

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: P843433

Luminaire Tested: **LD4C20DE010B2750 EU4C20B27 4LBSWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843433
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: LD4C20DE010B2750 EU4C20B27 4LBSWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

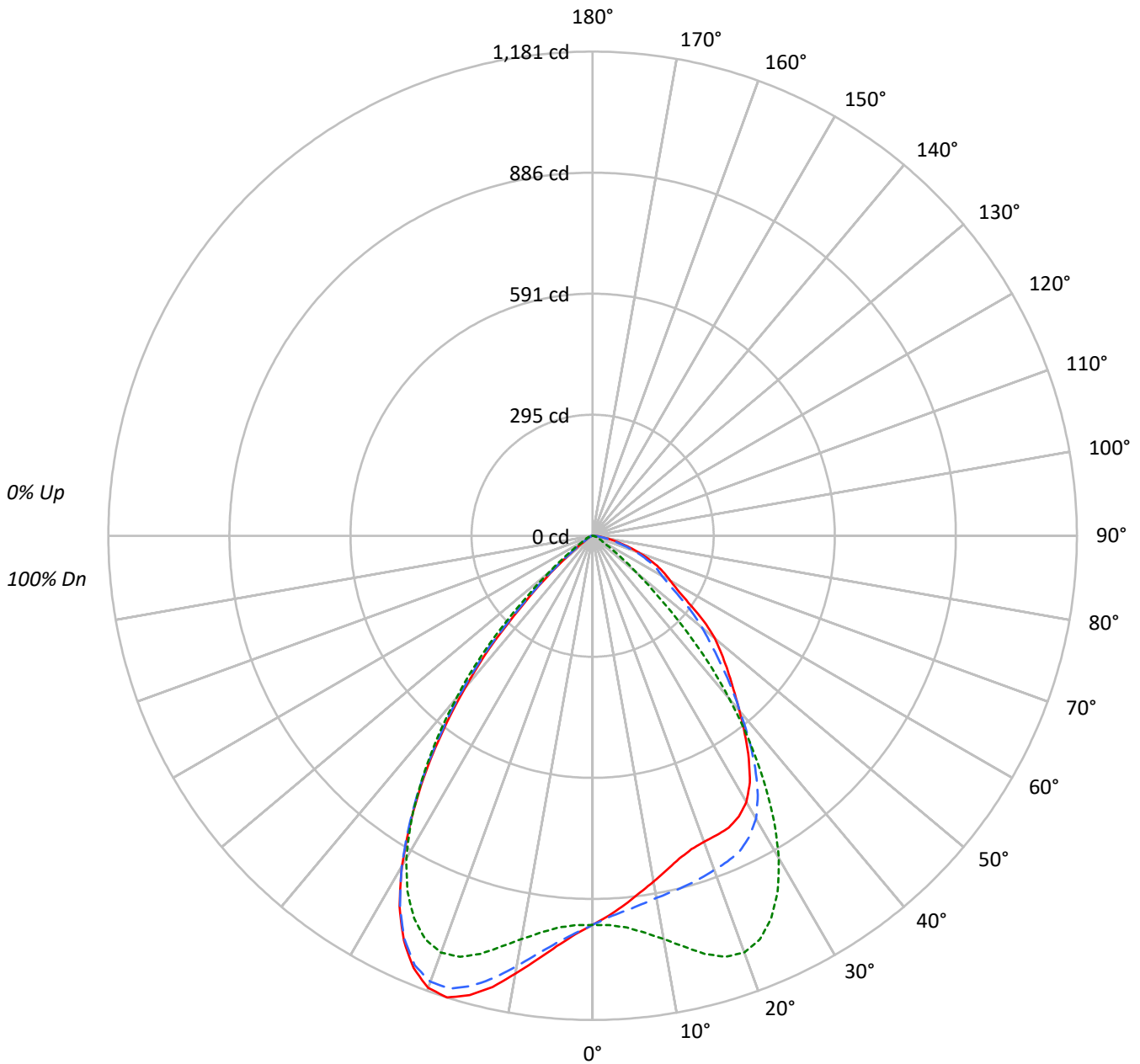
Lumens per Lamp: N/A
Luminaire Lumens: 1751.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P843433

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P843433

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 85 | 82 | 80 | | | | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | 72 |
| 4 | 91 | 81 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | | 64 |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 64 | 60 | 58 | | | | 58 |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 62 | 55 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 50 | 48 | | | | 48 |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 | | | | 44 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 39 | 37 | | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 116600 | 116600 | 116600 |
| 5° | 111385 | 118279 | 123927 |
| 10° | 106810 | 124587 | 135253 |
| 15° | 103696 | 134259 | 147499 |
| 20° | 103832 | 141406 | 153395 |
| 25° | 106478 | 139566 | 147645 |
| 30° | 106352 | 128836 | 131815 |
| 35° | 99599 | 108898 | 107398 |
| 40° | 89216 | 83058 | 77493 |
| 45° | 80946 | 52730 | 43279 |
| 50° | 74367 | 26758 | 18482 |
| 55° | 61044 | 11930 | 6104 |
| 60° | 53589 | 6708 | 3342 |
| 65° | 50436 | 5029 | 2529 |
| 70° | 43140 | 4023 | 2227 |
| 75° | 32942 | 2943 | 1756 |
| 80° | 23630 | 1698 | 920 |
| 85° | 17479 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.2 | 5.3 |
| 10°-20° | 287.3 | 16.4 |
| 20°-30° | 444.5 | 25.4 |
| 30°-40° | 438.0 | 25.0 |
| 40°-50° | 268.9 | 15.4 |
| 50°-60° | 119.6 | 6.8 |
| 60°-70° | 66.8 | 3.8 |
| 70°-80° | 28.9 | 1.7 |
| 80°-90° | 5.2 | 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° | 824.0 | 47.1 |
| 0°-40° | 1262.0 | 72.1 |
| 0°-60° | 1650.6 | 94.2 |
| 0°-90° | 1751.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1751.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 949 | 949 | 949 | 949 | 949 | |
| 5° | 903 | 918 | 959 | 996 | 1005 | 85 |
| 15° | 815 | 883 | 1056 | 1136 | 1160 | 231 |
| 25° | 786 | 849 | 1030 | 1085 | 1089 | 360 |
| 35° | 664 | 691 | 726 | 724 | 716 | 412 |
| 45° | 466 | 442 | 304 | 265 | 249 | 361 |
| 55° | 285 | 258 | 56 | 32 | 28 | 262 |
| 65° | 174 | 156 | 17 | 10 | 9 | 170 |
| 75° | 69 | 59 | 6 | 4 | 4 | 76 |
| 85° | 12 | 10 | 0 | 0 | 0 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843433

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 |
| 2.5° | 926.8 | 926.8 | 926.8 | 926.8 | 929.2 | 925.5 | 929.2 | 929.2 | 933.0 | 934.2 | 930.5 |
| 5° | 903.2 | 902.1 | 903.2 | 903.2 | 905.8 | 904.5 | 908.2 | 910.6 | 915.7 | 918.1 | 918.1 |
| 7.5° | 878.5 | 878.5 | 878.5 | 881.0 | 884.6 | 883.4 | 887.1 | 890.8 | 898.2 | 903.2 | 907.0 |
| 10° | 856.2 | 855.0 | 858.6 | 859.9 | 863.6 | 863.6 | 869.8 | 873.5 | 882.2 | 892.1 | 897.1 |
| 12.5° | 835.1 | 833.8 | 836.4 | 840.1 | 846.2 | 846.2 | 851.2 | 857.4 | 869.8 | 881.0 | 889.6 |
| 15° | 815.3 | 816.5 | 820.2 | 822.7 | 830.1 | 830.1 | 836.4 | 843.8 | 857.4 | 871.1 | 883.4 |
| 17.5° | 801.7 | 803.0 | 805.4 | 809.1 | 816.5 | 816.5 | 822.7 | 831.4 | 846.2 | 861.1 | 876.0 |
| 20° | 794.2 | 795.4 | 798.0 | 801.7 | 807.8 | 809.1 | 814.1 | 824.0 | 837.5 | 853.7 | 867.4 |
| 22.5° | 790.5 | 793.0 | 795.4 | 798.0 | 804.1 | 804.1 | 810.4 | 817.8 | 831.4 | 847.5 | 859.9 |
| 25° | 785.5 | 788.0 | 789.3 | 793.0 | 798.0 | 798.0 | 801.7 | 810.4 | 822.7 | 836.4 | 848.8 |
| 27.5° | 772.0 | 774.4 | 775.7 | 779.4 | 784.3 | 783.1 | 788.0 | 794.2 | 805.4 | 817.8 | 827.7 |
| 30° | 749.7 | 750.8 | 753.4 | 754.5 | 758.3 | 758.3 | 762.0 | 768.2 | 775.7 | 786.8 | 796.7 |
| 32.5° | 713.7 | 716.1 | 717.4 | 718.7 | 722.4 | 721.1 | 722.4 | 726.1 | 733.5 | 743.4 | 749.7 |
| 35° | 664.1 | 669.1 | 669.1 | 671.6 | 672.8 | 671.6 | 671.6 | 676.5 | 680.3 | 687.7 | 691.4 |
| 37.5° | 609.6 | 613.3 | 612.1 | 614.6 | 615.9 | 612.1 | 614.6 | 615.9 | 620.7 | 624.4 | 625.7 |
| 40° | 556.3 | 557.6 | 557.6 | 557.6 | 557.6 | 556.3 | 557.6 | 558.7 | 562.6 | 562.6 | 558.7 |
| 42.5° | 508.0 | 509.3 | 509.3 | 506.7 | 509.3 | 508.0 | 508.0 | 508.0 | 508.0 | 503.0 | 499.3 |
| 45° | 465.9 | 467.2 | 467.2 | 465.9 | 465.9 | 463.3 | 462.2 | 460.9 | 457.2 | 451.0 | 442.3 |
| 47.5° | 426.2 | 428.7 | 429.9 | 427.5 | 426.2 | 423.7 | 423.7 | 416.3 | 411.3 | 403.9 | 391.5 |
| 50° | 389.1 | 391.5 | 391.5 | 389.1 | 389.1 | 385.3 | 381.6 | 379.2 | 371.7 | 363.1 | 348.2 |
| 52.5° | 342.0 | 345.6 | 345.6 | 344.5 | 344.5 | 339.5 | 338.2 | 333.3 | 327.1 | 317.2 | 304.8 |
| 55° | 285.0 | 289.9 | 288.7 | 287.5 | 285.0 | 285.0 | 285.0 | 281.2 | 277.5 | 270.1 | 257.7 |
| 57.5° | 244.1 | 245.4 | 245.4 | 244.1 | 244.1 | 241.6 | 241.6 | 237.9 | 236.7 | 229.2 | 219.4 |
| 60° | 218.1 | 218.1 | 219.4 | 218.1 | 216.8 | 215.5 | 214.4 | 211.8 | 208.1 | 203.2 | 195.8 |
| 62.5° | 197.0 | 198.2 | 198.2 | 197.0 | 195.8 | 194.5 | 193.3 | 190.8 | 188.4 | 184.6 | 177.2 |
| 65° | 173.5 | 175.9 | 174.7 | 173.5 | 172.2 | 171.0 | 171.0 | 168.5 | 166.0 | 163.5 | 156.1 |
| 67.5° | 147.4 | 148.7 | 149.9 | 147.4 | 147.4 | 146.2 | 146.2 | 143.7 | 142.5 | 137.5 | 132.5 |
| 70° | 120.1 | 121.4 | 121.4 | 120.1 | 120.1 | 118.9 | 118.9 | 117.7 | 116.4 | 112.7 | 107.8 |
| 72.5° | 94.1 | 95.4 | 94.1 | 92.9 | 92.9 | 92.9 | 91.7 | 90.4 | 89.3 | 86.7 | 83.0 |
| 75° | 69.4 | 69.4 | 70.6 | 69.4 | 68.1 | 68.1 | 66.8 | 66.8 | 64.4 | 63.2 | 59.4 |
| 77.5° | 49.6 | 50.8 | 49.6 | 49.6 | 48.3 | 47.1 | 47.1 | 45.8 | 45.8 | 44.6 | 42.1 |
| 80° | 33.4 | 33.4 | 34.7 | 33.4 | 32.3 | 33.4 | 32.3 | 31.0 | 31.0 | 29.7 | 27.3 |
| 82.5° | 21.0 | 22.3 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 19.8 | 19.8 | 18.6 | 17.3 |
| 85° | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 11.2 | 11.2 | 11.2 | 9.9 |
| 87.5° | 6.2 | 6.2 | 5.0 | 5.0 | 6.2 | 6.2 | 6.2 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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° | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 |
| 2.5° | 935.5 | 936.6 | 939.2 | 942.9 | 942.9 | 940.4 | 946.7 | 946.7 | 949.1 | 950.3 | 955.3 |
| 5° | 925.5 | 928.1 | 933.0 | 939.2 | 940.4 | 939.2 | 947.9 | 951.6 | 955.3 | 959.1 | 966.5 |
| 7.5° | 916.9 | 921.8 | 930.5 | 939.2 | 942.9 | 942.9 | 956.5 | 961.5 | 968.9 | 976.3 | 985.1 |
| 10° | 911.9 | 919.4 | 931.8 | 945.4 | 949.1 | 952.8 | 968.9 | 978.8 | 988.7 | 998.7 | 1011.1 |
| 12.5° | 905.8 | 919.4 | 935.5 | 952.8 | 960.2 | 965.2 | 987.5 | 999.9 | 1013.5 | 1025.9 | 1042.0 |
| 15° | 904.5 | 920.7 | 941.7 | 963.9 | 973.9 | 981.3 | 1006.1 | 1023.5 | 1039.5 | 1055.6 | 1071.8 |
| 17.5° | 899.5 | 919.4 | 945.4 | 970.2 | 982.5 | 992.5 | 1020.9 | 1042.0 | 1060.6 | 1076.8 | 1095.3 |
| 20° | 893.4 | 915.7 | 944.1 | 971.4 | 985.1 | 994.9 | 1025.9 | 1045.8 | 1066.8 | 1081.6 | 1099.0 |
| 22.5° | 884.6 | 907.0 | 935.5 | 962.7 | 975.1 | 983.8 | 1014.7 | 1032.1 | 1050.8 | 1065.6 | 1081.6 |
| 25° | 869.8 | 890.8 | 915.7 | 937.9 | 950.3 | 957.8 | 985.1 | 1001.2 | 1014.7 | 1029.6 | 1044.5 |
| 27.5° | 848.8 | 864.8 | 885.9 | 902.1 | 909.5 | 916.9 | 939.2 | 952.8 | 965.2 | 977.6 | 987.5 |
| 30° | 811.5 | 824.0 | 838.8 | 852.5 | 859.9 | 861.1 | 882.2 | 889.6 | 899.5 | 908.2 | 915.7 |
| 32.5° | 762.0 | 772.0 | 780.5 | 788.0 | 793.0 | 794.2 | 810.4 | 812.8 | 822.7 | 822.7 | 833.8 |
| 35° | 698.8 | 703.7 | 710.0 | 710.0 | 713.7 | 710.0 | 721.1 | 723.6 | 724.8 | 726.1 | 734.7 |
| 37.5° | 627.0 | 629.4 | 633.1 | 625.7 | 625.7 | 622.0 | 625.7 | 628.2 | 623.3 | 623.3 | 629.4 |
| 40° | 558.7 | 553.8 | 548.9 | 541.4 | 537.8 | 530.3 | 530.3 | 524.2 | 520.4 | 517.9 | 519.2 |
| 42.5° | 493.2 | 482.0 | 470.9 | 454.7 | 447.3 | 439.9 | 432.5 | 423.7 | 421.3 | 415.1 | 411.3 |
| 45° | 429.9 | 413.9 | 398.9 | 372.9 | 358.1 | 350.6 | 334.5 | 317.2 | 306.1 | 303.5 | 293.6 |
| 47.5° | 376.6 | 353.1 | 328.4 | 297.4 | 282.5 | 268.9 | 245.4 | 230.5 | 215.5 | 208.1 | 201.9 |
| 50° | 329.6 | 308.5 | 276.4 | 242.8 | 224.2 | 210.7 | 184.6 | 167.3 | 151.1 | 140.0 | 132.5 |
| 52.5° | 288.7 | 265.1 | 235.4 | 197.0 | 178.4 | 163.5 | 135.1 | 115.3 | 101.6 | 90.4 | 81.8 |
| 55° | 242.8 | 224.2 | 194.5 | 158.5 | 140.0 | 122.7 | 97.8 | 76.9 | 63.2 | 55.7 | 49.6 |
| 57.5° | 209.4 | 193.3 | 164.8 | 130.1 | 112.7 | 96.7 | 71.8 | 54.5 | 43.4 | 36.0 | 32.3 |
| 60° | 187.1 | 172.2 | 147.4 | 114.0 | 97.8 | 83.0 | 59.4 | 43.4 | 33.4 | 27.3 | 24.7 |
| 62.5° | 168.5 | 153.7 | 131.4 | 100.4 | 86.7 | 71.8 | 50.8 | 36.0 | 27.3 | 22.3 | 18.6 |
| 65° | 147.4 | 133.8 | 114.0 | 86.7 | 74.4 | 62.0 | 43.4 | 29.7 | 22.3 | 17.3 | 14.8 |
| 67.5° | 125.1 | 112.7 | 95.4 | 71.8 | 62.0 | 52.0 | 34.7 | 24.7 | 18.6 | 14.8 | 12.4 |
| 70° | 101.6 | 91.7 | 75.6 | 58.3 | 49.6 | 40.8 | 28.5 | 19.8 | 13.6 | 11.2 | 9.9 |
| 72.5° | 78.1 | 69.4 | 58.3 | 44.6 | 37.2 | 31.0 | 21.0 | 14.8 | 11.2 | 8.7 | 7.4 |
| 75° | 55.7 | 49.6 | 40.8 | 32.3 | 27.3 | 22.3 | 16.1 | 11.2 | 7.4 | 6.2 | 5.0 |
| 77.5° | 38.4 | 34.7 | 28.5 | 22.3 | 18.6 | 16.1 | 11.2 | 7.4 | 6.2 | 5.0 | 3.7 |
| 80° | 24.7 | 22.3 | 18.6 | 13.6 | 11.2 | 9.9 | 6.2 | 5.0 | 3.7 | 2.4 | 2.4 |
| 82.5° | 14.8 | 13.6 | 11.2 | 7.4 | 6.2 | 5.0 | 3.7 | 2.4 | 2.4 | 1.3 | 1.3 |
| 85° | 8.7 | 7.4 | 5.0 | 3.7 | 3.7 | 2.4 | 2.4 | 1.3 | 1.3 | 0.0 | 0.0 |
| 87.5° | 3.7 | 2.4 | 2.4 | 1.3 | 1.3 | 1.3 | 1.3 | 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° | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 |
| 2.5° | 952.8 | 959.1 | 957.8 | 961.5 | 960.2 | 960.2 | 966.5 | 963.9 | 970.2 | 970.2 | 971.4 |
| 5° | 966.5 | 975.1 | 975.1 | 981.3 | 980.1 | 982.5 | 988.7 | 988.7 | 996.2 | 998.7 | 998.7 |
| 7.5° | 986.2 | 997.5 | 999.9 | 1006.1 | 1007.3 | 1012.3 | 1017.2 | 1018.5 | 1028.3 | 1030.9 | 1032.1 |
| 10° | 1013.5 | 1027.2 | 1030.9 | 1037.1 | 1039.5 | 1044.5 | 1050.8 | 1053.2 | 1065.6 | 1066.8 | 1071.8 |
| 12.5° | 1047.0 | 1061.9 | 1065.6 | 1073.0 | 1074.2 | 1080.4 | 1089.2 | 1091.6 | 1104.0 | 1107.7 | 1111.4 |
| 15° | 1079.2 | 1092.9 | 1099.0 | 1106.5 | 1107.7 | 1115.2 | 1122.6 | 1125.0 | 1136.2 | 1141.2 | 1144.9 |
| 17.5° | 1101.5 | 1117.6 | 1121.3 | 1131.2 | 1131.2 | 1137.4 | 1144.9 | 1147.3 | 1158.5 | 1162.2 | 1164.7 |
| 20° | 1106.5 | 1121.3 | 1126.3 | 1133.7 | 1134.9 | 1138.6 | 1144.9 | 1147.3 | 1157.3 | 1158.5 | 1162.2 |
| 22.5° | 1087.9 | 1102.8 | 1105.2 | 1112.6 | 1113.9 | 1117.6 | 1122.6 | 1121.3 | 1133.7 | 1132.5 | 1133.7 |
| 25° | 1048.2 | 1061.9 | 1061.9 | 1070.5 | 1069.3 | 1073.0 | 1075.5 | 1074.2 | 1085.3 | 1085.3 | 1085.3 |
| 27.5° | 991.2 | 1003.6 | 1004.9 | 1011.1 | 1007.3 | 1008.6 | 1011.1 | 1009.8 | 1017.2 | 1017.2 | 1017.2 |
| 30° | 920.7 | 930.5 | 926.8 | 931.8 | 929.2 | 931.8 | 929.2 | 928.1 | 930.5 | 933.0 | 931.8 |
| 32.5° | 832.6 | 840.1 | 840.1 | 841.3 | 841.3 | 833.8 | 831.4 | 831.4 | 830.1 | 829.0 | 829.0 |
| 35° | 731.0 | 737.3 | 734.7 | 734.7 | 733.5 | 726.1 | 722.4 | 719.9 | 723.6 | 716.1 | 721.1 |
| 37.5° | 627.0 | 628.2 | 624.4 | 623.3 | 617.0 | 617.0 | 610.9 | 605.9 | 608.4 | 607.1 | 602.2 |
| 40° | 513.0 | 517.9 | 510.5 | 508.0 | 511.8 | 506.7 | 500.6 | 494.3 | 499.3 | 493.2 | 495.6 |
| 42.5° | 401.5 | 400.2 | 397.7 | 397.7 | 397.7 | 390.3 | 389.1 | 387.8 | 389.1 | 384.1 | 380.4 |
| 45° | 289.9 | 286.2 | 282.5 | 282.5 | 277.5 | 275.1 | 275.1 | 271.4 | 265.1 | 265.1 | 257.7 |
| 47.5° | 195.8 | 187.1 | 184.6 | 183.4 | 181.0 | 181.0 | 178.4 | 175.9 | 174.7 | 168.5 | 168.5 |
| 50° | 127.7 | 118.9 | 116.4 | 115.3 | 116.4 | 114.0 | 111.5 | 109.0 | 106.5 | 105.3 | 102.9 |
| 52.5° | 76.9 | 73.1 | 70.6 | 69.4 | 66.8 | 65.7 | 64.4 | 62.0 | 60.7 | 60.7 | 59.4 |
| 55° | 45.8 | 42.1 | 37.2 | 37.2 | 37.2 | 36.0 | 34.7 | 33.4 | 32.3 | 32.3 | 31.0 |
| 57.5° | 28.5 | 26.0 | 23.6 | 22.3 | 22.3 | 22.3 | 21.0 | 21.0 | 21.0 | 21.0 | 19.8 |
| 60° | 21.0 | 18.6 | 17.3 | 17.3 | 17.3 | 16.1 | 16.1 | 16.1 | 16.1 | 14.8 | 14.8 |
| 62.5° | 16.1 | 14.8 | 13.6 | 13.6 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 11.2 |
| 65° | 13.6 | 11.2 | 11.2 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 67.5° | 9.9 | 8.7 | 8.7 | 8.7 | 8.7 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 70° | 7.4 | 7.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 72.5° | 6.2 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 75° | 5.0 | 5.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 77.5° | 3.7 | 3.7 | 3.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 80° | 2.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 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: P843433

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBSWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 |
| 2.5° | 971.4 | 977.6 | 971.4 | 971.4 | 975.1 | 973.9 | 976.3 | 972.7 |
| 5° | 999.9 | 1008.6 | 1002.3 | 1001.2 | 1007.3 | 1006.1 | 1007.3 | 1004.9 |
| 7.5° | 1034.6 | 1043.2 | 1037.1 | 1037.1 | 1043.2 | 1042.0 | 1045.8 | 1043.2 |
| 10° | 1074.2 | 1084.2 | 1075.5 | 1076.8 | 1085.3 | 1084.2 | 1084.2 | 1084.2 |
| 12.5° | 1115.2 | 1125.0 | 1120.0 | 1120.0 | 1126.3 | 1127.5 | 1128.8 | 1127.5 |
| 15° | 1148.6 | 1158.5 | 1152.3 | 1152.3 | 1161.0 | 1159.7 | 1161.0 | 1159.7 |
| 17.5° | 1168.4 | 1178.3 | 1170.9 | 1170.9 | 1178.3 | 1178.3 | 1179.6 | 1180.8 |
| 20° | 1163.4 | 1174.6 | 1168.4 | 1165.9 | 1174.6 | 1174.6 | 1173.3 | 1173.3 |
| 22.5° | 1134.9 | 1144.9 | 1139.9 | 1137.4 | 1143.6 | 1141.2 | 1139.9 | 1141.2 |
| 25° | 1085.3 | 1095.3 | 1085.3 | 1085.3 | 1090.3 | 1089.2 | 1090.3 | 1089.2 |
| 27.5° | 1018.5 | 1025.9 | 1016.0 | 1014.7 | 1019.8 | 1017.2 | 1016.0 | 1019.8 |
| 30° | 929.2 | 936.6 | 931.8 | 928.1 | 934.2 | 930.5 | 928.1 | 929.2 |
| 32.5° | 827.7 | 832.6 | 830.1 | 824.0 | 827.7 | 825.2 | 824.0 | 825.2 |
| 35° | 716.1 | 722.4 | 712.4 | 711.3 | 717.4 | 712.4 | 710.0 | 716.1 |
| 37.5° | 600.9 | 608.4 | 599.7 | 600.9 | 597.2 | 598.4 | 596.0 | 599.7 |
| 40° | 491.9 | 490.6 | 488.2 | 486.9 | 488.2 | 484.5 | 486.9 | 483.2 |
| 42.5° | 374.2 | 376.6 | 375.5 | 374.2 | 375.5 | 370.5 | 368.1 | 372.9 |
| 45° | 260.2 | 259.0 | 256.5 | 253.9 | 253.9 | 252.8 | 252.8 | 249.1 |
| 47.5° | 167.3 | 166.0 | 161.1 | 162.3 | 164.8 | 162.3 | 158.5 | 163.5 |
| 50° | 101.6 | 100.4 | 100.4 | 99.1 | 101.6 | 99.1 | 96.7 | 96.7 |
| 52.5° | 57.0 | 57.0 | 55.7 | 55.7 | 55.7 | 55.7 | 54.5 | 53.3 |
| 55° | 31.0 | 29.7 | 29.7 | 29.7 | 28.5 | 28.5 | 28.5 | 28.5 |
| 57.5° | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 18.6 | 18.6 |
| 60° | 14.8 | 14.8 | 14.8 | 14.8 | 13.6 | 14.8 | 13.6 | 13.6 |
| 62.5° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 65° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 67.5° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 70° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 72.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 75° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 77.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 80° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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)