

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: P843419

Luminaire Tested: **LD4C15DE010B2750 EU4C15B50 4LBSWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251556)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15DE010B2750 EU4C15B50 4LBSWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

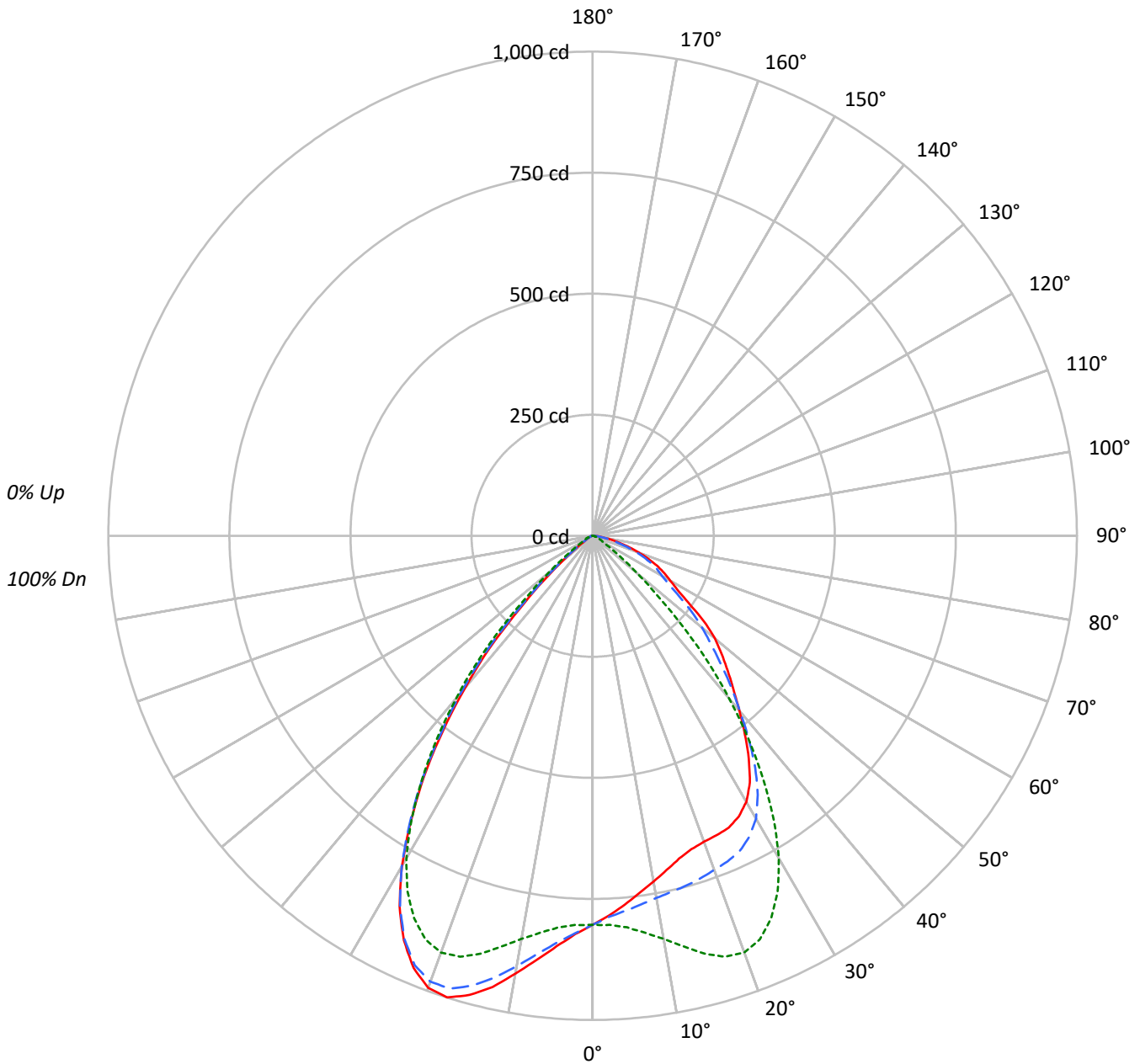
Lumens per Lamp: N/A
Luminaire Lumens: 1482.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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

TEST NUMBER: P843419

CATALOG NUMBER: LD4C15DE010B2750 EU4C15B50 4LBSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P843419

CATALOG NUMBER: LD4C15DE010B2750 EU4C15B50 4LBSWLI

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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 85 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 4 | 91 | 81 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | | | | | | | | | | | | | | | |
| 7 | 75 | 63 | 56 | 51 | 73 | 62 | 55 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 | | | | | | | | | | | | | | | | | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 39 | 37 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|--------|
| 0° | 98725 | 98725 | 98725 |
| 5° | 94305 | 100126 | 104923 |
| 10° | 90418 | 105475 | 114507 |
| 15° | 87785 | 113667 | 124885 |
| 20° | 87908 | 119730 | 129875 |
| 25° | 90143 | 118162 | 124981 |
| 30° | 90024 | 109075 | 111615 |
| 35° | 84317 | 92190 | 90931 |
| 40° | 75536 | 70324 | 65609 |
| 45° | 68523 | 44651 | 36625 |
| 50° | 62938 | 22668 | 15653 |
| 55° | 51662 | 10110 | 5162 |
| 60° | 45382 | 5676 | 2826 |
| 65° | 42674 | 4273 | 2151 |
| 70° | 36531 | 3376 | 1904 |
| 75° | 27863 | 2516 | 1519 |
| 80° | 20022 | 1486 | 778 |
| 85° | 14801 | 0 | 0 |



TEST NUMBER: P843419

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.1 | 5.3 |
| 10°-20° | 243.3 | 16.4 |
| 20°-30° | 376.4 | 25.4 |
| 30°-40° | 370.8 | 25.0 |
| 40°-50° | 227.7 | 15.4 |
| 50°-60° | 101.2 | 6.8 |
| 60°-70° | 56.5 | 3.8 |
| 70°-80° | 24.5 | 1.7 |
| 80°-90° | 4.4 | 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° | 697.7 | 47.0 |
| 0°-40° | 1068.5 | 72.1 |
| 0°-60° | 1397.4 | 94.2 |
| 0°-90° | 1482.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1482.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 804 | 804 | 804 | 804 | 804 | |
| 5° | 765 | 777 | 812 | 843 | 851 | 72 |
| 15° | 690 | 748 | 894 | 962 | 982 | 196 |
| 25° | 665 | 719 | 872 | 919 | 922 | 305 |
| 35° | 562 | 585 | 615 | 613 | 606 | 349 |
| 45° | 394 | 374 | 257 | 224 | 211 | 305 |
| 55° | 241 | 218 | 47 | 27 | 24 | 222 |
| 65° | 147 | 132 | 15 | 8 | 7 | 144 |
| 75° | 59 | 50 | 5 | 3 | 3 | 65 |
| 85° | 10 | 8 | 0 | 0 | 0 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843419

CATALOG NUMBER: LD4C15DE010B2750 EU4C15B50 4LBSWLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 |
| 2.5° | 784.7 | 784.7 | 784.7 | 784.7 | 786.8 | 783.6 | 786.8 | 786.8 | 789.9 | 790.9 | 787.8 |
| 5° | 764.7 | 763.7 | 764.7 | 764.7 | 766.8 | 765.7 | 768.9 | 771.0 | 775.2 | 777.4 | 777.4 |
| 7.5° | 743.7 | 743.7 | 743.7 | 745.8 | 748.9 | 748.0 | 751.0 | 754.2 | 760.5 | 764.7 | 767.8 |
| 10° | 724.8 | 723.8 | 726.9 | 728.0 | 731.1 | 731.1 | 736.4 | 739.5 | 746.9 | 755.3 | 759.5 |
| 12.5° | 707.0 | 706.0 | 708.1 | 711.3 | 716.4 | 716.4 | 720.7 | 725.9 | 736.4 | 745.8 | 753.1 |
| 15° | 690.2 | 691.3 | 694.4 | 696.6 | 702.8 | 702.8 | 708.1 | 714.3 | 725.9 | 737.5 | 748.0 |
| 17.5° | 678.7 | 679.7 | 681.9 | 684.9 | 691.3 | 691.3 | 696.6 | 703.9 | 716.4 | 729.0 | 741.6 |
| 20° | 672.4 | 673.5 | 675.5 | 678.7 | 684.0 | 684.9 | 689.2 | 697.6 | 709.1 | 722.8 | 734.3 |
| 22.5° | 669.3 | 671.4 | 673.5 | 675.5 | 680.8 | 680.8 | 686.1 | 692.3 | 703.9 | 717.5 | 728.0 |
| 25° | 665.0 | 667.2 | 668.2 | 671.4 | 675.5 | 675.5 | 678.7 | 686.1 | 696.6 | 708.1 | 718.6 |
| 27.5° | 653.5 | 655.6 | 656.7 | 659.9 | 664.0 | 662.9 | 667.2 | 672.4 | 681.9 | 692.3 | 700.7 |
| 30° | 634.6 | 635.7 | 637.8 | 638.8 | 642.0 | 642.0 | 645.2 | 650.3 | 656.7 | 666.1 | 674.5 |
| 32.5° | 604.2 | 606.3 | 607.4 | 608.5 | 611.5 | 610.5 | 611.5 | 614.7 | 620.9 | 629.4 | 634.6 |
| 35° | 562.2 | 566.5 | 566.5 | 568.6 | 569.6 | 568.6 | 568.6 | 572.7 | 575.9 | 582.2 | 585.4 |
| 37.5° | 516.1 | 519.3 | 518.2 | 520.3 | 521.4 | 518.2 | 520.3 | 521.4 | 525.5 | 528.7 | 529.8 |
| 40° | 471.0 | 472.0 | 472.0 | 472.0 | 472.0 | 471.0 | 472.0 | 473.1 | 476.3 | 476.3 | 473.1 |
| 42.5° | 430.0 | 431.2 | 431.2 | 429.0 | 431.2 | 430.0 | 430.0 | 430.0 | 430.0 | 425.9 | 422.7 |
| 45° | 394.4 | 395.4 | 395.4 | 394.4 | 394.4 | 392.3 | 391.3 | 390.3 | 387.1 | 381.8 | 374.5 |
| 47.5° | 360.9 | 363.0 | 364.0 | 361.9 | 360.9 | 358.7 | 358.7 | 352.4 | 348.3 | 341.9 | 331.5 |
| 50° | 329.3 | 331.5 | 331.5 | 329.3 | 329.3 | 326.3 | 323.1 | 321.0 | 314.6 | 307.3 | 294.8 |
| 52.5° | 289.6 | 292.6 | 292.6 | 291.6 | 291.6 | 287.5 | 286.4 | 282.2 | 276.9 | 268.5 | 258.1 |
| 55° | 241.2 | 245.5 | 244.4 | 243.4 | 241.2 | 241.2 | 241.2 | 238.1 | 235.0 | 228.7 | 218.2 |
| 57.5° | 206.7 | 207.7 | 207.7 | 206.7 | 206.7 | 204.5 | 204.5 | 201.4 | 200.3 | 194.1 | 185.7 |
| 60° | 184.7 | 184.7 | 185.7 | 184.7 | 183.6 | 182.5 | 181.5 | 179.4 | 176.2 | 172.1 | 165.7 |
| 62.5° | 166.8 | 167.8 | 167.8 | 166.8 | 165.7 | 164.7 | 163.6 | 161.6 | 159.5 | 156.3 | 150.0 |
| 65° | 146.8 | 148.9 | 147.9 | 146.8 | 145.8 | 144.8 | 144.8 | 142.7 | 140.6 | 138.4 | 132.2 |
| 67.5° | 124.8 | 125.9 | 126.9 | 124.8 | 124.8 | 123.7 | 123.7 | 121.7 | 120.6 | 116.4 | 112.2 |
| 70° | 101.7 | 102.8 | 102.8 | 101.7 | 101.7 | 100.7 | 100.7 | 99.6 | 98.6 | 95.5 | 91.3 |
| 72.5° | 79.7 | 80.8 | 79.7 | 78.7 | 78.7 | 78.7 | 77.6 | 76.6 | 75.5 | 73.4 | 70.2 |
| 75° | 58.7 | 58.7 | 59.8 | 58.7 | 57.7 | 57.7 | 56.6 | 56.6 | 54.6 | 53.5 | 50.3 |
| 77.5° | 42.0 | 42.9 | 42.0 | 42.0 | 40.9 | 39.9 | 39.9 | 38.8 | 38.8 | 37.8 | 35.6 |
| 80° | 28.3 | 28.3 | 29.4 | 28.3 | 27.3 | 28.3 | 27.3 | 26.2 | 26.2 | 25.2 | 23.1 |
| 82.5° | 17.9 | 18.8 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 16.8 | 16.8 | 15.8 | 14.7 |
| 85° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 9.4 | 9.4 | 9.4 | 8.4 |
| 87.5° | 5.3 | 5.3 | 4.2 | 4.2 | 5.3 | 5.3 | 5.3 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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° | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 |
| 2.5° | 792.0 | 793.0 | 795.1 | 798.3 | 798.3 | 796.2 | 801.5 | 801.5 | 803.6 | 804.5 | 808.8 |
| 5° | 783.6 | 785.7 | 789.9 | 795.1 | 796.2 | 795.1 | 802.4 | 805.6 | 808.8 | 811.9 | 818.2 |
| 7.5° | 776.3 | 780.4 | 787.8 | 795.1 | 798.3 | 798.3 | 809.8 | 814.1 | 820.3 | 826.6 | 833.9 |
| 10° | 772.1 | 778.3 | 788.8 | 800.4 | 803.6 | 806.7 | 820.3 | 828.7 | 837.1 | 845.5 | 855.9 |
| 12.5° | 766.8 | 778.3 | 792.0 | 806.7 | 813.0 | 817.1 | 836.1 | 846.5 | 858.1 | 868.5 | 882.2 |
| 15° | 765.7 | 779.4 | 797.2 | 816.1 | 824.5 | 830.8 | 851.8 | 866.4 | 880.1 | 893.7 | 907.3 |
| 17.5° | 761.6 | 778.3 | 800.4 | 821.4 | 831.8 | 840.3 | 864.4 | 882.2 | 897.9 | 911.6 | 927.3 |
| 20° | 756.3 | 775.2 | 799.4 | 822.4 | 833.9 | 842.3 | 868.5 | 885.3 | 903.1 | 915.8 | 930.4 |
| 22.5° | 748.9 | 767.8 | 792.0 | 815.0 | 825.6 | 832.9 | 859.1 | 873.8 | 889.6 | 902.2 | 915.8 |
| 25° | 736.4 | 754.2 | 775.2 | 794.1 | 804.5 | 810.9 | 833.9 | 847.6 | 859.1 | 871.7 | 884.3 |
| 27.5° | 718.6 | 732.2 | 750.1 | 763.7 | 770.0 | 776.3 | 795.1 | 806.7 | 817.1 | 827.7 | 836.1 |
| 30° | 687.0 | 697.6 | 710.2 | 721.7 | 728.0 | 729.0 | 746.9 | 753.1 | 761.6 | 768.9 | 775.2 |
| 32.5° | 645.2 | 653.5 | 660.8 | 667.2 | 671.4 | 672.4 | 686.1 | 688.1 | 696.6 | 696.6 | 706.0 |
| 35° | 591.6 | 595.9 | 601.1 | 601.1 | 604.2 | 601.1 | 610.5 | 612.6 | 613.6 | 614.7 | 622.1 |
| 37.5° | 530.8 | 532.8 | 536.0 | 529.8 | 529.8 | 526.6 | 529.8 | 531.9 | 527.7 | 527.7 | 532.8 |
| 40° | 473.1 | 468.8 | 464.7 | 458.4 | 455.3 | 449.0 | 449.0 | 443.7 | 440.6 | 438.5 | 439.6 |
| 42.5° | 417.6 | 408.0 | 398.6 | 385.0 | 378.6 | 372.4 | 366.0 | 358.7 | 356.6 | 351.5 | 348.3 |
| 45° | 364.0 | 350.4 | 337.8 | 315.7 | 303.2 | 296.9 | 283.2 | 268.5 | 259.1 | 257.0 | 248.6 |
| 47.5° | 318.9 | 299.0 | 277.9 | 251.7 | 239.2 | 227.6 | 207.7 | 195.1 | 182.5 | 176.2 | 170.9 |
| 50° | 279.0 | 261.2 | 233.9 | 205.6 | 189.8 | 178.3 | 156.3 | 141.6 | 128.0 | 118.6 | 112.2 |
| 52.5° | 244.4 | 224.4 | 199.4 | 166.8 | 151.0 | 138.4 | 114.3 | 97.5 | 86.0 | 76.6 | 69.3 |
| 55° | 205.6 | 189.8 | 164.7 | 134.2 | 118.6 | 103.9 | 82.8 | 65.0 | 53.5 | 47.2 | 42.0 |
| 57.5° | 177.3 | 163.6 | 139.5 | 110.1 | 95.5 | 81.9 | 60.8 | 46.1 | 36.7 | 30.5 | 27.3 |
| 60° | 158.4 | 145.8 | 124.8 | 96.5 | 82.8 | 70.2 | 50.3 | 36.7 | 28.3 | 23.1 | 20.9 |
| 62.5° | 142.7 | 130.1 | 111.2 | 84.9 | 73.4 | 60.8 | 42.9 | 30.5 | 23.1 | 18.8 | 15.8 |
| 65° | 124.8 | 113.3 | 96.5 | 73.4 | 62.9 | 52.5 | 36.7 | 25.2 | 18.8 | 14.7 | 12.6 |
| 67.5° | 106.0 | 95.5 | 80.8 | 60.8 | 52.5 | 44.1 | 29.4 | 20.9 | 15.8 | 12.6 | 10.5 |
| 70° | 86.0 | 77.6 | 64.0 | 49.3 | 42.0 | 34.6 | 24.1 | 16.8 | 11.5 | 9.4 | 8.4 |
| 72.5° | 66.1 | 58.7 | 49.3 | 37.8 | 31.5 | 26.2 | 17.9 | 12.6 | 9.4 | 7.4 | 6.2 |
| 75° | 47.2 | 42.0 | 34.6 | 27.3 | 23.1 | 18.8 | 13.6 | 9.4 | 6.2 | 5.3 | 4.2 |
| 77.5° | 32.5 | 29.4 | 24.1 | 18.8 | 15.8 | 13.6 | 9.4 | 6.2 | 5.3 | 4.2 | 3.2 |
| 80° | 20.9 | 18.8 | 15.8 | 11.5 | 9.4 | 8.4 | 5.3 | 4.2 | 3.2 | 2.1 | 2.1 |
| 82.5° | 12.6 | 11.5 | 9.4 | 6.2 | 5.3 | 4.2 | 3.2 | 2.1 | 2.1 | 1.1 | 1.1 |
| 85° | 7.4 | 6.2 | 4.2 | 3.2 | 3.2 | 2.1 | 2.1 | 1.1 | 1.1 | 0.0 | 0.0 |
| 87.5° | 3.2 | 2.1 | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 | 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 |
| 2.5° | 806.7 | 811.9 | 810.9 | 814.1 | 813.0 | 813.0 | 818.2 | 816.1 | 821.4 | 821.4 | 822.4 |
| 5° | 818.2 | 825.6 | 825.6 | 830.8 | 829.7 | 831.8 | 837.1 | 837.1 | 843.4 | 845.5 | 845.5 |
| 7.5° | 835.0 | 844.4 | 846.5 | 851.8 | 852.8 | 857.0 | 861.2 | 862.3 | 870.6 | 872.8 | 873.8 |
| 10° | 858.1 | 869.6 | 872.8 | 878.0 | 880.1 | 884.3 | 889.6 | 891.7 | 902.2 | 903.1 | 907.3 |
| 12.5° | 886.4 | 899.0 | 902.2 | 908.4 | 909.5 | 914.7 | 922.0 | 924.2 | 934.6 | 937.8 | 941.0 |
| 15° | 913.7 | 925.2 | 930.4 | 936.7 | 937.8 | 944.0 | 950.4 | 952.5 | 961.9 | 966.1 | 969.3 |
| 17.5° | 932.5 | 946.2 | 949.3 | 957.7 | 957.7 | 963.0 | 969.3 | 971.3 | 980.7 | 983.9 | 986.0 |
| 20° | 936.7 | 949.3 | 953.6 | 959.8 | 960.9 | 964.0 | 969.3 | 971.3 | 979.8 | 980.7 | 983.9 |
| 22.5° | 921.0 | 933.6 | 935.7 | 942.0 | 943.0 | 946.2 | 950.4 | 949.3 | 959.8 | 958.7 | 959.8 |
| 25° | 887.5 | 899.0 | 899.0 | 906.3 | 905.3 | 908.4 | 910.5 | 909.5 | 918.9 | 918.9 | 918.9 |
| 27.5° | 839.1 | 849.7 | 850.8 | 855.9 | 852.8 | 853.9 | 855.9 | 854.9 | 861.2 | 861.2 | 861.2 |
| 30° | 779.4 | 787.8 | 784.7 | 788.8 | 786.8 | 788.8 | 786.8 | 785.7 | 787.8 | 789.9 | 788.8 |
| 32.5° | 704.9 | 711.3 | 711.3 | 712.2 | 712.2 | 706.0 | 703.9 | 703.9 | 702.8 | 701.7 | 701.7 |
| 35° | 618.9 | 624.1 | 622.1 | 622.1 | 620.9 | 614.7 | 611.5 | 609.5 | 612.6 | 606.3 | 610.5 |
| 37.5° | 530.8 | 531.9 | 528.7 | 527.7 | 522.4 | 522.4 | 517.2 | 513.0 | 515.1 | 514.0 | 509.8 |
| 40° | 434.3 | 438.5 | 432.1 | 430.0 | 433.2 | 429.0 | 423.8 | 418.5 | 422.7 | 417.6 | 419.6 |
| 42.5° | 339.9 | 338.8 | 336.8 | 336.8 | 336.8 | 330.4 | 329.3 | 328.3 | 329.3 | 325.2 | 322.0 |
| 45° | 245.5 | 242.3 | 239.2 | 239.2 | 235.0 | 232.9 | 232.9 | 229.7 | 224.4 | 224.4 | 218.2 |
| 47.5° | 165.7 | 158.4 | 156.3 | 155.3 | 153.1 | 153.1 | 151.0 | 148.9 | 147.9 | 142.7 | 142.7 |
| 50° | 108.1 | 100.7 | 98.6 | 97.5 | 98.6 | 96.5 | 94.4 | 92.3 | 90.2 | 89.2 | 87.0 |
| 52.5° | 65.0 | 61.9 | 59.8 | 58.7 | 56.6 | 55.6 | 54.6 | 52.5 | 51.4 | 51.4 | 50.3 |
| 55° | 38.8 | 35.6 | 31.5 | 31.5 | 31.5 | 30.5 | 29.4 | 28.3 | 27.3 | 27.3 | 26.2 |
| 57.5° | 24.1 | 22.0 | 19.9 | 18.8 | 18.8 | 18.8 | 17.9 | 17.9 | 17.9 | 17.9 | 16.8 |
| 60° | 17.9 | 15.8 | 14.7 | 14.7 | 14.7 | 13.6 | 13.6 | 13.6 | 13.6 | 12.6 | 12.6 |
| 62.5° | 13.6 | 12.6 | 11.5 | 11.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 9.4 |
| 65° | 11.5 | 9.4 | 9.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 67.5° | 8.4 | 7.4 | 7.4 | 7.4 | 7.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 70° | 6.2 | 6.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 72.5° | 5.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 75° | 4.2 | 4.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 77.5° | 3.2 | 3.2 | 3.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |



TEST NUMBER: P843419

CATALOG NUMBER: LD4C15DE010B2750 EU4C15B50 4LBSWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 | 803.6 |
| 2.5° | 822.4 | 827.7 | 822.4 | 822.4 | 825.6 | 824.5 | 826.6 | 823.5 |
| 5° | 846.5 | 853.9 | 848.6 | 847.6 | 852.8 | 851.8 | 852.8 | 850.8 |
| 7.5° | 875.9 | 883.2 | 878.0 | 878.0 | 883.2 | 882.2 | 885.3 | 883.2 |
| 10° | 909.5 | 917.9 | 910.5 | 911.6 | 918.9 | 917.9 | 917.9 | 917.9 |
| 12.5° | 944.0 | 952.5 | 948.3 | 948.3 | 953.6 | 954.6 | 955.7 | 954.6 |
| 15° | 972.4 | 980.7 | 975.6 | 975.6 | 982.9 | 981.9 | 982.9 | 981.9 |
| 17.5° | 989.2 | 997.6 | 991.3 | 991.3 | 997.6 | 997.6 | 998.6 | 999.7 |
| 20° | 985.0 | 994.4 | 989.2 | 987.1 | 994.4 | 994.4 | 993.4 | 993.4 |
| 22.5° | 960.9 | 969.3 | 965.1 | 963.0 | 968.3 | 966.1 | 965.1 | 966.1 |
| 25° | 918.9 | 927.3 | 918.9 | 918.9 | 923.1 | 922.0 | 923.1 | 922.0 |
| 27.5° | 862.3 | 868.5 | 860.2 | 859.1 | 863.3 | 861.2 | 860.2 | 863.3 |
| 30° | 786.8 | 793.0 | 788.8 | 785.7 | 790.9 | 787.8 | 785.7 | 786.8 |
| 32.5° | 700.7 | 704.9 | 702.8 | 697.6 | 700.7 | 698.6 | 697.6 | 698.6 |
| 35° | 606.3 | 611.5 | 603.2 | 602.1 | 607.4 | 603.2 | 601.1 | 606.3 |
| 37.5° | 508.7 | 515.1 | 507.8 | 508.7 | 505.7 | 506.6 | 504.6 | 507.8 |
| 40° | 416.4 | 415.4 | 413.3 | 412.3 | 413.3 | 410.2 | 412.3 | 409.1 |
| 42.5° | 316.8 | 318.9 | 317.8 | 316.8 | 317.8 | 313.7 | 311.6 | 315.7 |
| 45° | 220.3 | 219.2 | 217.1 | 215.0 | 215.0 | 214.0 | 214.0 | 210.8 |
| 47.5° | 141.6 | 140.6 | 136.3 | 137.4 | 139.5 | 137.4 | 134.2 | 138.4 |
| 50° | 86.0 | 84.9 | 84.9 | 83.9 | 86.0 | 83.9 | 81.9 | 81.9 |
| 52.5° | 48.2 | 48.2 | 47.2 | 47.2 | 47.2 | 47.2 | 46.1 | 45.2 |
| 55° | 26.2 | 25.2 | 25.2 | 25.2 | 24.1 | 24.1 | 24.1 | 24.1 |
| 57.5° | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 15.8 | 15.8 |
| 60° | 12.6 | 12.6 | 12.6 | 12.6 | 11.5 | 12.6 | 11.5 | 11.5 |
| 62.5° | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| 65° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 67.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 70° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 72.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 75° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 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 |



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)