

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1334014

Luminaire Tested: P3A02R159030DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R159030DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

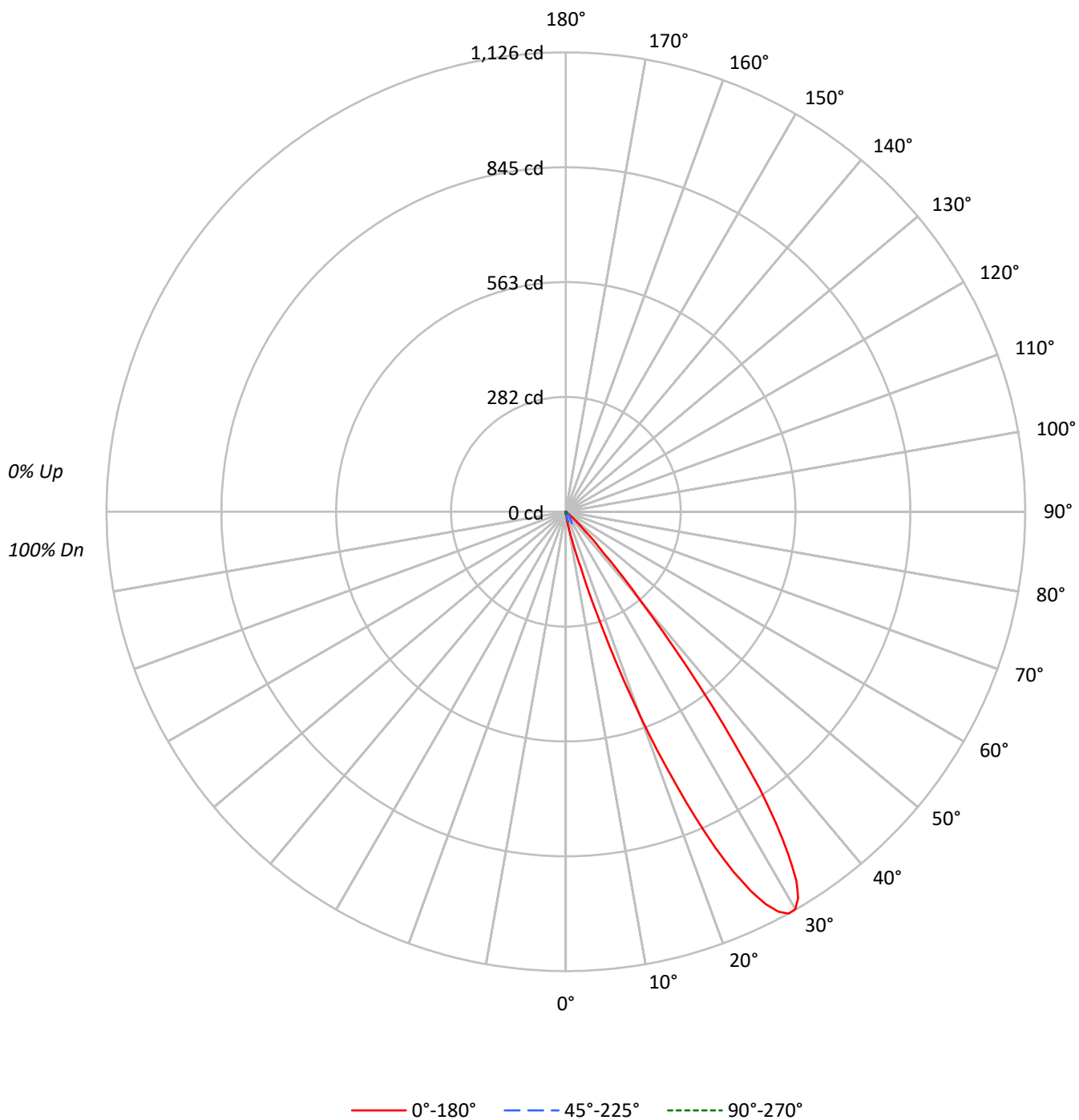
Lumens per Lamp: N/A  
Luminaire Lumens: 123.0 lumens  
Efficiency: N/A  
Efficacy: 34.2 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: 24 FT

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CATALOG NUMBER: P3A02R159030DE010 E3A301LI

### Luminous Intensity Polar Plot



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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 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 899    | 899  | 899  | 899  | 899  |
| 5°  | 1915   | 1431 | 836  | 440  | 374  |
| 10° | 8528   | 2694 | 668  | 178  | 134  |
| 15° | 32236  | 6220 | 454  | 91   | 45   |
| 20° | 124004 | 8774 | 280  | 23   | 23   |
| 25° | 235780 | 8226 | 145  | 0    | 0    |
| 30° | 284829 | 6634 | 51   | 0    | 0    |
| 35° | 222158 | 4524 | 27   | 0    | 0    |
| 40° | 81066  | 2233 | 29   | 0    | 29   |
| 45° | 20808  | 682  | 31   | 0    | 62   |
| 50° | 3514   | 68   | 34   | 34   | 136  |
| 55° | 459    | 0    | 76   | 153  | 229  |
| 60° | 44     | 44   | 175  | 219  | 307  |
| 65° | 52     | 52   | 259  | 311  | 363  |
| 70° | 64     | 64   | 321  | 321  | 385  |
| 75° | 85     | 85   | 424  | 339  | 424  |
| 80° | 0      | 126  | 505  | 253  | 505  |
| 85° | 0      | 252  | 1006 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20808 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.5       |
| 10°-20°   | 9.4    | 7.7       |
| 20°-30°   | 52.3   | 42.5      |
| 30°-40°   | 50.5   | 41.1      |
| 40°-50°   | 8.8    | 7.1       |
| 50°-60°   | 0.6    | 0.5       |
| 60°-70°   | 0.4    | 0.3       |
| 70°-80°   | 0.3    | 0.2       |
| 80°-90°   | 0.1    | 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°    | 62.3   | 50.6      |
| 0°-40°    | 112.8  | 91.7      |
| 0°-60°    | 122.2  | 99.3      |
| 0°-90°    | 123.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 123.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 4   | 4   | 4   | 4    | 4    |      |
| 5°  | 9   | 6   | 4   | 2    | 2    | 2    |
| 15° | 142 | 27  | 2   | 0    | 0    | 63   |
| 25° | 974 | 34  | 1   | 0    | 0    | 436  |
| 35° | 830 | 17  | 0   | 0    | 0    | 477  |
| 45° | 67  | 2   | 0   | 0    | 0    | 72   |
| 55° | 1   | 0   | 0   | 0    | 1    | 2    |
| 65° | 0   | 0   | 0   | 1    | 1    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334014

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1  |
| 2.5°  | 6.0    | 5.7    | 5.9    | 5.9    | 5.9   | 5.9   | 5.9   | 5.6   | 5.6   | 5.7   | 5.1  |
| 5°    | 8.7    | 8.7    | 8.6    | 8.7    | 8.7   | 8.6   | 8.4   | 8.3   | 8.3   | 8.0   | 6.5  |
| 7.5°  | 17.5   | 17.2   | 17.2   | 17.0   | 15.8  | 15.4  | 15.2  | 14.6  | 13.5  | 13.3  | 8.4  |
| 10°   | 38.3   | 38.4   | 37.6   | 36.5   | 36.4  | 34.6  | 34.0  | 32.9  | 30.9  | 28.8  | 12.1 |
| 12.5° | 69.5   | 68.0   | 65.9   | 66.0   | 62.6  | 61.4  | 58.6  | 55.6  | 52.5  | 49.3  | 19.9 |
| 15°   | 142.0  | 137.6  | 140.2  | 133.8  | 126.5 | 118.2 | 109.8 | 99.3  | 90.3  | 80.8  | 27.4 |
| 17.5° | 299.1  | 303.4  | 296.1  | 268.5  | 251.5 | 231.5 | 203.4 | 176.2 | 153.0 | 134.4 | 33.5 |
| 20°   | 531.4  | 537.7  | 512.9  | 488.9  | 447.6 | 402.6 | 355.7 | 302.6 | 251.7 | 207.7 | 37.6 |
| 21°   | 628.4  | 624.6  | 614.4  | 575.9  | 528.2 | 476.1 | 418.6 | 360.0 | 298.4 | 241.2 | 37.9 |
| 22°   | 722.2  | 724.0  | 700.3  | 660.0  | 610.4 | 552.7 | 482.5 | 410.2 | 343.7 | 268.5 | 37.3 |
| 23°   | 815.6  | 821.4  | 790.0  | 752.2  | 689.9 | 624.7 | 543.6 | 465.4 | 383.4 | 299.7 | 36.1 |
| 24°   | 902.1  | 898.2  | 877.0  | 829.4  | 762.8 | 686.4 | 602.2 | 507.4 | 415.9 | 326.4 | 35.2 |
| 25°   | 974.5  | 974.1  | 940.8  | 894.5  | 818.3 | 733.7 | 640.8 | 541.8 | 443.8 | 344.5 | 34.0 |
| 26°   | 1033.8 | 1024.1 | 997.9  | 941.4  | 866.1 | 776.9 | 672.5 | 566.8 | 459.4 | 353.6 | 32.8 |
| 27°   | 1079.5 | 1072.5 | 1037.3 | 978.6  | 900.0 | 801.3 | 692.9 | 579.2 | 466.6 | 356.6 | 31.2 |
| 28°   | 1110.2 | 1102.7 | 1065.2 | 1004.7 | 918.7 | 816.6 | 703.7 | 584.5 | 466.6 | 353.7 | 29.8 |
| 29°   | 1126.1 | 1115.8 | 1078.5 | 1013.7 | 923.0 | 818.4 | 701.0 | 579.3 | 459.3 | 344.8 | 28.1 |
| 30°   | 1124.9 | 1112.1 | 1073.0 | 1005.5 | 910.2 | 803.7 | 686.3 | 560.8 | 442.8 | 331.7 | 26.2 |
| 31°   | 1105.5 | 1091.2 | 1047.5 | 978.0  | 883.7 | 775.9 | 658.5 | 535.9 | 420.2 | 314.6 | 24.3 |
| 32°   | 1066.2 | 1048.0 | 1005.4 | 936.1  | 843.0 | 734.4 | 618.2 | 497.5 | 386.3 | 289.5 | 22.3 |
| 33°   | 1002.1 | 983.7  | 938.0  | 873.1  | 788.0 | 681.8 | 564.7 | 456.2 | 347.8 | 259.8 | 20.6 |
| 34°   | 921.8  | 905.0  | 865.7  | 800.2  | 718.6 | 615.1 | 503.2 | 399.1 | 307.9 | 230.2 | 18.8 |
| 35°   | 829.9  | 803.2  | 767.5  | 715.7  | 636.2 | 532.1 | 436.8 | 346.0 | 266.7 | 199.2 | 16.9 |
| 36°   | 705.6  | 710.4  | 672.5  | 609.1  | 543.2 | 461.6 | 370.2 | 288.5 | 223.0 | 169.8 | 15.2 |
| 37°   | 595.4  | 587.8  | 563.8  | 514.7  | 457.3 | 376.3 | 310.2 | 244.6 | 187.6 | 143.6 | 13.4 |
| 38°   | 480.3  | 481.9  | 458.4  | 420.7  | 363.7 | 309.4 | 249.7 | 200.9 | 157.0 | 122.2 | 11.7 |
| 39°   | 375.9  | 374.6  | 368.3  | 333.3  | 281.8 | 246.1 | 202.3 | 166.6 | 130.8 | 103.0 | 9.9  |
| 40°   | 283.2  | 285.4  | 270.5  | 249.5  | 219.4 | 190.1 | 161.2 | 132.8 | 108.2 | 86.9  | 7.8  |
| 42.5° | 137.7  | 141.1  | 131.3  | 125.9  | 112.6 | 101.1 | 85.3  | 69.6  | 59.2  | 51.2  | 3.5  |
| 45°   | 67.1   | 65.2   | 64.4   | 61.7   | 58.6  | 52.4  | 46.4  | 39.8  | 34.8  | 30.0  | 2.2  |
| 47.5° | 34.3   | 33.4   | 33.4   | 32.3   | 31.2  | 29.2  | 26.2  | 24.0  | 21.7  | 18.7  | 0.8  |
| 50°   | 10.3   | 10.2   | 10.1   | 10.2   | 9.8   | 10.2  | 10.4  | 10.5  | 9.6   | 9.5   | 0.2  |
| 52.5° | 4.1    | 4.2    | 4.1    | 4.4    | 4.4   | 4.3   | 4.4   | 4.3   | 4.2   | 3.7   | 0.0  |
| 55°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2   | 1.2   | 1.3   | 1.4   | 1.3   | 1.4   | 0.0  |
| 57.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.0  |
| 60°   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.1  |
| 62.5° | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 65°   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 67.5° | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 70°   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 72.5° | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 75°   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 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: P1334014

CATALOG NUMBER: P3A02R159030DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 4.1   | 4.1 | 4.1    | 4.1  | 4.1    | 4.1  |
| 2.5°  | 4.8   | 4.2 | 3.5    | 2.9  | 2.6    | 2.5  |
| 5°    | 5.1   | 3.8 | 2.6    | 2.0  | 1.8    | 1.7  |
| 7.5°  | 5.5   | 3.5 | 2.0    | 1.4  | 1.1    | 1.0  |
| 10°   | 5.7   | 3.0 | 1.6    | 0.8  | 0.6    | 0.6  |
| 12.5° | 5.7   | 2.4 | 1.1    | 0.5  | 0.4    | 0.4  |
| 15°   | 5.6   | 2.0 | 0.7    | 0.4  | 0.2    | 0.2  |
| 17.5° | 5.5   | 1.6 | 0.5    | 0.2  | 0.1    | 0.2  |
| 20°   | 5.1   | 1.2 | 0.2    | 0.1  | 0.1    | 0.1  |
| 21°   | 5.0   | 1.1 | 0.2    | 0.1  | 0.1    | 0.1  |
| 22°   | 4.8   | 1.0 | 0.1    | 0.0  | 0.1    | 0.1  |
| 23°   | 4.5   | 0.7 | 0.1    | 0.0  | 0.0    | 0.0  |
| 24°   | 4.2   | 0.6 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.9   | 0.6 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.7   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 3.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 3.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.9   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.6   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.1   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.7   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.6   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.4   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 37°   | 0.4   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 38°   | 0.2   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 39°   | 0.1   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 40°   | 0.1   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 42.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.2  |
| 45°   | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.2  |
| 47.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.2    | 0.2  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.2    | 0.4  |
| 52.5° | 0.0   | 0.2 | 0.1    | 0.2  | 0.4    | 0.5  |
| 55°   | 0.1   | 0.2 | 0.2    | 0.4  | 0.5    | 0.6  |
| 57.5° | 0.1   | 0.4 | 0.4    | 0.5  | 0.6    | 0.6  |
| 60°   | 0.2   | 0.4 | 0.5    | 0.5  | 0.7    | 0.7  |
| 62.5° | 0.2   | 0.5 | 0.5    | 0.5  | 0.7    | 0.7  |
| 65°   | 0.2   | 0.5 | 0.5    | 0.6  | 0.7    | 0.7  |
| 67.5° | 0.2   | 0.5 | 0.5    | 0.5  | 0.6    | 0.7  |
| 70°   | 0.2   | 0.5 | 0.4    | 0.5  | 0.6    | 0.6  |
| 72.5° | 0.2   | 0.5 | 0.4    | 0.4  | 0.5    | 0.6  |
| 75°   | 0.2   | 0.5 | 0.4    | 0.4  | 0.5    | 0.5  |
| 77.5° | 0.2   | 0.4 | 0.4    | 0.2  | 0.4    | 0.4  |
| 80°   | 0.2   | 0.4 | 0.2    | 0.2  | 0.4    | 0.4  |





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CATALOG NUMBER: P3A02R159030DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.2   | 0.4 | 0.2    | 0.1  | 0.2    | 0.2  |
| 85°   | 0.2   | 0.4 | 0.2    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.2   | 0.4 | 0.1    | 0.0  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)