

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: P1334002

Luminaire Tested: P3A02R159030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334002  
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: P3A02R159030D2WDE010 E3A301WMH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

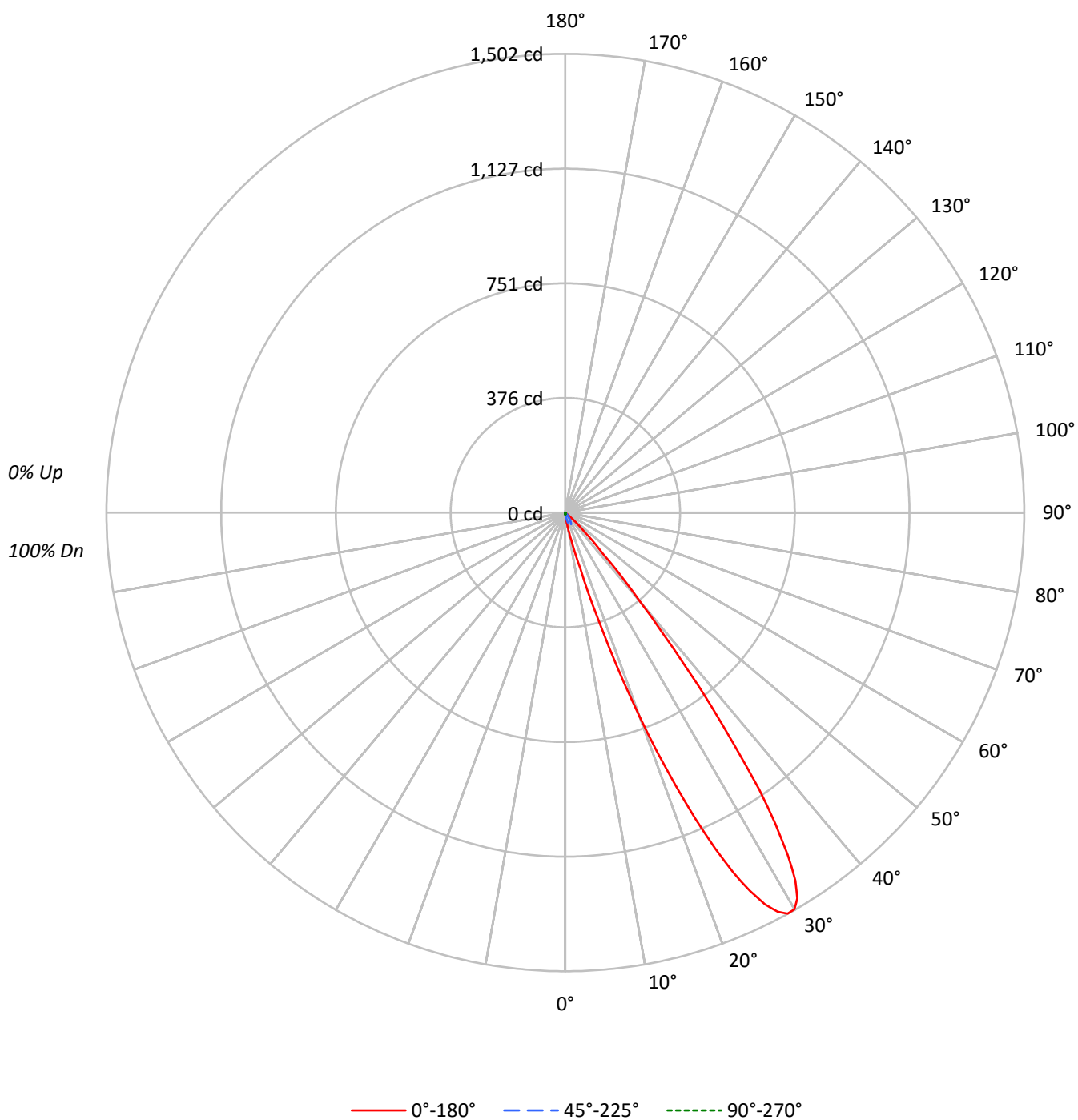
Lumens per Lamp: N/A  
Luminaire Lumens: 164.0 lumens  
Efficiency: N/A  
Efficacy: 22.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

TEST NUMBER: P1334002

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301WMH

### 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 | 98  | 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  | 52  | 48  | 70  | 59  | 52  | 47  | 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°  | 1184   | 1184  | 1184 | 1184 | 1184 |
| 5°  | 2553   | 1893  | 1123 | 594  | 484  |
| 10° | 11356  | 3585  | 891  | 245  | 178  |
| 15° | 42997  | 8286  | 613  | 114  | 68   |
| 20° | 165331 | 11691 | 373  | 47   | 47   |
| 25° | 314389 | 10960 | 194  | 0    | 0    |
| 30° | 379780 | 8837  | 76   | 0    | 0    |
| 35° | 296202 | 6023  | 54   | 0    | 0    |
| 40° | 108088 | 2977  | 57   | 0    | 57   |
| 45° | 27755  | 899   | 62   | 0    | 93   |
| 50° | 4674   | 102   | 68   | 68   | 171  |
| 55° | 612    | 0     | 115  | 191  | 306  |
| 60° | 88     | 88    | 219  | 263  | 439  |
| 65° | 104    | 104   | 311  | 415  | 519  |
| 70° | 128    | 128   | 385  | 385  | 513  |
| 75° | 169    | 169   | 508  | 424  | 508  |
| 80° | 0      | 253   | 631  | 379  | 631  |
| 85° | 0      | 503   | 1258 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27755 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.5       |
| 10°-20°   | 12.6   | 7.7       |
| 20°-30°   | 69.7   | 42.5      |
| 30°-40°   | 67.3   | 41.1      |
| 40°-50°   | 11.7   | 7.1       |
| 50°-60°   | 0.8    | 0.5       |
| 60°-70°   | 0.5    | 0.3       |
| 70°-80°   | 0.4    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 83.0   | 50.6      |
| 0°-40°    | 150.4  | 91.7      |
| 0°-60°    | 162.9  | 99.3      |
| 0°-90°    | 164.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 164.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 5    | 5   | 5   | 5    | 5    |      |
| 5°  | 12   | 9   | 5   | 3    | 2    | 2    |
| 15° | 189  | 36  | 3   | 0    | 0    | 84   |
| 25° | 1299 | 45  | 1   | 0    | 0    | 581  |
| 35° | 1106 | 22  | 0   | 0    | 0    | 636  |
| 45° | 90   | 3   | 0   | 0    | 0    | 96   |
| 55° | 2    | 0   | 0   | 0    | 1    | 3    |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 0    | 1    | 0    |
| 85° | 0    | 0   | 0   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334002

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4   | 5.4   | 5.4   | 5.4   | 5.4  |
| 2.5°  | 8.0    | 7.7    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8   | 7.5   | 7.5   | 7.7   | 6.9  |
| 5°    | 11.6   | 11.6   | 11.5   | 11.6   | 11.6   | 11.5   | 11.2  | 11.0  | 11.0  | 10.7  | 8.6  |
| 7.5°  | 23.3   | 23.0   | 23.0   | 22.7   | 21.1   | 20.6   | 20.3  | 19.5  | 18.0  | 17.7  | 11.2 |
| 10°   | 51.0   | 51.2   | 50.1   | 48.7   | 48.5   | 46.1   | 45.3  | 43.9  | 41.2  | 38.4  | 16.1 |
| 12.5° | 92.7   | 90.6   | 87.9   | 88.1   | 83.4   | 81.8   | 78.2  | 74.2  | 70.0  | 65.7  | 26.5 |
| 15°   | 189.4  | 183.5  | 187.0  | 178.4  | 168.6  | 157.6  | 146.4 | 132.4 | 120.4 | 107.7 | 36.5 |
| 17.5° | 398.8  | 404.6  | 394.8  | 358.0  | 335.3  | 308.7  | 271.2 | 235.0 | 204.0 | 179.2 | 44.7 |
| 20°   | 708.5  | 716.9  | 683.9  | 651.8  | 596.8  | 536.8  | 474.3 | 403.5 | 335.7 | 276.9 | 50.1 |
| 21°   | 837.9  | 832.8  | 819.2  | 767.8  | 704.3  | 634.8  | 558.2 | 480.0 | 397.9 | 321.6 | 50.6 |
| 22°   | 962.9  | 965.3  | 933.7  | 880.0  | 813.9  | 736.9  | 643.4 | 546.9 | 458.3 | 358.0 | 49.8 |
| 23°   | 1087.5 | 1095.2 | 1053.4 | 1003.0 | 919.9  | 832.9  | 724.7 | 620.6 | 511.1 | 399.6 | 48.2 |
| 24°   | 1202.9 | 1197.6 | 1169.4 | 1105.9 | 1017.0 | 915.2  | 802.9 | 676.6 | 554.5 | 435.2 | 46.9 |
| 25°   | 1299.4 | 1298.7 | 1254.4 | 1192.7 | 1091.0 | 978.2  | 854.4 | 722.4 | 591.7 | 459.3 | 45.3 |
| 26°   | 1378.3 | 1365.4 | 1330.5 | 1255.2 | 1154.8 | 1035.8 | 896.7 | 755.7 | 612.6 | 471.4 | 43.7 |
| 27°   | 1439.3 | 1430.0 | 1383.1 | 1304.8 | 1200.0 | 1068.4 | 923.8 | 772.3 | 622.2 | 475.4 | 41.6 |
| 28°   | 1480.3 | 1470.2 | 1420.3 | 1339.6 | 1224.9 | 1088.8 | 938.2 | 779.3 | 622.2 | 471.6 | 39.7 |
| 29°   | 1501.5 | 1487.8 | 1438.0 | 1351.5 | 1230.6 | 1091.2 | 934.7 | 772.4 | 612.4 | 459.8 | 37.5 |
| 30°   | 1499.9 | 1482.8 | 1430.7 | 1340.7 | 1213.6 | 1071.6 | 915.1 | 747.7 | 590.4 | 442.2 | 34.9 |
| 31°   | 1474.1 | 1454.9 | 1396.7 | 1304.0 | 1178.3 | 1034.6 | 878.1 | 714.5 | 560.3 | 419.4 | 32.4 |
| 32°   | 1421.6 | 1397.3 | 1340.5 | 1248.2 | 1124.1 | 979.2  | 824.3 | 663.3 | 515.1 | 386.1 | 29.7 |
| 33°   | 1336.1 | 1311.7 | 1250.7 | 1164.1 | 1050.7 | 909.0  | 753.0 | 608.3 | 463.8 | 346.3 | 27.4 |
| 34°   | 1229.0 | 1206.7 | 1154.2 | 1066.9 | 958.1  | 820.1  | 671.0 | 532.2 | 410.5 | 306.9 | 25.0 |
| 35°   | 1106.5 | 1070.9 | 1023.4 | 954.3  | 848.2  | 709.4  | 582.4 | 461.4 | 355.6 | 265.6 | 22.5 |
| 36°   | 940.8  | 947.1  | 896.7  | 812.2  | 724.3  | 615.5  | 493.6 | 384.6 | 297.4 | 226.4 | 20.3 |
| 37°   | 793.8  | 783.8  | 751.7  | 686.3  | 609.7  | 501.7  | 413.7 | 326.1 | 250.1 | 191.4 | 17.9 |
| 38°   | 640.4  | 642.6  | 611.2  | 560.9  | 485.0  | 412.5  | 332.9 | 267.9 | 209.3 | 162.9 | 15.6 |
| 39°   | 501.2  | 499.5  | 491.0  | 444.5  | 375.7  | 328.2  | 269.8 | 222.1 | 174.4 | 137.4 | 13.2 |
| 40°   | 377.6  | 380.5  | 360.7  | 332.6  | 292.6  | 253.5  | 214.9 | 177.1 | 144.2 | 115.8 | 10.4 |
| 42.5° | 183.6  | 188.1  | 175.0  | 167.8  | 150.1  | 134.8  | 113.7 | 92.8  | 79.0  | 68.3  | 4.6  |
| 45°   | 89.5   | 86.9   | 85.8   | 82.3   | 78.2   | 69.9   | 61.9  | 53.1  | 46.4  | 40.0  | 2.9  |
| 47.5° | 45.8   | 44.5   | 44.5   | 43.1   | 41.6   | 38.9   | 34.9  | 32.1  | 28.9  | 24.9  | 1.1  |
| 50°   | 13.7   | 13.6   | 13.4   | 13.6   | 13.1   | 13.6   | 13.9  | 14.0  | 12.8  | 12.6  | 0.3  |
| 52.5° | 5.4    | 5.6    | 5.4    | 5.9    | 5.9    | 5.7    | 5.9   | 5.7   | 5.6   | 4.9   | 0.0  |
| 55°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.8   | 1.9   | 1.8   | 1.9   | 0.0  |
| 57.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.0   | 0.2  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 75°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2  |



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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   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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: P1334002

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 5.4   | 5.4 | 5.4    | 5.4  | 5.4    | 5.4  |
| 2.5°  | 6.4   | 5.6 | 4.6    | 3.8  | 3.5    | 3.4  |
| 5°    | 6.9   | 5.1 | 3.5    | 2.7  | 2.4    | 2.2  |
| 7.5°  | 7.3   | 4.6 | 2.7    | 1.9  | 1.4    | 1.3  |
| 10°   | 7.7   | 4.0 | 2.1    | 1.1  | 0.8    | 0.8  |
| 12.5° | 7.7   | 3.2 | 1.4    | 0.6  | 0.5    | 0.5  |
| 15°   | 7.5   | 2.7 | 1.0    | 0.5  | 0.3    | 0.3  |
| 17.5° | 7.3   | 2.1 | 0.6    | 0.3  | 0.2    | 0.3  |
| 20°   | 6.9   | 1.6 | 0.3    | 0.2  | 0.2    | 0.2  |
| 21°   | 6.7   | 1.4 | 0.3    | 0.2  | 0.2    | 0.2  |
| 22°   | 6.4   | 1.3 | 0.2    | 0.0  | 0.2    | 0.2  |
| 23°   | 6.1   | 1.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 5.6   | 0.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 5.3   | 0.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 4.9   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 4.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 4.1   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 3.7   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.2   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 2.6   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 37°   | 0.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 38°   | 0.3   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 39°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 40°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 42.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.3  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.3  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.3    | 0.3  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.3    | 0.5  |
| 52.5° | 0.0   | 0.3 | 0.2    | 0.3  | 0.5    | 0.6  |
| 55°   | 0.2   | 0.3 | 0.3    | 0.5  | 0.6    | 0.8  |
| 57.5° | 0.2   | 0.5 | 0.5    | 0.6  | 0.8    | 0.8  |
| 60°   | 0.3   | 0.5 | 0.6    | 0.6  | 1.0    | 1.0  |
| 62.5° | 0.3   | 0.6 | 0.6    | 0.6  | 1.0    | 1.0  |
| 65°   | 0.3   | 0.6 | 0.6    | 0.8  | 1.0    | 1.0  |
| 67.5° | 0.3   | 0.6 | 0.6    | 0.6  | 0.8    | 1.0  |
| 70°   | 0.3   | 0.6 | 0.5    | 0.6  | 0.8    | 0.8  |
| 72.5° | 0.3   | 0.6 | 0.5    | 0.5  | 0.6    | 0.8  |
| 75°   | 0.3   | 0.6 | 0.5    | 0.5  | 0.6    | 0.6  |
| 77.5° | 0.3   | 0.5 | 0.5    | 0.3  | 0.5    | 0.5  |
| 80°   | 0.3   | 0.5 | 0.3    | 0.3  | 0.5    | 0.5  |



TEST NUMBER: P1334002

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.3   | 0.5 | 0.3    | 0.2  | 0.3    | 0.3  |
| 85°   | 0.3   | 0.5 | 0.3    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.3   | 0.5 | 0.2    | 0.0  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)