

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: P879345

Luminaire Tested: **LD4C08D010 EU4089040 4LBDWWLI**

Issue Date: 10/1/2024

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: P879345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EU4089040 4LBDWWLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

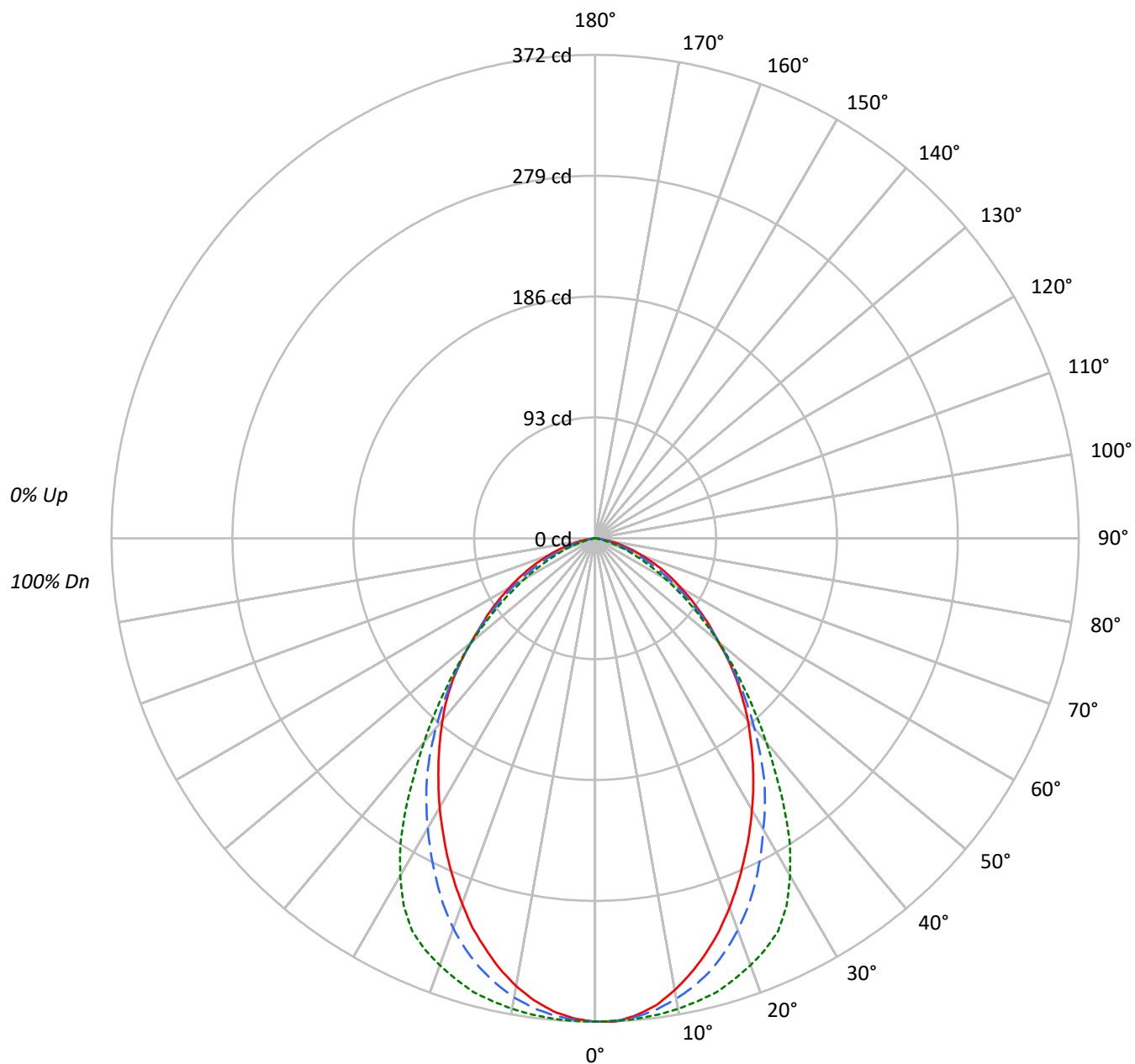
Lumens per Lamp: N/A  
Luminaire Lumens: 683.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.87  
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 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 45689 | 45689 | 45689 |
| 5°  | 45420 | 45765 | 45074 |
| 10° | 44036 | 45870 | 43650 |
| 15° | 42010 | 45978 | 41552 |
| 20° | 39535 | 45706 | 39091 |
| 25° | 36816 | 45167 | 36518 |
| 30° | 34216 | 42529 | 33933 |
| 35° | 31720 | 38049 | 31495 |
| 40° | 29332 | 32812 | 29300 |
| 45° | 26721 | 28007 | 26947 |
| 50° | 23604 | 23681 | 23738 |
| 55° | 21140 | 19363 | 21247 |
| 60° | 18698 | 15381 | 18723 |
| 65° | 16453 | 11715 | 16279 |
| 70° | 13650 | 8405  | 13650 |
| 75° | 10633 | 4842  | 10253 |
| 80° | 6863  | 1203  | 6580  |
| 85° | 2537  | 423   | 1973  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.9   | 5.1       |
| 10°-20°   | 96.6   | 14.1      |
| 20°-30°   | 135.0  | 19.8      |
| 30°-40°   | 142.4  | 20.9      |
| 40°-50°   | 121.2  | 17.7      |
| 50°-60°   | 85.5   | 12.5      |
| 60°-70°   | 48.5   | 7.1       |
| 70°-80°   | 17.3   | 2.5       |
| 80°-90°   | 1.7    | 0.2       |
| 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°    | 266.5  | 39.0      |
| 0°-40°    | 408.9  | 59.9      |
| 0°-60°    | 615.6  | 90.1      |
| 0°-90°    | 683.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 683.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 372 | 372 | 372 | 372  | 372  |      |
| 5°  | 368 | 370 | 371 | 368  | 366  | 35   |
| 15° | 330 | 344 | 362 | 342  | 327  | 93   |
| 25° | 272 | 292 | 333 | 289  | 269  | 125  |
| 35° | 212 | 227 | 254 | 226  | 210  | 132  |
| 45° | 154 | 156 | 161 | 157  | 155  | 118  |
| 55° | 99  | 95  | 90  | 96   | 99   | 89   |
| 65° | 57  | 48  | 40  | 49   | 56   | 56   |
| 75° | 22  | 15  | 10  | 15   | 22   | 24   |
| 85° | 2   | 1   | 0   | 1    | 1    | 3    |
| 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°    | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 |
| 2.5°  | 372.2 | 371.5 | 371.5 | 371.5 | 371.5 | 371.5 | 371.5 | 371.5 | 371.5 | 371.6 | 371.6 |
| 5°    | 368.3 | 368.0 | 367.9 | 367.9 | 367.9 | 367.9 | 368.0 | 368.6 | 368.8 | 369.2 | 369.5 |
| 7.5°  | 362.2 | 361.6 | 361.9 | 361.9 | 362.2 | 362.4 | 362.8 | 363.4 | 364.2 | 364.8 | 365.5 |
| 10°   | 353.0 | 352.4 | 353.1 | 353.4 | 354.2 | 354.6 | 355.3 | 356.2 | 357.8 | 358.7 | 359.8 |
| 12.5° | 342.3 | 342.0 | 342.3 | 343.4 | 344.2 | 344.8 | 345.6 | 347.4 | 349.1 | 350.9 | 352.8 |
| 15°   | 330.3 | 329.6 | 330.0 | 331.4 | 332.8 | 333.8 | 334.5 | 336.8 | 339.1 | 341.8 | 344.2 |
| 17.5° | 317.0 | 316.0 | 317.1 | 318.2 | 320.0 | 320.8 | 321.8 | 324.5 | 327.5 | 330.6 | 333.2 |
| 20°   | 302.4 | 302.1 | 302.8 | 304.3 | 306.1 | 307.2 | 308.1 | 311.0 | 313.6 | 317.8 | 320.8 |
| 22.5° | 287.2 | 287.5 | 288.0 | 289.7 | 290.9 | 292.5 | 293.7 | 296.4 | 299.4 | 303.3 | 307.2 |
| 25°   | 271.6 | 272.0 | 273.0 | 274.1 | 276.2 | 277.0 | 278.6 | 281.4 | 284.0 | 287.6 | 291.9 |
| 27.5° | 256.6 | 256.7 | 257.8 | 258.4 | 260.4 | 262.2 | 262.9 | 265.8 | 268.8 | 271.6 | 275.4 |
| 30°   | 241.2 | 241.6 | 242.3 | 243.8 | 245.7 | 246.4 | 247.3 | 249.9 | 252.3 | 255.8 | 258.7 |
| 32.5° | 226.4 | 226.1 | 227.0 | 227.8 | 230.0 | 231.3 | 231.7 | 234.8 | 236.8 | 240.3 | 243.1 |
| 35°   | 211.5 | 210.8 | 212.1 | 212.9 | 214.9 | 216.0 | 216.5 | 218.9 | 220.9 | 223.8 | 226.8 |
| 37.5° | 196.7 | 197.2 | 197.8 | 198.5 | 199.4 | 199.7 | 201.4 | 201.9 | 204.4 | 206.7 | 208.3 |
| 40°   | 182.9 | 182.6 | 182.3 | 183.0 | 184.3 | 184.8 | 185.0 | 186.5 | 187.1 | 189.3 | 190.5 |
| 42.5° | 168.1 | 168.3 | 168.1 | 168.3 | 169.0 | 169.0 | 169.4 | 170.4 | 170.8 | 171.5 | 173.0 |
| 45°   | 153.8 | 153.8 | 153.4 | 153.5 | 153.7 | 153.5 | 153.7 | 154.1 | 154.9 | 154.9 | 156.0 |
| 47.5° | 138.9 | 138.7 | 139.2 | 138.8 | 138.5 | 138.4 | 138.8 | 138.4 | 139.2 | 139.2 | 139.5 |
| 50°   | 123.5 | 123.5 | 124.2 | 124.1 | 124.3 | 123.8 | 123.9 | 123.9 | 124.1 | 123.9 | 124.5 |
| 52.5° | 111.5 | 111.3 | 111.0 | 110.3 | 110.6 | 110.0 | 110.0 | 110.1 | 109.7 | 109.6 | 108.9 |
| 55°   | 98.7  | 99.0  | 98.6  | 98.3  | 98.3  | 97.8  | 97.6  | 96.8  | 96.2  | 95.8  | 95.4  |
| 57.5° | 87.2  | 87.5  | 87.3  | 86.6  | 85.8  | 85.9  | 85.7  | 84.8  | 83.6  | 82.8  | 82.1  |
| 60°   | 76.1  | 76.4  | 76.1  | 75.4  | 75.1  | 74.5  | 74.4  | 73.3  | 72.3  | 71.2  | 70.4  |
| 62.5° | 66.1  | 66.1  | 65.9  | 64.9  | 64.3  | 64.4  | 63.7  | 62.9  | 61.6  | 60.1  | 58.8  |
| 65°   | 56.6  | 56.5  | 55.8  | 55.4  | 54.8  | 54.1  | 53.7  | 52.4  | 51.5  | 50.2  | 48.5  |
| 67.5° | 47.1  | 46.7  | 46.5  | 46.0  | 44.8  | 44.6  | 44.1  | 43.0  | 41.6  | 40.6  | 39.2  |
| 70°   | 38.0  | 37.8  | 37.3  | 37.3  | 36.3  | 35.9  | 35.0  | 34.1  | 32.8  | 31.4  | 30.3  |
| 72.5° | 30.0  | 29.8  | 29.2  | 28.6  | 27.8  | 27.5  | 26.8  | 25.9  | 24.8  | 23.4  | 22.0  |
| 75°   | 22.4  | 22.1  | 22.0  | 21.3  | 20.6  | 19.9  | 19.6  | 18.6  | 17.5  | 16.6  | 15.3  |
| 77.5° | 15.7  | 15.4  | 15.0  | 14.6  | 14.2  | 13.8  | 13.4  | 12.5  | 11.5  | 10.7  | 9.6   |
| 80°   | 9.7   | 9.5   | 9.2   | 9.0   | 8.6   | 8.5   | 7.9   | 7.5   | 6.7   | 6.1   | 5.4   |
| 82.5° | 5.0   | 5.0   | 4.7   | 4.6   | 4.3   | 4.2   | 4.0   | 3.6   | 3.2   | 2.8   | 2.4   |
| 85°   | 1.8   | 1.8   | 1.7   | 1.5   | 1.5   | 1.4   | 1.4   | 1.3   | 1.0   | 1.0   | 0.7   |
| 87.5° | 0.1   | 0.1   | 0.3   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 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):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 |
| 2.5°  | 371.8 | 371.6 | 371.8 | 371.8 | 371.9 | 371.9 | 371.9 | 371.8 | 371.9 | 371.8 | 371.8 |
| 5°    | 369.5 | 369.9 | 370.2 | 370.5 | 370.6 | 370.8 | 370.8 | 370.9 | 371.1 | 371.1 | 370.9 |
| 7.5°  | 366.0 | 366.9 | 367.7 | 368.3 | 368.6 | 368.8 | 369.2 | 369.5 | 369.8 | 369.7 | 369.5 |
| 10°   | 361.5 | 362.8 | 364.0 | 365.1 | 365.6 | 366.0 | 366.7 | 367.3 | 367.6 | 367.7 | 367.3 |
| 12.5° | 354.9 | 356.9 | 358.7 | 360.5 | 361.3 | 361.9 | 363.3 | 364.2 | 364.8 | 364.8 | 364.4 |
| 15°   | 346.7 | 349.5 | 352.1 | 354.5 | 355.9 | 356.7 | 358.8 | 360.2 | 361.0 | 361.5 | 360.8 |
| 17.5° | 336.8 | 340.0 | 343.2 | 346.3 | 347.7 | 348.9 | 351.9 | 353.8 | 355.6 | 355.9 | 355.1 |
| 20°   | 324.2 | 328.2 | 331.8 | 335.6 | 337.1 | 339.1 | 342.4 | 345.6 | 348.4 | 349.6 | 347.3 |
| 22.5° | 310.0 | 314.5 | 317.8 | 322.4 | 324.5 | 326.6 | 330.9 | 334.9 | 339.8 | 342.4 | 338.2 |
| 25°   | 295.3 | 299.0 | 303.0 | 307.5 | 310.4 | 312.6 | 317.6 | 322.8 | 329.3 | 333.2 | 327.4 |
| 27.5° | 279.4 | 282.7 | 287.6 | 292.5 | 294.7 | 297.5 | 303.5 | 309.0 | 315.3 | 318.8 | 314.5 |
| 30°   | 263.0 | 267.2 | 271.8 | 276.2 | 279.4 | 282.0 | 286.9 | 291.6 | 296.9 | 299.8 | 296.6 |
| 32.5° | 246.7 | 250.8 | 254.6 | 259.5 | 261.3 | 263.7 | 268.0 | 272.0 | 276.1 | 278.7 | 275.0 |
| 35°   | 229.6 | 233.2 | 236.8 | 240.2 | 241.0 | 243.8 | 247.3 | 249.6 | 251.6 | 253.7 | 251.2 |
| 37.5° | 211.0 | 213.8 | 215.6 | 219.2 | 220.6 | 221.0 | 223.8 | 225.4 | 227.5 | 227.9 | 227.8 |
| 40°   | 192.1 | 194.6 | 196.1 | 198.3 | 199.4 | 199.4 | 201.4 | 202.9 | 204.4 | 204.6 | 204.4 |
| 42.5° | 174.4 | 175.7 | 176.9 | 178.3 | 178.0 | 179.7 | 180.5 | 181.2 | 182.3 | 182.3 | 182.6 |
| 45°   | 156.6 | 157.6 | 158.7 | 159.0 | 160.1 | 160.1 | 160.8 | 161.1 | 161.6 | 161.2 | 160.6 |
| 47.5° | 140.0 | 140.5 | 140.6 | 141.9 | 142.1 | 141.2 | 142.0 | 142.1 | 142.0 | 142.0 | 141.7 |
| 50°   | 124.3 | 124.6 | 124.5 | 124.1 | 124.2 | 124.6 | 124.2 | 123.6 | 123.9 | 123.9 | 124.2 |
| 52.5° | 109.0 | 108.5 | 108.2 | 108.2 | 107.6 | 107.6 | 106.9 | 106.7 | 106.5 | 106.0 | 106.7 |
| 55°   | 95.0  | 94.2  | 92.9  | 92.6  | 92.2  | 92.1  | 91.2  | 90.5  | 90.3  | 90.4  | 90.3  |
| 57.5° | 81.5  | 80.2  | 79.4  | 79.1  | 78.7  | 77.9  | 76.9  | 76.2  | 76.1  | 75.8  | 75.8  |
| 60°   | 69.3  | 67.9  | 66.6  | 65.4  | 65.5  | 64.9  | 64.0  | 63.6  | 63.1  | 62.6  | 63.0  |
| 62.5° | 58.1  | 56.6  | 55.2  | 54.0  | 53.1  | 52.7  | 52.0  | 51.3  | 50.9  | 50.5  | 51.0  |
| 65°   | 47.1  | 45.9  | 44.4  | 43.1  | 42.7  | 42.3  | 41.6  | 40.5  | 40.3  | 40.3  | 40.6  |
| 67.5° | 37.3  | 35.9  | 34.5  | 33.7  | 33.1  | 32.5  | 32.3  | 31.7  | 31.3  | 31.0  | 31.2  |
| 70°   | 28.6  | 27.3  | 26.1  | 25.3  | 24.9  | 24.8  | 23.8  | 23.6  | 23.5  | 23.4  | 23.2  |
| 72.5° | 20.9  | 19.7  | 18.8  | 18.2  | 17.7  | 17.2  | 17.0  | 16.6  | 16.4  | 16.4  | 16.4  |
| 75°   | 14.3  | 13.5  | 12.4  | 11.7  | 11.4  | 11.0  | 10.6  | 10.3  | 10.0  | 10.2  | 10.2  |
| 77.5° | 8.6   | 7.8   | 7.1   | 6.5   | 6.4   | 6.0   | 5.6   | 5.3   | 4.9   | 4.9   | 5.0   |
| 80°   | 4.7   | 4.0   | 3.5   | 3.1   | 2.8   | 2.6   | 2.2   | 2.1   | 1.8   | 1.7   | 1.7   |
| 82.5° | 2.1   | 1.7   | 1.4   | 1.3   | 1.1   | 1.0   | 0.8   | 0.7   | 0.7   | 0.6   | 0.7   |
| 85°   | 0.7   | 0.6   | 0.4   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.1   | 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 371.9 | 371.9 | 371.9 | 371.9  | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 |
| 2.5°  | 371.6 | 371.6 | 371.5 | 371.5  | 371.5 | 371.2 | 371.2 | 371.1 | 370.9 | 370.8 | 370.5 |
| 5°    | 370.6 | 370.5 | 370.2 | 370.1  | 369.9 | 369.5 | 369.1 | 368.8 | 368.4 | 367.9 | 367.6 |
| 7.5°  | 369.2 | 368.8 | 368.3 | 368.0  | 367.6 | 366.6 | 365.9 | 365.2 | 364.5 | 363.5 | 362.4 |
| 10°   | 366.9 | 366.0 | 365.2 | 364.7  | 364.0 | 362.7 | 361.3 | 360.2 | 358.7 | 357.3 | 355.8 |
| 12.5° | 363.5 | 362.6 | 360.9 | 360.1  | 359.2 | 357.4 | 355.6 | 353.3 | 351.2 | 349.2 | 347.4 |
| 15°   | 359.4 | 357.6 | 355.6 | 354.5  | 353.3 | 350.3 | 347.6 | 345.0 | 342.3 | 339.9 | 337.0 |
| 17.5° | 353.3 | 350.6 | 347.8 | 346.6  | 344.9 | 341.6 | 338.2 | 334.8 | 331.6 | 328.6 | 325.0 |
| 20°   | 344.1 | 341.2 | 337.5 | 335.6  | 334.2 | 329.7 | 326.6 | 322.7 | 319.3 | 315.7 | 311.7 |
| 22.5° | 333.4 | 329.3 | 325.3 | 322.5  | 321.0 | 316.5 | 312.2 | 308.7 | 305.1 | 301.0 | 298.0 |
| 25°   | 321.3 | 316.3 | 311.4 | 308.6  | 306.2 | 301.5 | 297.3 | 293.7 | 289.3 | 285.7 | 282.7 |
| 27.5° | 307.6 | 301.9 | 296.2 | 293.5  | 291.2 | 286.1 | 281.6 | 277.9 | 273.6 | 270.4 | 267.3 |
| 30°   | 291.4 | 286.2 | 280.8 | 278.6  | 275.9 | 270.6 | 265.5 | 262.2 | 257.4 | 254.1 | 250.8 |
| 32.5° | 271.1 | 267.7 | 263.4 | 260.4  | 259.0 | 254.1 | 249.8 | 245.7 | 241.7 | 239.1 | 235.7 |
| 35°   | 248.8 | 245.9 | 242.3 | 240.6  | 238.8 | 235.7 | 232.3 | 228.8 | 225.6 | 223.1 | 220.0 |
| 37.5° | 226.3 | 223.4 | 221.1 | 219.3  | 218.2 | 215.4 | 213.3 | 210.7 | 208.5 | 206.1 | 204.4 |
| 40°   | 202.9 | 202.1 | 199.7 | 198.9  | 198.6 | 195.5 | 193.7 | 191.6 | 190.3 | 188.9 | 187.9 |
| 42.5° | 182.2 | 180.8 | 179.0 | 179.1  | 178.3 | 176.6 | 175.4 | 174.0 | 173.0 | 172.3 | 171.3 |
| 45°   | 161.7 | 160.6 | 159.8 | 160.5  | 159.1 | 158.5 | 157.6 | 157.4 | 156.7 | 155.5 | 155.1 |
| 47.5° | 142.3 | 142.1 | 142.3 | 141.9  | 141.6 | 141.3 | 141.4 | 140.7 | 140.0 | 139.6 | 139.1 |
| 50°   | 124.5 | 124.6 | 124.9 | 125.3  | 124.3 | 124.8 | 124.6 | 124.5 | 124.5 | 124.1 | 124.3 |
| 52.5° | 107.2 | 107.4 | 107.6 | 108.1  | 108.2 | 108.2 | 108.6 | 108.9 | 109.5 | 110.1 | 110.1 |
| 55°   | 91.0  | 91.9  | 92.5  | 93.2   | 92.8  | 93.6  | 94.0  | 95.3  | 95.7  | 95.7  | 96.2  |
| 57.5° | 76.5  | 77.5  | 77.9  | 78.7   | 79.0  | 79.7  | 80.8  | 81.5  | 82.5  | 83.3  | 84.1  |
| 60°   | 63.3  | 63.7  | 64.8  | 66.1   | 65.8  | 67.5  | 68.3  | 69.4  | 70.7  | 71.2  | 72.3  |
| 62.5° | 51.5  | 52.0  | 52.8  | 53.3   | 54.2  | 55.1  | 57.0  | 58.1  | 59.2  | 60.6  | 61.7  |
| 65°   | 40.9  | 41.4  | 42.3  | 43.1   | 43.5  | 44.8  | 45.8  | 47.7  | 48.7  | 50.2  | 51.5  |
| 67.5° | 31.3  | 32.1  | 32.8  | 33.4   | 33.7  | 34.9  | 36.4  | 37.3  | 39.1  | 40.6  | 41.6  |
| 70°   | 23.4  | 24.1  | 24.9  | 24.8   | 25.3  | 26.3  | 27.4  | 28.6  | 30.0  | 31.4  | 32.5  |
| 72.5° | 16.3  | 17.0  | 17.5  | 17.7   | 18.2  | 18.9  | 19.7  | 20.7  | 21.8  | 23.2  | 24.8  |
| 75°   | 10.3  | 10.4  | 11.0  | 11.3   | 11.5  | 12.4  | 13.1  | 14.0  | 15.0  | 16.1  | 17.1  |
| 77.5° | 5.1   | 5.6   | 5.8   | 6.1    | 6.3   | 7.0   | 7.6   | 8.5   | 9.3   | 10.4  | 11.4  |
| 80°   | 1.9   | 2.1   | 2.5   | 2.6    | 2.9   | 3.3   | 3.9   | 4.3   | 5.0   | 5.8   | 6.4   |
| 82.5° | 0.7   | 0.8   | 1.0   | 1.0    | 1.1   | 1.4   | 1.5   | 1.9   | 2.4   | 2.6   | 2.9   |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3    | 0.3   | 0.4   | 0.4   | 0.6   | 0.7   | 0.8   | 0.8   |
| 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: P879345

CATALOG NUMBER: LD4C08D010 EU4089040 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 371.9 | 371.9 | 371.9  | 371.9 | 371.9 | 371.9 | 371.9 | 371.9 |
| 2.5°  | 370.4 | 370.4 | 370.2  | 370.1 | 370.1 | 370.1 | 369.9 | 369.9 |
| 5°    | 367.0 | 366.6 | 366.5  | 366.2 | 366.0 | 365.9 | 365.5 | 365.5 |
| 7.5°  | 361.6 | 361.0 | 360.6  | 360.2 | 359.7 | 359.2 | 359.2 | 358.7 |
| 10°   | 354.4 | 353.3 | 352.7  | 352.1 | 351.4 | 350.6 | 350.3 | 349.9 |
| 12.5° | 345.6 | 343.4 | 342.8  | 341.8 | 340.7 | 340.2 | 339.2 | 339.2 |
| 15°   | 334.8 | 332.4 | 331.1  | 330.6 | 329.2 | 328.2 | 327.8 | 326.7 |
| 17.5° | 322.1 | 320.3 | 318.3  | 317.5 | 316.0 | 314.7 | 314.2 | 314.0 |
| 20°   | 309.3 | 306.4 | 305.1  | 303.9 | 302.1 | 301.0 | 300.1 | 299.0 |
| 22.5° | 294.6 | 291.9 | 290.1  | 289.3 | 287.7 | 285.8 | 284.4 | 284.4 |
| 25°   | 279.0 | 276.6 | 275.6  | 273.8 | 272.0 | 271.3 | 269.7 | 269.4 |
| 27.5° | 264.1 | 261.7 | 259.8  | 258.8 | 256.7 | 255.8 | 254.4 | 253.8 |
| 30°   | 248.7 | 245.9 | 244.5  | 244.4 | 241.9 | 240.9 | 239.8 | 239.2 |
| 32.5° | 233.2 | 230.9 | 229.5  | 228.6 | 227.5 | 225.9 | 224.9 | 224.3 |
| 35°   | 217.9 | 216.4 | 215.2  | 214.2 | 212.4 | 211.5 | 210.7 | 210.0 |
| 37.5° | 201.9 | 200.5 | 200.0  | 199.2 | 198.3 | 196.8 | 196.5 | 196.0 |
| 40°   | 186.5 | 184.7 | 184.7  | 184.1 | 183.3 | 183.2 | 182.7 | 182.7 |
| 42.5° | 170.4 | 169.5 | 169.4  | 169.5 | 169.0 | 168.7 | 168.3 | 169.3 |
| 45°   | 154.4 | 154.8 | 154.1  | 154.2 | 154.0 | 154.5 | 154.5 | 155.1 |
| 47.5° | 139.6 | 139.1 | 139.4  | 139.6 | 140.0 | 140.0 | 139.9 | 139.8 |
| 50°   | 123.9 | 124.5 | 125.0  | 124.3 | 124.6 | 124.8 | 124.1 | 124.2 |
| 52.5° | 110.4 | 110.6 | 111.0  | 110.6 | 111.0 | 110.8 | 111.1 | 110.6 |
| 55°   | 97.4  | 97.4  | 97.9   | 98.0  | 98.2  | 98.6  | 98.7  | 99.2  |
| 57.5° | 84.7  | 85.4  | 86.1   | 85.9  | 86.5  | 87.1  | 86.6  | 87.1  |
| 60°   | 73.7  | 74.3  | 75.0   | 75.2  | 75.7  | 75.9  | 75.9  | 76.2  |
| 62.5° | 62.6  | 63.7  | 64.3   | 64.8  | 64.8  | 65.4  | 65.9  | 66.1  |
| 65°   | 52.6  | 53.8  | 54.2   | 54.7  | 54.9  | 55.5  | 56.2  | 56.0  |
| 67.5° | 43.1  | 43.9  | 44.5   | 44.8  | 45.6  | 45.9  | 46.5  | 47.0  |
| 70°   | 33.8  | 34.9  | 35.3   | 35.9  | 36.6  | 37.1  | 37.7  | 38.0  |
| 72.5° | 25.9  | 26.7  | 27.0   | 27.5  | 28.2  | 28.8  | 29.1  | 29.5  |
| 75°   | 18.1  | 19.5  | 19.6   | 20.0  | 20.6  | 21.3  | 21.7  | 21.6  |
| 77.5° | 12.0  | 12.9  | 13.1   | 13.6  | 14.2  | 14.7  | 14.9  | 15.0  |
| 80°   | 7.1   | 7.6   | 7.8    | 8.1   | 8.5   | 8.8   | 9.0   | 9.3   |
| 82.5° | 3.3   | 3.6   | 3.9    | 3.9   | 4.2   | 4.5   | 4.5   | 4.6   |
| 85°   | 1.1   | 1.1   | 1.3    | 1.3   | 1.4   | 1.4   | 1.5   | 1.4   |
| 87.5° | 0.1   | 0.1   | 0.0    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 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)