

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: P843455

Luminaire Tested: **LD4C20DE010B35 EU4C20B35 4LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843455
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: LD4C20DE010B35 EU4C20B35 4LBLWWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

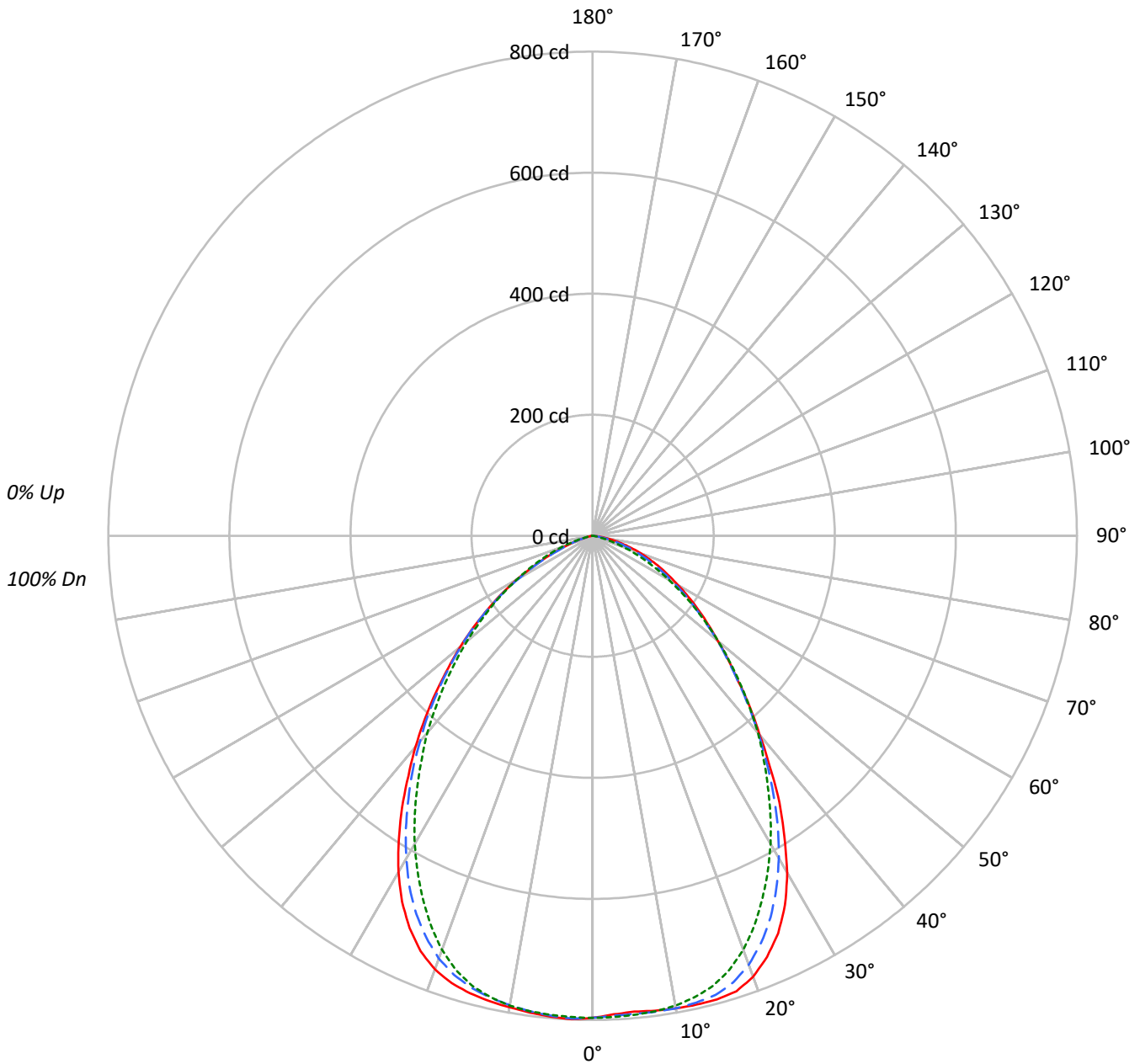
Lumens per Lamp: N/A
Luminaire Lumens: 1527.2 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P843455

CATALOG NUMBER: LD4C20DE010B35 EU4C20B35 4LBLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P843455

CATALOG NUMBER: LD4C20DE010B35 EU4C20B35 4LBLWWLI

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° | 97865 | 97865 | 97865 |
| 5° | 97314 | 97980 | 98350 |
| 10° | 98926 | 98339 | 98701 |
| 15° | 100860 | 97883 | 99524 |
| 20° | 101374 | 95151 | 99675 |
| 25° | 98249 | 89859 | 96921 |
| 30° | 91187 | 83385 | 91031 |
| 35° | 80747 | 75648 | 82277 |
| 40° | 68848 | 68111 | 72970 |
| 45° | 59159 | 59819 | 63554 |
| 50° | 51623 | 51757 | 54471 |
| 55° | 45622 | 43694 | 45172 |
| 60° | 40001 | 35652 | 35505 |
| 65° | 35378 | 27645 | 24593 |
| 70° | 30209 | 19038 | 14619 |
| 75° | 24398 | 10253 | 6693 |
| 80° | 16697 | 2547 | 1698 |
| 85° | 5075 | 846 | 846 |



TEST NUMBER: P843455

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.7 | 5.0 |
| 10°-20° | 219.2 | 14.4 |
| 20°-30° | 316.7 | 20.7 |
| 30°-40° | 327.4 | 21.4 |
| 40°-50° | 270.5 | 17.7 |
| 50°-60° | 186.7 | 12.2 |
| 60°-70° | 97.7 | 6.4 |
| 70°-80° | 30.8 | 2.0 |
| 80°-90° | 2.6 | 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° | 611.5 | 40.0 |
| 0°-40° | 938.9 | 61.5 |
| 0°-60° | 1396.1 | 91.4 |
| 0°-90° | 1527.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1527.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 797 | 797 | 797 | 797 | 797 | |
| 5° | 789 | 793 | 794 | 796 | 798 | 76 |
| 15° | 793 | 786 | 770 | 773 | 782 | 224 |
| 25° | 725 | 696 | 663 | 690 | 715 | 331 |
| 35° | 538 | 520 | 504 | 531 | 549 | 334 |
| 45° | 340 | 339 | 344 | 360 | 366 | 265 |
| 55° | 213 | 206 | 204 | 210 | 211 | 191 |
| 65° | 122 | 110 | 95 | 79 | 85 | 121 |
| 75° | 51 | 40 | 22 | 15 | 14 | 55 |
| 85° | 4 | 2 | 1 | 1 | 1 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843455

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 |
| 2.5° | 791.5 | 791.9 | 791.9 | 792.4 | 792.4 | 792.4 | 792.7 | 792.7 | 793.0 | 793.3 | 793.6 |
| 5° | 789.1 | 789.1 | 789.7 | 790.1 | 790.6 | 790.9 | 791.5 | 791.9 | 792.4 | 792.7 | 793.0 |
| 7.5° | 791.5 | 791.5 | 791.9 | 792.1 | 792.1 | 792.4 | 792.4 | 792.7 | 793.0 | 793.3 | 793.3 |
| 10° | 793.0 | 793.0 | 793.0 | 793.0 | 793.3 | 793.3 | 793.3 | 793.0 | 793.0 | 793.0 | 792.7 |
| 12.5° | 793.6 | 793.6 | 793.3 | 793.0 | 793.3 | 793.0 | 793.0 | 792.1 | 791.5 | 790.9 | 790.1 |
| 15° | 793.0 | 793.0 | 792.7 | 792.4 | 792.1 | 791.5 | 791.2 | 789.7 | 788.6 | 786.8 | 785.5 |
| 17.5° | 789.1 | 788.6 | 787.9 | 787.3 | 786.1 | 785.2 | 784.7 | 781.9 | 779.8 | 776.8 | 773.6 |
| 20° | 775.4 | 774.7 | 773.9 | 772.4 | 770.9 | 769.6 | 767.8 | 764.0 | 761.9 | 757.4 | 754.1 |
| 22.5° | 752.9 | 752.3 | 752.6 | 750.0 | 746.9 | 745.1 | 743.9 | 740.7 | 737.1 | 731.4 | 727.8 |
| 25° | 724.8 | 723.0 | 723.0 | 718.9 | 717.3 | 716.1 | 714.6 | 710.7 | 705.3 | 700.3 | 695.5 |
| 27.5° | 688.3 | 685.9 | 684.7 | 684.1 | 680.5 | 677.8 | 675.7 | 672.8 | 668.3 | 663.8 | 657.2 |
| 30° | 642.8 | 642.5 | 641.0 | 638.4 | 635.6 | 634.5 | 632.0 | 627.0 | 622.8 | 619.6 | 615.3 |
| 32.5° | 589.3 | 589.0 | 589.0 | 589.0 | 587.2 | 586.9 | 583.3 | 580.6 | 577.4 | 572.3 | 569.5 |
| 35° | 538.4 | 538.1 | 538.4 | 534.0 | 532.7 | 531.9 | 531.6 | 529.8 | 525.3 | 522.9 | 520.5 |
| 37.5° | 481.0 | 481.9 | 481.3 | 480.1 | 481.6 | 478.9 | 481.0 | 477.1 | 475.3 | 474.8 | 472.0 |
| 40° | 429.3 | 431.6 | 429.3 | 429.6 | 431.1 | 428.3 | 428.3 | 427.8 | 426.5 | 426.0 | 425.4 |
| 42.5° | 385.0 | 382.0 | 383.8 | 382.3 | 383.8 | 382.9 | 381.4 | 382.3 | 382.5 | 381.4 | 381.1 |
| 45° | 340.5 | 341.0 | 341.6 | 340.7 | 340.7 | 339.8 | 342.3 | 340.7 | 340.7 | 341.0 | 339.0 |
| 47.5° | 304.2 | 303.3 | 304.0 | 303.3 | 303.6 | 303.0 | 303.6 | 304.0 | 303.3 | 303.3 | 301.5 |
| 50° | 270.1 | 269.5 | 271.6 | 269.8 | 269.8 | 269.5 | 269.8 | 269.3 | 268.3 | 268.3 | 269.0 |
| 52.5° | 240.5 | 239.3 | 239.0 | 240.5 | 238.4 | 238.4 | 238.7 | 238.1 | 236.9 | 236.3 | 234.8 |
| 55° | 213.0 | 212.7 | 213.0 | 211.7 | 211.2 | 211.2 | 209.7 | 209.1 | 208.8 | 207.3 | 206.5 |
| 57.5° | 187.3 | 186.4 | 186.7 | 186.4 | 185.2 | 184.9 | 183.7 | 183.7 | 182.4 | 181.3 | 179.8 |
| 60° | 162.8 | 162.8 | 163.6 | 162.5 | 161.5 | 161.0 | 160.3 | 159.7 | 157.7 | 155.6 | 153.8 |
| 62.5° | 140.9 | 141.2 | 140.9 | 140.0 | 139.4 | 138.8 | 138.2 | 136.4 | 134.6 | 133.4 | 131.4 |
| 65° | 121.7 | 121.4 | 120.6 | 119.9 | 118.5 | 118.5 | 117.3 | 116.3 | 114.2 | 112.4 | 110.4 |
| 67.5° | 102.0 | 101.4 | 101.4 | 101.4 | 99.6 | 99.3 | 98.7 | 96.9 | 95.1 | 92.8 | 91.0 |
| 70° | 84.1 | 84.6 | 83.8 | 82.8 | 82.0 | 81.6 | 80.8 | 79.0 | 76.9 | 74.5 | 73.0 |
| 72.5° | 67.1 | 67.6 | 66.7 | 66.4 | 64.6 | 64.0 | 63.7 | 62.2 | 59.9 | 58.4 | 55.9 |
| 75° | 51.4 | 51.7 | 51.2 | 50.6 | 49.4 | 49.1 | 47.6 | 46.3 | 44.8 | 42.5 | 40.4 |
| 77.5° | 37.1 | 36.5 | 36.5 | 35.3 | 34.1 | 34.1 | 33.8 | 32.0 | 29.9 | 28.1 | 26.3 |
| 80° | 23.6 | 23.4 | 22.4 | 21.8 | 20.9 | 20.6 | 20.3 | 18.8 | 17.3 | 16.2 | 14.9 |
| 82.5° | 12.0 | 11.6 | 11.3 | 11.1 | 10.5 | 9.8 | 10.2 | 9.0 | 8.4 | 7.2 | 6.2 |
| 85° | 3.6 | 3.9 | 3.9 | 3.6 | 3.3 | 3.3 | 3.3 | 3.0 | 2.4 | 2.1 | 1.8 |
| 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° | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 |
| 2.5° | 793.9 | 794.2 | 794.5 | 794.8 | 794.8 | 795.1 | 795.4 | 795.7 | 796.0 | 796.0 | 796.3 |
| 5° | 793.3 | 793.9 | 793.9 | 794.2 | 794.2 | 794.2 | 794.5 | 794.5 | 794.5 | 794.5 | 794.8 |
| 7.5° | 793.6 | 793.6 | 793.6 | 793.3 | 793.3 | 793.0 | 793.0 | 793.0 | 792.4 | 792.4 | 792.4 |
| 10° | 792.1 | 791.9 | 791.5 | 790.9 | 790.6 | 790.3 | 789.7 | 789.1 | 788.6 | 788.3 | 787.6 |
| 12.5° | 789.1 | 787.9 | 786.8 | 785.5 | 785.0 | 784.7 | 783.4 | 782.5 | 781.6 | 780.7 | 780.1 |
| 15° | 783.2 | 781.4 | 779.3 | 776.8 | 776.3 | 775.7 | 773.6 | 771.8 | 770.6 | 769.6 | 768.2 |
| 17.5° | 771.1 | 767.6 | 765.2 | 761.6 | 760.1 | 759.5 | 756.2 | 754.4 | 752.3 | 751.8 | 750.5 |
| 20° | 750.0 | 746.7 | 742.1 | 738.9 | 737.1 | 735.3 | 732.6 | 730.2 | 727.8 | 727.8 | 726.3 |
| 22.5° | 723.3 | 719.1 | 713.5 | 709.2 | 708.9 | 705.3 | 703.0 | 700.3 | 699.4 | 697.6 | 697.6 |
| 25° | 689.8 | 686.2 | 680.0 | 676.4 | 674.6 | 673.6 | 669.8 | 666.2 | 664.4 | 662.9 | 664.1 |
| 27.5° | 652.7 | 647.4 | 642.5 | 638.1 | 636.6 | 634.8 | 631.2 | 629.7 | 626.4 | 626.1 | 625.8 |
| 30° | 610.3 | 604.9 | 600.1 | 598.0 | 595.0 | 593.4 | 590.8 | 589.0 | 587.8 | 587.8 | 587.2 |
| 32.5° | 565.6 | 560.9 | 558.5 | 554.0 | 552.5 | 550.4 | 548.6 | 546.8 | 547.4 | 546.8 | 547.1 |
| 35° | 517.5 | 516.3 | 511.8 | 509.1 | 509.1 | 508.8 | 505.9 | 504.6 | 504.1 | 504.4 | 505.9 |
| 37.5° | 471.7 | 468.1 | 465.1 | 463.3 | 464.8 | 463.0 | 462.7 | 462.7 | 464.5 | 463.3 | 465.8 |
| 40° | 422.9 | 422.6 | 421.5 | 422.1 | 422.4 | 420.3 | 420.8 | 421.1 | 422.4 | 424.7 | 425.1 |
| 42.5° | 380.5 | 380.2 | 380.2 | 380.2 | 379.6 | 378.4 | 379.6 | 381.7 | 381.4 | 383.2 | 384.7 |
| 45° | 339.5 | 339.0 | 340.1 | 339.2 | 341.0 | 341.6 | 340.7 | 341.3 | 343.1 | 344.3 | 346.7 |
| 47.5° | 302.2 | 302.2 | 302.4 | 303.0 | 301.2 | 302.7 | 303.3 | 304.5 | 305.4 | 306.0 | 307.2 |
| 50° | 267.5 | 267.5 | 266.8 | 266.8 | 266.8 | 267.7 | 266.5 | 268.0 | 268.3 | 270.8 | 272.2 |
| 52.5° | 235.4 | 233.9 | 234.8 | 234.3 | 233.0 | 232.5 | 233.0 | 233.3 | 235.1 | 235.7 | 237.5 |
| 55° | 204.9 | 204.9 | 202.5 | 201.9 | 202.9 | 202.5 | 202.2 | 202.2 | 203.1 | 204.0 | 205.5 |
| 57.5° | 178.0 | 176.2 | 174.4 | 174.1 | 173.2 | 173.5 | 173.5 | 173.2 | 172.6 | 172.9 | 173.2 |
| 60° | 152.5 | 151.3 | 148.7 | 148.7 | 148.4 | 148.1 | 146.6 | 146.3 | 144.8 | 145.1 | 143.8 |
| 62.5° | 129.2 | 128.6 | 125.0 | 123.8 | 123.8 | 122.9 | 121.4 | 121.1 | 119.1 | 119.1 | 117.8 |
| 65° | 108.3 | 106.5 | 104.4 | 102.3 | 102.3 | 101.1 | 100.2 | 97.5 | 96.0 | 95.1 | 93.3 |
| 67.5° | 89.2 | 86.4 | 84.4 | 82.6 | 81.3 | 81.0 | 79.0 | 77.2 | 74.8 | 73.3 | 70.5 |
| 70° | 70.5 | 68.5 | 66.4 | 64.6 | 63.5 | 62.2 | 60.1 | 57.4 | 55.6 | 53.0 | 51.2 |
| 72.5° | 53.2 | 51.4 | 49.7 | 47.3 | 45.8 | 44.8 | 42.7 | 40.4 | 37.4 | 35.6 | 33.2 |
| 75° | 38.3 | 36.2 | 33.8 | 31.7 | 30.8 | 29.9 | 27.5 | 25.7 | 23.6 | 21.6 | 19.1 |
| 77.5° | 24.9 | 22.4 | 20.6 | 18.3 | 18.0 | 17.3 | 14.9 | 13.1 | 11.6 | 10.5 | 9.0 |
| 80° | 13.1 | 12.0 | 10.5 | 9.0 | 8.4 | 7.5 | 6.2 | 5.4 | 4.4 | 3.6 | 3.0 |
| 82.5° | 5.7 | 4.8 | 3.9 | 3.3 | 3.0 | 2.6 | 2.1 | 1.8 | 1.5 | 1.5 | 1.2 |
| 85° | 1.5 | 1.2 | 1.2 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 | 0.3 | 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° | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 |
| 2.5° | 796.6 | 796.9 | 797.2 | 797.2 | 797.5 | 797.8 | 797.8 | 798.1 | 798.4 | 798.7 | 798.7 |
| 5° | 795.1 | 795.1 | 795.1 | 795.4 | 795.4 | 795.4 | 795.4 | 796.0 | 796.0 | 796.3 | 796.6 |
| 7.5° | 792.1 | 792.1 | 792.1 | 792.1 | 791.9 | 792.1 | 791.9 | 791.9 | 792.4 | 792.7 | 793.0 |
| 10° | 787.3 | 787.0 | 787.0 | 786.8 | 786.8 | 786.8 | 787.0 | 787.3 | 787.6 | 787.9 | 788.8 |
| 12.5° | 779.8 | 779.6 | 779.6 | 779.3 | 779.3 | 779.6 | 779.8 | 780.4 | 781.6 | 782.2 | 783.4 |
| 15° | 767.8 | 767.6 | 767.8 | 768.2 | 768.8 | 769.6 | 770.6 | 771.4 | 773.2 | 774.7 | 776.3 |
| 17.5° | 750.5 | 750.8 | 751.1 | 751.8 | 752.6 | 753.8 | 756.2 | 758.6 | 760.7 | 763.1 | 765.5 |
| 20° | 726.6 | 727.8 | 728.1 | 730.2 | 730.8 | 733.5 | 736.2 | 739.7 | 743.1 | 746.1 | 749.3 |
| 22.5° | 697.9 | 698.8 | 699.9 | 702.4 | 703.9 | 707.5 | 710.7 | 715.0 | 718.6 | 722.4 | 727.2 |
| 25° | 665.3 | 665.6 | 669.2 | 669.2 | 672.8 | 675.7 | 679.6 | 684.1 | 689.5 | 694.5 | 697.9 |
| 27.5° | 628.2 | 629.7 | 632.4 | 633.5 | 636.3 | 641.0 | 644.3 | 649.7 | 655.1 | 659.5 | 663.1 |
| 30° | 589.3 | 590.5 | 595.0 | 595.6 | 597.7 | 601.9 | 606.3 | 611.4 | 615.6 | 620.7 | 624.0 |
| 32.5° | 548.3 | 551.6 | 554.3 | 556.4 | 556.9 | 563.3 | 565.6 | 569.2 | 574.1 | 579.2 | 582.4 |
| 35° | 508.5 | 510.0 | 513.9 | 515.1 | 516.9 | 520.5 | 525.3 | 528.3 | 530.6 | 534.0 | 537.8 |
| 37.5° | 466.3 | 470.9 | 471.7 | 475.3 | 475.9 | 479.2 | 481.6 | 485.2 | 488.2 | 491.2 | 491.8 |
| 40° | 427.2 | 428.7 | 431.9 | 432.9 | 433.4 | 438.0 | 440.9 | 441.8 | 443.4 | 446.0 | 449.6 |
| 42.5° | 387.4 | 388.9 | 392.5 | 391.5 | 394.3 | 396.4 | 397.9 | 401.5 | 403.0 | 403.8 | 403.8 |
| 45° | 348.2 | 348.8 | 351.1 | 352.4 | 353.9 | 355.0 | 357.8 | 359.6 | 360.1 | 362.9 | 363.7 |
| 47.5° | 310.8 | 311.4 | 313.2 | 315.3 | 314.6 | 316.2 | 319.2 | 320.0 | 320.4 | 322.2 | 323.1 |
| 50° | 274.0 | 275.5 | 277.9 | 277.3 | 279.1 | 280.0 | 282.7 | 283.2 | 283.2 | 283.6 | 283.9 |
| 52.5° | 239.7 | 240.8 | 241.4 | 242.0 | 242.9 | 244.4 | 245.6 | 244.9 | 246.2 | 247.4 | 246.5 |
| 55° | 205.5 | 206.5 | 207.9 | 208.5 | 208.5 | 208.8 | 208.2 | 210.9 | 209.7 | 209.4 | 209.7 |
| 57.5° | 174.4 | 173.2 | 172.9 | 174.4 | 175.0 | 174.7 | 173.8 | 175.0 | 175.0 | 174.4 | 173.5 |
| 60° | 144.2 | 143.3 | 143.0 | 143.3 | 142.0 | 141.2 | 141.8 | 141.2 | 139.7 | 139.1 | 139.4 |
| 62.5° | 116.7 | 115.8 | 113.4 | 113.4 | 112.7 | 112.4 | 110.1 | 110.4 | 109.1 | 107.3 | 108.0 |
| 65° | 91.3 | 88.8 | 87.7 | 87.4 | 85.2 | 83.4 | 82.8 | 80.8 | 79.0 | 78.7 | 79.0 |
| 67.5° | 68.5 | 65.8 | 63.7 | 62.8 | 61.7 | 60.1 | 58.1 | 56.3 | 56.8 | 56.6 | 57.7 |
| 70° | 47.6 | 45.8 | 43.7 | 42.2 | 42.7 | 40.9 | 39.8 | 39.8 | 40.1 | 40.4 | 40.9 |
| 72.5° | 31.7 | 29.3 | 28.5 | 27.5 | 27.0 | 25.7 | 26.3 | 26.3 | 26.0 | 26.3 | 25.7 |
| 75° | 18.0 | 16.7 | 15.9 | 15.5 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 14.4 | 14.4 |
| 77.5° | 8.0 | 7.5 | 7.2 | 6.9 | 6.9 | 6.9 | 6.6 | 6.2 | 6.2 | 6.2 | 6.0 |
| 80° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 82.5° | 1.2 | 1.2 | 1.5 | 1.5 | 1.5 | 1.2 | 1.5 | 1.5 | 1.2 | 1.2 | 1.5 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 | 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: P843455

CATALOG NUMBER: LD4C20DE010B35 EU4C20B35 4LBLWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 | 796.6 |
| 2.5° | 799.0 | 799.3 | 799.3 | 799.3 | 799.6 | 799.6 | 799.6 | 799.6 |
| 5° | 796.9 | 797.2 | 797.2 | 797.2 | 797.5 | 797.5 | 797.5 | 797.5 |
| 7.5° | 793.3 | 793.6 | 793.6 | 793.9 | 793.9 | 794.2 | 794.2 | 794.5 |
| 10° | 789.1 | 789.7 | 790.1 | 790.3 | 790.6 | 790.9 | 790.9 | 791.2 |
| 12.5° | 784.7 | 785.2 | 785.5 | 786.1 | 786.8 | 787.0 | 787.3 | 787.6 |
| 15° | 778.1 | 779.3 | 779.8 | 780.1 | 781.4 | 781.9 | 782.2 | 782.5 |
| 17.5° | 767.6 | 770.0 | 770.9 | 771.4 | 772.7 | 773.9 | 774.7 | 775.0 |
| 20° | 752.6 | 755.4 | 756.5 | 758.0 | 759.8 | 761.3 | 761.9 | 762.4 |
| 22.5° | 731.7 | 734.6 | 736.4 | 738.2 | 739.7 | 741.3 | 743.6 | 742.8 |
| 25° | 701.7 | 706.8 | 708.9 | 709.9 | 713.2 | 715.0 | 716.1 | 715.0 |
| 27.5° | 668.3 | 671.3 | 673.1 | 675.2 | 677.5 | 679.3 | 680.0 | 681.8 |
| 30° | 627.9 | 633.0 | 632.7 | 634.8 | 637.8 | 639.6 | 640.2 | 641.7 |
| 32.5° | 586.0 | 588.4 | 590.2 | 589.8 | 591.1 | 594.4 | 593.2 | 595.9 |
| 35° | 541.4 | 541.7 | 544.7 | 544.5 | 546.8 | 546.8 | 546.8 | 548.6 |
| 37.5° | 493.9 | 497.5 | 495.9 | 499.5 | 498.4 | 499.3 | 499.3 | 499.8 |
| 40° | 450.4 | 451.7 | 451.7 | 452.9 | 453.8 | 452.9 | 453.5 | 455.0 |
| 42.5° | 405.6 | 406.9 | 407.1 | 406.6 | 407.4 | 410.2 | 408.0 | 409.8 |
| 45° | 363.7 | 364.7 | 365.8 | 365.0 | 366.5 | 365.5 | 366.5 | 365.8 |
| 47.5° | 324.3 | 324.0 | 323.6 | 326.1 | 324.0 | 324.3 | 325.4 | 323.3 |
| 50° | 283.9 | 285.7 | 284.5 | 285.3 | 286.0 | 286.0 | 285.0 | 285.0 |
| 52.5° | 248.0 | 247.7 | 246.7 | 247.7 | 247.1 | 247.4 | 248.0 | 247.4 |
| 55° | 210.9 | 212.1 | 211.5 | 211.2 | 211.5 | 211.5 | 213.3 | 210.9 |
| 57.5° | 174.4 | 173.8 | 174.7 | 176.8 | 174.7 | 176.2 | 177.0 | 177.4 |
| 60° | 139.7 | 139.7 | 141.5 | 140.6 | 142.4 | 143.8 | 145.1 | 144.5 |
| 62.5° | 106.5 | 108.0 | 108.6 | 108.9 | 110.6 | 111.9 | 111.9 | 111.6 |
| 65° | 79.0 | 81.0 | 81.0 | 82.3 | 82.8 | 82.8 | 83.4 | 84.6 |
| 67.5° | 58.4 | 58.4 | 58.6 | 59.2 | 58.9 | 58.9 | 59.5 | 59.9 |
| 70° | 40.7 | 40.1 | 40.9 | 40.7 | 40.7 | 40.4 | 40.7 | 40.7 |
| 72.5° | 25.7 | 25.7 | 26.0 | 25.7 | 25.2 | 25.4 | 25.4 | 26.0 |
| 75° | 13.7 | 14.4 | 13.7 | 13.7 | 14.1 | 13.4 | 13.7 | 14.1 |
| 77.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.4 | 5.4 | 5.4 |
| 80° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.4 | 2.4 |
| 82.5° | 1.2 | 1.5 | 1.2 | 1.5 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 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)