

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P175543

Luminaire Tested: **LDA6A10827D010TE LAR35FL 6LLWW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26296)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A10827D010TE LAR35FL 6LLWW1  
Description: PORTFOLIO 6" Lensed Wall Wash, Self-flanged, 35° Flood Optic, at 30° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 615.0 lumens  
Efficiency: N/A  
Efficacy: 44.4 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 1.13 / 1.63  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

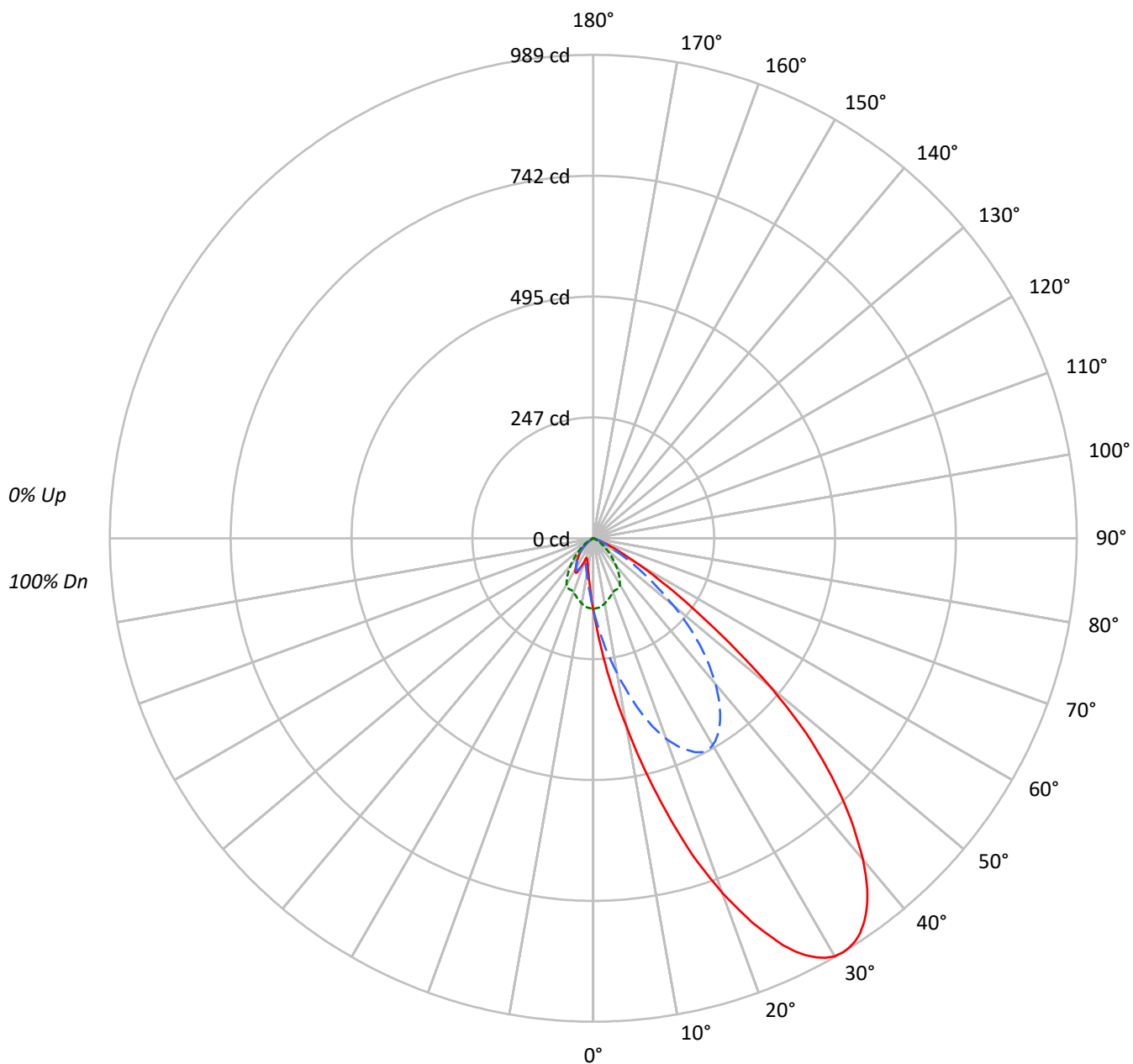
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

### Luminous Intensity Polar Plot





TEST NUMBER: P175543

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |    |    |
| 2   | 104 | 97  | 92  | 87  | 101 | 96  | 91  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 5   | 82  | 71  | 63  | 58  | 80  | 70  | 63  | 57  | 68  | 62  | 57  | 66  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |
| 6   | 76  | 64  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 49  | 48  |    |    |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |    |    |

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

|     | 0°    | 90°  | 180° |
|-----|-------|------|------|
| 0°  | 7965  | 7965 | 7965 |
| 5°  | 13554 | 7825 | 5002 |
| 10° | 21765 | 7526 | 3451 |
| 15° | 32980 | 7191 | 2667 |
| 20° | 45026 | 6855 | 2491 |
| 25° | 55582 | 6962 | 4561 |
| 30° | 62497 | 6900 | 4615 |
| 35° | 64480 | 6130 | 3882 |
| 40° | 61394 | 5110 | 3342 |
| 45° | 53571 | 4070 | 2744 |
| 50° | 40400 | 3070 | 1825 |
| 55° | 23340 | 2131 | 965  |
| 60° | 12082 | 1338 | 296  |
| 65° | 5228  | 597  | 156  |
| 70° | 1763  | 289  | 144  |
| 75° | 572   | 254  | 191  |
| 80° | 379   | 284  | 189  |
| 85° | 189   | 566  | 377  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.6   | 2.5       |
| 10°-20°   | 62.7   | 10.2      |
| 20°-30°   | 133.6  | 21.7      |
| 30°-40°   | 173.5  | 28.2      |
| 40°-50°   | 145.5  | 23.7      |
| 50°-60°   | 67.1   | 10.9      |
| 60°-70°   | 14.5   | 2.4       |
| 70°-80°   | 1.9    | 0.3       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 211.9  | 34.5      |
| 0°-40°    | 385.4  | 62.7      |
| 0°-60°    | 598.0  | 97.2      |
| 0°-90°    | 615.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 615.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 145 | 145 | 145 | 145  | 145  |      |
| 5°  | 246 | 206 | 142 | 102  | 91   | 28   |
| 15° | 581 | 364 | 127 | 59   | 47   | 171  |
| 25° | 919 | 482 | 115 | 69   | 75   | 422  |
| 35° | 964 | 452 | 92  | 59   | 58   | 595  |
| 45° | 691 | 308 | 52  | 36   | 35   | 524  |
| 55° | 244 | 126 | 22  | 13   | 10   | 232  |
| 65° | 40  | 23  | 5   | 2    | 1    | 46   |
| 75° | 3   | 2   | 1   | 1    | 1    | 4    |
| 85° | 0   | 1   | 1   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 25°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 |
| 2.5°  | 188.0 | 185.3 | 187.7 | 187.7 | 186.2 | 184.9 | 187.1 | 184.3 | 185.9 | 183.1 | 183.1 |
| 5°    | 246.3 | 239.3 | 242.6 | 242.3 | 239.6 | 240.2 | 239.3 | 235.3 | 236.2 | 231.9 | 230.7 |
| 7.5°  | 314.7 | 307.3 | 311.0 | 310.1 | 306.1 | 305.8 | 304.3 | 297.9 | 297.9 | 291.5 | 288.1 |
| 10°   | 391.0 | 385.5 | 389.7 | 387.9 | 383.0 | 380.9 | 378.4 | 369.6 | 367.8 | 358.0 | 352.5 |
| 12.5° | 483.1 | 480.4 | 475.8 | 472.7 | 470.6 | 467.3 | 463.0 | 451.4 | 447.1 | 434.0 | 425.4 |
| 15°   | 581.1 | 579.9 | 574.7 | 575.3 | 567.1 | 557.3 | 559.7 | 540.5 | 533.2 | 516.1 | 504.5 |
| 17.5° | 682.7 | 679.1 | 674.2 | 667.5 | 663.2 | 651.6 | 646.4 | 628.4 | 617.7 | 596.4 | 582.0 |
| 20°   | 771.8 | 770.3 | 766.0 | 757.5 | 751.1 | 738.0 | 729.7 | 709.0 | 694.0 | 669.0 | 651.6 |
| 22.5° | 851.2 | 848.8 | 844.8 | 834.4 | 826.8 | 811.2 | 800.8 | 777.0 | 758.7 | 730.3 | 709.3 |
| 25°   | 918.9 | 914.4 | 911.0 | 898.5 | 890.3 | 871.9 | 859.7 | 833.2 | 811.5 | 780.1 | 755.7 |
| 26°   | 940.0 | 936.0 | 933.0 | 919.9 | 911.0 | 891.8 | 879.0 | 851.2 | 828.0 | 796.0 | 770.0 |
| 27°   | 957.4 | 954.0 | 951.6 | 937.9 | 928.4 | 908.6 | 894.5 | 866.5 | 841.7 | 808.8 | 781.9 |
| 28°   | 971.1 | 968.1 | 965.6 | 951.3 | 941.5 | 921.1 | 906.1 | 877.4 | 851.5 | 817.6 | 790.2 |
| 29°   | 981.2 | 978.2 | 976.3 | 961.1 | 951.3 | 930.2 | 914.7 | 885.1 | 858.2 | 823.7 | 795.3 |
| 30°   | 987.3 | 984.3 | 982.4 | 966.6 | 956.8 | 935.4 | 918.6 | 889.0 | 861.0 | 826.2 | 797.2 |
| 31°   | 989.4 | 986.1 | 984.9 | 968.7 | 958.3 | 936.3 | 919.6 | 889.0 | 860.3 | 825.3 | 795.6 |
| 32°   | 987.6 | 984.6 | 983.6 | 967.2 | 956.5 | 934.2 | 917.1 | 886.3 | 857.0 | 821.6 | 791.4 |
| 33°   | 983.3 | 980.3 | 979.7 | 962.9 | 952.2 | 929.3 | 912.5 | 881.1 | 851.2 | 815.5 | 785.3 |
| 34°   | 975.4 | 972.4 | 972.4 | 955.3 | 944.3 | 921.4 | 904.6 | 873.2 | 842.3 | 806.9 | 776.4 |
| 35°   | 963.5 | 962.3 | 961.1 | 943.7 | 932.7 | 909.8 | 893.0 | 861.3 | 830.4 | 795.3 | 764.2 |
| 36°   | 948.9 | 947.9 | 946.7 | 929.3 | 918.0 | 895.1 | 879.0 | 847.2 | 816.1 | 781.3 | 750.5 |
| 37°   | 931.5 | 930.8 | 929.9 | 912.5 | 901.2 | 878.7 | 862.2 | 831.1 | 799.9 | 765.4 | 734.6 |
| 38°   | 910.4 | 910.4 | 909.5 | 892.1 | 880.8 | 858.5 | 842.6 | 811.5 | 780.7 | 746.8 | 716.6 |
| 39°   | 885.4 | 886.0 | 885.4 | 868.0 | 856.7 | 834.7 | 819.5 | 789.2 | 758.4 | 725.5 | 698.3 |
| 40°   | 857.9 | 858.8 | 858.5 | 841.4 | 830.1 | 808.8 | 794.1 | 764.5 | 737.0 | 702.0 | 675.7 |
| 42.5° | 780.1 | 781.6 | 781.9 | 765.7 | 755.1 | 735.2 | 722.1 | 694.9 | 666.2 | 636.9 | 613.1 |
| 45°   | 691.0 | 693.7 | 694.3 | 679.7 | 669.9 | 651.9 | 640.9 | 616.5 | 595.1 | 564.9 | 544.2 |
| 47.5° | 591.2 | 595.1 | 596.7 | 583.2 | 573.8 | 558.2 | 550.0 | 529.2 | 510.6 | 483.4 | 466.0 |
| 50°   | 473.7 | 478.2 | 474.6 | 469.1 | 461.2 | 448.9 | 444.1 | 427.3 | 407.4 | 390.0 | 377.8 |
| 51°   | 422.7 | 427.6 | 430.3 | 419.6 | 412.9 | 401.9 | 398.3 | 383.9 | 366.2 | 351.3 | 340.9 |
| 52°   | 372.6 | 377.8 | 380.6 | 371.1 | 365.3 | 356.2 | 354.0 | 341.5 | 325.9 | 313.4 | 304.9 |
| 53°   | 325.6 | 330.5 | 327.5 | 325.3 | 320.2 | 312.5 | 311.3 | 300.9 | 287.5 | 277.1 | 270.4 |
| 54°   | 282.6 | 286.9 | 289.9 | 282.9 | 278.3 | 271.9 | 271.6 | 263.1 | 251.8 | 242.9 | 238.1 |
| 55°   | 244.2 | 248.1 | 250.9 | 245.1 | 241.1 | 235.6 | 235.6 | 228.6 | 219.1 | 211.8 | 208.1 |
| 57.5° | 166.9 | 169.7 | 172.1 | 167.9 | 165.1 | 161.8 | 162.4 | 158.1 | 151.7 | 147.1 | 145.0 |
| 60°   | 110.2 | 112.3 | 113.8 | 111.1 | 109.6 | 107.4 | 108.0 | 105.3 | 103.2 | 98.3  | 97.4  |
| 61°   | 91.9  | 94.0  | 95.5  | 93.1  | 93.7  | 89.7  | 90.6  | 88.2  | 86.4  | 84.2  | 81.8  |
| 62°   | 76.0  | 77.8  | 79.0  | 76.9  | 77.5  | 74.2  | 75.1  | 73.2  | 71.7  | 69.6  | 67.8  |
| 63°   | 62.0  | 63.5  | 64.7  | 64.4  | 63.5  | 60.7  | 61.3  | 59.8  | 58.6  | 57.1  | 55.5  |
| 64°   | 50.4  | 51.6  | 52.5  | 52.5  | 51.6  | 49.1  | 49.7  | 48.2  | 47.6  | 46.1  | 44.9  |
| 65°   | 40.3  | 41.2  | 41.8  | 41.8  | 41.2  | 39.4  | 39.7  | 38.8  | 37.8  | 36.9  | 36.0  |
| 66°   | 31.7  | 32.7  | 33.3  | 33.3  | 32.7  | 31.1  | 31.4  | 30.5  | 29.9  | 29.0  | 28.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 72.5° | 5.2 | 5.5  | 5.5 | 5.5  | 5.5 | 5.2   | 5.2 | 5.2   | 4.9 | 4.9   | 4.6 |
| 75°   | 2.7 | 2.7  | 2.7 | 2.7  | 2.7 | 2.7   | 2.7 | 2.4   | 2.4 | 2.4   | 2.4 |
| 77.5° | 1.8 | 1.8  | 1.8 | 1.8  | 1.8 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   | 1.5 |
| 80°   | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 1.2 | 0.9   | 0.9 | 0.9   | 0.9 |
| 82.5° | 0.6 | 0.9  | 0.9 | 0.9  | 0.9 | 0.6   | 0.6 | 0.6   | 0.9 | 0.6   | 0.6 |
| 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° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 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):**

|       | 27.5° | 30°   | 32.5° | 35°   | 37.5° | 40°   | 42.5° | 45°   | 47.5° | 50°   | 52.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 |
| 2.5°  | 182.2 | 180.7 | 180.4 | 178.2 | 174.9 | 176.7 | 172.7 | 172.7 | 171.2 | 170.6 | 167.9 |
| 5°    | 228.0 | 224.9 | 223.1 | 218.8 | 215.5 | 214.2 | 207.8 | 206.0 | 202.3 | 199.6 | 194.7 |
| 7.5°  | 283.5 | 277.7 | 273.5 | 266.7 | 260.3 | 257.3 | 247.5 | 242.9 | 236.8 | 231.3 | 223.7 |
| 10°   | 344.9 | 336.0 | 329.0 | 318.9 | 309.2 | 303.1 | 289.6 | 279.9 | 272.2 | 263.4 | 252.7 |
| 12.5° | 414.2 | 401.6 | 391.0 | 376.6 | 362.9 | 353.4 | 335.4 | 321.4 | 310.1 | 297.6 | 283.2 |
| 15°   | 488.3 | 471.5 | 456.9 | 437.7 | 416.9 | 405.6 | 383.0 | 364.4 | 349.1 | 332.4 | 313.4 |
| 17.5° | 560.3 | 539.0 | 519.4 | 495.6 | 470.9 | 452.0 | 427.3 | 403.8 | 383.9 | 362.0 | 340.3 |
| 20°   | 624.7 | 598.8 | 574.7 | 546.3 | 517.9 | 494.4 | 465.1 | 437.0 | 412.9 | 387.6 | 362.0 |
| 22.5° | 678.5 | 648.2 | 619.9 | 587.8 | 555.5 | 528.3 | 494.7 | 463.0 | 435.2 | 406.8 | 377.5 |
| 25°   | 720.9 | 687.3 | 655.6 | 619.9 | 584.5 | 554.2 | 517.0 | 481.9 | 451.4 | 420.3 | 388.5 |
| 26°   | 734.3 | 699.2 | 666.2 | 628.1 | 593.0 | 561.6 | 523.4 | 487.1 | 455.7 | 423.9 | 391.3 |
| 27°   | 744.7 | 708.4 | 674.2 | 635.7 | 599.4 | 567.1 | 527.7 | 490.8 | 458.1 | 425.7 | 392.5 |
| 28°   | 751.7 | 714.5 | 679.1 | 640.0 | 603.1 | 569.8 | 529.8 | 492.0 | 458.7 | 426.1 | 392.2 |
| 29°   | 756.3 | 717.8 | 681.5 | 642.4 | 604.6 | 570.4 | 529.8 | 491.4 | 457.8 | 424.5 | 390.3 |
| 30°   | 757.2 | 718.1 | 681.2 | 641.5 | 603.1 | 568.6 | 527.4 | 488.6 | 454.4 | 421.2 | 386.7 |
| 31°   | 755.7 | 715.4 | 677.8 | 638.5 | 599.7 | 564.3 | 523.1 | 484.3 | 450.5 | 416.6 | 381.8 |
| 32°   | 751.1 | 710.5 | 672.7 | 633.0 | 593.9 | 558.5 | 517.3 | 477.9 | 444.1 | 410.5 | 375.7 |
| 33°   | 745.0 | 703.5 | 665.3 | 625.7 | 586.9 | 551.2 | 510.0 | 470.9 | 437.0 | 403.2 | 368.7 |
| 34°   | 736.4 | 694.6 | 656.2 | 617.1 | 578.0 | 542.3 | 501.1 | 462.4 | 428.5 | 394.9 | 360.7 |
| 35°   | 724.8 | 682.7 | 644.6 | 606.1 | 567.1 | 531.7 | 490.8 | 452.3 | 419.0 | 385.8 | 351.9 |
| 36°   | 711.4 | 669.9 | 631.5 | 593.3 | 554.5 | 519.4 | 479.5 | 441.3 | 408.4 | 375.4 | 342.1 |
| 37°   | 696.5 | 655.0 | 617.1 | 579.6 | 541.4 | 506.6 | 467.3 | 429.7 | 397.4 | 364.7 | 332.1 |
| 38°   | 679.1 | 637.9 | 600.6 | 564.0 | 526.5 | 492.3 | 453.8 | 416.9 | 385.2 | 353.1 | 321.1 |
| 39°   | 658.9 | 618.6 | 582.0 | 546.6 | 510.0 | 476.4 | 438.9 | 402.9 | 371.7 | 340.6 | 309.2 |
| 40°   | 637.3 | 598.2 | 562.5 | 528.0 | 492.3 | 459.6 | 423.0 | 388.2 | 358.0 | 327.5 | 297.0 |
| 42.5° | 578.0 | 541.4 | 508.5 | 477.6 | 444.7 | 414.5 | 381.5 | 349.5 | 321.4 | 293.3 | 265.2 |
| 45°   | 513.0 | 479.8 | 450.2 | 423.0 | 393.1 | 366.2 | 336.6 | 307.6 | 282.3 | 256.7 | 231.6 |
| 47.5° | 439.5 | 410.2 | 384.5 | 361.7 | 335.7 | 312.2 | 286.9 | 261.9 | 239.6 | 217.3 | 195.3 |
| 50°   | 356.8 | 333.0 | 312.8 | 294.5 | 273.8 | 254.5 | 234.1 | 213.6 | 195.3 | 176.4 | 158.1 |
| 51°   | 322.9 | 301.5 | 283.2 | 267.7 | 248.4 | 231.3 | 213.0 | 194.4 | 177.6 | 160.5 | 143.4 |
| 52°   | 289.3 | 270.7 | 254.8 | 241.1 | 224.3 | 209.1 | 192.6 | 175.8 | 160.5 | 145.0 | 129.1 |
| 53°   | 257.3 | 241.1 | 227.4 | 215.8 | 201.1 | 187.7 | 173.0 | 158.4 | 144.4 | 130.3 | 116.0 |
| 54°   | 227.1 | 213.3 | 201.7 | 192.0 | 179.2 | 167.2 | 154.7 | 141.6 | 129.1 | 116.0 | 102.9 |
| 55°   | 199.0 | 187.4 | 177.6 | 169.4 | 158.4 | 148.0 | 137.3 | 125.7 | 114.4 | 102.5 | 92.5  |
| 57.5° | 139.5 | 131.8 | 125.4 | 120.2 | 112.9 | 107.7 | 98.6  | 90.6  | 83.6  | 73.2  | 65.6  |
| 60°   | 94.0  | 88.8  | 84.8  | 81.8  | 76.9  | 74.2  | 67.8  | 62.0  | 57.4  | 49.7  | 44.3  |
| 61°   | 79.0  | 74.8  | 71.4  | 69.0  | 65.0  | 62.6  | 57.1  | 52.5  | 48.2  | 41.8  | 36.9  |
| 62°   | 65.6  | 62.0  | 60.7  | 57.4  | 54.0  | 52.2  | 47.6  | 43.6  | 40.3  | 34.5  | 30.5  |
| 63°   | 53.7  | 50.7  | 49.7  | 47.0  | 44.3  | 43.0  | 39.1  | 36.0  | 33.0  | 28.1  | 25.0  |
| 64°   | 43.3  | 40.9  | 40.3  | 38.1  | 36.0  | 34.8  | 31.7  | 29.0  | 26.6  | 22.6  | 20.1  |
| 65°   | 34.5  | 33.6  | 32.0  | 30.5  | 28.7  | 27.8  | 25.3  | 23.2  | 21.1  | 18.0  | 16.2  |
| 66°   | 27.2  | 26.6  | 25.0  | 23.8  | 22.3  | 21.7  | 19.5  | 18.0  | 16.5  | 14.0  | 12.8  |





TEST NUMBER: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 72.5° | 4.3   | 4.3 | 4.0   | 4.0 | 3.4   | 3.4 | 3.1   | 2.7 | 2.7   | 2.4 | 2.4   |
| 75°   | 2.1   | 2.1 | 2.1   | 2.1 | 1.8   | 1.8 | 1.8   | 1.8 | 1.5   | 1.5 | 1.5   |
| 77.5° | 1.5   | 1.5 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   |
| 80°   | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   |
| 82.5° | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   |
| 85°   | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   |
| 87.5° | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.6   | 0.6 | 0.6   |
| 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: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 | 145.3 |
| 2.5°  | 166.9 | 164.2 | 163.0 | 162.1 | 160.2 | 158.7 | 156.6 | 155.3 | 152.6 | 152.9 | 149.5 |
| 5°    | 191.7 | 186.8 | 183.7 | 180.4 | 176.7 | 173.4 | 169.1 | 166.0 | 161.4 | 159.9 | 154.7 |
| 7.5°  | 217.9 | 210.3 | 205.1 | 199.0 | 193.2 | 187.4 | 180.7 | 175.5 | 169.4 | 165.4 | 158.4 |
| 10°   | 243.9 | 234.4 | 224.9 | 216.1 | 207.5 | 199.3 | 190.1 | 183.1 | 174.6 | 168.8 | 160.2 |
| 12.5° | 270.7 | 256.7 | 245.1 | 233.5 | 221.9 | 211.2 | 199.6 | 189.8 | 178.8 | 171.5 | 161.1 |
| 15°   | 297.3 | 279.6 | 264.9 | 250.0 | 235.6 | 221.9 | 207.8 | 195.9 | 183.1 | 173.7 | 161.4 |
| 17.5° | 320.5 | 299.4 | 281.4 | 262.8 | 246.3 | 230.1 | 213.3 | 199.6 | 184.9 | 174.0 | 160.5 |
| 20°   | 338.5 | 314.4 | 293.6 | 272.2 | 253.3 | 234.7 | 216.4 | 201.1 | 184.9 | 172.7 | 158.1 |
| 22.5° | 351.0 | 324.7 | 301.5 | 278.3 | 257.3 | 237.4 | 217.3 | 201.1 | 184.0 | 170.9 | 156.3 |
| 25°   | 359.5 | 331.7 | 306.7 | 282.0 | 259.7 | 238.7 | 217.9 | 200.8 | 183.4 | 170.3 | 155.0 |
| 26°   | 361.4 | 333.0 | 307.6 | 282.3 | 259.7 | 238.4 | 217.3 | 200.2 | 182.8 | 169.7 | 154.4 |
| 27°   | 362.0 | 333.3 | 307.3 | 282.0 | 259.1 | 237.4 | 216.4 | 199.3 | 181.6 | 168.5 | 153.5 |
| 28°   | 361.0 | 332.4 | 306.1 | 280.5 | 257.6 | 235.6 | 214.6 | 197.5 | 179.8 | 166.9 | 151.7 |
| 29°   | 358.9 | 329.9 | 303.7 | 278.0 | 255.1 | 232.9 | 211.8 | 195.0 | 177.3 | 164.5 | 149.5 |
| 30°   | 355.2 | 326.3 | 300.0 | 274.1 | 251.2 | 229.2 | 208.1 | 191.4 | 174.0 | 161.1 | 146.2 |
| 31°   | 350.4 | 321.7 | 295.4 | 269.5 | 246.6 | 224.9 | 203.9 | 187.4 | 170.0 | 157.5 | 142.5 |
| 32°   | 344.3 | 316.5 | 289.6 | 264.0 | 241.1 | 219.7 | 199.0 | 182.5 | 165.4 | 152.9 | 138.3 |
| 33°   | 337.2 | 310.1 | 283.2 | 257.9 | 235.6 | 214.2 | 193.5 | 177.3 | 160.8 | 148.3 | 134.0 |
| 34°   | 329.6 | 303.1 | 276.2 | 251.5 | 229.2 | 208.1 | 188.0 | 172.1 | 155.7 | 143.4 | 129.7 |
| 35°   | 321.1 | 295.1 | 268.6 | 243.9 | 222.5 | 201.7 | 181.9 | 166.3 | 150.2 | 138.3 | 124.8 |
| 36°   | 311.9 | 286.6 | 260.3 | 237.1 | 215.2 | 194.7 | 175.8 | 160.2 | 144.4 | 132.8 | 119.6 |
| 37°   | 302.4 | 277.7 | 252.1 | 229.5 | 207.8 | 188.0 | 169.4 | 154.1 | 138.9 | 127.6 | 114.8 |
| 38°   | 292.1 | 268.3 | 242.9 | 221.3 | 199.9 | 180.7 | 162.4 | 147.7 | 133.1 | 122.1 | 109.6 |
| 39°   | 281.1 | 257.0 | 233.5 | 212.4 | 191.7 | 173.0 | 155.3 | 141.3 | 126.7 | 116.3 | 104.1 |
| 40°   | 269.8 | 246.3 | 223.7 | 203.3 | 183.1 | 165.4 | 148.0 | 134.3 | 120.6 | 110.2 | 98.6  |
| 42.5° | 240.5 | 219.1 | 198.1 | 179.8 | 160.8 | 144.7 | 128.8 | 116.3 | 103.8 | 94.6  | 84.2  |
| 45°   | 209.4 | 190.4 | 171.2 | 154.7 | 137.6 | 123.0 | 109.0 | 97.7  | 86.4  | 78.7  | 69.9  |
| 47.5° | 177.6 | 159.3 | 142.5 | 127.9 | 114.1 | 100.1 | 88.2  | 78.4  | 69.3  | 63.2  | 56.8  |
| 50°   | 141.6 | 128.2 | 113.5 | 101.3 | 88.5  | 78.1  | 68.1  | 61.0  | 54.3  | 50.4  | 45.5  |
| 51°   | 128.2 | 115.7 | 102.2 | 90.9  | 79.0  | 69.6  | 61.0  | 54.9  | 49.1  | 45.8  | 41.5  |
| 52°   | 116.9 | 103.8 | 91.3  | 80.9  | 71.1  | 62.0  | 54.6  | 49.4  | 44.6  | 41.5  | 37.5  |
| 53°   | 103.2 | 92.8  | 81.2  | 71.7  | 62.9  | 54.9  | 48.8  | 44.3  | 40.0  | 37.5  | 34.2  |
| 54°   | 91.6  | 82.1  | 71.4  | 62.9  | 55.5  | 48.8  | 43.3  | 39.7  | 36.0  | 33.6  | 30.8  |
| 55°   | 80.6  | 73.2  | 62.3  | 54.9  | 48.8  | 43.0  | 38.8  | 35.4  | 32.0  | 30.2  | 27.5  |
| 57.5° | 56.5  | 50.1  | 43.3  | 39.1  | 35.1  | 31.4  | 28.4  | 25.9  | 23.8  | 22.6  | 20.4  |
| 60°   | 37.5  | 33.6  | 29.6  | 26.9  | 24.4  | 22.3  | 20.1  | 18.3  | 16.8  | 16.2  | 14.6  |
| 61°   | 31.4  | 28.4  | 25.0  | 23.2  | 21.1  | 18.9  | 17.1  | 15.9  | 14.6  | 14.0  | 12.8  |
| 62°   | 26.9  | 23.8  | 21.1  | 19.5  | 17.7  | 16.2  | 14.6  | 13.4  | 12.5  | 11.9  | 11.0  |
| 63°   | 22.0  | 19.8  | 17.7  | 16.5  | 15.0  | 13.4  | 12.5  | 11.3  | 10.7  | 10.1  | 9.2   |
| 64°   | 18.0  | 16.2  | 14.6  | 13.4  | 12.5  | 11.0  | 10.4  | 9.5   | 8.5   | 8.5   | 7.6   |
| 65°   | 14.6  | 13.1  | 11.9  | 11.0  | 10.1  | 9.2   | 8.5   | 7.6   | 7.0   | 6.7   | 6.1   |
| 66°   | 11.6  | 10.4  | 9.5   | 8.9   | 7.9   | 7.3   | 6.7   | 6.1   | 5.5   | 5.5   | 4.9   |



TEST NUMBER: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 72.5° | 2.1 | 2.1   | 2.1 | 1.8   | 1.8 | 1.8   | 1.8 | 1.5   | 1.5 | 1.5   | 1.5 |
| 75°   | 1.5 | 1.5   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 77.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 |
| 80°   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 |
| 82.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 |
| 85°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.9   | 0.9 |
| 87.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 |
| 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: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°   | 87.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 145.3 | 145.3 | 145.3 | 145.3 | 145.3  | 145.3 | 145.3  | 145.3 |
| 2.5°  | 148.6 | 148.0 | 144.4 | 143.1 | 130.6  | 119.9 | 115.7  | 112.9 |
| 5°    | 152.3 | 149.9 | 144.7 | 142.2 | 118.7  | 101.9 | 94.3   | 90.9  |
| 7.5°  | 154.4 | 150.2 | 143.1 | 139.5 | 107.1  | 87.0  | 77.5   | 74.2  |
| 10°   | 154.1 | 148.6 | 140.4 | 135.2 | 96.4   | 74.8  | 65.3   | 62.0  |
| 12.5° | 153.8 | 146.8 | 137.3 | 130.9 | 87.6   | 65.9  | 56.2   | 53.1  |
| 15°   | 152.9 | 144.4 | 134.0 | 126.7 | 80.0   | 58.6  | 49.7   | 47.0  |
| 17.5° | 150.5 | 141.3 | 129.7 | 121.8 | 73.6   | 53.1  | 45.5   | 42.7  |
| 20°   | 147.4 | 137.3 | 125.7 | 117.5 | 69.6   | 51.0  | 44.6   | 42.7  |
| 22.5° | 145.0 | 134.6 | 123.0 | 115.1 | 70.8   | 57.4  | 57.1   | 58.3  |
| 25°   | 144.1 | 134.0 | 122.4 | 115.1 | 76.9   | 69.3  | 73.2   | 75.4  |
| 26°   | 143.4 | 133.7 | 122.4 | 115.1 | 78.7   | 72.3  | 76.0   | 78.4  |
| 27°   | 142.5 | 132.8 | 121.8 | 114.4 | 79.7   | 73.9  | 77.2   | 79.0  |
| 28°   | 141.0 | 131.2 | 120.2 | 113.5 | 79.7   | 73.9  | 76.6   | 78.1  |
| 29°   | 138.9 | 129.4 | 118.4 | 111.7 | 78.7   | 72.6  | 74.8   | 76.0  |
| 30°   | 135.8 | 126.4 | 115.7 | 109.0 | 76.6   | 70.8  | 72.0   | 72.9  |
| 31°   | 132.2 | 123.0 | 112.3 | 105.9 | 74.5   | 68.4  | 69.3   | 69.9  |
| 32°   | 128.2 | 119.0 | 108.6 | 102.5 | 71.7   | 65.6  | 66.2   | 66.5  |
| 33°   | 123.9 | 115.1 | 105.0 | 98.9  | 69.3   | 63.2  | 63.2   | 63.5  |
| 34°   | 119.6 | 110.8 | 101.6 | 95.2  | 66.8   | 61.0  | 60.4   | 60.7  |
| 35°   | 115.4 | 106.5 | 97.7  | 91.6  | 64.4   | 58.6  | 58.0   | 58.0  |
| 36°   | 110.5 | 101.9 | 93.4  | 87.6  | 62.0   | 56.8  | 55.5   | 55.5  |
| 37°   | 105.9 | 97.7  | 89.4  | 83.6  | 59.2   | 54.6  | 53.4   | 53.1  |
| 38°   | 101.0 | 93.1  | 85.1  | 79.7  | 56.8   | 52.5  | 51.3   | 51.0  |
| 39°   | 96.1  | 88.5  | 80.9  | 75.7  | 54.3   | 50.4  | 49.4   | 48.8  |
| 40°   | 90.9  | 83.6  | 76.6  | 71.4  | 51.9   | 47.9  | 47.3   | 46.7  |
| 42.5° | 77.5  | 71.1  | 65.3  | 61.6  | 45.8   | 42.1  | 41.2   | 41.5  |
| 45°   | 64.4  | 59.5  | 54.9  | 52.5  | 39.7   | 36.3  | 35.4   | 35.4  |
| 47.5° | 52.8  | 49.1  | 46.1  | 43.6  | 33.3   | 30.2  | 29.3   | 28.1  |
| 50°   | 42.7  | 40.0  | 37.5  | 36.0  | 27.5   | 24.4  | 22.6   | 21.4  |
| 51°   | 39.1  | 36.6  | 34.5  | 33.0  | 25.0   | 22.0  | 19.8   | 18.6  |
| 52°   | 35.4  | 33.3  | 31.4  | 30.2  | 22.6   | 19.5  | 17.4   | 16.2  |
| 53°   | 32.0  | 30.2  | 28.7  | 27.5  | 20.4   | 17.4  | 15.3   | 14.0  |
| 54°   | 29.0  | 27.2  | 25.9  | 24.7  | 18.3   | 15.3  | 12.8   | 11.9  |
| 55°   | 26.2  | 24.4  | 23.5  | 22.3  | 16.2   | 13.1  | 10.7   | 10.1  |
| 57.5° | 19.5  | 18.3  | 17.7  | 16.8  | 11.9   | 8.5   | 6.4    | 5.5   |
| 60°   | 14.0  | 13.1  | 12.8  | 12.2  | 7.6    | 4.6   | 3.4    | 2.7   |
| 61°   | 12.2  | 11.6  | 11.0  | 10.4  | 6.1    | 3.7   | 2.7    | 2.4   |
| 62°   | 10.4  | 9.8   | 9.2   | 8.9   | 4.9    | 3.1   | 2.4    | 2.1   |
| 63°   | 8.5   | 8.2   | 7.6   | 7.3   | 4.0    | 2.4   | 2.1    | 1.8   |
| 64°   | 7.0   | 6.7   | 6.1   | 5.8   | 3.4    | 2.1   | 1.8    | 1.5   |
| 65°   | 5.8   | 5.5   | 4.9   | 4.6   | 2.7    | 1.8   | 1.5    | 1.2   |
| 66°   | 4.6   | 4.3   | 4.0   | 3.7   | 2.4    | 1.8   | 1.2    | 1.2   |



TEST NUMBER: P175543

CATALOG NUMBER: LDA6A10827D010TE LAR35FL 6LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85° | 87.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 72.5° | 1.5   | 1.5 | 1.2   | 1.2 | 1.2    | 1.2  | 1.2    | 0.9  |
| 75°   | 1.2   | 1.2 | 1.2   | 1.2 | 1.2    | 1.2  | 0.9    | 0.9  |
| 77.5° | 0.9   | 0.9 | 0.9   | 0.9 | 1.2    | 0.9  | 0.9    | 0.9  |
| 80°   | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.6  |
| 82.5° | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.9    | 0.6  |
| 85°   | 0.9   | 0.9 | 0.9   | 0.9 | 0.9    | 0.9  | 0.6    | 0.6  |
| 87.5° | 0.6   | 0.9 | 0.9   | 0.9 | 0.9    | 0.6  | 0.3    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |



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









|       |      |      |      |      |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 67.5° | 22.0 | 22.6 | 22.9 | 22.9 | 22.6 | 21.4 | 21.7 | 21.1 | 20.4 | 19.8 | 19.2 |
| 70°   | 11.0 | 11.3 | 11.6 | 11.6 | 11.3 | 10.7 | 11.0 | 10.7 | 10.4 | 10.1 | 9.5  |





|       |      |      |      |      |      |      |      |      |      |     |     |
|-------|------|------|------|------|------|------|------|------|------|-----|-----|
| 67.5° | 18.6 | 18.0 | 17.1 | 16.2 | 15.0 | 14.6 | 13.1 | 11.9 | 11.0 | 9.5 | 8.9 |
| 70°   | 9.2  | 8.9  | 8.2  | 7.6  | 7.3  | 7.0  | 6.1  | 5.8  | 5.2  | 4.6 | 4.3 |





|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 7.9 | 7.0 | 6.4 | 6.1 | 5.5 | 5.2 | 4.9 | 4.3 | 4.0 | 4.0 | 3.7 |
| 70°   | 4.0 | 3.7 | 3.4 | 3.4 | 3.1 | 2.7 | 2.7 | 2.4 | 2.4 | 2.4 | 2.1 |







|       |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 3.4 | 3.4 | 3.1 | 2.7 | 1.8 | 1.5 | 1.2 | 1.2 |
| 70°   | 2.1 | 2.1 | 1.8 | 1.8 | 1.5 | 1.2 | 1.2 | 0.9 |



(END OF REPORT)