

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: P880564

Luminaire Tested: **LD4C30D010 EU4309035 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30D010 EU4309035 4LBDWNH  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

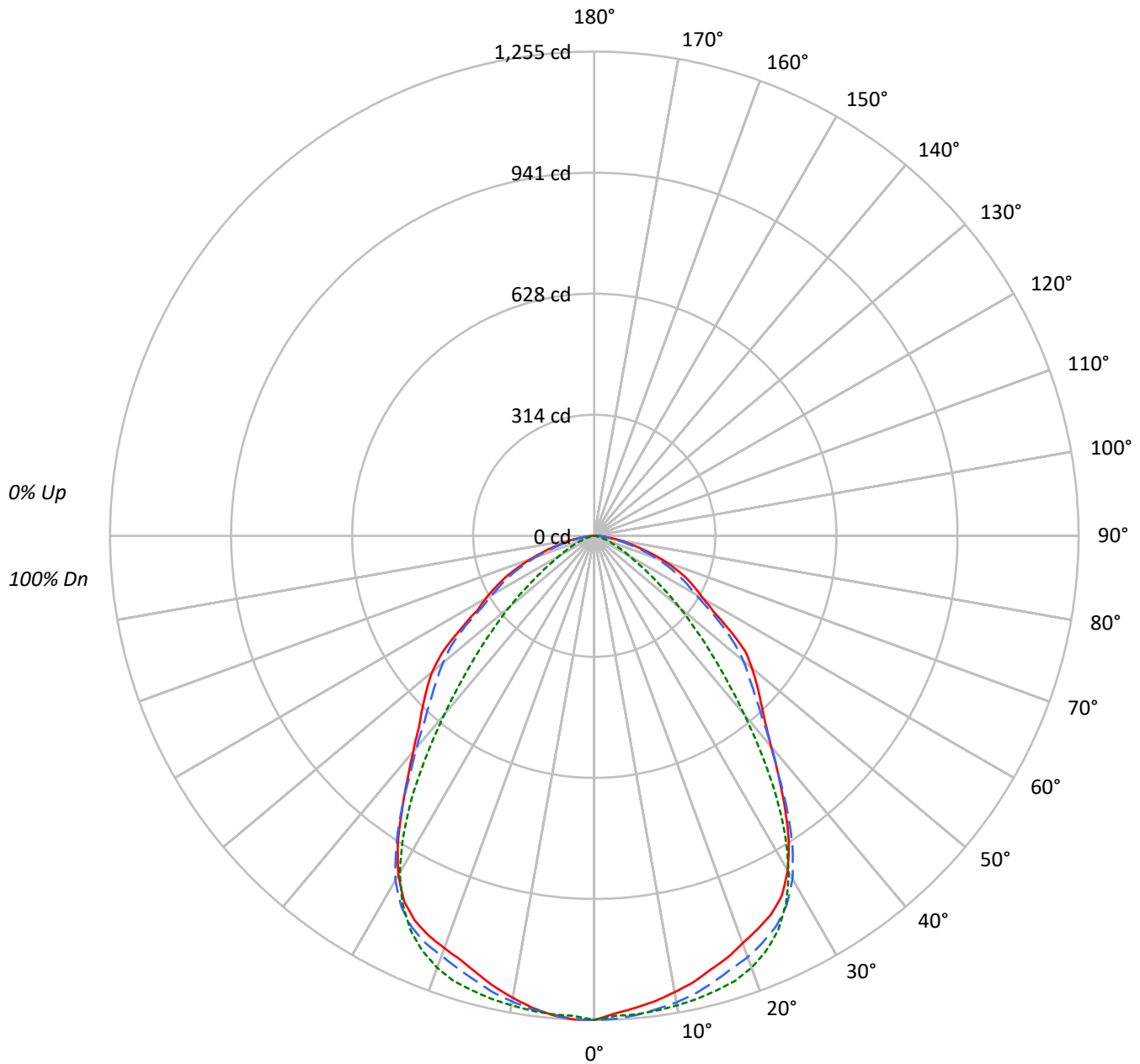
Lumens per Lamp: N/A  
Luminaire Lumens: 2554.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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  | 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   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 88  |    |    |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 51  |    |    |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 154169 | 154169 | 154169 |
| 5°  | 151440 | 153574 | 153808 |
| 10° | 149811 | 154152 | 151732 |
| 15° | 148071 | 155181 | 149292 |
| 20° | 146897 | 155748 | 148662 |
| 25° | 146818 | 152837 | 149163 |
| 30° | 142143 | 142965 | 144058 |
| 35° | 129145 | 123071 | 130299 |
| 40° | 114250 | 96898  | 117025 |
| 45° | 105999 | 73788  | 109353 |
| 50° | 101851 | 54624  | 104794 |
| 55° | 92208  | 37633  | 90966  |
| 60° | 80174  | 25603  | 79707  |
| 65° | 77441  | 18546  | 73517  |
| 70° | 70044  | 12500  | 62393  |
| 75° | 57720  | 8212   | 49461  |
| 80° | 46482  | 5448   | 36860  |
| 85° | 38200  | 2678   | 24386  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.5  | 4.6       |
| 10°-20°   | 338.7  | 13.3      |
| 20°-30°   | 511.7  | 20.0      |
| 30°-40°   | 535.5  | 21.0      |
| 40°-50°   | 433.7  | 17.0      |
| 50°-60°   | 315.5  | 12.4      |
| 60°-70°   | 194.6  | 7.6       |
| 70°-80°   | 87.9   | 3.4       |
| 80°-90°   | 17.9   | 0.7       |
| 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°    | 968.9  | 37.9      |
| 0°-40°    | 1504.4 | 58.9      |
| 0°-60°    | 2253.6 | 88.2      |
| 0°-90°    | 2554.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2554.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1255 | 1255 | 1255 | 1255 | 1255 |      |
| 5°  | 1228 | 1247 | 1245 | 1245 | 1247 | 116  |
| 15° | 1164 | 1197 | 1220 | 1193 | 1174 | 329  |
| 25° | 1083 | 1116 | 1128 | 1120 | 1100 | 496  |
| 35° | 861  | 873  | 821  | 873  | 869  | 537  |
| 45° | 610  | 591  | 425  | 598  | 629  | 474  |
| 55° | 430  | 404  | 176  | 407  | 425  | 384  |
| 65° | 266  | 239  | 64   | 236  | 253  | 261  |
| 75° | 122  | 104  | 17   | 91   | 104  | 132  |
| 85° | 27   | 21   | 2    | 15   | 17   | 31   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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CATALOG NUMBER: LD4C30D010 EU4309035 4LBDWNH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |
| 2.5°  | 1239.5 | 1239.5 | 1251.1 | 1264.5 | 1253.0 | 1241.4 | 1249.1 | 1245.3 | 1258.8 | 1258.8 | 1253.0 |
| 5°    | 1228.0 | 1231.8 | 1241.4 | 1253.0 | 1243.4 | 1231.8 | 1241.4 | 1237.6 | 1251.1 | 1251.1 | 1247.2 |
| 7.5°  | 1216.3 | 1218.2 | 1229.9 | 1243.4 | 1233.7 | 1222.1 | 1229.9 | 1228.0 | 1239.5 | 1241.4 | 1237.6 |
| 10°   | 1200.9 | 1202.8 | 1214.4 | 1228.0 | 1218.2 | 1208.6 | 1216.3 | 1214.4 | 1229.9 | 1229.9 | 1228.0 |
| 12.5° | 1185.5 | 1187.4 | 1199.0 | 1210.5 | 1200.9 | 1191.3 | 1199.0 | 1199.0 | 1214.4 | 1216.3 | 1214.4 |
| 15°   | 1164.2 | 1168.0 | 1177.7 | 1189.3 | 1183.6 | 1171.9 | 1179.6 | 1179.6 | 1193.2 | 1197.0 | 1197.0 |
| 17.5° | 1146.9 | 1148.8 | 1158.4 | 1170.0 | 1162.3 | 1152.6 | 1160.3 | 1160.3 | 1173.8 | 1177.7 | 1177.7 |
| 20°   | 1123.6 | 1127.5 | 1137.1 | 1148.8 | 1142.9 | 1135.2 | 1141.0 | 1141.0 | 1156.5 | 1160.3 | 1162.3 |
| 22.5° | 1104.4 | 1108.2 | 1115.9 | 1131.4 | 1121.7 | 1115.9 | 1123.6 | 1121.7 | 1139.1 | 1141.0 | 1141.0 |
| 25°   | 1083.1 | 1087.0 | 1096.6 | 1106.3 | 1100.4 | 1094.7 | 1100.4 | 1100.4 | 1114.0 | 1115.9 | 1115.9 |
| 27.5° | 1052.2 | 1054.1 | 1063.8 | 1073.5 | 1067.7 | 1060.0 | 1067.7 | 1065.8 | 1079.2 | 1081.2 | 1079.2 |
| 30°   | 1002.0 | 1005.9 | 1009.7 | 1023.3 | 1017.4 | 1011.6 | 1019.3 | 1015.5 | 1029.1 | 1029.1 | 1027.1 |
| 32.5° | 938.2  | 938.2  | 946.1  | 955.7  | 948.0  | 944.1  | 949.9  | 951.8  | 961.5  | 961.5  | 955.7  |
| 35°   | 861.1  | 865.0  | 870.7  | 876.5  | 870.7  | 866.9  | 872.7  | 870.7  | 882.3  | 878.4  | 872.7  |
| 37.5° | 783.9  | 785.8  | 791.6  | 799.3  | 791.6  | 785.8  | 787.7  | 785.8  | 795.4  | 795.4  | 785.8  |
| 40°   | 712.4  | 716.3  | 720.1  | 727.8  | 720.1  | 716.3  | 718.2  | 712.4  | 724.0  | 720.1  | 714.3  |
| 42.5° | 654.5  | 656.4  | 662.2  | 666.1  | 658.4  | 656.4  | 658.4  | 654.5  | 660.3  | 656.4  | 644.9  |
| 45°   | 610.1  | 610.1  | 612.1  | 617.8  | 610.1  | 608.2  | 608.2  | 604.2  | 610.1  | 602.3  | 590.8  |
| 47.5° | 571.5  | 573.4  | 575.4  | 579.2  | 573.4  | 567.7  | 569.6  | 561.9  | 565.7  | 559.8  | 544.4  |
| 50°   | 532.9  | 536.7  | 538.7  | 542.5  | 536.7  | 532.9  | 534.8  | 527.1  | 527.1  | 517.4  | 503.9  |
| 52.5° | 494.3  | 496.2  | 494.3  | 498.1  | 494.3  | 488.5  | 490.4  | 482.7  | 482.7  | 471.1  | 457.6  |
| 55°   | 430.5  | 432.4  | 434.5  | 438.3  | 434.5  | 428.6  | 432.4  | 426.7  | 426.7  | 418.9  | 403.5  |
| 57.5° | 366.8  | 368.8  | 370.7  | 372.6  | 372.6  | 368.8  | 370.7  | 366.8  | 364.9  | 359.1  | 347.5  |
| 60°   | 326.3  | 326.3  | 326.3  | 328.2  | 326.3  | 324.4  | 324.4  | 320.5  | 320.5  | 312.7  | 301.2  |
| 62.5° | 295.4  | 297.3  | 297.3  | 299.2  | 297.3  | 295.4  | 293.5  | 289.6  | 287.7  | 280.0  | 270.2  |
| 65°   | 266.4  | 266.4  | 264.5  | 268.3  | 266.4  | 264.5  | 264.5  | 260.6  | 256.8  | 249.1  | 239.4  |
| 67.5° | 231.7  | 233.6  | 231.7  | 233.6  | 233.6  | 231.7  | 229.8  | 225.8  | 223.9  | 218.1  | 206.6  |
| 70°   | 195.0  | 195.0  | 195.0  | 197.0  | 195.0  | 195.0  | 197.0  | 191.2  | 189.3  | 181.4  | 171.8  |
| 72.5° | 158.3  | 160.3  | 160.3  | 158.3  | 160.3  | 156.4  | 156.4  | 156.4  | 154.5  | 146.8  | 137.0  |
| 75°   | 121.6  | 123.6  | 123.6  | 125.5  | 123.6  | 121.6  | 121.6  | 119.7  | 117.8  | 112.0  | 104.2  |
| 77.5° | 90.7   | 90.7   | 92.6   | 92.6   | 92.6   | 90.7   | 90.7   | 86.9   | 86.9   | 83.0   | 75.3   |
| 80°   | 65.7   | 65.7   | 63.8   | 65.7   | 65.7   | 63.8   | 63.8   | 61.7   | 61.7   | 57.9   | 52.1   |
| 82.5° | 42.5   | 44.4   | 44.4   | 44.4   | 44.4   | 42.5   | 42.5   | 42.5   | 40.5   | 38.6   | 34.8   |
| 85°   | 27.1   | 27.1   | 27.1   | 27.1   | 29.0   | 27.1   | 29.0   | 27.1   | 27.1   | 23.2   | 21.3   |
| 87.5° | 11.6   | 11.6   | 11.6   | 13.5   | 13.5   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 9.6    |
| 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: P880564

CATALOG NUMBER: LD4C30D010 EU4309035 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |
| 2.5°  | 1253.0 | 1254.9 | 1249.1 | 1256.8 | 1251.1 | 1253.0 | 1254.9 | 1253.0 | 1245.3 | 1245.3 | 1266.6 |
| 5°    | 1245.3 | 1249.1 | 1243.4 | 1253.0 | 1249.1 | 1249.1 | 1253.0 | 1251.1 | 1243.4 | 1245.3 | 1264.5 |
| 7.5°  | 1237.6 | 1243.4 | 1239.5 | 1249.1 | 1243.4 | 1243.4 | 1247.2 | 1247.2 | 1239.5 | 1241.4 | 1258.8 |
| 10°   | 1225.9 | 1233.7 | 1231.8 | 1241.4 | 1235.7 | 1235.7 | 1241.4 | 1241.4 | 1233.7 | 1235.7 | 1253.0 |
| 12.5° | 1216.3 | 1224.0 | 1222.1 | 1231.8 | 1228.0 | 1229.9 | 1231.8 | 1235.7 | 1225.9 | 1229.9 | 1245.3 |
| 15°   | 1200.9 | 1208.6 | 1208.6 | 1218.2 | 1214.4 | 1218.2 | 1222.1 | 1228.0 | 1220.1 | 1220.1 | 1235.7 |
| 17.5° | 1183.6 | 1193.2 | 1193.2 | 1200.9 | 1200.9 | 1202.8 | 1210.5 | 1216.3 | 1208.6 | 1210.5 | 1224.0 |
| 20°   | 1164.2 | 1175.8 | 1175.8 | 1185.5 | 1183.6 | 1187.4 | 1193.2 | 1199.0 | 1191.3 | 1191.3 | 1206.7 |
| 22.5° | 1144.8 | 1154.6 | 1156.5 | 1162.3 | 1162.3 | 1164.2 | 1170.0 | 1173.8 | 1164.2 | 1164.2 | 1179.6 |
| 25°   | 1117.9 | 1127.5 | 1129.4 | 1133.3 | 1129.4 | 1129.4 | 1133.3 | 1137.1 | 1127.5 | 1127.5 | 1141.0 |
| 27.5° | 1081.2 | 1090.8 | 1090.8 | 1088.9 | 1085.0 | 1087.0 | 1085.0 | 1087.0 | 1077.3 | 1075.4 | 1088.9 |
| 30°   | 1027.1 | 1032.9 | 1032.9 | 1031.0 | 1025.2 | 1025.2 | 1019.3 | 1021.4 | 1007.8 | 1007.8 | 1019.3 |
| 32.5° | 953.8  | 959.5  | 955.7  | 951.8  | 944.1  | 940.3  | 936.3  | 934.4  | 920.9  | 920.9  | 934.4  |
| 35°   | 866.9  | 870.7  | 865.0  | 857.3  | 847.5  | 841.7  | 836.0  | 828.3  | 818.6  | 820.6  | 828.3  |
| 37.5° | 778.1  | 778.1  | 770.4  | 754.9  | 747.2  | 737.5  | 727.8  | 727.8  | 712.4  | 710.5  | 716.3  |
| 40°   | 702.8  | 695.1  | 681.5  | 660.3  | 646.8  | 637.1  | 623.6  | 615.9  | 604.2  | 604.2  | 614.0  |
| 42.5° | 635.2  | 619.8  | 602.3  | 573.4  | 559.8  | 548.3  | 531.0  | 523.3  | 509.7  | 507.7  | 513.5  |
| 45°   | 575.4  | 559.8  | 534.8  | 503.9  | 486.6  | 473.0  | 447.9  | 438.3  | 426.7  | 424.7  | 428.6  |
| 47.5° | 527.1  | 509.7  | 478.9  | 438.3  | 420.9  | 403.5  | 378.4  | 364.9  | 355.3  | 349.4  | 355.3  |
| 50°   | 484.6  | 461.4  | 428.6  | 386.1  | 363.0  | 347.5  | 316.7  | 303.1  | 289.6  | 285.8  | 287.7  |
| 52.5° | 438.3  | 415.1  | 380.3  | 335.9  | 314.6  | 291.5  | 262.5  | 243.3  | 231.7  | 225.8  | 231.7  |
| 55°   | 388.0  | 364.9  | 330.2  | 285.8  | 262.5  | 241.4  | 210.4  | 195.0  | 181.4  | 175.7  | 181.4  |
| 57.5° | 334.0  | 312.7  | 281.9  | 237.5  | 216.2  | 197.0  | 168.0  | 152.6  | 139.0  | 135.1  | 139.0  |
| 60°   | 287.7  | 270.2  | 239.4  | 197.0  | 179.5  | 158.3  | 133.2  | 117.8  | 106.1  | 104.2  | 106.1  |
| 62.5° | 256.8  | 237.5  | 208.5  | 168.0  | 150.6  | 133.2  | 110.1  | 94.6   | 84.9   | 83.0   | 84.9   |
| 65°   | 225.8  | 204.7  | 177.6  | 142.8  | 125.5  | 112.0  | 88.8   | 75.3   | 65.7   | 63.8   | 65.7   |
| 67.5° | 191.2  | 171.8  | 148.7  | 117.8  | 104.2  | 90.7   | 71.5   | 57.9   | 50.2   | 48.3   | 50.2   |
| 70°   | 158.3  | 140.9  | 117.8  | 94.6   | 81.1   | 71.5   | 54.0   | 44.4   | 36.7   | 34.8   | 36.7   |
| 72.5° | 125.5  | 110.1  | 90.7   | 71.5   | 63.8   | 54.0   | 42.5   | 32.8   | 27.1   | 25.1   | 27.1   |
| 75°   | 96.5   | 84.9   | 69.5   | 52.1   | 46.3   | 40.5   | 29.0   | 23.2   | 19.4   | 17.3   | 19.4   |
| 77.5° | 67.6   | 59.8   | 48.3   | 38.6   | 32.8   | 29.0   | 21.3   | 15.4   | 13.5   | 11.6   | 13.5   |
| 80°   | 46.3   | 40.5   | 32.8   | 25.1   | 21.3   | 17.3   | 13.5   | 9.6    | 7.7    | 7.7    | 7.7    |
| 82.5° | 30.9   | 25.1   | 19.4   | 15.4   | 13.5   | 11.6   | 7.7    | 5.8    | 5.8    | 3.9    | 3.9    |
| 85°   | 17.3   | 15.4   | 11.6   | 9.6    | 7.7    | 5.8    | 3.9    | 3.9    | 1.9    | 1.9    | 1.9    |
| 87.5° | 7.7    | 5.8    | 3.9    | 3.9    | 1.9    | 1.9    | 1.9    | 1.9    | 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°    | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |
| 2.5°  | 1260.7 | 1254.9 | 1262.6 | 1254.9 | 1251.1 | 1254.9 | 1251.1 | 1262.6 | 1253.0 | 1245.3 | 1253.0 |
| 5°    | 1258.8 | 1251.1 | 1258.8 | 1253.0 | 1247.2 | 1249.1 | 1245.3 | 1256.8 | 1245.3 | 1239.5 | 1243.4 |
| 7.5°  | 1254.9 | 1249.1 | 1253.0 | 1247.2 | 1241.4 | 1243.4 | 1239.5 | 1249.1 | 1237.6 | 1231.8 | 1235.7 |
| 10°   | 1249.1 | 1243.4 | 1245.3 | 1241.4 | 1235.7 | 1235.7 | 1231.8 | 1239.5 | 1225.9 | 1218.2 | 1222.1 |
| 12.5° | 1241.4 | 1233.7 | 1237.6 | 1231.8 | 1224.0 | 1224.0 | 1220.1 | 1225.9 | 1212.4 | 1204.7 | 1206.7 |
| 15°   | 1231.8 | 1224.0 | 1224.0 | 1218.2 | 1210.5 | 1210.5 | 1202.8 | 1208.6 | 1193.2 | 1185.5 | 1185.5 |
| 17.5° | 1220.1 | 1210.5 | 1210.5 | 1204.7 | 1195.1 | 1193.2 | 1187.4 | 1193.2 | 1175.8 | 1168.0 | 1168.0 |
| 20°   | 1202.8 | 1195.1 | 1193.2 | 1189.3 | 1179.6 | 1177.7 | 1170.0 | 1171.9 | 1158.4 | 1152.6 | 1150.7 |
| 22.5° | 1179.6 | 1171.9 | 1173.8 | 1168.0 | 1160.3 | 1158.4 | 1150.7 | 1156.5 | 1142.9 | 1137.1 | 1139.1 |
| 25°   | 1139.1 | 1135.2 | 1139.1 | 1137.1 | 1131.4 | 1131.4 | 1127.5 | 1131.4 | 1119.8 | 1115.9 | 1117.9 |
| 27.5° | 1092.7 | 1090.8 | 1092.7 | 1092.7 | 1088.9 | 1088.9 | 1088.9 | 1094.7 | 1083.1 | 1081.2 | 1081.2 |
| 30°   | 1025.2 | 1025.2 | 1027.1 | 1029.1 | 1029.1 | 1032.9 | 1031.0 | 1038.7 | 1031.0 | 1027.1 | 1031.0 |
| 32.5° | 936.3  | 944.1  | 949.9  | 949.9  | 949.9  | 953.8  | 957.6  | 963.4  | 955.7  | 957.6  | 957.6  |
| 35°   | 836.0  | 841.7  | 845.6  | 855.3  | 849.6  | 863.0  | 866.9  | 874.6  | 872.7  | 876.5  | 874.6  |
| 37.5° | 724.0  | 731.8  | 739.5  | 753.0  | 751.0  | 766.4  | 774.2  | 789.6  | 785.8  | 793.5  | 797.3  |
| 40°   | 619.8  | 631.3  | 643.0  | 652.6  | 660.3  | 675.7  | 691.2  | 710.5  | 716.3  | 722.0  | 724.0  |
| 42.5° | 519.3  | 531.0  | 550.2  | 563.8  | 575.4  | 600.4  | 621.7  | 644.9  | 650.7  | 662.2  | 666.1  |
| 45°   | 438.3  | 447.9  | 471.1  | 488.5  | 498.1  | 534.8  | 559.8  | 588.8  | 598.5  | 612.1  | 617.8  |
| 47.5° | 363.0  | 380.3  | 403.5  | 424.7  | 438.3  | 476.8  | 509.7  | 540.6  | 554.1  | 569.6  | 577.3  |
| 50°   | 297.3  | 316.7  | 347.5  | 366.8  | 386.1  | 428.6  | 465.3  | 498.1  | 511.6  | 529.0  | 536.7  |
| 52.5° | 243.3  | 264.5  | 293.5  | 314.6  | 335.9  | 380.3  | 418.9  | 449.9  | 467.2  | 478.9  | 490.4  |
| 55°   | 191.2  | 214.3  | 243.3  | 266.4  | 283.8  | 332.1  | 364.9  | 395.7  | 407.4  | 417.0  | 422.8  |
| 57.5° | 148.7  | 166.0  | 195.0  | 214.3  | 235.6  | 278.0  | 310.8  | 334.0  | 343.6  | 355.3  | 359.1  |
| 60°   | 115.9  | 133.2  | 160.3  | 179.5  | 198.9  | 239.4  | 272.3  | 295.4  | 305.0  | 314.6  | 320.5  |
| 62.5° | 92.6   | 110.1  | 135.1  | 152.6  | 169.9  | 206.6  | 235.6  | 258.7  | 270.2  | 280.0  | 285.8  |
| 65°   | 73.4   | 88.8   | 110.1  | 127.4  | 140.9  | 173.7  | 202.7  | 223.9  | 235.6  | 245.2  | 251.0  |
| 67.5° | 57.9   | 71.5   | 90.7   | 102.3  | 115.9  | 142.8  | 168.0  | 187.2  | 197.0  | 208.5  | 214.3  |
| 70°   | 44.4   | 54.0   | 71.5   | 81.1   | 90.7   | 113.9  | 133.2  | 152.6  | 162.2  | 169.9  | 173.7  |
| 72.5° | 32.8   | 40.5   | 54.0   | 61.7   | 67.6   | 86.9   | 102.3  | 115.9  | 123.6  | 131.3  | 135.1  |
| 75°   | 23.2   | 29.0   | 38.6   | 44.4   | 48.3   | 61.7   | 75.3   | 84.9   | 90.7   | 96.5   | 102.3  |
| 77.5° | 15.4   | 19.4   | 25.1   | 29.0   | 32.8   | 42.5   | 50.2   | 57.9   | 63.8   | 69.5   | 71.5   |
| 80°   | 9.6    | 13.5   | 17.3   | 19.4   | 21.3   | 27.1   | 34.8   | 38.6   | 42.5   | 46.3   | 48.3   |
| 82.5° | 5.8    | 7.7    | 9.6    | 11.6   | 13.5   | 17.3   | 21.3   | 25.1   | 27.1   | 30.9   | 32.8   |
| 85°   | 1.9    | 3.9    | 3.9    | 5.8    | 5.8    | 9.6    | 11.6   | 13.5   | 15.4   | 17.3   | 19.4   |
| 87.5° | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 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: P880564

CATALOG NUMBER: LD4C30D010 EU4309035 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |
| 2.5°  | 1260.7 | 1254.9 | 1251.1 | 1249.1 | 1262.6 | 1245.3 | 1253.0 | 1254.9 |
| 5°    | 1253.0 | 1247.2 | 1243.4 | 1241.4 | 1253.0 | 1237.6 | 1243.4 | 1247.2 |
| 7.5°  | 1241.4 | 1237.6 | 1231.8 | 1229.9 | 1241.4 | 1224.0 | 1231.8 | 1233.7 |
| 10°   | 1228.0 | 1222.1 | 1218.2 | 1216.3 | 1225.9 | 1208.6 | 1216.3 | 1216.3 |
| 12.5° | 1210.5 | 1206.7 | 1199.0 | 1199.0 | 1206.7 | 1191.3 | 1197.0 | 1197.0 |
| 15°   | 1187.4 | 1183.6 | 1175.8 | 1175.8 | 1183.6 | 1168.0 | 1173.8 | 1173.8 |
| 17.5° | 1168.0 | 1164.2 | 1158.4 | 1156.5 | 1164.2 | 1148.8 | 1154.6 | 1152.6 |
| 20°   | 1152.6 | 1148.8 | 1141.0 | 1141.0 | 1146.9 | 1131.4 | 1137.1 | 1137.1 |
| 22.5° | 1139.1 | 1137.1 | 1129.4 | 1129.4 | 1137.1 | 1121.7 | 1125.6 | 1121.7 |
| 25°   | 1117.9 | 1115.9 | 1108.2 | 1110.2 | 1114.0 | 1098.5 | 1104.4 | 1100.4 |
| 27.5° | 1083.1 | 1083.1 | 1075.4 | 1073.5 | 1079.2 | 1065.8 | 1069.6 | 1067.7 |
| 30°   | 1029.1 | 1031.0 | 1021.4 | 1021.4 | 1023.3 | 1011.6 | 1017.4 | 1015.5 |
| 32.5° | 955.7  | 957.6  | 949.9  | 948.0  | 953.8  | 944.1  | 948.0  | 948.0  |
| 35°   | 874.6  | 876.5  | 870.7  | 870.7  | 876.5  | 870.7  | 870.7  | 868.8  |
| 37.5° | 793.5  | 797.3  | 793.5  | 795.4  | 799.3  | 793.5  | 797.3  | 795.4  |
| 40°   | 727.8  | 731.8  | 725.9  | 729.7  | 733.7  | 727.8  | 733.7  | 729.7  |
| 42.5° | 668.0  | 673.8  | 669.9  | 673.8  | 677.6  | 673.8  | 677.6  | 671.9  |
| 45°   | 623.6  | 627.5  | 625.5  | 627.5  | 631.3  | 629.4  | 631.3  | 629.4  |
| 47.5° | 581.1  | 588.8  | 585.0  | 588.8  | 594.6  | 590.8  | 594.6  | 588.8  |
| 50°   | 542.5  | 548.3  | 546.4  | 550.2  | 552.1  | 550.2  | 554.1  | 548.3  |
| 52.5° | 492.3  | 498.1  | 496.2  | 496.2  | 500.0  | 496.2  | 500.0  | 496.2  |
| 55°   | 426.7  | 428.6  | 428.6  | 430.5  | 428.6  | 426.7  | 428.6  | 424.7  |
| 57.5° | 363.0  | 366.8  | 361.1  | 366.8  | 364.9  | 363.0  | 363.0  | 359.1  |
| 60°   | 322.4  | 328.2  | 324.4  | 328.2  | 326.3  | 326.3  | 326.3  | 324.4  |
| 62.5° | 289.6  | 293.5  | 289.6  | 291.5  | 291.5  | 291.5  | 289.6  | 287.7  |
| 65°   | 252.9  | 258.7  | 254.8  | 256.8  | 254.8  | 252.9  | 254.8  | 252.9  |
| 67.5° | 216.2  | 218.1  | 218.1  | 216.2  | 216.2  | 216.2  | 216.2  | 212.4  |
| 70°   | 175.7  | 177.6  | 175.7  | 179.5  | 177.6  | 175.7  | 177.6  | 173.7  |
| 72.5° | 137.0  | 139.0  | 137.0  | 139.0  | 137.0  | 137.0  | 137.0  | 137.0  |
| 75°   | 102.3  | 104.2  | 104.2  | 104.2  | 104.2  | 104.2  | 100.5  | 104.2  |
| 77.5° | 73.4   | 73.4   | 73.4   | 75.3   | 73.4   | 73.4   | 73.4   | 73.4   |
| 80°   | 50.2   | 50.2   | 50.2   | 52.1   | 50.2   | 52.1   | 50.2   | 52.1   |
| 82.5° | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 85°   | 17.3   | 19.4   | 19.4   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   |
| 87.5° | 3.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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)