

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: P880532

Luminaire Tested: **LD4C08D010 EU4089027 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: P880532  
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: LD4C08D010 EU4089027 4LBDWNH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

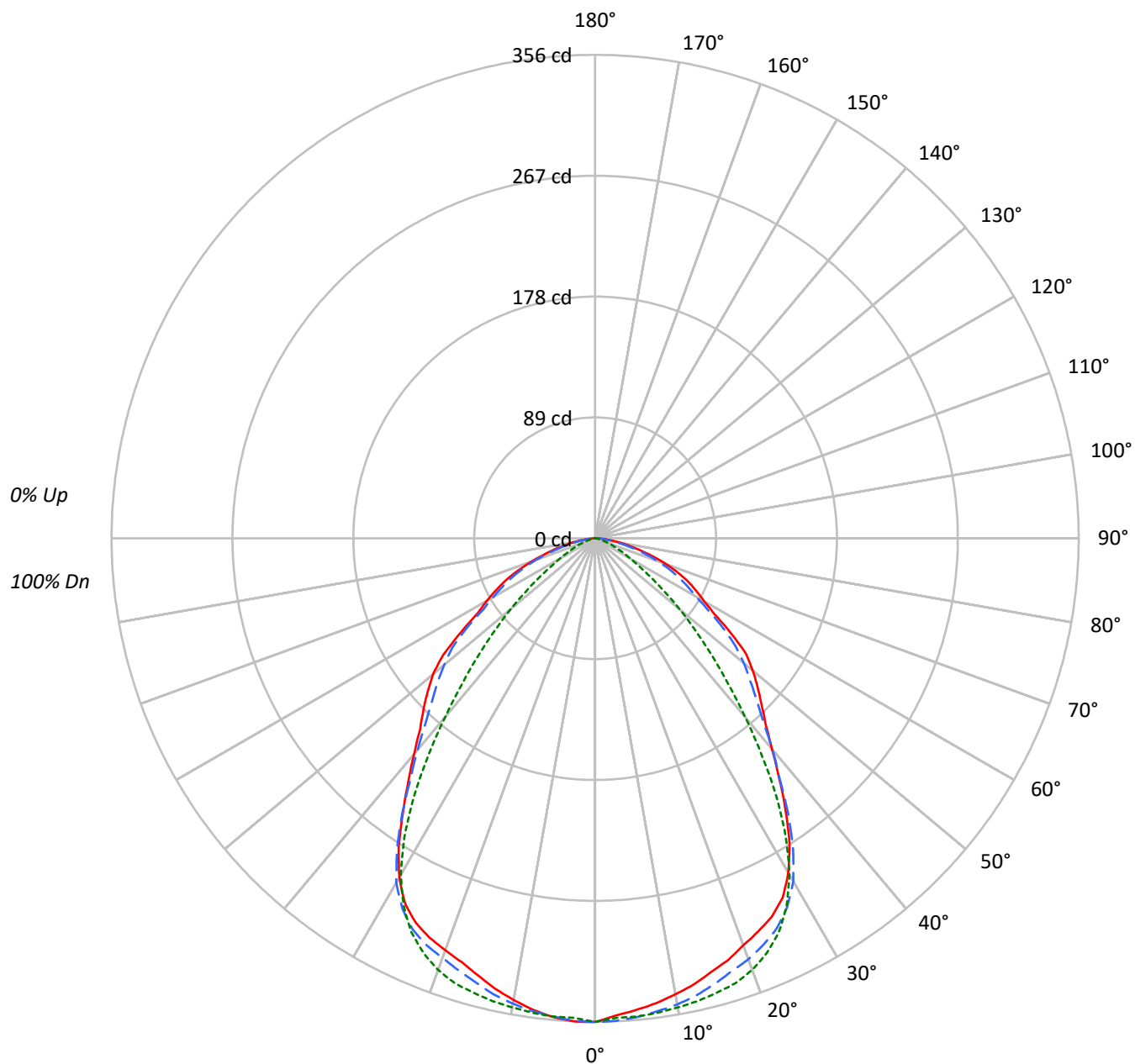
Lumens per Lamp: N/A  
Luminaire Lumens: 725.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  |  | 100 | 98  | 95  |  | 96  | 94  | 92  |  | 93  | 91  | 89  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  |  | 90  | 85  | 81  |  | 87  | 83  | 80  |  | 84  | 81  | 78  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  |  | 81  | 75  | 70  |  | 78  | 73  | 69  |  | 76  | 72  | 68  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  |  | 73  | 67  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 60  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  |  | 66  | 60  | 54  |  | 64  | 58  | 54  |  | 63  | 57  | 53  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 59  | 53  | 48  |  | 57  | 52  | 48  |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  |  | 56  | 49  | 44  |  | 54  | 48  | 43  |  | 53  | 47  | 43  |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  |  | 51  | 44  | 40  |  | 50  | 44  | 39  |  | 49  | 43  | 39  |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  |  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  | 40  | 36  |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  |  | 44  | 38  | 33  |  | 43  | 37  | 33  |  | 42  | 37  | 33  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 43760 | 43760 | 43760 |
| 5°  | 42990 | 43595 | 43656 |
| 10° | 42527 | 43762 | 43076 |
| 15° | 42035 | 44058 | 42379 |
| 20° | 41705 | 44216 | 42202 |
| 25° | 41683 | 43391 | 42347 |
| 30° | 40345 | 40586 | 40898 |
| 35° | 36654 | 34930 | 36984 |
| 40° | 32428 | 27504 | 33229 |
| 45° | 30092 | 20953 | 31048 |
| 50° | 28917 | 15500 | 29758 |
| 55° | 26174 | 10688 | 25831 |
| 60° | 22752 | 7273  | 22630 |
| 65° | 21977 | 5262  | 20872 |
| 70° | 19864 | 3556  | 17709 |
| 75° | 16376 | 2326  | 14050 |
| 80° | 13159 | 1556  | 10471 |
| 85° | 10854 | 705   | 6907  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.6   | 4.6       |
| 10°-20°   | 96.2   | 13.3      |
| 20°-30°   | 145.3  | 20.0      |
| 30°-40°   | 152.0  | 21.0      |
| 40°-50°   | 123.1  | 17.0      |
| 50°-60°   | 89.6   | 12.4      |
| 60°-70°   | 55.2   | 7.6       |
| 70°-80°   | 25.0   | 3.4       |
| 80°-90°   | 5.1    | 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°    | 275.0  | 37.9      |
| 0°-40°    | 427.1  | 58.9      |
| 0°-60°    | 639.7  | 88.2      |
| 0°-90°    | 725.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 725.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 356 | 356 | 356 | 356  | 356  |      |
| 5°  | 349 | 354 | 354 | 354  | 354  | 33   |
| 15° | 330 | 340 | 346 | 339  | 333  | 93   |
| 25° | 308 | 317 | 320 | 318  | 312  | 141  |
| 35° | 244 | 248 | 233 | 248  | 247  | 152  |
| 45° | 173 | 168 | 121 | 170  | 179  | 135  |
| 55° | 122 | 114 | 50  | 116  | 121  | 109  |
| 65° | 76  | 68  | 18  | 67   | 72   | 74   |
| 75° | 34  | 30  | 5   | 26   | 30   | 37   |
| 85° | 8   | 6   | 0   | 4    | 5    | 9    |
| 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°    | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 |
| 2.5°  | 351.8 | 351.8 | 355.2 | 359.0 | 355.7 | 352.4 | 354.6 | 353.5 | 357.3 | 357.3 | 355.7 |
| 5°    | 348.6 | 349.7 | 352.4 | 355.7 | 353.0 | 349.7 | 352.4 | 351.3 | 355.2 | 355.2 | 354.0 |
| 7.5°  | 345.3 | 345.8 | 349.1 | 353.0 | 350.2 | 346.9 | 349.1 | 348.6 | 351.8 | 352.4 | 351.3 |
| 10°   | 340.9 | 341.4 | 344.7 | 348.6 | 345.8 | 343.1 | 345.3 | 344.7 | 349.1 | 349.1 | 348.6 |
| 12.5° | 336.5 | 337.1 | 340.4 | 343.6 | 340.9 | 338.2 | 340.4 | 340.4 | 344.7 | 345.3 | 344.7 |
| 15°   | 330.5 | 331.6 | 334.3 | 337.6 | 336.0 | 332.7 | 334.9 | 334.9 | 338.7 | 339.8 | 339.8 |
| 17.5° | 325.6 | 326.1 | 328.8 | 332.1 | 329.9 | 327.2 | 329.4 | 329.4 | 333.2 | 334.3 | 334.3 |
| 20°   | 319.0 | 320.1 | 322.8 | 326.1 | 324.4 | 322.3 | 323.9 | 323.9 | 328.3 | 329.4 | 329.9 |
| 22.5° | 313.5 | 314.6 | 316.8 | 321.2 | 318.4 | 316.8 | 319.0 | 318.4 | 323.4 | 323.9 | 323.9 |
| 25°   | 307.5 | 308.6 | 311.3 | 314.0 | 312.4 | 310.8 | 312.4 | 312.4 | 316.2 | 316.8 | 316.8 |
| 27.5° | 298.7 | 299.2 | 302.0 | 304.7 | 303.1 | 300.9 | 303.1 | 302.5 | 306.3 | 306.9 | 306.3 |
| 30°   | 284.4 | 285.6 | 286.6 | 290.5 | 288.8 | 287.2 | 289.4 | 288.3 | 292.1 | 292.1 | 291.6 |
| 32.5° | 266.3 | 266.3 | 268.6 | 271.3 | 269.1 | 268.0 | 269.6 | 270.2 | 272.9 | 272.9 | 271.3 |
| 35°   | 244.4 | 245.5 | 247.2 | 248.8 | 247.2 | 246.1 | 247.7 | 247.2 | 250.5 | 249.4 | 247.7 |
| 37.5° | 222.5 | 223.1 | 224.7 | 226.9 | 224.7 | 223.1 | 223.6 | 223.1 | 225.8 | 225.8 | 223.1 |
| 40°   | 202.2 | 203.3 | 204.4 | 206.6 | 204.4 | 203.3 | 203.9 | 202.2 | 205.5 | 204.4 | 202.8 |
| 42.5° | 185.8 | 186.3 | 188.0 | 189.1 | 186.9 | 186.3 | 186.9 | 185.8 | 187.4 | 186.3 | 183.1 |
| 45°   | 173.2 | 173.2 | 173.8 | 175.4 | 173.2 | 172.6 | 172.6 | 171.5 | 173.2 | 171.0 | 167.7 |
| 47.5° | 162.2 | 162.8 | 163.3 | 164.4 | 162.8 | 161.1 | 161.7 | 159.5 | 160.6 | 158.9 | 154.5 |
| 50°   | 151.3 | 152.3 | 152.9 | 154.0 | 152.3 | 151.3 | 151.8 | 149.6 | 149.6 | 146.9 | 143.0 |
| 52.5° | 140.3 | 140.9 | 140.3 | 141.4 | 140.3 | 138.7 | 139.2 | 137.0 | 137.0 | 133.7 | 129.9 |
| 55°   | 122.2 | 122.8 | 123.3 | 124.4 | 123.3 | 121.7 | 122.8 | 121.1 | 121.1 | 118.9 | 114.5 |
| 57.5° | 104.1 | 104.7 | 105.2 | 105.8 | 105.8 | 104.7 | 105.2 | 104.1 | 103.6 | 101.9 | 98.7  |
| 60°   | 92.6  | 92.6  | 92.6  | 93.2  | 92.6  | 92.1  | 92.1  | 91.0  | 91.0  | 88.8  | 85.5  |
| 62.5° | 83.9  | 84.4  | 84.4  | 84.9  | 84.4  | 83.9  | 83.3  | 82.2  | 81.7  | 79.5  | 76.7  |
| 65°   | 75.6  | 75.6  | 75.1  | 76.2  | 75.6  | 75.1  | 75.1  | 74.0  | 72.9  | 70.7  | 67.9  |
| 67.5° | 65.8  | 66.3  | 65.8  | 66.3  | 66.3  | 65.8  | 65.2  | 64.1  | 63.6  | 61.9  | 58.6  |
| 70°   | 55.3  | 55.3  | 55.3  | 55.9  | 55.3  | 55.3  | 55.9  | 54.3  | 53.7  | 51.5  | 48.8  |
| 72.5° | 44.9  | 45.5  | 45.5  | 44.9  | 45.5  | 44.4  | 44.4  | 44.4  | 43.9  | 41.7  | 38.9  |
| 75°   | 34.5  | 35.1  | 35.1  | 35.6  | 35.1  | 34.5  | 34.5  | 34.0  | 33.4  | 31.8  | 29.6  |
| 77.5° | 25.8  | 25.8  | 26.3  | 26.3  | 26.3  | 25.8  | 25.8  | 24.7  | 24.7  | 23.6  | 21.4  |
| 80°   | 18.6  | 18.6  | 18.1  | 18.6  | 18.6  | 18.1  | 18.1  | 17.5  | 17.5  | 16.4  | 14.8  |
| 82.5° | 12.1  | 12.6  | 12.6  | 12.6  | 12.6  | 12.1  | 12.1  | 12.1  | 11.5  | 11.0  | 9.9   |
| 85°   | 7.7   | 7.7   | 7.7   | 7.7   | 8.2   | 7.7   | 8.2   | 7.7   | 7.7   | 6.6   | 6.0   |
| 87.5° | 3.3   | 3.3   | 3.3   | 3.8   | 3.8   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 2.7   |
| 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°    | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 |
| 2.5°  | 355.7 | 356.2 | 354.6 | 356.8 | 355.2 | 355.7 | 356.2 | 355.7 | 353.5 | 353.5 | 359.5 |
| 5°    | 353.5 | 354.6 | 353.0 | 355.7 | 354.6 | 354.6 | 355.7 | 355.2 | 353.0 | 353.5 | 359.0 |
| 7.5°  | 351.3 | 353.0 | 351.8 | 354.6 | 353.0 | 353.0 | 354.0 | 354.0 | 351.8 | 352.4 | 357.3 |
| 10°   | 348.0 | 350.2 | 349.7 | 352.4 | 350.8 | 350.8 | 352.4 | 352.4 | 350.2 | 350.8 | 355.7 |
| 12.5° | 345.3 | 347.5 | 346.9 | 349.7 | 348.6 | 349.1 | 349.7 | 350.8 | 348.0 | 349.1 | 353.5 |
| 15°   | 340.9 | 343.1 | 343.1 | 345.8 | 344.7 | 345.8 | 346.9 | 348.6 | 346.4 | 346.4 | 350.8 |
| 17.5° | 336.0 | 338.7 | 338.7 | 340.9 | 340.9 | 341.4 | 343.6 | 345.3 | 343.1 | 343.6 | 347.5 |
| 20°   | 330.5 | 333.8 | 333.8 | 336.5 | 336.0 | 337.1 | 338.7 | 340.4 | 338.2 | 338.2 | 342.5 |
| 22.5° | 325.0 | 327.7 | 328.3 | 329.9 | 329.9 | 330.5 | 332.1 | 333.2 | 330.5 | 330.5 | 334.9 |
| 25°   | 317.3 | 320.1 | 320.6 | 321.7 | 320.6 | 320.6 | 321.7 | 322.8 | 320.1 | 320.1 | 323.9 |
| 27.5° | 306.9 | 309.7 | 309.7 | 309.1 | 308.0 | 308.6 | 308.0 | 308.6 | 305.8 | 305.3 | 309.1 |
| 30°   | 291.6 | 293.2 | 293.2 | 292.7 | 291.0 | 291.0 | 289.4 | 289.9 | 286.1 | 286.1 | 289.4 |
| 32.5° | 270.8 | 272.4 | 271.3 | 270.2 | 268.0 | 266.9 | 265.8 | 265.3 | 261.4 | 261.4 | 265.3 |
| 35°   | 246.1 | 247.2 | 245.5 | 243.4 | 240.6 | 238.9 | 237.3 | 235.1 | 232.4 | 232.9 | 235.1 |
| 37.5° | 220.9 | 220.9 | 218.7 | 214.3 | 212.1 | 209.3 | 206.6 | 206.6 | 202.2 | 201.7 | 203.3 |
| 40°   | 199.5 | 197.3 | 193.5 | 187.4 | 183.6 | 180.9 | 177.0 | 174.8 | 171.5 | 171.5 | 174.3 |
| 42.5° | 180.3 | 175.9 | 171.0 | 162.8 | 158.9 | 155.7 | 150.7 | 148.5 | 144.7 | 144.1 | 145.8 |
| 45°   | 163.3 | 158.9 | 151.8 | 143.0 | 138.1 | 134.3 | 127.1 | 124.4 | 121.1 | 120.6 | 121.7 |
| 47.5° | 149.6 | 144.7 | 135.9 | 124.4 | 119.5 | 114.5 | 107.4 | 103.6 | 100.8 | 99.2  | 100.8 |
| 50°   | 137.6 | 131.0 | 121.7 | 109.6 | 103.0 | 98.7  | 89.9  | 86.0  | 82.2  | 81.1  | 81.7  |
| 52.5° | 124.4 | 117.8 | 108.0 | 95.4  | 89.3  | 82.7  | 74.5  | 69.1  | 65.8  | 64.1  | 65.8  |
| 55°   | 110.1 | 103.6 | 93.7  | 81.1  | 74.5  | 68.5  | 59.7  | 55.3  | 51.5  | 49.9  | 51.5  |
| 57.5° | 94.8  | 88.8  | 80.0  | 67.4  | 61.4  | 55.9  | 47.7  | 43.3  | 39.5  | 38.4  | 39.5  |
| 60°   | 81.7  | 76.7  | 67.9  | 55.9  | 51.0  | 44.9  | 37.8  | 33.4  | 30.1  | 29.6  | 30.1  |
| 62.5° | 72.9  | 67.4  | 59.2  | 47.7  | 42.7  | 37.8  | 31.2  | 26.9  | 24.1  | 23.6  | 24.1  |
| 65°   | 64.1  | 58.1  | 50.4  | 40.5  | 35.6  | 31.8  | 25.2  | 21.4  | 18.6  | 18.1  | 18.6  |
| 67.5° | 54.3  | 48.8  | 42.2  | 33.4  | 29.6  | 25.8  | 20.3  | 16.4  | 14.3  | 13.7  | 14.3  |
| 70°   | 44.9  | 40.0  | 33.4  | 26.9  | 23.0  | 20.3  | 15.3  | 12.6  | 10.4  | 9.9   | 10.4  |
| 72.5° | 35.6  | 31.2  | 25.8  | 20.3  | 18.1  | 15.3  | 12.1  | 9.3   | 7.7   | 7.1   | 7.7   |
| 75°   | 27.4  | 24.1  | 19.7  | 14.8  | 13.1  | 11.5  | 8.2   | 6.6   | 5.5   | 4.9   | 5.5   |
| 77.5° | 19.2  | 17.0  | 13.7  | 11.0  | 9.3   | 8.2   | 6.0   | 4.4   | 3.8   | 3.3   | 3.8   |
| 80°   | 13.1  | 11.5  | 9.3   | 7.1   | 6.0   | 4.9   | 3.8   | 2.7   | 2.2   | 2.2   | 2.2   |
| 82.5° | 8.8   | 7.1   | 5.5   | 4.4   | 3.8   | 3.3   | 2.2   | 1.7   | 1.7   | 1.1   | 1.1   |
| 85°   | 4.9   | 4.4   | 3.3   | 2.7   | 2.2   | 1.7   | 1.1   | 1.1   | 0.5   | 0.5   | 0.5   |
| 87.5° | 2.2   | 1.7   | 1.1   | 1.1   | 0.5   | 0.5   | 0.5   | 0.5   | 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°    | 356.2 | 356.2 | 356.2 | 356.2  | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 |
| 2.5°  | 357.9 | 356.2 | 358.4 | 356.2  | 355.2 | 356.2 | 355.2 | 358.4 | 355.7 | 353.5 | 355.7 |
| 5°    | 357.3 | 355.2 | 357.3 | 355.7  | 354.0 | 354.6 | 353.5 | 356.8 | 353.5 | 351.8 | 353.0 |
| 7.5°  | 356.2 | 354.6 | 355.7 | 354.0  | 352.4 | 353.0 | 351.8 | 354.6 | 351.3 | 349.7 | 350.8 |
| 10°   | 354.6 | 353.0 | 353.5 | 352.4  | 350.8 | 350.8 | 349.7 | 351.8 | 348.0 | 345.8 | 346.9 |
| 12.5° | 352.4 | 350.2 | 351.3 | 349.7  | 347.5 | 347.5 | 346.4 | 348.0 | 344.2 | 342.0 | 342.5 |
| 15°   | 349.7 | 347.5 | 347.5 | 345.8  | 343.6 | 343.6 | 341.4 | 343.1 | 338.7 | 336.5 | 336.5 |
| 17.5° | 346.4 | 343.6 | 343.6 | 342.0  | 339.2 | 338.7 | 337.1 | 338.7 | 333.8 | 331.6 | 331.6 |
| 20°   | 341.4 | 339.2 | 338.7 | 337.6  | 334.9 | 334.3 | 332.1 | 332.7 | 328.8 | 327.2 | 326.6 |
| 22.5° | 334.9 | 332.7 | 333.2 | 331.6  | 329.4 | 328.8 | 326.6 | 328.3 | 324.4 | 322.8 | 323.4 |
| 25°   | 323.4 | 322.3 | 323.4 | 322.8  | 321.2 | 321.2 | 320.1 | 321.2 | 317.9 | 316.8 | 317.3 |
| 27.5° | 310.2 | 309.7 | 310.2 | 310.2  | 309.1 | 309.1 | 309.1 | 310.8 | 307.5 | 306.9 | 306.9 |
| 30°   | 291.0 | 291.0 | 291.6 | 292.1  | 292.1 | 293.2 | 292.7 | 294.9 | 292.7 | 291.6 | 292.7 |
| 32.5° | 265.8 | 268.0 | 269.6 | 269.6  | 269.6 | 270.8 | 271.8 | 273.5 | 271.3 | 271.8 | 271.8 |
| 35°   | 237.3 | 238.9 | 240.0 | 242.8  | 241.2 | 245.0 | 246.1 | 248.3 | 247.7 | 248.8 | 248.3 |
| 37.5° | 205.5 | 207.7 | 209.9 | 213.8  | 213.2 | 217.6 | 219.8 | 224.1 | 223.1 | 225.3 | 226.3 |
| 40°   | 175.9 | 179.2 | 182.5 | 185.2  | 187.4 | 191.8 | 196.2 | 201.7 | 203.3 | 205.0 | 205.5 |
| 42.5° | 147.4 | 150.7 | 156.2 | 160.0  | 163.3 | 170.4 | 176.5 | 183.1 | 184.7 | 188.0 | 189.1 |
| 45°   | 124.4 | 127.1 | 133.7 | 138.7  | 141.4 | 151.8 | 158.9 | 167.1 | 169.9 | 173.8 | 175.4 |
| 47.5° | 103.0 | 108.0 | 114.5 | 120.6  | 124.4 | 135.4 | 144.7 | 153.5 | 157.3 | 161.7 | 163.9 |
| 50°   | 84.4  | 89.9  | 98.7  | 104.1  | 109.6 | 121.7 | 132.1 | 141.4 | 145.2 | 150.2 | 152.3 |
| 52.5° | 69.1  | 75.1  | 83.3  | 89.3   | 95.4  | 108.0 | 118.9 | 127.7 | 132.6 | 135.9 | 139.2 |
| 55°   | 54.3  | 60.8  | 69.1  | 75.6   | 80.6  | 94.3  | 103.6 | 112.3 | 115.6 | 118.4 | 120.0 |
| 57.5° | 42.2  | 47.1  | 55.3  | 60.8   | 66.9  | 78.9  | 88.2  | 94.8  | 97.5  | 100.8 | 101.9 |
| 60°   | 32.9  | 37.8  | 45.5  | 51.0   | 56.5  | 67.9  | 77.3  | 83.9  | 86.6  | 89.3  | 91.0  |
| 62.5° | 26.3  | 31.2  | 38.4  | 43.3   | 48.2  | 58.6  | 66.9  | 73.4  | 76.7  | 79.5  | 81.1  |
| 65°   | 20.8  | 25.2  | 31.2  | 36.2   | 40.0  | 49.3  | 57.5  | 63.6  | 66.9  | 69.6  | 71.3  |
| 67.5° | 16.4  | 20.3  | 25.8  | 29.1   | 32.9  | 40.5  | 47.7  | 53.2  | 55.9  | 59.2  | 60.8  |
| 70°   | 12.6  | 15.3  | 20.3  | 23.0   | 25.8  | 32.3  | 37.8  | 43.3  | 46.0  | 48.2  | 49.3  |
| 72.5° | 9.3   | 11.5  | 15.3  | 17.5   | 19.2  | 24.7  | 29.1  | 32.9  | 35.1  | 37.3  | 38.4  |
| 75°   | 6.6   | 8.2   | 11.0  | 12.6   | 13.7  | 17.5  | 21.4  | 24.1  | 25.8  | 27.4  | 29.1  |
| 77.5° | 4.4   | 5.5   | 7.1   | 8.2    | 9.3   | 12.1  | 14.3  | 16.4  | 18.1  | 19.7  | 20.3  |
| 80°   | 2.7   | 3.8   | 4.9   | 5.5    | 6.0   | 7.7   | 9.9   | 11.0  | 12.1  | 13.1  | 13.7  |
| 82.5° | 1.7   | 2.2   | 2.7   | 3.3    | 3.8   | 4.9   | 6.0   | 7.1   | 7.7   | 8.8   | 9.3   |
| 85°   | 0.5   | 1.1   | 1.1   | 1.7    | 1.7   | 2.7   | 3.3   | 3.8   | 4.4   | 4.9   | 5.5   |
| 87.5° | 0.0   | 0.0   | 0.5   | 0.5    | 0.5   | 0.5   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 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: P880532

CATALOG NUMBER: LD4C08D010 EU4089027 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 356.2 | 356.2 | 356.2  | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 |
| 2.5°  | 357.9 | 356.2 | 355.2  | 354.6 | 358.4 | 353.5 | 355.7 | 356.2 |
| 5°    | 355.7 | 354.0 | 353.0  | 352.4 | 355.7 | 351.3 | 353.0 | 354.0 |
| 7.5°  | 352.4 | 351.3 | 349.7  | 349.1 | 352.4 | 347.5 | 349.7 | 350.2 |
| 10°   | 348.6 | 346.9 | 345.8  | 345.3 | 348.0 | 343.1 | 345.3 | 345.3 |
| 12.5° | 343.6 | 342.5 | 340.4  | 340.4 | 342.5 | 338.2 | 339.8 | 339.8 |
| 15°   | 337.1 | 336.0 | 333.8  | 333.8 | 336.0 | 331.6 | 333.2 | 333.2 |
| 17.5° | 331.6 | 330.5 | 328.8  | 328.3 | 330.5 | 326.1 | 327.7 | 327.2 |
| 20°   | 327.2 | 326.1 | 323.9  | 323.9 | 325.6 | 321.2 | 322.8 | 322.8 |
| 22.5° | 323.4 | 322.8 | 320.6  | 320.6 | 322.8 | 318.4 | 319.5 | 318.4 |
| 25°   | 317.3 | 316.8 | 314.6  | 315.1 | 316.2 | 311.8 | 313.5 | 312.4 |
| 27.5° | 307.5 | 307.5 | 305.3  | 304.7 | 306.3 | 302.5 | 303.6 | 303.1 |
| 30°   | 292.1 | 292.7 | 289.9  | 289.9 | 290.5 | 287.2 | 288.8 | 288.3 |
| 32.5° | 271.3 | 271.8 | 269.6  | 269.1 | 270.8 | 268.0 | 269.1 | 269.1 |
| 35°   | 248.3 | 248.8 | 247.2  | 247.2 | 248.8 | 247.2 | 247.2 | 246.6 |
| 37.5° | 225.3 | 226.3 | 225.3  | 225.8 | 226.9 | 225.3 | 226.3 | 225.8 |
| 40°   | 206.6 | 207.7 | 206.1  | 207.2 | 208.3 | 206.6 | 208.3 | 207.2 |
| 42.5° | 189.6 | 191.3 | 190.2  | 191.3 | 192.4 | 191.3 | 192.4 | 190.7 |
| 45°   | 177.0 | 178.1 | 177.6  | 178.1 | 179.2 | 178.7 | 179.2 | 178.7 |
| 47.5° | 165.0 | 167.1 | 166.1  | 167.1 | 168.8 | 167.7 | 168.8 | 167.1 |
| 50°   | 154.0 | 155.7 | 155.1  | 156.2 | 156.7 | 156.2 | 157.3 | 155.7 |
| 52.5° | 139.7 | 141.4 | 140.9  | 140.9 | 141.9 | 140.9 | 141.9 | 140.9 |
| 55°   | 121.1 | 121.7 | 121.7  | 122.2 | 121.7 | 121.1 | 121.7 | 120.6 |
| 57.5° | 103.0 | 104.1 | 102.5  | 104.1 | 103.6 | 103.0 | 103.0 | 101.9 |
| 60°   | 91.5  | 93.2  | 92.1   | 93.2  | 92.6  | 92.6  | 92.6  | 92.1  |
| 62.5° | 82.2  | 83.3  | 82.2   | 82.7  | 82.7  | 82.7  | 82.2  | 81.7  |
| 65°   | 71.8  | 73.4  | 72.3   | 72.9  | 72.3  | 71.8  | 72.3  | 71.8  |
| 67.5° | 61.4  | 61.9  | 61.9   | 61.4  | 61.4  | 61.4  | 61.4  | 60.3  |
| 70°   | 49.9  | 50.4  | 49.9   | 51.0  | 50.4  | 49.9  | 50.4  | 49.3  |
| 72.5° | 38.9  | 39.5  | 38.9   | 39.5  | 38.9  | 38.9  | 38.9  | 38.9  |
| 75°   | 29.1  | 29.6  | 29.6   | 29.6  | 29.6  | 29.6  | 28.5  | 29.6  |
| 77.5° | 20.8  | 20.8  | 20.8   | 21.4  | 20.8  | 20.8  | 20.8  | 20.8  |
| 80°   | 14.3  | 14.3  | 14.3   | 14.8  | 14.3  | 14.8  | 14.3  | 14.8  |
| 82.5° | 9.3   | 9.3   | 9.3    | 9.3   | 9.3   | 9.3   | 9.3   | 9.3   |
| 85°   | 4.9   | 5.5   | 5.5    | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   |
| 87.5° | 1.1   | 0.5   | 0.5    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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)