

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: P843482

Luminaire Tested: **LD4C20DE010B50 EU4C20B50 4LBLWWH**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20DE010B50 EU4C20B50 4LBLWWH  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

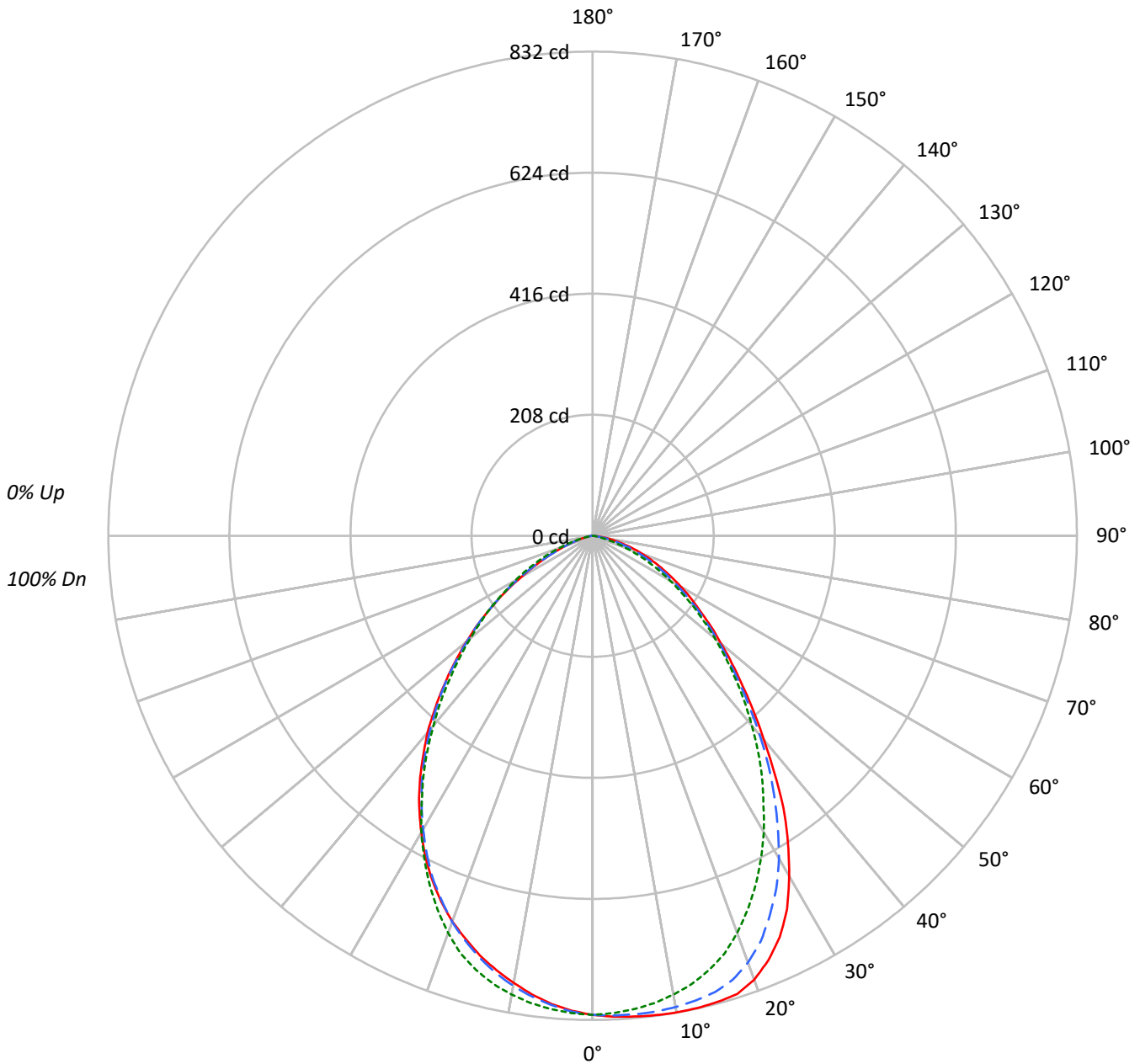
Lumens per Lamp: N/A  
Luminaire Lumens: 1551.6 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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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CATALOG NUMBER: LD4C20DE010B50 EU4C20B50 4LBLWWH

### Luminous Intensity Polar Plot





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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 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 77  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 82  | 71  | 63  | 57  | 80  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 46  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 40  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 101145 | 101145 | 101145 |
| 5°  | 102272 | 100705 | 99620  |
| 10° | 103766 | 99861  | 97329  |
| 15° | 105476 | 98265  | 95009  |
| 20° | 106133 | 94929  | 92196  |
| 25° | 103089 | 89791  | 88422  |
| 30° | 95812  | 83470  | 83512  |
| 35° | 85772  | 76068  | 77688  |
| 40° | 73419  | 68207  | 70693  |
| 45° | 63207  | 60132  | 62390  |
| 50° | 54968  | 52349  | 53936  |
| 55° | 48364  | 45044  | 44637  |
| 60° | 43023  | 37569  | 34620  |
| 65° | 37761  | 30087  | 25029  |
| 70° | 32400  | 21265  | 16954  |
| 75° | 26297  | 12341  | 9921   |
| 80° | 18748  | 5377   | 4952   |
| 85° | 7189   | 2255   | 2255   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.6   | 5.0       |
| 10°-20°   | 219.6  | 14.2      |
| 20°-30°   | 313.6  | 20.2      |
| 30°-40°   | 328.1  | 21.1      |
| 40°-50°   | 274.9  | 17.7      |
| 50°-60°   | 192.4  | 12.4      |
| 60°-70°   | 104.8  | 6.8       |
| 70°-80°   | 36.4   | 2.3       |
| 80°-90°   | 4.2    | 0.3       |
| 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°    | 610.9  | 39.4      |
| 0°-40°    | 938.9  | 60.5      |
| 0°-60°    | 1406.2 | 90.6      |
| 0°-90°    | 1551.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1551.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 823 | 823 | 823 | 823  | 823  |      |
| 5°  | 829 | 826 | 817 | 810  | 808  | 79   |
| 15° | 829 | 812 | 773 | 750  | 747  | 234  |
| 25° | 760 | 720 | 662 | 650  | 652  | 347  |
| 35° | 572 | 544 | 507 | 511  | 518  | 355  |
| 45° | 364 | 356 | 346 | 358  | 359  | 283  |
| 55° | 226 | 218 | 210 | 210  | 208  | 204  |
| 65° | 130 | 118 | 104 | 87   | 86   | 129  |
| 75° | 55  | 45  | 26  | 21   | 21   | 60   |
| 85° | 5   | 3   | 2   | 2    | 2    | 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°    | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 |
| 2.5°  | 827.1 | 826.1 | 826.4 | 826.4 | 826.4 | 826.1 | 826.4 | 826.1 | 826.1 | 825.8 | 825.2 |
| 5°    | 829.3 | 828.7 | 828.7 | 828.7 | 828.3 | 828.0 | 828.0 | 827.7 | 827.1 | 826.8 | 825.5 |
| 7.5°  | 830.9 | 830.2 | 830.2 | 829.9 | 829.6 | 829.3 | 829.0 | 828.0 | 827.1 | 826.4 | 824.8 |
| 10°   | 831.8 | 830.9 | 830.9 | 830.2 | 829.6 | 829.3 | 828.7 | 827.4 | 826.1 | 824.5 | 822.3 |
| 12.5° | 831.2 | 830.2 | 829.9 | 829.3 | 828.0 | 827.4 | 826.8 | 825.2 | 822.9 | 820.7 | 817.9 |
| 15°   | 829.3 | 828.7 | 828.0 | 827.1 | 825.5 | 824.5 | 823.9 | 821.4 | 818.5 | 815.3 | 811.8 |
| 17.5° | 825.5 | 824.5 | 823.3 | 822.0 | 819.8 | 818.8 | 817.2 | 814.1 | 810.0 | 805.6 | 800.2 |
| 20°   | 811.8 | 811.2 | 810.0 | 807.8 | 804.3 | 803.1 | 800.8 | 796.7 | 791.3 | 785.9 | 780.2 |
| 22.5° | 789.4 | 788.5 | 786.6 | 784.7 | 781.5 | 779.3 | 777.4 | 771.6 | 765.6 | 759.9 | 754.6 |
| 25°   | 760.5 | 759.6 | 757.2 | 754.6 | 751.4 | 747.6 | 745.7 | 741.3 | 735.3 | 728.0 | 720.0 |
| 27.5° | 723.5 | 720.4 | 719.4 | 716.5 | 711.8 | 710.5 | 707.7 | 702.1 | 696.3 | 690.0 | 683.3 |
| 30°   | 675.4 | 675.4 | 673.5 | 672.2 | 667.8 | 666.5 | 663.3 | 657.3 | 654.1 | 645.4 | 640.3 |
| 32.5° | 624.4 | 623.8 | 622.2 | 621.3 | 618.7 | 616.5 | 613.3 | 610.1 | 603.2 | 598.8 | 591.9 |
| 35°   | 571.9 | 568.1 | 568.7 | 566.8 | 565.2 | 562.7 | 562.3 | 558.9 | 552.5 | 550.0 | 543.7 |
| 37.5° | 512.0 | 510.4 | 512.6 | 509.8 | 508.2 | 508.5 | 506.0 | 503.8 | 501.2 | 496.9 | 495.6 |
| 40°   | 457.8 | 459.1 | 458.8 | 456.3 | 457.5 | 455.9 | 453.4 | 451.2 | 449.9 | 447.1 | 446.1 |
| 42.5° | 409.4 | 407.5 | 406.9 | 406.9 | 407.2 | 407.2 | 405.9 | 404.3 | 404.3 | 401.5 | 398.6 |
| 45°   | 363.8 | 363.8 | 363.2 | 365.1 | 362.2 | 362.2 | 361.3 | 361.0 | 359.7 | 359.1 | 355.6 |
| 47.5° | 324.6 | 324.3 | 324.0 | 323.6 | 323.3 | 323.3 | 321.4 | 319.8 | 319.5 | 317.6 | 315.7 |
| 50°   | 287.6 | 289.4 | 288.7 | 287.3 | 286.6 | 286.9 | 285.7 | 284.7 | 284.4 | 281.2 | 281.5 |
| 52.5° | 256.5 | 256.2 | 256.8 | 255.8 | 254.3 | 254.6 | 253.3 | 252.0 | 250.8 | 249.2 | 247.9 |
| 55°   | 225.8 | 227.4 | 226.8 | 225.8 | 225.5 | 224.9 | 223.9 | 222.3 | 222.0 | 218.5 | 218.2 |
| 57.5° | 200.1 | 199.8 | 199.2 | 197.6 | 197.2 | 196.3 | 196.3 | 195.0 | 193.1 | 191.2 | 189.6 |
| 60°   | 175.1 | 175.1 | 174.2 | 173.9 | 172.6 | 172.3 | 172.0 | 170.7 | 168.5 | 166.9 | 164.4 |
| 62.5° | 151.0 | 151.7 | 151.0 | 150.1 | 149.1 | 147.9 | 147.2 | 146.3 | 144.4 | 142.8 | 140.6 |
| 65°   | 129.9 | 129.6 | 129.2 | 128.0 | 127.7 | 126.4 | 126.1 | 124.2 | 122.3 | 121.0 | 118.5 |
| 67.5° | 109.6 | 108.6 | 108.6 | 108.0 | 107.3 | 106.4 | 105.8 | 103.9 | 101.6 | 100.4 | 97.8  |
| 70°   | 90.2  | 89.6  | 89.6  | 89.6  | 88.0  | 87.0  | 86.7  | 85.8  | 82.6  | 81.3  | 78.8  |
| 72.5° | 72.6  | 72.2  | 71.9  | 71.0  | 70.0  | 70.0  | 68.7  | 66.8  | 65.3  | 63.7  | 61.8  |
| 75°   | 55.4  | 56.1  | 55.4  | 54.2  | 53.8  | 53.2  | 52.2  | 50.7  | 49.1  | 47.2  | 44.9  |
| 77.5° | 40.5  | 39.9  | 39.2  | 39.2  | 38.6  | 37.3  | 37.0  | 35.7  | 33.8  | 32.6  | 30.4  |
| 80°   | 26.5  | 26.2  | 25.7  | 25.1  | 24.7  | 24.4  | 24.1  | 22.8  | 20.9  | 20.0  | 18.1  |
| 82.5° | 14.6  | 14.3  | 14.3  | 14.0  | 13.0  | 13.0  | 12.7  | 11.4  | 10.5  | 9.8   | 8.9   |
| 85°   | 5.1   | 5.1   | 5.1   | 4.8   | 4.8   | 4.8   | 4.4   | 4.1   | 3.8   | 3.5   | 2.9   |
| 87.5° | 0.6   | 0.3   | 0.6   | 0.3   | 0.6   | 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):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 |
| 2.5°  | 824.5 | 823.9 | 823.6 | 823.3 | 822.9 | 822.6 | 822.3 | 821.7 | 821.4 | 821.0 | 820.4 |
| 5°    | 824.5 | 823.3 | 822.6 | 821.7 | 821.0 | 820.4 | 819.5 | 818.5 | 817.6 | 816.6 | 815.6 |
| 7.5°  | 823.3 | 821.4 | 820.1 | 818.2 | 817.6 | 816.6 | 814.7 | 813.4 | 811.8 | 810.0 | 807.8 |
| 10°   | 820.1 | 817.9 | 815.3 | 812.8 | 811.8 | 810.4 | 807.8 | 805.6 | 803.1 | 800.5 | 798.3 |
| 12.5° | 815.0 | 811.5 | 808.5 | 805.0 | 803.1 | 801.5 | 798.0 | 794.8 | 791.6 | 788.8 | 785.0 |
| 15°   | 807.5 | 803.4 | 799.3 | 794.5 | 792.3 | 790.4 | 785.3 | 781.5 | 776.4 | 772.6 | 768.8 |
| 17.5° | 795.1 | 788.8 | 783.7 | 777.7 | 774.5 | 772.3 | 767.8 | 761.8 | 757.2 | 753.0 | 748.6 |
| 20°   | 773.9 | 767.8 | 760.9 | 754.3 | 750.8 | 748.0 | 741.6 | 735.3 | 730.5 | 726.1 | 721.3 |
| 22.5° | 746.1 | 738.4 | 733.4 | 725.1 | 722.3 | 718.8 | 711.2 | 705.5 | 700.2 | 695.7 | 691.3 |
| 25°   | 712.1 | 705.5 | 698.6 | 691.0 | 687.5 | 683.3 | 677.0 | 671.0 | 667.5 | 662.4 | 657.0 |
| 27.5° | 673.2 | 667.8 | 659.2 | 652.7 | 649.2 | 646.0 | 640.0 | 634.6 | 629.5 | 626.0 | 620.9 |
| 30°   | 632.0 | 625.7 | 618.1 | 611.1 | 609.2 | 605.4 | 600.1 | 596.0 | 590.6 | 588.4 | 586.1 |
| 32.5° | 586.8 | 579.5 | 573.8 | 569.3 | 565.5 | 562.3 | 559.5 | 552.8 | 551.9 | 546.3 | 545.6 |
| 35°   | 537.4 | 534.2 | 528.8 | 525.0 | 521.8 | 519.6 | 514.9 | 511.7 | 508.2 | 507.2 | 505.0 |
| 37.5° | 490.8 | 487.0 | 482.0 | 478.5 | 476.3 | 475.9 | 472.4 | 470.5 | 468.0 | 466.7 | 464.2 |
| 40°   | 442.1 | 440.5 | 436.1 | 435.4 | 431.9 | 431.6 | 429.7 | 427.5 | 425.3 | 425.3 | 425.6 |
| 42.5° | 397.0 | 395.1 | 393.2 | 391.1 | 389.2 | 389.2 | 388.3 | 387.6 | 387.0 | 386.0 | 387.6 |
| 45°   | 354.9 | 352.4 | 351.1 | 348.9 | 349.9 | 348.0 | 347.3 | 347.3 | 346.4 | 346.1 | 348.3 |
| 47.5° | 315.7 | 312.8 | 311.6 | 310.9 | 310.9 | 311.3 | 308.4 | 309.4 | 309.0 | 309.7 | 310.6 |
| 50°   | 280.0 | 277.4 | 275.5 | 275.5 | 275.8 | 274.6 | 273.3 | 274.2 | 273.3 | 273.9 | 276.1 |
| 52.5° | 246.6 | 244.1 | 243.1 | 243.1 | 241.2 | 240.9 | 241.6 | 240.3 | 240.6 | 240.9 | 242.2 |
| 55°   | 216.0 | 214.4 | 212.8 | 211.2 | 211.5 | 210.9 | 209.6 | 209.3 | 209.9 | 210.3 | 211.8 |
| 57.5° | 188.4 | 186.1 | 183.9 | 183.3 | 182.8 | 182.8 | 181.2 | 180.9 | 181.5 | 179.9 | 179.9 |
| 60°   | 162.1 | 160.9 | 158.0 | 157.1 | 157.1 | 155.5 | 154.2 | 154.8 | 153.3 | 152.9 | 153.3 |
| 62.5° | 137.7 | 136.8 | 134.8 | 132.9 | 132.3 | 131.7 | 130.2 | 129.6 | 128.9 | 127.7 | 125.8 |
| 65°   | 116.6 | 114.3 | 112.1 | 110.8 | 109.9 | 108.3 | 107.3 | 106.1 | 104.2 | 103.5 | 101.6 |
| 67.5° | 95.3  | 93.1  | 90.9  | 89.9  | 88.9  | 88.0  | 86.4  | 84.8  | 82.6  | 80.1  | 77.9  |
| 70°   | 76.7  | 73.8  | 72.6  | 70.0  | 69.4  | 68.1  | 65.9  | 64.3  | 62.1  | 59.2  | 57.0  |
| 72.5° | 58.6  | 56.7  | 54.8  | 52.6  | 51.0  | 50.0  | 48.1  | 45.6  | 43.0  | 41.5  | 39.2  |
| 75°   | 42.1  | 41.1  | 38.6  | 36.1  | 35.4  | 34.2  | 31.9  | 30.4  | 28.5  | 26.0  | 24.1  |
| 77.5° | 28.5  | 26.5  | 25.1  | 22.8  | 22.2  | 20.9  | 19.7  | 18.1  | 16.8  | 15.2  | 14.0  |
| 80°   | 16.8  | 15.2  | 14.3  | 12.7  | 12.1  | 11.4  | 10.5  | 9.2   | 8.2   | 7.6   | 7.3   |
| 82.5° | 8.2   | 7.0   | 6.7   | 5.7   | 5.4   | 5.1   | 4.4   | 4.1   | 3.5   | 3.5   | 3.5   |
| 85°   | 2.9   | 2.2   | 2.2   | 1.9   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 87.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 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°    | 823.3 | 823.3 | 823.3 | 823.3  | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 |
| 2.5°  | 820.1 | 819.8 | 819.5 | 819.1  | 819.1 | 818.8 | 818.8 | 818.5 | 818.5 | 818.2 | 818.2 |
| 5°    | 814.4 | 813.4 | 812.8 | 812.2  | 812.2 | 811.2 | 810.7 | 810.0 | 809.7 | 809.7 | 809.1 |
| 7.5°  | 806.6 | 805.3 | 804.0 | 803.1  | 802.7 | 801.2 | 799.9 | 799.9 | 798.6 | 798.0 | 797.4 |
| 10°   | 796.1 | 793.9 | 792.0 | 791.0  | 789.7 | 788.8 | 787.2 | 786.2 | 785.3 | 783.7 | 783.4 |
| 12.5° | 781.8 | 780.2 | 777.4 | 776.1  | 775.5 | 773.6 | 771.0 | 769.7 | 769.4 | 768.2 | 767.2 |
| 15°   | 765.6 | 762.1 | 759.6 | 758.1  | 758.1 | 754.9 | 753.7 | 751.8 | 750.5 | 749.5 | 749.2 |
| 17.5° | 744.8 | 741.3 | 738.8 | 736.5  | 735.9 | 733.4 | 731.5 | 730.8 | 729.2 | 729.9 | 728.3 |
| 20°   | 717.8 | 715.0 | 713.1 | 710.2  | 710.2 | 708.6 | 708.0 | 706.4 | 705.9 | 705.2 | 705.9 |
| 22.5° | 689.0 | 685.6 | 682.4 | 682.1  | 682.1 | 679.8 | 679.5 | 679.2 | 677.9 | 678.9 | 678.6 |
| 25°   | 655.1 | 652.7 | 650.8 | 650.4  | 650.4 | 649.2 | 647.9 | 648.5 | 649.5 | 649.2 | 650.1 |
| 27.5° | 620.0 | 617.4 | 616.8 | 616.5  | 615.9 | 615.5 | 616.2 | 616.2 | 617.1 | 618.4 | 619.7 |
| 30°   | 582.0 | 581.4 | 580.4 | 580.1  | 579.5 | 581.1 | 581.7 | 582.7 | 582.3 | 584.2 | 585.5 |
| 32.5° | 544.0 | 542.8 | 542.5 | 543.1  | 544.0 | 543.7 | 545.6 | 546.3 | 546.9 | 549.1 | 550.0 |
| 35°   | 505.7 | 505.3 | 504.7 | 504.7  | 505.0 | 507.6 | 507.6 | 509.8 | 511.0 | 511.7 | 514.2 |
| 37.5° | 464.5 | 465.8 | 466.4 | 467.4  | 467.7 | 468.6 | 469.3 | 471.5 | 472.8 | 474.0 | 475.3 |
| 40°   | 426.9 | 426.2 | 429.1 | 427.2  | 427.8 | 430.7 | 431.9 | 431.6 | 433.5 | 435.4 | 436.7 |
| 42.5° | 386.7 | 387.6 | 388.3 | 388.9  | 390.5 | 390.8 | 392.3 | 394.5 | 395.1 | 397.4 | 398.0 |
| 45°   | 347.6 | 348.0 | 349.2 | 350.5  | 351.5 | 354.0 | 354.6 | 355.6 | 357.5 | 357.5 | 358.4 |
| 47.5° | 310.9 | 312.2 | 312.2 | 314.1  | 315.7 | 315.4 | 317.6 | 318.2 | 317.9 | 319.5 | 320.1 |
| 50°   | 275.8 | 277.7 | 277.4 | 278.7  | 279.3 | 279.6 | 281.5 | 282.2 | 280.9 | 282.5 | 282.8 |
| 52.5° | 242.2 | 243.1 | 244.4 | 244.7  | 244.1 | 245.7 | 245.1 | 246.3 | 246.0 | 247.3 | 246.0 |
| 55°   | 211.5 | 211.2 | 211.2 | 211.8  | 211.2 | 211.8 | 212.5 | 211.2 | 210.3 | 211.5 | 211.2 |
| 57.5° | 180.9 | 180.9 | 180.2 | 181.2  | 180.2 | 179.3 | 179.0 | 178.0 | 177.0 | 177.0 | 176.7 |
| 60°   | 152.0 | 151.3 | 150.1 | 149.8  | 149.8 | 148.2 | 147.5 | 146.3 | 146.3 | 145.0 | 143.7 |
| 62.5° | 125.1 | 123.5 | 122.6 | 122.6  | 121.9 | 120.4 | 117.5 | 115.6 | 115.0 | 113.1 | 112.7 |
| 65°   | 99.7  | 98.1  | 97.2  | 95.3   | 93.7  | 93.1  | 90.2  | 88.0  | 87.0  | 85.1  | 85.5  |
| 67.5° | 76.7  | 74.1  | 71.3  | 70.0   | 69.1  | 66.8  | 65.9  | 64.3  | 63.4  | 63.4  | 63.4  |
| 70°   | 55.1  | 52.9  | 50.0  | 49.1   | 48.4  | 46.5  | 45.6  | 45.3  | 46.2  | 45.9  | 46.2  |
| 72.5° | 37.0  | 34.8  | 33.5  | 32.9   | 32.3  | 31.3  | 31.9  | 32.3  | 31.6  | 31.9  | 32.3  |
| 75°   | 22.5  | 21.9  | 20.9  | 20.6   | 20.6  | 20.9  | 20.6  | 20.6  | 20.9  | 20.9  | 21.3  |
| 77.5° | 13.0  | 12.4  | 12.4  | 12.1   | 12.7  | 12.4  | 12.4  | 12.4  | 12.7  | 12.7  | 12.7  |
| 80°   | 7.0   | 7.0   | 7.0   | 7.0    | 7.3   | 7.0   | 7.3   | 7.3   | 7.3   | 7.3   | 7.3   |
| 82.5° | 3.5   | 3.5   | 3.5   | 3.8    | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.5   |
| 85°   | 1.6   | 1.6   | 1.6   | 1.6    | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 87.5° | 0.3   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 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: P843482

CATALOG NUMBER: LD4C20DE010B50 EU4C20B50 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 823.3 | 823.3 | 823.3  | 823.3 | 823.3 | 823.3 | 823.3 | 823.3 |
| 2.5°  | 817.6 | 817.6 | 817.6  | 816.9 | 817.2 | 817.2 | 816.9 | 816.9 |
| 5°    | 808.8 | 808.5 | 807.8  | 807.8 | 807.2 | 807.8 | 807.5 | 807.8 |
| 7.5°  | 796.7 | 796.7 | 795.8  | 795.8 | 795.4 | 795.1 | 794.8 | 795.1 |
| 10°   | 782.4 | 782.4 | 781.8  | 781.5 | 781.8 | 780.5 | 780.5 | 780.2 |
| 12.5° | 766.6 | 765.9 | 765.3  | 765.6 | 765.3 | 764.4 | 764.0 | 764.4 |
| 15°   | 748.3 | 747.3 | 747.6  | 746.7 | 746.7 | 746.4 | 747.0 | 747.0 |
| 17.5° | 728.0 | 727.3 | 726.7  | 727.0 | 726.4 | 726.7 | 726.4 | 726.1 |
| 20°   | 705.5 | 705.2 | 705.2  | 704.0 | 704.3 | 704.0 | 704.3 | 705.2 |
| 22.5° | 679.5 | 679.2 | 679.5  | 678.6 | 679.2 | 679.2 | 680.2 | 680.2 |
| 25°   | 651.1 | 650.8 | 651.4  | 651.7 | 652.0 | 653.0 | 652.0 | 652.3 |
| 27.5° | 619.4 | 620.3 | 621.3  | 621.6 | 622.8 | 621.9 | 621.3 | 622.2 |
| 30°   | 587.4 | 587.4 | 587.1  | 588.4 | 589.3 | 590.3 | 588.7 | 588.7 |
| 32.5° | 550.6 | 552.2 | 552.2  | 552.5 | 553.5 | 553.5 | 553.5 | 554.7 |
| 35°   | 515.5 | 516.4 | 516.8  | 515.5 | 516.1 | 515.8 | 518.0 | 518.0 |
| 37.5° | 476.3 | 476.3 | 476.6  | 478.8 | 478.8 | 477.8 | 478.5 | 478.5 |
| 40°   | 438.9 | 439.2 | 438.0  | 438.6 | 440.2 | 439.6 | 440.2 | 440.8 |
| 42.5° | 398.0 | 400.2 | 398.9  | 399.6 | 399.3 | 399.6 | 399.9 | 399.9 |
| 45°   | 359.1 | 359.7 | 359.7  | 360.0 | 360.7 | 361.3 | 359.4 | 359.1 |
| 47.5° | 321.1 | 321.4 | 322.4  | 320.8 | 322.7 | 320.8 | 322.7 | 320.5 |
| 50°   | 282.8 | 284.1 | 283.1  | 283.8 | 282.8 | 282.8 | 282.5 | 282.2 |
| 52.5° | 246.3 | 246.0 | 246.0  | 245.7 | 245.7 | 246.3 | 245.7 | 246.6 |
| 55°   | 209.9 | 210.3 | 209.6  | 209.3 | 209.0 | 209.9 | 209.0 | 208.4 |
| 57.5° | 175.5 | 176.1 | 174.8  | 175.5 | 173.2 | 174.2 | 174.5 | 174.8 |
| 60°   | 143.4 | 142.5 | 142.5  | 141.2 | 141.2 | 142.1 | 140.9 | 140.9 |
| 62.5° | 111.2 | 111.8 | 110.8  | 112.1 | 112.1 | 113.4 | 112.7 | 113.4 |
| 65°   | 85.1  | 85.5  | 85.8   | 85.8  | 85.8  | 87.7  | 87.0  | 86.1  |
| 67.5° | 64.3  | 64.6  | 64.9   | 64.6  | 65.6  | 64.9  | 64.9  | 65.3  |
| 70°   | 46.5  | 46.9  | 47.2   | 47.2  | 46.9  | 47.2  | 47.2  | 47.2  |
| 72.5° | 32.3  | 32.6  | 32.3   | 32.6  | 32.9  | 32.6  | 32.6  | 32.9  |
| 75°   | 21.3  | 21.3  | 20.9   | 20.9  | 20.9  | 20.9  | 21.3  | 20.9  |
| 77.5° | 12.4  | 12.7  | 12.4   | 12.7  | 12.7  | 12.7  | 12.7  | 12.7  |
| 80°   | 7.3   | 7.3   | 7.3    | 7.0   | 7.3   | 7.3   | 7.3   | 7.0   |
| 82.5° | 3.8   | 3.8   | 3.5    | 3.5   | 3.8   | 3.8   | 3.8   | 3.8   |
| 85°   | 1.6   | 1.6   | 1.6    | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 87.5° | 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   |



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)