393.6 | 1402.4 | 1400.7 | 1404.2 | 1413.0 | 1413.0 | 1423.7 | 1427.2 | 1427.2 |
| 7.5°  | 1409.5 | 1425.4 | 1429.0 | 1437.8 | 1439.6 | 1446.6 | 1453.8 | 1455.5 | 1469.7 | 1473.2 | 1475.0 |
| 10°   | 1448.4 | 1467.9 | 1473.2 | 1482.1 | 1485.6 | 1492.7 | 1501.6 | 1505.1 | 1522.8 | 1524.6 | 1531.7 |
| 12.5° | 1496.2 | 1517.5 | 1522.8 | 1533.4 | 1535.2 | 1544.0 | 1556.5 | 1560.0 | 1577.7 | 1583.0 | 1588.3 |
| 15°   | 1542.3 | 1561.7 | 1570.6 | 1581.2 | 1583.0 | 1593.6 | 1604.3 | 1607.8 | 1623.8 | 1630.8 | 1636.2 |
| 17.5° | 1574.2 | 1597.2 | 1602.5 | 1616.7 | 1616.7 | 1625.5 | 1636.2 | 1639.7 | 1655.6 | 1660.9 | 1664.5 |
| 20°   | 1581.2 | 1602.5 | 1609.6 | 1620.2 | 1622.0 | 1627.3 | 1636.2 | 1639.7 | 1653.9 | 1655.6 | 1660.9 |
| 22.5° | 1554.7 | 1576.0 | 1579.5 | 1590.1 | 1591.8 | 1597.2 | 1604.3 | 1602.5 | 1620.2 | 1618.4 | 1620.2 |
| 25°   | 1498.1 | 1517.5 | 1517.5 | 1529.9 | 1528.2 | 1533.4 | 1537.0 | 1535.2 | 1551.1 | 1551.1 | 1551.1 |
| 27.5° | 1416.5 | 1434.3 | 1436.0 | 1444.9 | 1439.6 | 1441.4 | 1444.9 | 1443.1 | 1453.8 | 1453.8 | 1453.8 |
| 30°   | 1315.7 | 1329.8 | 1324.5 | 1331.6 | 1328.0 | 1331.6 | 1328.0 | 1326.3 | 1329.8 | 1333.4 | 1331.6 |
| 32.5° | 1189.9 | 1200.6 | 1200.6 | 1202.3 | 1202.3 | 1191.7 | 1188.2 | 1188.2 | 1186.4 | 1184.6 | 1184.6 |
| 35°   | 1044.7 | 1053.6 | 1050.0 | 1050.0 | 1048.2 | 1037.6 | 1032.3 | 1028.8 | 1034.1 | 1023.5 | 1030.5 |
| 37.5° | 896.0  | 897.8  | 892.4  | 890.7  | 881.8  | 881.8  | 873.0  | 865.9  | 869.4  | 867.7  | 860.6  |
| 40°   | 733.1  | 740.1  | 729.5  | 726.0  | 731.3  | 724.2  | 715.4  | 706.5  | 713.6  | 704.8  | 708.3  |
| 42.5° | 573.7  | 571.9  | 568.4  | 568.4  | 568.4  | 557.8  | 556.0  | 554.2  | 556.0  | 549.0  | 543.6  |
| 45°   | 414.4  | 409.0  | 403.8  | 403.8  | 396.6  | 393.1  | 393.1  | 387.8  | 378.9  | 378.9  | 368.3  |
| 47.5° | 279.8  | 267.4  | 263.8  | 262.1  | 258.6  | 258.6  | 255.0  | 251.4  | 249.7  | 240.8  | 240.8  |
| 50°   | 182.4  | 170.0  | 166.4  | 164.7  | 166.4  | 162.9  | 159.4  | 155.8  | 152.3  | 150.5  | 147.0  |
| 52.5° | 109.8  | 104.5  | 100.9  | 99.1   | 95.6   | 93.9   | 92.1   | 88.5   | 86.8   | 86.8   | 85.0   |
| 55°   | 65.5   | 60.2   | 53.1   | 53.1   | 53.1   | 51.3   | 49.6   | 47.8   | 46.1   | 46.1   | 44.3   |
| 57.5° | 40.7   | 37.2   | 33.6   | 31.8   | 31.8   | 31.8   | 30.1   | 30.1   | 30.1   | 30.1   | 28.3   |
| 60°   | 30.1   | 26.6   | 24.8   | 24.8   | 24.8   | 23.0   | 23.0   | 23.0   | 23.0   | 21.2   | 21.2   |
| 62.5° | 23.0   | 21.2   | 19.5   | 19.5   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 16.0   |
| 65°   | 19.5   | 16.0   | 16.0   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   |
| 67.5° | 14.2   | 12.4   | 12.4   | 12.4   | 12.4   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   |
| 70°   | 10.6   | 10.6   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 72.5° | 8.9    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 75°   | 7.1    | 7.1    | 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    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 80°   | 3.5    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 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: P858594

CATALOG NUMBER: LD4C25W2N2765D010 4LBSWNL1\_6500K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5°  | 1388.2 | 1397.1 | 1388.2 | 1388.2 | 1393.6 | 1391.8 | 1395.3 | 1390.0 |
| 5°    | 1429.0 | 1441.4 | 1432.5 | 1430.8 | 1439.6 | 1437.8 | 1439.6 | 1436.0 |
| 7.5°  | 1478.6 | 1491.0 | 1482.1 | 1482.1 | 1491.0 | 1489.2 | 1494.5 | 1491.0 |
| 10°   | 1535.2 | 1549.4 | 1537.0 | 1538.8 | 1551.1 | 1549.4 | 1549.4 | 1549.4 |
| 12.5° | 1593.6 | 1607.8 | 1600.7 | 1600.7 | 1609.6 | 1611.3 | 1613.1 | 1611.3 |
| 15°   | 1641.4 | 1655.6 | 1646.8 | 1646.8 | 1659.1 | 1657.4 | 1659.1 | 1657.4 |
| 17.5° | 1669.8 | 1684.0 | 1673.4 | 1673.4 | 1684.0 | 1684.0 | 1685.7 | 1687.5 |
| 20°   | 1662.7 | 1678.6 | 1669.8 | 1666.2 | 1678.6 | 1678.6 | 1676.9 | 1676.9 |
| 22.5° | 1622.0 | 1636.2 | 1629.0 | 1625.5 | 1634.4 | 1630.8 | 1629.0 | 1630.8 |
| 25°   | 1551.1 | 1565.3 | 1551.1 | 1551.1 | 1558.2 | 1556.5 | 1558.2 | 1556.5 |
| 27.5° | 1455.5 | 1466.1 | 1452.0 | 1450.2 | 1457.3 | 1453.8 | 1452.0 | 1457.3 |
| 30°   | 1328.0 | 1338.6 | 1331.6 | 1326.3 | 1335.1 | 1329.8 | 1326.3 | 1328.0 |
| 32.5° | 1182.8 | 1189.9 | 1186.4 | 1177.5 | 1182.8 | 1179.3 | 1177.5 | 1179.3 |
| 35°   | 1023.5 | 1032.3 | 1018.2 | 1016.4 | 1025.3 | 1018.2 | 1014.6 | 1023.5 |
| 37.5° | 858.8  | 869.4  | 857.0  | 858.8  | 853.5  | 855.2  | 851.7  | 857.0  |
| 40°   | 703.0  | 701.2  | 697.7  | 695.9  | 697.7  | 692.3  | 695.9  | 690.6  |
| 42.5° | 534.7  | 538.3  | 536.5  | 534.7  | 536.5  | 529.5  | 525.9  | 533.0  |
| 45°   | 371.8  | 370.1  | 366.6  | 363.0  | 363.0  | 361.2  | 361.2  | 355.9  |
| 47.5° | 239.1  | 237.3  | 230.2  | 232.0  | 235.5  | 232.0  | 226.6  | 233.7  |
| 50°   | 145.2  | 143.4  | 143.4  | 141.7  | 145.2  | 141.7  | 138.1  | 138.1  |
| 52.5° | 81.4   | 81.4   | 79.7   | 79.7   | 79.7   | 79.7   | 77.9   | 76.2   |
| 55°   | 44.3   | 42.5   | 42.5   | 42.5   | 40.7   | 40.7   | 40.7   | 40.7   |
| 57.5° | 28.3   | 28.3   | 28.3   | 28.3   | 28.3   | 28.3   | 26.6   | 26.6   |
| 60°   | 21.2   | 21.2   | 21.2   | 21.2   | 19.5   | 21.2   | 19.5   | 19.5   |
| 62.5° | 16.0   | 16.0   | 16.0   | 16.0   | 16.0   | 16.0   | 16.0   | 16.0   |
| 65°   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   |
| 67.5° | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   |
| 70°   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 72.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 75°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 77.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 80°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 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)