

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: P843329

Luminaire Tested: **LD4C10DE010B40 EU4C10B40 4LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843329
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: LD4C10DE010B40 EU4C10B40 4LBLWWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

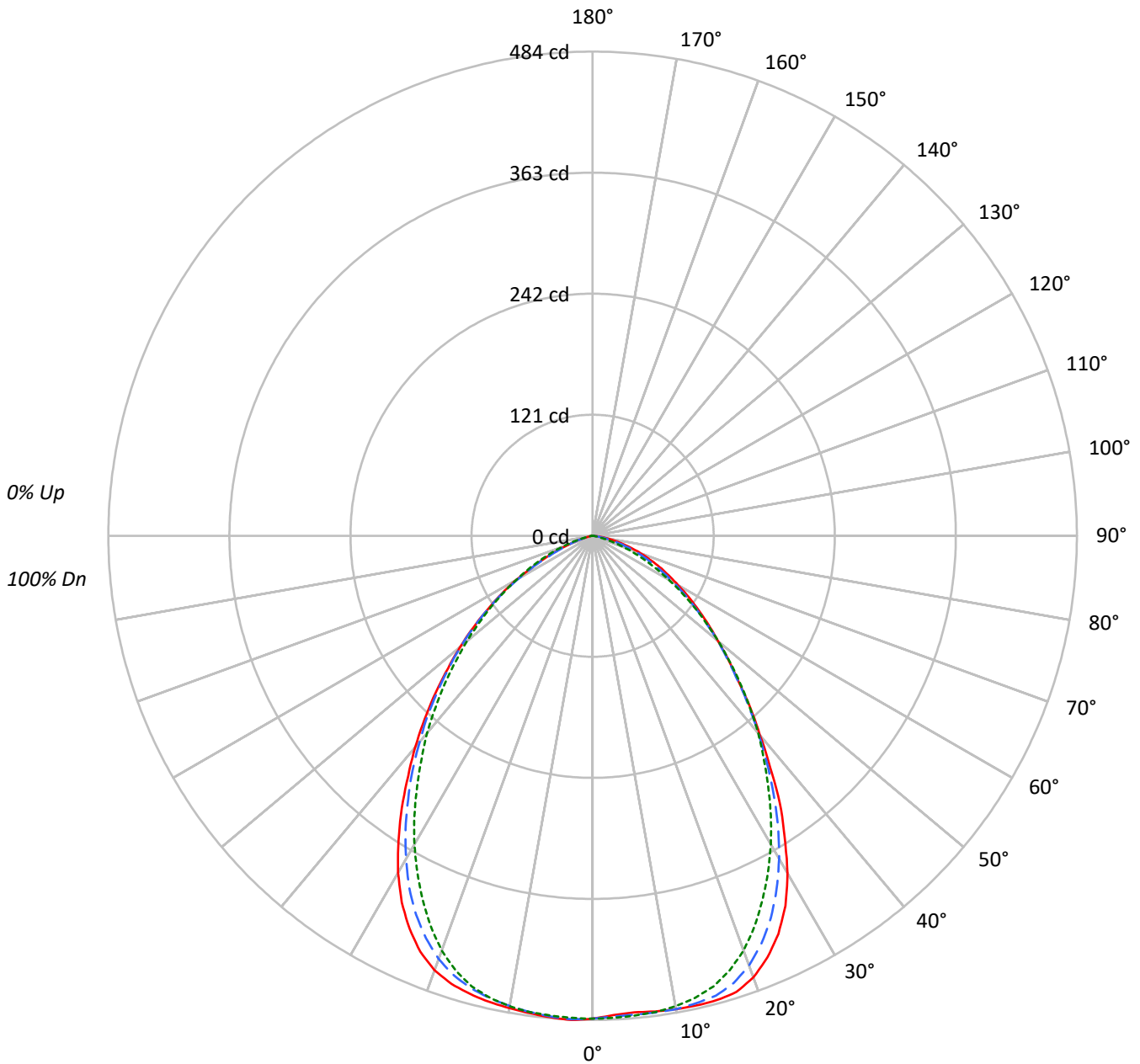
Lumens per Lamp: N/A
Luminaire Lumens: 925.4 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P843329

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | | | 100 |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 80 | 78 | | | 78 |
| 3 | 95 | 87 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 70 | 68 | | | 68 |
| 4 | 88 | 78 | 71 | 65 | 86 | 77 | 70 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 60 | | | 60 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 63 | 57 | 68 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 55 | 54 | | | 54 |
| 6 | 76 | 65 | 57 | 51 | 75 | 64 | 56 | 51 | 62 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 | | | 48 |
| 7 | 71 | 59 | 51 | 46 | 70 | 59 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 45 | 54 | 49 | 45 | 43 | | | 43 |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 50 | 45 | 41 | 39 | | | 39 |
| 9 | 63 | 51 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 36 | | | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 33 | | | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 59301 | 59301 | 59301 |
| 5° | 58973 | 59368 | 59590 |
| 10° | 59942 | 59580 | 59805 |
| 15° | 61113 | 59320 | 60299 |
| 20° | 61421 | 57655 | 60414 |
| 25° | 59535 | 54452 | 58722 |
| 30° | 55254 | 50530 | 55155 |
| 35° | 48937 | 45848 | 49852 |
| 40° | 41713 | 41280 | 44215 |
| 45° | 35825 | 36260 | 38518 |
| 50° | 31287 | 31345 | 33007 |
| 55° | 27630 | 26474 | 27373 |
| 60° | 24227 | 21598 | 21524 |
| 65° | 21453 | 16744 | 14913 |
| 70° | 18319 | 11494 | 8836 |
| 75° | 14810 | 6171 | 4082 |
| 80° | 10117 | 1556 | 1061 |
| 85° | 3101 | 423 | 423 |



TEST NUMBER: P843329

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.9 | 5.0 |
| 10°-20° | 132.8 | 14.4 |
| 20°-30° | 191.9 | 20.7 |
| 30°-40° | 198.4 | 21.4 |
| 40°-50° | 163.9 | 17.7 |
| 50°-60° | 113.1 | 12.2 |
| 60°-70° | 59.2 | 6.4 |
| 70°-80° | 18.6 | 2.0 |
| 80°-90° | 1.6 | 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° | 370.6 | 40.0 |
| 0°-40° | 568.9 | 61.5 |
| 0°-60° | 846.0 | 91.4 |
| 0°-90° | 925.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 925.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 483 | 483 | 483 | 483 | 483 | |
| 5° | 478 | 480 | 481 | 482 | 483 | 46 |
| 15° | 480 | 476 | 466 | 468 | 474 | 136 |
| 25° | 439 | 422 | 402 | 418 | 433 | 201 |
| 35° | 326 | 315 | 306 | 322 | 332 | 203 |
| 45° | 206 | 205 | 209 | 218 | 222 | 161 |
| 55° | 129 | 125 | 124 | 127 | 128 | 116 |
| 65° | 74 | 67 | 58 | 48 | 51 | 73 |
| 75° | 31 | 24 | 13 | 9 | 9 | 33 |
| 85° | 2 | 1 | 0 | 0 | 0 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843329

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 479.6 | 479.8 | 479.8 | 480.2 | 480.2 | 480.2 | 480.4 | 480.4 | 480.5 | 480.7 | 480.9 |
| 5° | 478.2 | 478.2 | 478.6 | 478.7 | 479.1 | 479.2 | 479.6 | 479.8 | 480.2 | 480.4 | 480.5 |
| 7.5° | 479.6 | 479.6 | 479.8 | 480.0 | 480.0 | 480.2 | 480.2 | 480.4 | 480.5 | 480.7 | 480.7 |
| 10° | 480.5 | 480.5 | 480.5 | 480.5 | 480.7 | 480.7 | 480.7 | 480.5 | 480.5 | 480.5 | 480.4 |
| 12.5° | 480.9 | 480.9 | 480.7 | 480.5 | 480.7 | 480.5 | 480.5 | 480.0 | 479.6 | 479.2 | 478.7 |
| 15° | 480.5 | 480.5 | 480.4 | 480.2 | 480.0 | 479.6 | 479.4 | 478.6 | 477.8 | 476.7 | 476.0 |
| 17.5° | 478.2 | 477.8 | 477.4 | 477.1 | 476.4 | 475.8 | 475.4 | 473.8 | 472.6 | 470.8 | 468.7 |
| 20° | 469.8 | 469.5 | 469.0 | 468.0 | 467.2 | 466.4 | 465.3 | 462.9 | 461.7 | 458.9 | 457.0 |
| 22.5° | 456.3 | 455.8 | 456.1 | 454.5 | 452.6 | 451.5 | 450.8 | 448.8 | 446.6 | 443.1 | 441.0 |
| 25° | 439.2 | 438.1 | 438.1 | 435.5 | 434.7 | 433.9 | 433.0 | 430.7 | 427.4 | 424.3 | 421.5 |
| 27.5° | 417.1 | 415.7 | 414.9 | 414.6 | 412.4 | 410.8 | 409.5 | 407.6 | 405.0 | 402.2 | 398.2 |
| 30° | 389.5 | 389.3 | 388.5 | 386.8 | 385.2 | 384.4 | 383.0 | 379.9 | 377.4 | 375.4 | 372.8 |
| 32.5° | 357.1 | 357.0 | 357.0 | 357.0 | 355.8 | 355.7 | 353.5 | 351.9 | 349.9 | 346.8 | 345.1 |
| 35° | 326.3 | 326.1 | 326.3 | 323.5 | 322.8 | 322.3 | 322.2 | 321.0 | 318.3 | 316.9 | 315.4 |
| 37.5° | 291.5 | 292.0 | 291.7 | 291.0 | 291.8 | 290.2 | 291.5 | 289.2 | 288.0 | 287.7 | 286.0 |
| 40° | 260.1 | 261.6 | 260.1 | 260.3 | 261.2 | 259.5 | 259.5 | 259.2 | 258.5 | 258.2 | 257.7 |
| 42.5° | 233.3 | 231.5 | 232.6 | 231.6 | 232.6 | 232.0 | 231.1 | 231.6 | 231.8 | 231.1 | 230.9 |
| 45° | 206.2 | 206.7 | 207.0 | 206.5 | 206.5 | 205.9 | 207.4 | 206.5 | 206.5 | 206.7 | 205.4 |
| 47.5° | 184.3 | 183.8 | 184.1 | 183.8 | 184.0 | 183.6 | 184.0 | 184.1 | 183.8 | 183.8 | 182.8 |
| 50° | 163.7 | 163.3 | 164.6 | 163.5 | 163.5 | 163.3 | 163.5 | 163.1 | 162.6 | 162.6 | 163.0 |
| 52.5° | 145.7 | 145.0 | 144.8 | 145.7 | 144.5 | 144.5 | 144.7 | 144.3 | 143.5 | 143.2 | 142.3 |
| 55° | 129.0 | 128.9 | 129.0 | 128.3 | 128.0 | 128.0 | 127.0 | 126.7 | 126.5 | 125.6 | 125.1 |
| 57.5° | 113.5 | 113.0 | 113.1 | 113.0 | 112.2 | 112.0 | 111.3 | 111.3 | 110.5 | 109.9 | 108.9 |
| 60° | 98.6 | 98.6 | 99.1 | 98.5 | 97.8 | 97.5 | 97.2 | 96.8 | 95.5 | 94.2 | 93.2 |
| 62.5° | 85.4 | 85.6 | 85.4 | 84.8 | 84.5 | 84.1 | 83.8 | 82.7 | 81.5 | 80.8 | 79.5 |
| 65° | 73.8 | 73.6 | 73.1 | 72.7 | 71.8 | 71.8 | 71.1 | 70.5 | 69.3 | 68.1 | 66.8 |
| 67.5° | 61.8 | 61.4 | 61.4 | 61.4 | 60.4 | 60.2 | 59.9 | 58.7 | 57.6 | 56.2 | 55.1 |
| 70° | 51.0 | 51.3 | 50.8 | 50.2 | 49.7 | 49.5 | 49.0 | 47.8 | 46.5 | 45.2 | 44.2 |
| 72.5° | 40.6 | 40.9 | 40.4 | 40.2 | 39.1 | 38.8 | 38.6 | 37.7 | 36.3 | 35.3 | 33.8 |
| 75° | 31.2 | 31.3 | 31.0 | 30.7 | 29.9 | 29.7 | 28.9 | 28.1 | 27.2 | 25.7 | 24.4 |
| 77.5° | 22.5 | 22.1 | 22.1 | 21.4 | 20.6 | 20.6 | 20.5 | 19.4 | 18.1 | 17.0 | 16.0 |
| 80° | 14.3 | 14.2 | 13.6 | 13.2 | 12.7 | 12.5 | 12.4 | 11.4 | 10.5 | 9.8 | 9.1 |
| 82.5° | 7.3 | 7.1 | 6.9 | 6.7 | 6.3 | 6.0 | 6.1 | 5.4 | 5.1 | 4.3 | 3.8 |
| 85° | 2.2 | 2.3 | 2.3 | 2.2 | 2.0 | 2.0 | 2.0 | 1.8 | 1.5 | 1.3 | 1.1 |
| 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° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 481.1 | 481.2 | 481.4 | 481.6 | 481.6 | 481.8 | 482.0 | 482.2 | 482.4 | 482.4 | 482.5 |
| 5° | 480.7 | 481.1 | 481.1 | 481.2 | 481.2 | 481.2 | 481.4 | 481.4 | 481.4 | 481.4 | 481.6 |
| 7.5° | 480.9 | 480.9 | 480.9 | 480.7 | 480.7 | 480.5 | 480.5 | 480.5 | 480.2 | 480.2 | 480.2 |
| 10° | 480.0 | 479.8 | 479.6 | 479.2 | 479.1 | 478.9 | 478.6 | 478.2 | 477.8 | 477.6 | 477.3 |
| 12.5° | 478.2 | 477.4 | 476.7 | 476.0 | 475.6 | 475.4 | 474.8 | 474.1 | 473.6 | 473.1 | 472.8 |
| 15° | 474.6 | 473.5 | 472.2 | 470.8 | 470.3 | 470.0 | 468.7 | 467.7 | 466.9 | 466.4 | 465.5 |
| 17.5° | 467.3 | 465.1 | 463.7 | 461.4 | 460.6 | 460.2 | 458.3 | 457.1 | 455.8 | 455.5 | 454.8 |
| 20° | 454.5 | 452.5 | 449.7 | 447.7 | 446.6 | 445.6 | 443.9 | 442.5 | 441.0 | 441.0 | 440.1 |
| 22.5° | 438.3 | 435.7 | 432.4 | 429.8 | 429.6 | 427.4 | 426.0 | 424.3 | 423.8 | 422.7 | 422.7 |
| 25° | 418.0 | 415.9 | 412.1 | 409.8 | 408.8 | 408.2 | 405.8 | 403.7 | 402.5 | 401.7 | 402.4 |
| 27.5° | 395.6 | 392.3 | 389.3 | 386.7 | 385.7 | 384.7 | 382.4 | 381.6 | 379.6 | 379.4 | 379.2 |
| 30° | 369.7 | 366.5 | 363.6 | 362.3 | 360.5 | 359.6 | 358.0 | 357.0 | 356.2 | 356.2 | 355.8 |
| 32.5° | 342.8 | 339.8 | 338.4 | 335.7 | 334.7 | 333.5 | 332.4 | 331.4 | 331.7 | 331.4 | 331.6 |
| 35° | 313.6 | 312.8 | 310.1 | 308.5 | 308.5 | 308.3 | 306.5 | 305.8 | 305.4 | 305.7 | 306.5 |
| 37.5° | 285.9 | 283.7 | 281.9 | 280.8 | 281.6 | 280.6 | 280.4 | 280.4 | 281.5 | 280.8 | 282.2 |
| 40° | 256.3 | 256.2 | 255.4 | 255.7 | 255.9 | 254.7 | 255.0 | 255.2 | 255.9 | 257.4 | 257.5 |
| 42.5° | 230.6 | 230.4 | 230.4 | 230.4 | 230.0 | 229.3 | 230.0 | 231.3 | 231.1 | 232.2 | 233.1 |
| 45° | 205.7 | 205.4 | 206.1 | 205.6 | 206.7 | 207.0 | 206.5 | 206.9 | 207.9 | 208.7 | 210.0 |
| 47.5° | 183.1 | 183.1 | 183.3 | 183.6 | 182.5 | 183.4 | 183.8 | 184.6 | 185.1 | 185.4 | 186.1 |
| 50° | 162.0 | 162.0 | 161.7 | 161.7 | 161.7 | 162.2 | 161.5 | 162.5 | 162.6 | 164.0 | 165.0 |
| 52.5° | 142.7 | 141.7 | 142.3 | 141.9 | 141.2 | 140.9 | 141.2 | 141.4 | 142.5 | 142.9 | 143.9 |
| 55° | 124.2 | 124.2 | 122.7 | 122.4 | 122.9 | 122.7 | 122.6 | 122.6 | 123.1 | 123.6 | 124.5 |
| 57.5° | 107.9 | 106.7 | 105.7 | 105.4 | 104.9 | 105.1 | 105.1 | 104.9 | 104.6 | 104.8 | 104.9 |
| 60° | 92.4 | 91.7 | 90.1 | 90.1 | 89.9 | 89.7 | 88.8 | 88.6 | 87.8 | 87.9 | 87.1 |
| 62.5° | 78.3 | 77.9 | 75.7 | 75.1 | 75.1 | 74.5 | 73.6 | 73.4 | 72.1 | 72.1 | 71.4 |
| 65° | 65.6 | 64.5 | 63.2 | 62.0 | 62.0 | 61.2 | 60.7 | 59.1 | 58.2 | 57.6 | 56.6 |
| 67.5° | 54.0 | 52.4 | 51.1 | 50.0 | 49.3 | 49.1 | 47.8 | 46.7 | 45.3 | 44.4 | 42.7 |
| 70° | 42.7 | 41.5 | 40.2 | 39.1 | 38.4 | 37.7 | 36.4 | 34.8 | 33.7 | 32.0 | 31.0 |
| 72.5° | 32.3 | 31.2 | 30.0 | 28.7 | 27.7 | 27.2 | 25.9 | 24.4 | 22.6 | 21.6 | 20.1 |
| 75° | 23.2 | 21.9 | 20.5 | 19.2 | 18.7 | 18.1 | 16.7 | 15.5 | 14.3 | 13.0 | 11.6 |
| 77.5° | 15.0 | 13.6 | 12.5 | 11.1 | 10.9 | 10.5 | 9.1 | 7.9 | 7.1 | 6.3 | 5.4 |
| 80° | 7.9 | 7.3 | 6.3 | 5.4 | 5.1 | 4.5 | 3.8 | 3.3 | 2.7 | 2.2 | 1.8 |
| 82.5° | 3.5 | 2.9 | 2.3 | 2.0 | 1.8 | 1.6 | 1.3 | 1.1 | 1.0 | 1.0 | 0.7 |
| 85° | 1.0 | 0.7 | 0.7 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 482.7 | 482.9 | 483.0 | 483.0 | 483.2 | 483.4 | 483.4 | 483.7 | 483.8 | 484.0 | 484.0 |
| 5° | 481.8 | 481.8 | 481.8 | 482.0 | 482.0 | 482.0 | 482.0 | 482.4 | 482.4 | 482.5 | 482.7 |
| 7.5° | 480.0 | 480.0 | 480.0 | 480.0 | 479.8 | 480.0 | 479.8 | 479.8 | 480.2 | 480.4 | 480.5 |
| 10° | 477.1 | 476.9 | 476.9 | 476.7 | 476.7 | 476.7 | 476.9 | 477.1 | 477.3 | 477.4 | 477.9 |
| 12.5° | 472.6 | 472.3 | 472.3 | 472.2 | 472.2 | 472.3 | 472.6 | 472.9 | 473.6 | 474.0 | 474.8 |
| 15° | 465.3 | 465.1 | 465.3 | 465.5 | 465.9 | 466.4 | 466.9 | 467.5 | 468.5 | 469.5 | 470.3 |
| 17.5° | 454.8 | 455.0 | 455.1 | 455.5 | 456.1 | 456.8 | 458.3 | 459.6 | 460.9 | 462.4 | 463.9 |
| 20° | 440.3 | 441.0 | 441.2 | 442.5 | 442.8 | 444.4 | 446.1 | 448.2 | 450.2 | 452.0 | 454.0 |
| 22.5° | 422.8 | 423.5 | 424.1 | 425.6 | 426.5 | 428.7 | 430.7 | 433.2 | 435.4 | 437.8 | 440.6 |
| 25° | 403.2 | 403.3 | 405.5 | 405.5 | 407.6 | 409.5 | 411.8 | 414.6 | 417.8 | 420.9 | 422.8 |
| 27.5° | 380.6 | 381.6 | 383.2 | 383.9 | 385.5 | 388.5 | 390.5 | 393.7 | 396.9 | 399.7 | 401.9 |
| 30° | 357.1 | 357.8 | 360.5 | 360.9 | 362.1 | 364.7 | 367.4 | 370.5 | 373.0 | 376.1 | 378.1 |
| 32.5° | 332.2 | 334.2 | 335.9 | 337.2 | 337.5 | 341.3 | 342.8 | 344.9 | 347.9 | 350.9 | 352.9 |
| 35° | 308.2 | 309.0 | 311.4 | 312.1 | 313.3 | 315.4 | 318.3 | 320.1 | 321.5 | 323.5 | 326.0 |
| 37.5° | 282.6 | 285.3 | 285.9 | 288.0 | 288.4 | 290.4 | 291.8 | 294.0 | 295.8 | 297.6 | 298.0 |
| 40° | 258.8 | 259.8 | 261.8 | 262.3 | 262.6 | 265.4 | 267.2 | 267.7 | 268.6 | 270.2 | 272.4 |
| 42.5° | 234.7 | 235.6 | 237.9 | 237.2 | 238.9 | 240.2 | 241.0 | 243.3 | 244.2 | 244.7 | 244.7 |
| 45° | 211.0 | 211.3 | 212.8 | 213.5 | 214.4 | 215.1 | 216.8 | 217.9 | 218.2 | 219.9 | 220.4 |
| 47.5° | 188.4 | 188.7 | 189.7 | 191.0 | 190.7 | 191.6 | 193.4 | 194.0 | 194.2 | 195.2 | 195.8 |
| 50° | 166.0 | 166.9 | 168.4 | 168.1 | 169.1 | 169.6 | 171.3 | 171.7 | 171.7 | 171.9 | 172.0 |
| 52.5° | 145.2 | 146.0 | 146.3 | 146.7 | 147.2 | 148.1 | 148.8 | 148.5 | 149.1 | 149.9 | 149.3 |
| 55° | 124.5 | 125.1 | 126.0 | 126.4 | 126.4 | 126.5 | 126.2 | 127.8 | 127.0 | 126.9 | 127.0 |
| 57.5° | 105.7 | 104.9 | 104.8 | 105.7 | 106.1 | 105.9 | 105.3 | 106.1 | 106.1 | 105.7 | 105.1 |
| 60° | 87.4 | 86.8 | 86.6 | 86.8 | 86.1 | 85.6 | 85.9 | 85.6 | 84.6 | 84.3 | 84.5 |
| 62.5° | 70.6 | 70.1 | 68.7 | 68.7 | 68.3 | 68.1 | 66.7 | 66.8 | 66.2 | 65.0 | 65.5 |
| 65° | 55.3 | 53.8 | 53.1 | 52.9 | 51.6 | 50.6 | 50.2 | 49.0 | 47.8 | 47.7 | 47.8 |
| 67.5° | 41.5 | 39.9 | 38.6 | 38.1 | 37.3 | 36.4 | 35.1 | 34.1 | 34.5 | 34.3 | 35.0 |
| 70° | 28.9 | 27.7 | 26.4 | 25.6 | 25.9 | 24.9 | 24.1 | 24.1 | 24.3 | 24.4 | 24.9 |
| 72.5° | 19.2 | 17.8 | 17.2 | 16.7 | 16.3 | 15.5 | 16.0 | 16.0 | 15.8 | 16.0 | 15.5 |
| 75° | 10.9 | 10.2 | 9.6 | 9.4 | 9.1 | 9.1 | 9.1 | 9.1 | 8.9 | 8.7 | 8.7 |
| 77.5° | 4.9 | 4.5 | 4.3 | 4.1 | 4.1 | 4.1 | 4.0 | 3.8 | 3.8 | 3.8 | 3.6 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 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° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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: P843329

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBLWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 484.2 | 484.3 | 484.3 | 484.3 | 484.5 | 484.5 | 484.5 | 484.5 |
| 5° | 482.9 | 483.0 | 483.0 | 483.0 | 483.2 | 483.2 | 483.2 | 483.2 |
| 7.5° | 480.7 | 480.9 | 480.9 | 481.1 | 481.1 | 481.2 | 481.2 | 481.4 |
| 10° | 478.2 | 478.6 | 478.7 | 478.9 | 479.1 | 479.2 | 479.2 | 479.4 |
| 12.5° | 475.4 | 475.8 | 476.0 | 476.4 | 476.7 | 476.9 | 477.1 | 477.3 |
| 15° | 471.5 | 472.2 | 472.6 | 472.8 | 473.5 | 473.8 | 474.0 | 474.1 |
| 17.5° | 465.1 | 466.5 | 467.2 | 467.5 | 468.2 | 469.0 | 469.5 | 469.7 |
| 20° | 456.1 | 457.6 | 458.4 | 459.3 | 460.4 | 461.3 | 461.7 | 462.1 |
| 22.5° | 443.4 | 445.2 | 446.3 | 447.4 | 448.2 | 449.2 | 450.7 | 450.0 |
| 25° | 425.3 | 428.3 | 429.6 | 430.1 | 432.1 | 433.2 | 433.9 | 433.2 |
| 27.5° | 405.0 | 406.8 | 407.8 | 409.1 | 410.6 | 411.6 | 412.1 | 413.1 |
| 30° | 380.4 | 383.6 | 383.4 | 384.7 | 386.5 | 387.5 | 387.9 | 388.8 |
| 32.5° | 355.0 | 356.5 | 357.6 | 357.5 | 358.2 | 360.1 | 359.5 | 361.1 |
| 35° | 328.1 | 328.3 | 330.1 | 329.9 | 331.4 | 331.4 | 331.4 | 332.4 |
| 37.5° | 299.3 | 301.4 | 300.6 | 302.7 | 302.0 | 302.5 | 302.5 | 302.9 |
| 40° | 273.0 | 273.7 | 273.7 | 274.5 | 275.0 | 274.5 | 274.8 | 275.7 |
| 42.5° | 245.8 | 246.5 | 246.7 | 246.3 | 246.9 | 248.5 | 247.3 | 248.3 |
| 45° | 220.4 | 220.9 | 221.7 | 221.2 | 222.0 | 221.5 | 222.0 | 221.7 |
| 47.5° | 196.5 | 196.3 | 196.1 | 197.6 | 196.3 | 196.5 | 197.2 | 196.0 |
| 50° | 172.0 | 173.1 | 172.4 | 172.9 | 173.2 | 173.2 | 172.7 | 172.7 |
| 52.5° | 150.3 | 150.1 | 149.5 | 150.1 | 149.8 | 149.9 | 150.3 | 149.9 |
| 55° | 127.8 | 128.5 | 128.2 | 128.0 | 128.2 | 128.2 | 129.2 | 127.8 |
| 57.5° | 105.7 | 105.3 | 105.9 | 107.1 | 105.9 | 106.7 | 107.3 | 107.5 |
| 60° | 84.6 | 84.6 | 85.8 | 85.2 | 86.3 | 87.1 | 87.9 | 87.6 |
| 62.5° | 64.5 | 65.5 | 65.8 | 66.0 | 67.1 | 67.8 | 67.8 | 67.6 |
| 65° | 47.8 | 49.1 | 49.1 | 49.8 | 50.2 | 50.2 | 50.6 | 51.3 |
| 67.5° | 35.3 | 35.3 | 35.5 | 35.9 | 35.7 | 35.7 | 36.1 | 36.3 |
| 70° | 24.6 | 24.3 | 24.9 | 24.6 | 24.6 | 24.4 | 24.6 | 24.6 |
| 72.5° | 15.5 | 15.5 | 15.8 | 15.5 | 15.2 | 15.4 | 15.4 | 15.8 |
| 75° | 8.4 | 8.7 | 8.4 | 8.4 | 8.6 | 8.1 | 8.4 | 8.6 |
| 77.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.3 | 3.3 | 3.3 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 |
| 82.5° | 0.7 | 1.0 | 0.7 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)