

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: P879338

Luminaire Tested: **LD4C08D010 EU4089027 4LBDWWH**

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: P879338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EU4089027 4LBDWWH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

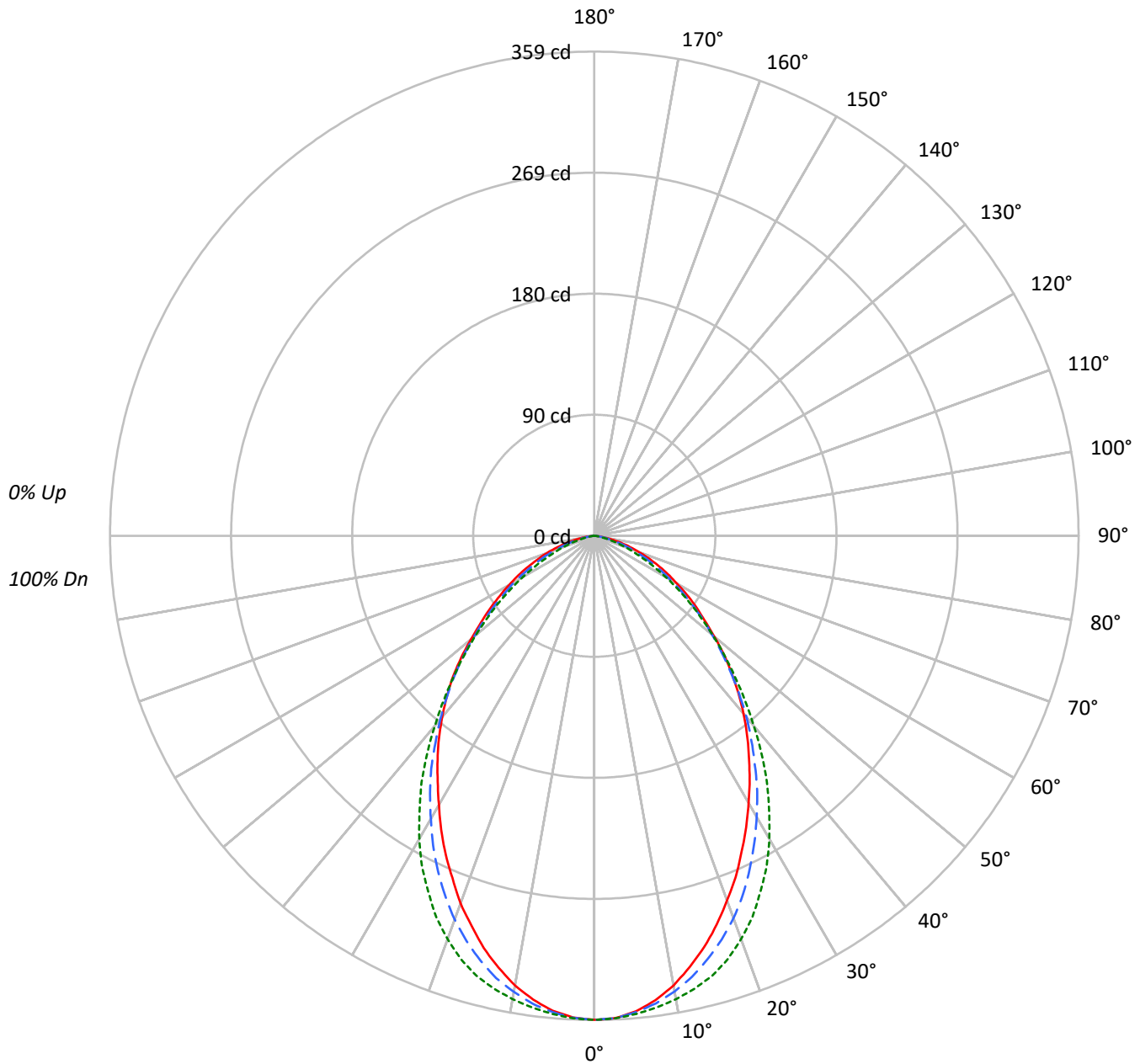
Lumens per Lamp: N/A  
Luminaire Lumens: 642.0 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 77  |    |    |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 68  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |
| 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  | 44  | 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°  | 44092 | 44092 | 44092 |
| 5°  | 43644 | 43891 | 43595 |
| 10° | 42227 | 43512 | 42240 |
| 15° | 40115 | 42951 | 40255 |
| 20° | 37600 | 41601 | 37914 |
| 25° | 35027 | 39473 | 35339 |
| 30° | 32443 | 36812 | 32684 |
| 35° | 29935 | 33475 | 30385 |
| 40° | 27600 | 29493 | 28114 |
| 45° | 25001 | 25557 | 25766 |
| 50° | 22171 | 21884 | 22725 |
| 55° | 19770 | 18442 | 20219 |
| 60° | 17298 | 14964 | 17937 |
| 65° | 15145 | 11570 | 15669 |
| 70° | 12752 | 8477  | 13398 |
| 75° | 9968  | 5506  | 10490 |
| 80° | 6509  | 2901  | 7146  |
| 85° | 2255  | 1269  | 2960  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.5   | 5.2       |
| 10°-20°   | 91.5   | 14.3      |
| 20°-30°   | 125.9  | 19.6      |
| 30°-40°   | 131.4  | 20.5      |
| 40°-50°   | 112.4  | 17.5      |
| 50°-60°   | 80.4   | 12.5      |
| 60°-70°   | 46.6   | 7.3       |
| 70°-80°   | 18.0   | 2.8       |
| 80°-90°   | 2.3    | 0.4       |
| 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°    | 251.0  | 39.1      |
| 0°-40°    | 382.3  | 59.6      |
| 0°-60°    | 575.1  | 89.6      |
| 0°-90°    | 642.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 642.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 359 | 359 | 359 | 359  | 359  |      |
| 5°  | 354 | 355 | 356 | 355  | 354  | 33   |
| 15° | 315 | 325 | 338 | 326  | 316  | 88   |
| 25° | 258 | 273 | 291 | 274  | 261  | 119  |
| 35° | 200 | 208 | 223 | 211  | 203  | 125  |
| 45° | 144 | 143 | 147 | 146  | 148  | 111  |
| 55° | 92  | 88  | 86  | 90   | 94   | 83   |
| 65° | 52  | 46  | 40  | 48   | 54   | 52   |
| 75° | 21  | 16  | 12  | 17   | 22   | 23   |
| 85° | 2   | 1   | 1   | 1    | 2    | 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°    | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 |
| 2.5°  | 358.0 | 357.7 | 357.9 | 357.9 | 357.9 | 357.7 | 358.0 | 358.0 | 357.9 | 357.9 | 357.9 |
| 5°    | 353.9 | 353.7 | 353.8 | 353.9 | 353.9 | 353.9 | 354.1 | 354.2 | 354.3 | 354.4 | 354.6 |
| 7.5°  | 347.3 | 346.9 | 347.3 | 347.9 | 347.9 | 348.0 | 348.1 | 348.3 | 348.6 | 349.3 | 349.7 |
| 10°   | 338.5 | 338.5 | 338.6 | 339.0 | 339.7 | 339.6 | 339.9 | 340.6 | 341.4 | 342.3 | 343.0 |
| 12.5° | 327.3 | 327.6 | 328.0 | 328.3 | 329.0 | 329.4 | 330.1 | 330.9 | 332.2 | 333.5 | 334.9 |
| 15°   | 315.4 | 315.6 | 315.7 | 316.6 | 317.3 | 318.2 | 318.7 | 320.3 | 321.5 | 323.3 | 324.9 |
| 17.5° | 302.1 | 302.0 | 302.4 | 303.2 | 304.8 | 305.2 | 305.8 | 307.5 | 309.2 | 311.7 | 313.9 |
| 20°   | 287.6 | 288.4 | 288.9 | 290.0 | 290.9 | 292.0 | 292.5 | 294.6 | 296.6 | 299.0 | 301.7 |
| 22.5° | 273.9 | 273.3 | 274.2 | 275.4 | 276.2 | 276.9 | 277.9 | 280.1 | 282.2 | 285.1 | 287.9 |
| 25°   | 258.4 | 258.8 | 259.4 | 260.3 | 261.4 | 262.4 | 263.5 | 265.9 | 267.1 | 270.1 | 272.6 |
| 27.5° | 243.6 | 244.3 | 244.5 | 245.7 | 246.6 | 247.4 | 247.9 | 250.7 | 251.8 | 254.4 | 256.9 |
| 30°   | 228.7 | 229.4 | 229.4 | 230.7 | 231.3 | 232.1 | 233.4 | 235.3 | 236.9 | 238.7 | 240.6 |
| 32.5° | 214.3 | 214.3 | 214.9 | 216.0 | 216.7 | 217.6 | 218.0 | 219.3 | 220.9 | 222.8 | 224.7 |
| 35°   | 199.6 | 200.0 | 200.5 | 200.5 | 201.7 | 202.2 | 202.7 | 204.0 | 205.1 | 205.9 | 207.5 |
| 37.5° | 186.0 | 186.0 | 185.6 | 186.3 | 187.0 | 186.9 | 187.7 | 188.4 | 189.0 | 189.9 | 191.3 |
| 40°   | 172.1 | 172.1 | 171.6 | 172.0 | 172.5 | 172.4 | 172.1 | 172.8 | 173.3 | 174.0 | 175.3 |
| 42.5° | 158.0 | 157.8 | 157.7 | 157.7 | 157.9 | 157.7 | 157.9 | 158.0 | 158.0 | 158.0 | 158.8 |
| 45°   | 143.9 | 144.6 | 143.8 | 143.5 | 143.2 | 142.8 | 142.6 | 142.8 | 143.3 | 142.6 | 142.8 |
| 47.5° | 130.1 | 130.4 | 129.8 | 129.4 | 129.0 | 128.8 | 129.0 | 128.3 | 128.5 | 128.7 | 128.1 |
| 50°   | 116.0 | 115.5 | 115.5 | 115.1 | 115.2 | 115.1 | 114.8 | 114.5 | 114.5 | 113.9 | 113.5 |
| 52.5° | 102.9 | 103.2 | 103.5 | 102.6 | 102.7 | 102.0 | 102.2 | 101.5 | 101.5 | 100.7 | 101.0 |
| 55°   | 92.3  | 91.9  | 91.9  | 91.5  | 91.3  | 90.7  | 90.6  | 90.2  | 89.2  | 88.7  | 87.7  |
| 57.5° | 81.2  | 81.1  | 80.5  | 80.7  | 79.9  | 79.7  | 79.5  | 78.8  | 78.2  | 77.5  | 76.3  |
| 60°   | 70.4  | 70.5  | 70.5  | 70.3  | 69.9  | 69.2  | 69.3  | 68.4  | 67.5  | 66.3  | 65.2  |
| 62.5° | 61.4  | 61.0  | 60.9  | 60.6  | 59.8  | 59.8  | 59.2  | 58.5  | 57.6  | 56.4  | 55.5  |
| 65°   | 52.1  | 52.2  | 51.8  | 51.4  | 50.6  | 50.5  | 50.0  | 49.4  | 48.5  | 47.3  | 46.0  |
| 67.5° | 43.6  | 43.4  | 43.2  | 42.8  | 42.0  | 41.9  | 41.5  | 40.3  | 39.5  | 38.4  | 37.3  |
| 70°   | 35.5  | 35.2  | 35.3  | 34.7  | 33.9  | 33.5  | 33.3  | 32.4  | 31.2  | 30.3  | 29.3  |
| 72.5° | 27.8  | 27.8  | 27.7  | 27.0  | 26.6  | 26.4  | 25.8  | 24.8  | 24.1  | 23.1  | 22.3  |
| 75°   | 21.0  | 20.8  | 20.6  | 20.2  | 19.6  | 19.4  | 19.1  | 18.5  | 17.5  | 16.3  | 15.7  |
| 77.5° | 14.5  | 14.6  | 14.4  | 14.2  | 13.6  | 13.2  | 13.0  | 12.7  | 11.9  | 11.1  | 10.4  |
| 80°   | 9.2   | 9.1   | 9.0   | 8.7   | 8.6   | 8.4   | 8.0   | 7.8   | 7.0   | 6.6   | 6.2   |
| 82.5° | 5.0   | 4.7   | 4.7   | 4.6   | 4.3   | 4.2   | 4.1   | 3.8   | 3.7   | 3.4   | 3.2   |
| 85°   | 1.6   | 1.7   | 1.6   | 1.6   | 1.6   | 1.4   | 1.4   | 1.4   | 1.3   | 1.3   | 1.2   |
| 87.5° | 0.1   | 0.3   | 0.1   | 0.1   | 0.3   | 0.1   | 0.1   | 0.3   | 0.1   | 0.1   | 0.3   |
| 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°    | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 |
| 2.5°  | 357.9 | 358.0 | 358.0 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 |
| 5°    | 355.0 | 355.0 | 355.2 | 355.5 | 355.5 | 355.5 | 355.6 | 355.9 | 355.9 | 355.9 | 355.8 |
| 7.5°  | 350.2 | 350.8 | 351.3 | 351.8 | 351.9 | 352.1 | 352.3 | 352.9 | 352.9 | 352.9 | 352.9 |
| 10°   | 344.0 | 345.2 | 345.9 | 346.7 | 347.1 | 347.3 | 348.1 | 348.3 | 348.6 | 348.8 | 348.6 |
| 12.5° | 336.1 | 337.7 | 339.2 | 340.5 | 341.0 | 341.5 | 342.3 | 343.1 | 343.5 | 343.9 | 343.8 |
| 15°   | 327.3 | 329.0 | 331.2 | 332.7 | 333.8 | 334.5 | 335.7 | 336.8 | 337.4 | 337.7 | 337.7 |
| 17.5° | 316.6 | 318.7 | 321.1 | 323.5 | 324.1 | 325.4 | 326.8 | 328.2 | 329.0 | 329.1 | 329.0 |
| 20°   | 304.8 | 307.1 | 309.1 | 311.5 | 312.9 | 313.6 | 315.4 | 317.3 | 318.1 | 318.2 | 318.1 |
| 22.5° | 290.7 | 292.9 | 295.5 | 298.0 | 299.2 | 300.4 | 302.4 | 304.2 | 305.3 | 306.1 | 305.3 |
| 25°   | 275.0 | 278.1 | 280.6 | 282.7 | 284.5 | 285.6 | 288.1 | 289.6 | 291.3 | 291.2 | 291.3 |
| 27.5° | 259.5 | 262.2 | 264.9 | 267.5 | 268.5 | 269.8 | 271.8 | 274.2 | 275.6 | 276.5 | 276.4 |
| 30°   | 243.7 | 245.8 | 248.2 | 250.4 | 252.2 | 253.2 | 256.1 | 257.2 | 259.0 | 259.5 | 259.1 |
| 32.5° | 227.0 | 228.4 | 230.8 | 233.8 | 234.5 | 235.6 | 237.4 | 240.0 | 240.7 | 241.0 | 241.1 |
| 35°   | 209.2 | 212.0 | 213.9 | 215.8 | 216.3 | 217.2 | 219.3 | 221.3 | 222.0 | 223.2 | 222.6 |
| 37.5° | 192.7 | 194.3 | 195.2 | 197.1 | 198.6 | 199.4 | 200.5 | 201.8 | 203.1 | 203.7 | 203.5 |
| 40°   | 176.2 | 177.0 | 177.8 | 179.8 | 179.9 | 179.9 | 181.5 | 183.4 | 183.4 | 183.9 | 183.9 |
| 42.5° | 159.4 | 159.5 | 160.6 | 161.6 | 161.9 | 162.1 | 163.7 | 164.0 | 164.8 | 165.2 | 165.7 |
| 45°   | 143.0 | 143.8 | 144.5 | 144.6 | 145.3 | 145.4 | 145.8 | 146.2 | 147.4 | 147.1 | 147.4 |
| 47.5° | 128.1 | 128.5 | 128.9 | 128.9 | 129.3 | 129.2 | 129.8 | 129.4 | 130.2 | 130.5 | 130.9 |
| 50°   | 113.5 | 114.2 | 113.8 | 114.0 | 113.9 | 114.3 | 114.0 | 114.0 | 114.0 | 114.5 | 114.9 |
| 52.5° | 100.0 | 100.2 | 99.8  | 99.9  | 99.9  | 99.7  | 99.9  | 99.8  | 99.7  | 99.7  | 99.8  |
| 55°   | 87.7  | 87.1  | 86.9  | 86.3  | 85.7  | 86.5  | 86.1  | 85.8  | 86.3  | 86.1  | 86.3  |
| 57.5° | 75.7  | 75.0  | 74.5  | 74.2  | 73.3  | 73.8  | 73.3  | 73.0  | 73.0  | 73.0  | 73.7  |
| 60°   | 64.3  | 63.7  | 63.0  | 62.2  | 62.1  | 61.8  | 61.6  | 60.9  | 61.0  | 60.9  | 61.2  |
| 62.5° | 54.4  | 53.1  | 52.2  | 51.5  | 51.4  | 51.0  | 50.6  | 50.0  | 50.1  | 50.1  | 50.2  |
| 65°   | 45.3  | 43.9  | 42.6  | 41.7  | 41.7  | 41.0  | 40.3  | 40.3  | 39.5  | 39.8  | 39.9  |
| 67.5° | 36.2  | 35.1  | 33.7  | 33.1  | 32.7  | 32.2  | 31.8  | 31.5  | 31.1  | 31.1  | 31.4  |
| 70°   | 28.1  | 26.9  | 26.2  | 25.2  | 25.0  | 24.6  | 24.1  | 23.7  | 23.6  | 23.6  | 23.5  |
| 72.5° | 21.2  | 20.2  | 19.4  | 18.7  | 18.3  | 17.9  | 17.4  | 17.3  | 17.0  | 17.0  | 17.3  |
| 75°   | 14.8  | 14.1  | 13.4  | 12.8  | 12.5  | 12.4  | 12.0  | 11.7  | 11.7  | 11.6  | 11.7  |
| 77.5° | 9.9   | 9.2   | 8.6   | 8.3   | 8.0   | 7.8   | 7.6   | 7.5   | 7.1   | 7.1   | 7.1   |
| 80°   | 5.7   | 5.4   | 5.1   | 4.7   | 4.7   | 4.6   | 4.3   | 4.2   | 4.1   | 4.1   | 4.1   |
| 82.5° | 2.9   | 2.8   | 2.5   | 2.4   | 2.4   | 2.4   | 2.2   | 2.2   | 2.1   | 2.1   | 2.1   |
| 85°   | 1.2   | 1.1   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   | 0.9   | 1.1   |
| 87.5° | 0.1   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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°    | 358.9 | 358.9 | 358.9 | 358.9  | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 |
| 2.5°  | 358.1 | 358.0 | 358.0 | 358.0  | 358.0 | 358.0 | 357.9 | 357.9 | 357.7 | 357.7 | 357.7 |
| 5°    | 355.9 | 355.8 | 355.6 | 355.5  | 355.4 | 355.2 | 355.1 | 355.0 | 354.6 | 354.4 | 354.2 |
| 7.5°  | 352.7 | 352.5 | 352.1 | 351.9  | 351.7 | 351.3 | 350.8 | 350.5 | 350.0 | 349.3 | 349.0 |
| 10°   | 348.5 | 348.0 | 347.6 | 346.9  | 346.8 | 346.3 | 345.0 | 344.3 | 343.4 | 342.6 | 341.7 |
| 12.5° | 343.4 | 342.8 | 341.9 | 341.0  | 340.5 | 339.3 | 338.1 | 337.0 | 335.9 | 334.1 | 332.8 |
| 15°   | 337.0 | 336.3 | 334.4 | 334.1  | 333.4 | 331.5 | 329.9 | 328.0 | 326.1 | 324.3 | 322.7 |
| 17.5° | 328.6 | 326.9 | 326.0 | 324.8  | 323.9 | 321.5 | 319.8 | 317.5 | 315.0 | 312.9 | 310.7 |
| 20°   | 317.5 | 315.7 | 314.1 | 313.5  | 312.3 | 310.2 | 308.1 | 305.3 | 302.8 | 300.1 | 298.2 |
| 22.5° | 304.4 | 303.2 | 300.8 | 300.0  | 298.6 | 296.5 | 293.9 | 291.3 | 288.9 | 286.0 | 283.4 |
| 25°   | 290.3 | 288.5 | 286.7 | 285.1  | 284.1 | 282.1 | 278.9 | 276.9 | 274.3 | 271.1 | 269.2 |
| 27.5° | 275.2 | 273.3 | 270.6 | 269.6  | 268.6 | 266.0 | 263.4 | 260.9 | 258.8 | 256.0 | 254.3 |
| 30°   | 257.8 | 256.4 | 254.7 | 253.3  | 252.0 | 249.9 | 247.5 | 244.6 | 242.4 | 241.1 | 238.7 |
| 32.5° | 240.2 | 239.0 | 236.7 | 236.1  | 234.6 | 232.9 | 231.2 | 229.1 | 226.7 | 224.7 | 222.9 |
| 35°   | 221.3 | 220.1 | 218.5 | 217.4  | 216.8 | 215.6 | 213.8 | 212.0 | 210.8 | 208.5 | 207.6 |
| 37.5° | 202.5 | 202.1 | 200.5 | 199.3  | 198.9 | 197.5 | 196.5 | 195.2 | 193.5 | 193.0 | 191.9 |
| 40°   | 183.1 | 182.8 | 181.9 | 181.8  | 181.0 | 180.6 | 179.3 | 178.2 | 177.4 | 177.0 | 176.4 |
| 42.5° | 165.3 | 165.0 | 164.2 | 164.4  | 163.6 | 163.3 | 163.2 | 162.3 | 161.6 | 160.8 | 160.9 |
| 45°   | 147.8 | 147.5 | 147.0 | 146.7  | 147.1 | 147.0 | 146.7 | 146.3 | 146.3 | 146.4 | 146.1 |
| 47.5° | 130.9 | 131.2 | 130.6 | 130.9  | 130.9 | 130.5 | 130.5 | 131.0 | 131.2 | 131.4 | 131.7 |
| 50°   | 114.9 | 115.7 | 115.5 | 115.9  | 116.0 | 116.1 | 115.7 | 116.4 | 116.3 | 117.4 | 117.2 |
| 52.5° | 100.4 | 100.6 | 101.1 | 101.2  | 101.4 | 101.5 | 102.2 | 102.7 | 102.8 | 103.3 | 104.3 |
| 55°   | 86.5  | 86.6  | 87.7  | 87.7   | 88.3  | 88.4  | 89.4  | 89.6  | 90.0  | 91.5  | 91.7  |
| 57.5° | 73.3  | 74.1  | 74.6  | 74.9   | 75.3  | 75.9  | 76.5  | 77.6  | 78.3  | 79.2  | 80.1  |
| 60°   | 61.4  | 62.3  | 63.0  | 63.3   | 63.8  | 64.6  | 65.2  | 66.6  | 67.8  | 68.8  | 69.5  |
| 62.5° | 50.5  | 51.3  | 51.8  | 52.7   | 52.7  | 53.4  | 55.0  | 55.8  | 57.1  | 58.0  | 59.2  |
| 65°   | 40.7  | 41.3  | 42.2  | 42.2   | 42.7  | 43.8  | 45.1  | 46.3  | 47.6  | 48.9  | 50.1  |
| 67.5° | 31.9  | 32.3  | 32.8  | 33.3   | 33.6  | 34.9  | 36.0  | 37.7  | 38.9  | 39.8  | 41.3  |
| 70°   | 24.1  | 24.4  | 25.0  | 25.6   | 26.0  | 26.9  | 28.1  | 29.3  | 30.4  | 31.5  | 33.0  |
| 72.5° | 17.3  | 17.8  | 18.5  | 18.8   | 19.1  | 19.8  | 21.0  | 22.1  | 23.2  | 24.3  | 25.0  |
| 75°   | 11.9  | 12.3  | 12.5  | 12.9   | 13.3  | 13.8  | 14.6  | 15.4  | 16.6  | 17.7  | 18.6  |
| 77.5° | 7.4   | 7.8   | 8.2   | 8.3    | 8.4   | 9.0   | 9.5   | 10.3  | 11.1  | 11.9  | 12.5  |
| 80°   | 4.3   | 4.5   | 4.6   | 4.7    | 5.0   | 5.4   | 5.7   | 6.2   | 6.7   | 7.2   | 7.9   |
| 82.5° | 2.2   | 2.4   | 2.5   | 2.5    | 2.5   | 2.6   | 3.0   | 3.3   | 3.4   | 3.7   | 4.1   |
| 85°   | 0.9   | 0.9   | 0.9   | 1.1    | 1.1   | 1.2   | 1.2   | 1.3   | 1.3   | 1.4   | 1.6   |
| 87.5° | 0.3   | 0.3   | 0.3   | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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: P879338

CATALOG NUMBER: LD4C08D010 EU4089027 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 358.9 | 358.9 | 358.9  | 358.9 | 358.9 | 358.9 | 358.9 | 358.9 |
| 2.5°  | 357.6 | 357.6 | 357.6  | 357.5 | 357.6 | 357.6 | 357.6 | 357.5 |
| 5°    | 354.2 | 353.9 | 353.9  | 353.8 | 353.7 | 353.7 | 353.8 | 353.5 |
| 7.5°  | 348.5 | 348.1 | 347.9  | 347.9 | 347.7 | 347.6 | 347.6 | 346.9 |
| 10°   | 341.1 | 340.3 | 340.3  | 340.1 | 339.0 | 338.9 | 338.6 | 338.6 |
| 12.5° | 331.9 | 331.0 | 330.5  | 329.8 | 329.1 | 328.6 | 328.5 | 328.0 |
| 15°   | 321.0 | 319.8 | 318.9  | 318.6 | 317.5 | 316.8 | 316.8 | 316.5 |
| 17.5° | 309.1 | 307.3 | 306.6  | 305.9 | 304.5 | 304.4 | 304.1 | 302.9 |
| 20°   | 295.7 | 293.9 | 293.0  | 292.4 | 291.4 | 290.1 | 289.9 | 290.0 |
| 22.5° | 281.6 | 279.2 | 278.4  | 277.7 | 276.8 | 275.6 | 275.6 | 274.7 |
| 25°   | 266.9 | 264.8 | 264.0  | 263.2 | 261.8 | 261.3 | 260.6 | 260.7 |
| 27.5° | 252.0 | 250.1 | 249.4  | 247.9 | 247.0 | 246.4 | 245.7 | 245.7 |
| 30°   | 236.5 | 235.4 | 234.4  | 234.2 | 232.4 | 231.6 | 230.9 | 230.4 |
| 32.5° | 221.4 | 220.1 | 219.6  | 219.1 | 218.2 | 217.1 | 217.0 | 216.0 |
| 35°   | 206.7 | 205.4 | 204.7  | 204.2 | 203.1 | 202.7 | 202.3 | 202.6 |
| 37.5° | 191.1 | 190.9 | 190.5  | 189.8 | 189.2 | 189.0 | 188.5 | 189.2 |
| 40°   | 175.8 | 175.7 | 175.2  | 175.3 | 175.3 | 175.0 | 175.3 | 175.3 |
| 42.5° | 161.1 | 161.1 | 160.6  | 160.8 | 160.9 | 161.2 | 161.6 | 161.9 |
| 45°   | 146.7 | 146.6 | 146.7  | 147.0 | 146.7 | 147.4 | 147.9 | 148.3 |
| 47.5° | 131.9 | 132.1 | 132.6  | 132.7 | 133.0 | 133.9 | 133.9 | 133.9 |
| 50°   | 117.8 | 118.5 | 118.2  | 119.0 | 118.9 | 119.4 | 118.9 | 118.9 |
| 52.5° | 104.4 | 105.1 | 105.2  | 105.3 | 106.1 | 106.2 | 106.2 | 106.1 |
| 55°   | 92.4  | 93.3  | 92.9   | 93.6  | 94.0  | 94.2  | 94.6  | 94.4  |
| 57.5° | 81.3  | 81.7  | 82.1   | 82.3  | 82.8  | 83.0  | 83.3  | 83.0  |
| 60°   | 70.4  | 71.2  | 71.8   | 72.0  | 72.2  | 72.5  | 72.6  | 73.0  |
| 62.5° | 60.1  | 61.4  | 61.7   | 61.8  | 62.5  | 62.9  | 63.1  | 63.4  |
| 65°   | 51.0  | 51.9  | 52.6   | 53.0  | 53.5  | 53.5  | 53.9  | 53.9  |
| 67.5° | 42.2  | 43.1  | 43.5   | 43.8  | 44.6  | 44.7  | 45.3  | 45.3  |
| 70°   | 34.1  | 34.8  | 35.1   | 35.5  | 36.2  | 36.8  | 37.0  | 37.3  |
| 72.5° | 26.4  | 27.2  | 27.5   | 28.1  | 28.6  | 29.0  | 29.1  | 29.5  |
| 75°   | 19.2  | 20.4  | 20.6   | 21.1  | 21.5  | 22.0  | 22.3  | 22.1  |
| 77.5° | 13.4  | 13.8  | 14.4   | 14.6  | 15.0  | 15.4  | 15.8  | 15.8  |
| 80°   | 8.3   | 8.8   | 9.0    | 9.1   | 9.6   | 9.9   | 10.1  | 10.1  |
| 82.5° | 4.3   | 4.6   | 4.9    | 5.0   | 5.3   | 5.3   | 5.4   | 5.5   |
| 85°   | 1.7   | 1.8   | 1.8    | 1.8   | 2.0   | 2.1   | 2.1   | 2.1   |
| 87.5° | 0.3   | 0.4   | 0.3    | 0.3   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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)