

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: P843343

Luminaire Tested: **LD4C10DE010B2750 EU4C10B50 4LBLWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C10DE010B2750 EU4C10B50 4LBLWWLI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

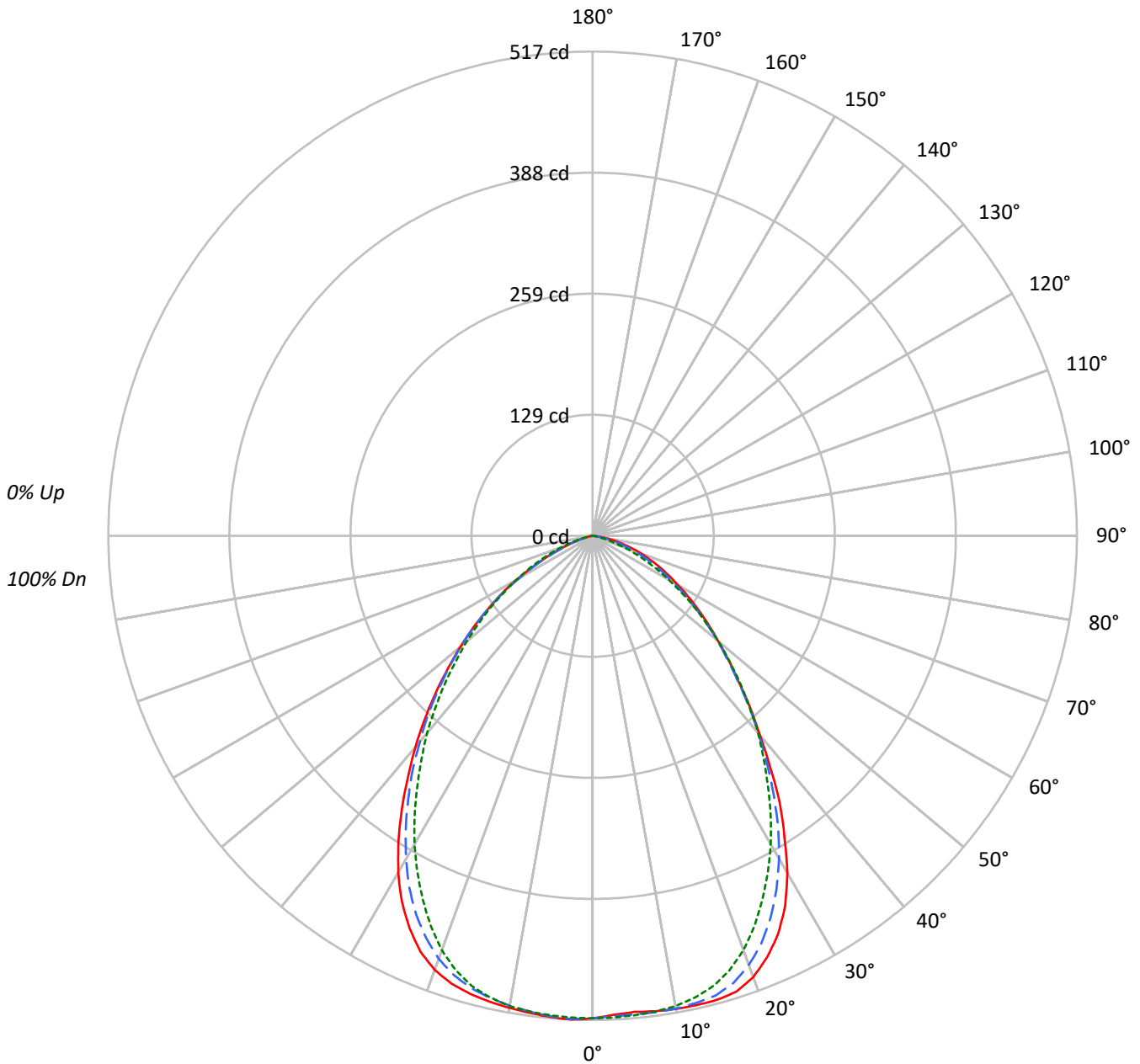
Lumens per Lamp: N/A  
Luminaire Lumens: 987.8 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
Input Voltage (V):  
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





TEST NUMBER: P843343

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 46  | 70  | 59  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 45  | 54  | 49  | 45  | 43  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 50  | 45  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 37  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 35  | 45  | 39  | 35  | 44  | 38  | 34  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 63306 | 63306 | 63306 |
| 5°  | 62944 | 63376 | 63610 |
| 10° | 63996 | 63609 | 63846 |
| 15° | 65247 | 63314 | 64382 |
| 20° | 65565 | 61551 | 64480 |
| 25° | 63548 | 58125 | 62680 |
| 30° | 58985 | 53935 | 58871 |
| 35° | 52237 | 48922 | 53212 |
| 40° | 44520 | 44071 | 47198 |
| 45° | 38258 | 38692 | 41107 |
| 50° | 33390 | 33466 | 35225 |
| 55° | 29515 | 28273 | 29215 |
| 60° | 25848 | 23047 | 22974 |
| 65° | 22907 | 17907 | 15930 |
| 70° | 19540 | 12321 | 9447  |
| 75° | 15806 | 6645  | 4319  |
| 80° | 10825 | 1627  | 1132  |
| 85° | 3242  | 564   | 564   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.0   | 5.0       |
| 10°-20°   | 141.8  | 14.4      |
| 20°-30°   | 204.8  | 20.7      |
| 30°-40°   | 211.8  | 21.4      |
| 40°-50°   | 175.0  | 17.7      |
| 50°-60°   | 120.7  | 12.2      |
| 60°-70°   | 63.2   | 6.4       |
| 70°-80°   | 19.9   | 2.0       |
| 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°    | 395.6  | 40.0      |
| 0°-40°    | 607.3  | 61.5      |
| 0°-60°    | 903.0  | 91.4      |
| 0°-90°    | 987.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 987.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 515 | 515 | 515 | 515  | 515  |      |
| 5°  | 510 | 513 | 514 | 515  | 516  | 49   |
| 15° | 513 | 508 | 498 | 500  | 506  | 145  |
| 25° | 469 | 450 | 429 | 446  | 462  | 214  |
| 35° | 348 | 337 | 326 | 343  | 355  | 216  |
| 45° | 220 | 219 | 223 | 233  | 237  | 172  |
| 55° | 138 | 134 | 132 | 136  | 136  | 124  |
| 65° | 79  | 71  | 62  | 51   | 55   | 78   |
| 75° | 33  | 26  | 14  | 10   | 9    | 36   |
| 85° | 2   | 1   | 0   | 0    | 0    | 5    |
| 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°    | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°  | 512.0 | 512.1 | 512.1 | 512.5 | 512.5 | 512.5 | 512.7 | 512.7 | 513.0 | 513.2 | 513.3 |
| 5°    | 510.4 | 510.4 | 510.8 | 510.9 | 511.4 | 511.6 | 512.0 | 512.1 | 512.5 | 512.7 | 513.0 |
| 7.5°  | 512.0 | 512.0 | 512.1 | 512.3 | 512.3 | 512.5 | 512.5 | 512.7 | 513.0 | 513.2 | 513.2 |
| 10°   | 513.0 | 513.0 | 513.0 | 513.0 | 513.2 | 513.2 | 513.2 | 513.0 | 513.0 | 513.0 | 512.7 |
| 12.5° | 513.3 | 513.3 | 513.2 | 513.0 | 513.2 | 513.0 | 513.0 | 512.3 | 512.0 | 511.6 | 510.9 |
| 15°   | 513.0 | 513.0 | 512.7 | 512.5 | 512.3 | 512.0 | 511.8 | 510.8 | 510.0 | 508.8 | 508.1 |
| 17.5° | 510.4 | 510.0 | 509.7 | 509.3 | 508.5 | 507.9 | 507.6 | 505.8 | 504.4 | 502.5 | 500.4 |
| 20°   | 501.5 | 501.1 | 500.6 | 499.6 | 498.6 | 497.8 | 496.7 | 494.1 | 492.9 | 489.9 | 487.8 |
| 22.5° | 487.0 | 486.6 | 486.8 | 485.0 | 483.1 | 482.0 | 481.2 | 479.1 | 476.8 | 473.1 | 470.8 |
| 25°   | 468.8 | 467.7 | 467.7 | 464.9 | 464.0 | 463.2 | 462.2 | 459.8 | 456.3 | 453.0 | 449.8 |
| 27.5° | 445.2 | 443.7 | 442.9 | 442.5 | 440.2 | 438.4 | 437.1 | 435.1 | 432.3 | 429.3 | 425.1 |
| 30°   | 415.8 | 415.7 | 414.6 | 412.9 | 411.2 | 410.4 | 408.9 | 405.5 | 402.9 | 400.7 | 398.0 |
| 32.5° | 381.2 | 381.0 | 381.0 | 381.0 | 379.8 | 379.6 | 377.3 | 375.6 | 373.5 | 370.2 | 368.4 |
| 35°   | 348.3 | 348.1 | 348.3 | 345.4 | 344.6 | 344.0 | 343.8 | 342.7 | 339.7 | 338.2 | 336.6 |
| 37.5° | 311.2 | 311.7 | 311.4 | 310.5 | 311.5 | 309.8 | 311.2 | 308.6 | 307.5 | 307.0 | 305.3 |
| 40°   | 277.6 | 279.2 | 277.6 | 277.8 | 278.8 | 277.1 | 277.1 | 276.7 | 275.9 | 275.5 | 275.1 |
| 42.5° | 249.0 | 247.1 | 248.2 | 247.3 | 248.2 | 247.7 | 246.7 | 247.3 | 247.5 | 246.7 | 246.5 |
| 45°   | 220.2 | 220.6 | 220.9 | 220.4 | 220.4 | 219.8 | 221.4 | 220.4 | 220.4 | 220.6 | 219.2 |
| 47.5° | 196.8 | 196.2 | 196.6 | 196.2 | 196.4 | 196.0 | 196.4 | 196.6 | 196.2 | 196.2 | 195.0 |
| 50°   | 174.7 | 174.3 | 175.7 | 174.5 | 174.5 | 174.3 | 174.5 | 174.1 | 173.6 | 173.6 | 174.0 |
| 52.5° | 155.6 | 154.8 | 154.6 | 155.6 | 154.2 | 154.2 | 154.4 | 154.0 | 153.3 | 152.8 | 151.9 |
| 55°   | 137.8 | 137.6 | 137.8 | 137.0 | 136.6 | 136.6 | 135.6 | 135.3 | 135.1 | 134.1 | 133.5 |
| 57.5° | 121.1 | 120.6 | 120.8 | 120.6 | 119.7 | 119.6 | 118.8 | 118.8 | 118.0 | 117.3 | 116.2 |
| 60°   | 105.2 | 105.2 | 105.9 | 105.0 | 104.5 | 104.1 | 103.8 | 103.3 | 102.0 | 100.6 | 99.4  |
| 62.5° | 91.2  | 91.3  | 91.2  | 90.5  | 90.2  | 89.8  | 89.4  | 88.2  | 87.0  | 86.3  | 84.9  |
| 65°   | 78.8  | 78.6  | 77.9  | 77.6  | 76.6  | 76.6  | 75.8  | 75.3  | 73.9  | 72.8  | 71.4  |
| 67.5° | 66.0  | 65.6  | 65.6  | 65.6  | 64.4  | 64.2  | 63.9  | 62.7  | 61.6  | 60.0  | 58.8  |
| 70°   | 54.4  | 54.8  | 54.2  | 53.6  | 53.0  | 52.8  | 52.2  | 51.1  | 49.7  | 48.2  | 47.2  |
| 72.5° | 43.4  | 43.7  | 43.2  | 42.9  | 41.8  | 41.4  | 41.2  | 40.3  | 38.7  | 37.8  | 36.2  |
| 75°   | 33.3  | 33.4  | 33.1  | 32.7  | 31.9  | 31.7  | 30.8  | 30.0  | 29.0  | 27.5  | 26.1  |
| 77.5° | 24.0  | 23.6  | 23.6  | 22.8  | 22.1  | 22.1  | 21.9  | 20.7  | 19.4  | 18.2  | 17.0  |
| 80°   | 15.3  | 15.1  | 14.5  | 14.2  | 13.5  | 13.3  | 13.1  | 12.2  | 11.2  | 10.5  | 9.6   |
| 82.5° | 7.7   | 7.5   | 7.4   | 7.2   | 6.8   | 6.3   | 6.6   | 5.8   | 5.4   | 4.7   | 4.0   |
| 85°   | 2.3   | 2.5   | 2.5   | 2.3   | 2.1   | 2.1   | 2.1   | 1.9   | 1.6   | 1.4   | 1.2   |
| 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°  | 513.5 | 513.7 | 513.9 | 514.1 | 514.1 | 514.3 | 514.4 | 514.6 | 514.9 | 514.9 | 515.1 |
| 5°    | 513.2 | 513.5 | 513.5 | 513.7 | 513.7 | 513.7 | 513.9 | 513.9 | 513.9 | 513.9 | 514.1 |
| 7.5°  | 513.3 | 513.3 | 513.3 | 513.2 | 513.2 | 513.0 | 513.0 | 513.0 | 512.5 | 512.5 | 512.5 |
| 10°   | 512.3 | 512.1 | 512.0 | 511.6 | 511.4 | 511.2 | 510.8 | 510.4 | 510.0 | 509.9 | 509.5 |
| 12.5° | 510.4 | 509.7 | 508.8 | 508.1 | 507.7 | 507.6 | 506.7 | 506.2 | 505.5 | 505.0 | 504.6 |
| 15°   | 506.5 | 505.3 | 504.1 | 502.5 | 502.1 | 501.7 | 500.4 | 499.2 | 498.5 | 497.8 | 496.9 |
| 17.5° | 498.8 | 496.5 | 495.0 | 492.6 | 491.7 | 491.3 | 489.2 | 488.0 | 486.6 | 486.2 | 485.5 |
| 20°   | 485.0 | 482.9 | 480.1 | 477.9 | 476.8 | 475.6 | 473.8 | 472.3 | 470.8 | 470.8 | 469.8 |
| 22.5° | 467.9 | 465.1 | 461.4 | 458.8 | 458.6 | 456.3 | 454.7 | 453.0 | 452.3 | 451.2 | 451.2 |
| 25°   | 446.2 | 443.9 | 439.8 | 437.4 | 436.3 | 435.7 | 433.2 | 430.9 | 429.7 | 428.8 | 429.5 |
| 27.5° | 422.2 | 418.7 | 415.7 | 412.7 | 411.7 | 410.6 | 408.2 | 407.3 | 405.2 | 405.0 | 404.8 |
| 30°   | 394.7 | 391.2 | 388.2 | 386.8 | 384.9 | 383.9 | 382.1 | 381.0 | 380.2 | 380.2 | 379.8 |
| 32.5° | 365.8 | 362.8 | 361.3 | 358.3 | 357.4 | 356.0 | 354.8 | 353.7 | 354.1 | 353.7 | 353.9 |
| 35°   | 334.7 | 334.0 | 331.0 | 329.3 | 329.3 | 329.1 | 327.2 | 326.4 | 326.1 | 326.2 | 327.2 |
| 37.5° | 305.1 | 302.8 | 300.9 | 299.7 | 300.7 | 299.5 | 299.3 | 299.3 | 300.5 | 299.7 | 301.2 |
| 40°   | 273.6 | 273.4 | 272.7 | 273.0 | 273.2 | 271.8 | 272.2 | 272.4 | 273.2 | 274.8 | 275.0 |
| 42.5° | 246.1 | 245.9 | 245.9 | 245.9 | 245.6 | 244.7 | 245.6 | 246.9 | 246.7 | 247.8 | 248.9 |
| 45°   | 219.6 | 219.2 | 220.0 | 219.5 | 220.6 | 220.9 | 220.4 | 220.7 | 221.9 | 222.7 | 224.2 |
| 47.5° | 195.5 | 195.5 | 195.7 | 196.0 | 194.8 | 195.8 | 196.2 | 196.9 | 197.6 | 197.9 | 198.7 |
| 50°   | 172.9 | 172.9 | 172.6 | 172.6 | 172.6 | 173.1 | 172.4 | 173.3 | 173.6 | 175.1 | 176.1 |
| 52.5° | 152.3 | 151.3 | 151.9 | 151.5 | 150.7 | 150.3 | 150.7 | 150.9 | 152.1 | 152.5 | 153.7 |
| 55°   | 132.5 | 132.5 | 131.0 | 130.6 | 131.1 | 131.0 | 130.8 | 130.8 | 131.4 | 132.0 | 132.9 |
| 57.5° | 115.2 | 114.0 | 112.8 | 112.6 | 112.0 | 112.2 | 112.2 | 112.0 | 111.7 | 111.8 | 112.0 |
| 60°   | 98.7  | 97.9  | 96.1  | 96.1  | 95.9  | 95.8  | 94.8  | 94.7  | 93.6  | 93.8  | 93.1  |
| 62.5° | 83.6  | 83.2  | 80.9  | 80.1  | 80.1  | 79.5  | 78.6  | 78.4  | 77.0  | 77.0  | 76.3  |
| 65°   | 70.0  | 68.9  | 67.5  | 66.2  | 66.2  | 65.4  | 64.8  | 63.0  | 62.1  | 61.6  | 60.4  |
| 67.5° | 57.6  | 55.9  | 54.6  | 53.4  | 52.7  | 52.5  | 51.1  | 49.9  | 48.3  | 47.4  | 45.7  |
| 70°   | 45.7  | 44.3  | 42.9  | 41.8  | 41.0  | 40.3  | 38.9  | 37.1  | 36.0  | 34.3  | 33.1  |
| 72.5° | 34.5  | 33.3  | 32.2  | 30.6  | 29.6  | 29.0  | 27.7  | 26.1  | 24.2  | 23.1  | 21.5  |
| 75°   | 24.7  | 23.4  | 21.9  | 20.5  | 19.9  | 19.4  | 17.8  | 16.6  | 15.3  | 14.0  | 12.4  |
| 77.5° | 16.1  | 14.5  | 13.3  | 11.8  | 11.6  | 11.2  | 9.6   | 8.5   | 7.5   | 6.8   | 5.8   |
| 80°   | 8.5   | 7.7   | 6.8   | 5.8   | 5.4   | 4.9   | 4.0   | 3.5   | 2.9   | 2.3   | 1.9   |
| 82.5° | 3.7   | 3.1   | 2.5   | 2.1   | 1.9   | 1.7   | 1.4   | 1.2   | 1.0   | 1.0   | 0.7   |
| 85°   | 1.0   | 0.7   | 0.7   | 0.5   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.0   | 0.2   | 0.2   | 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°    | 515.3 | 515.3 | 515.3 | 515.3  | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°  | 515.3 | 515.5 | 515.6 | 515.6  | 515.8 | 516.0 | 516.0 | 516.2 | 516.4 | 516.7 | 516.7 |
| 5°    | 514.3 | 514.3 | 514.3 | 514.4  | 514.4 | 514.4 | 514.4 | 514.9 | 514.9 | 515.1 | 515.3 |
| 7.5°  | 512.3 | 512.3 | 512.3 | 512.3  | 512.1 | 512.3 | 512.1 | 512.1 | 512.5 | 512.7 | 513.0 |
| 10°   | 509.3 | 509.0 | 509.0 | 508.8  | 508.8 | 508.8 | 509.0 | 509.3 | 509.5 | 509.7 | 510.2 |
| 12.5° | 504.4 | 504.2 | 504.2 | 504.1  | 504.1 | 504.2 | 504.4 | 504.8 | 505.5 | 506.0 | 506.7 |
| 15°   | 496.7 | 496.5 | 496.7 | 496.9  | 497.3 | 497.8 | 498.5 | 499.0 | 500.2 | 501.1 | 502.1 |
| 17.5° | 485.5 | 485.7 | 485.9 | 486.2  | 486.8 | 487.6 | 489.2 | 490.6 | 492.0 | 493.6 | 495.1 |
| 20°   | 470.0 | 470.8 | 471.0 | 472.3  | 472.7 | 474.5 | 476.1 | 478.5 | 480.6 | 482.6 | 484.7 |
| 22.5° | 451.4 | 452.0 | 452.8 | 454.3  | 455.3 | 457.6 | 459.8 | 462.4 | 464.7 | 467.3 | 470.3 |
| 25°   | 430.4 | 430.5 | 432.8 | 432.8  | 435.1 | 437.1 | 439.6 | 442.5 | 446.0 | 449.3 | 451.4 |
| 27.5° | 406.3 | 407.3 | 409.0 | 409.8  | 411.5 | 414.6 | 416.8 | 420.2 | 423.7 | 426.6 | 429.0 |
| 30°   | 381.2 | 381.9 | 384.9 | 385.2  | 386.6 | 389.3 | 392.2 | 395.4 | 398.2 | 401.5 | 403.6 |
| 32.5° | 354.6 | 356.7 | 358.5 | 359.9  | 360.2 | 364.4 | 365.8 | 368.2 | 371.3 | 374.6 | 376.7 |
| 35°   | 328.9 | 329.9 | 332.4 | 333.2  | 334.3 | 336.6 | 339.7 | 341.7 | 343.2 | 345.4 | 347.9 |
| 37.5° | 301.6 | 304.5 | 305.1 | 307.5  | 307.9 | 310.0 | 311.5 | 313.8 | 315.8 | 317.7 | 318.1 |
| 40°   | 276.3 | 277.3 | 279.4 | 280.0  | 280.4 | 283.2 | 285.2 | 285.8 | 286.7 | 288.5 | 290.8 |
| 42.5° | 250.6 | 251.5 | 253.8 | 253.3  | 255.0 | 256.4 | 257.3 | 259.6 | 260.6 | 261.2 | 261.2 |
| 45°   | 225.2 | 225.6 | 227.2 | 227.9  | 228.9 | 229.7 | 231.4 | 232.6 | 233.0 | 234.7 | 235.3 |
| 47.5° | 201.1 | 201.4 | 202.5 | 203.9  | 203.6 | 204.5 | 206.5 | 207.0 | 207.2 | 208.4 | 209.0 |
| 50°   | 177.3 | 178.2 | 179.8 | 179.4  | 180.5 | 181.1 | 182.9 | 183.2 | 183.2 | 183.4 | 183.6 |
| 52.5° | 154.9 | 155.8 | 156.1 | 156.5  | 157.1 | 158.1 | 158.9 | 158.4 | 159.3 | 160.0 | 159.4 |
| 55°   | 132.9 | 133.5 | 134.4 | 134.8  | 134.8 | 135.1 | 134.6 | 136.4 | 135.6 | 135.5 | 135.6 |
| 57.5° | 112.8 | 112.0 | 111.8 | 112.8  | 113.2 | 113.0 | 112.4 | 113.2 | 113.2 | 112.8 | 112.2 |
| 60°   | 93.3  | 92.6  | 92.4  | 92.6   | 91.9  | 91.3  | 91.7  | 91.3  | 90.3  | 90.0  | 90.2  |
| 62.5° | 75.4  | 74.9  | 73.3  | 73.3   | 73.0  | 72.8  | 71.2  | 71.4  | 70.6  | 69.5  | 69.8  |
| 65°   | 59.0  | 57.4  | 56.7  | 56.5   | 55.1  | 53.9  | 53.6  | 52.2  | 51.1  | 50.9  | 51.1  |
| 67.5° | 44.3  | 42.5  | 41.2  | 40.6   | 39.9  | 38.9  | 37.5  | 36.4  | 36.8  | 36.6  | 37.3  |
| 70°   | 30.8  | 29.6  | 28.2  | 27.3   | 27.7  | 26.5  | 25.7  | 25.7  | 25.9  | 26.1  | 26.5  |
| 72.5° | 20.5  | 18.9  | 18.4  | 17.8   | 17.5  | 16.6  | 17.0  | 17.0  | 16.8  | 17.0  | 16.6  |
| 75°   | 11.6  | 10.8  | 10.3  | 10.0   | 9.6   | 9.6   | 9.6   | 9.6   | 9.5   | 9.3   | 9.3   |
| 77.5° | 5.2   | 4.9   | 4.7   | 4.4    | 4.4   | 4.4   | 4.2   | 4.0   | 4.0   | 4.0   | 3.9   |
| 80°   | 1.7   | 1.7   | 1.7   | 1.7    | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   |
| 82.5° | 0.7   | 0.7   | 1.0   | 1.0    | 1.0   | 0.7   | 1.0   | 1.0   | 0.7   | 0.7   | 1.0   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.0    | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.2   | 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: P843343

CATALOG NUMBER: LD4C10DE010B2750 EU4C10B50 4LBLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 515.3 | 515.3 | 515.3  | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°  | 516.8 | 517.0 | 517.0  | 517.0 | 517.2 | 517.2 | 517.2 | 517.2 |
| 5°    | 515.5 | 515.6 | 515.6  | 515.6 | 515.8 | 515.8 | 515.8 | 515.8 |
| 7.5°  | 513.2 | 513.3 | 513.3  | 513.5 | 513.5 | 513.7 | 513.7 | 513.9 |
| 10°   | 510.4 | 510.8 | 510.9  | 511.2 | 511.4 | 511.6 | 511.6 | 511.8 |
| 12.5° | 507.6 | 507.9 | 508.1  | 508.5 | 508.8 | 509.0 | 509.3 | 509.5 |
| 15°   | 503.2 | 504.1 | 504.4  | 504.6 | 505.3 | 505.8 | 506.0 | 506.2 |
| 17.5° | 496.5 | 498.0 | 498.6  | 499.0 | 499.7 | 500.6 | 501.1 | 501.3 |
| 20°   | 486.8 | 488.5 | 489.4  | 490.3 | 491.5 | 492.4 | 492.9 | 493.2 |
| 22.5° | 473.3 | 475.2 | 476.4  | 477.5 | 478.5 | 479.4 | 481.0 | 480.4 |
| 25°   | 453.9 | 457.2 | 458.6  | 459.1 | 461.2 | 462.4 | 463.2 | 462.4 |
| 27.5° | 432.3 | 434.2 | 435.3  | 436.7 | 438.3 | 439.4 | 439.8 | 440.9 |
| 30°   | 406.1 | 409.4 | 409.2  | 410.6 | 412.5 | 413.6 | 414.1 | 415.0 |
| 32.5° | 379.1 | 380.5 | 381.7  | 381.6 | 382.3 | 384.4 | 383.7 | 385.4 |
| 35°   | 350.2 | 350.4 | 352.3  | 352.2 | 353.7 | 353.7 | 353.7 | 354.8 |
| 37.5° | 319.4 | 321.7 | 320.8  | 323.1 | 322.4 | 322.9 | 322.9 | 323.3 |
| 40°   | 291.4 | 292.1 | 292.1  | 293.0 | 293.5 | 293.0 | 293.3 | 294.3 |
| 42.5° | 262.4 | 263.1 | 263.4  | 262.9 | 263.6 | 265.3 | 263.9 | 265.0 |
| 45°   | 235.3 | 235.9 | 236.6  | 236.1 | 237.0 | 236.5 | 237.0 | 236.6 |
| 47.5° | 209.7 | 209.5 | 209.3  | 210.9 | 209.5 | 209.7 | 210.5 | 209.2 |
| 50°   | 183.6 | 184.8 | 184.0  | 184.6 | 185.0 | 185.0 | 184.3 | 184.3 |
| 52.5° | 160.4 | 160.2 | 159.6  | 160.2 | 159.8 | 160.0 | 160.4 | 160.0 |
| 55°   | 136.4 | 137.2 | 136.8  | 136.6 | 136.8 | 136.8 | 137.9 | 136.4 |
| 57.5° | 112.8 | 112.4 | 113.0  | 114.3 | 113.0 | 114.0 | 114.5 | 114.8 |
| 60°   | 90.3  | 90.3  | 91.5   | 91.0  | 92.1  | 93.1  | 93.8  | 93.5  |
| 62.5° | 68.9  | 69.8  | 70.2   | 70.4  | 71.6  | 72.3  | 72.3  | 72.1  |
| 65°   | 51.1  | 52.5  | 52.5   | 53.2  | 53.6  | 53.6  | 53.9  | 54.8  |
| 67.5° | 37.8  | 37.8  | 38.0   | 38.3  | 38.1  | 38.1  | 38.5  | 38.7  |
| 70°   | 26.3  | 25.9  | 26.5   | 26.3  | 26.3  | 26.1  | 26.3  | 26.3  |
| 72.5° | 16.6  | 16.6  | 16.8   | 16.6  | 16.3  | 16.5  | 16.5  | 16.8  |
| 75°   | 8.9   | 9.3   | 8.9    | 8.9   | 9.1   | 8.7   | 8.9   | 9.1   |
| 77.5° | 3.7   | 3.7   | 3.7    | 3.7   | 3.7   | 3.5   | 3.5   | 3.5   |
| 80°   | 1.7   | 1.7   | 1.7    | 1.7   | 1.7   | 1.7   | 1.6   | 1.6   |
| 82.5° | 0.7   | 1.0   | 0.7    | 1.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.4   | 0.4   | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.2   | 0.0    | 0.2   | 0.0   | 0.0   | 0.0   | 0.2   |
| 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)