

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: P1335299

Luminaire Tested: P3A02R359027DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R359027DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

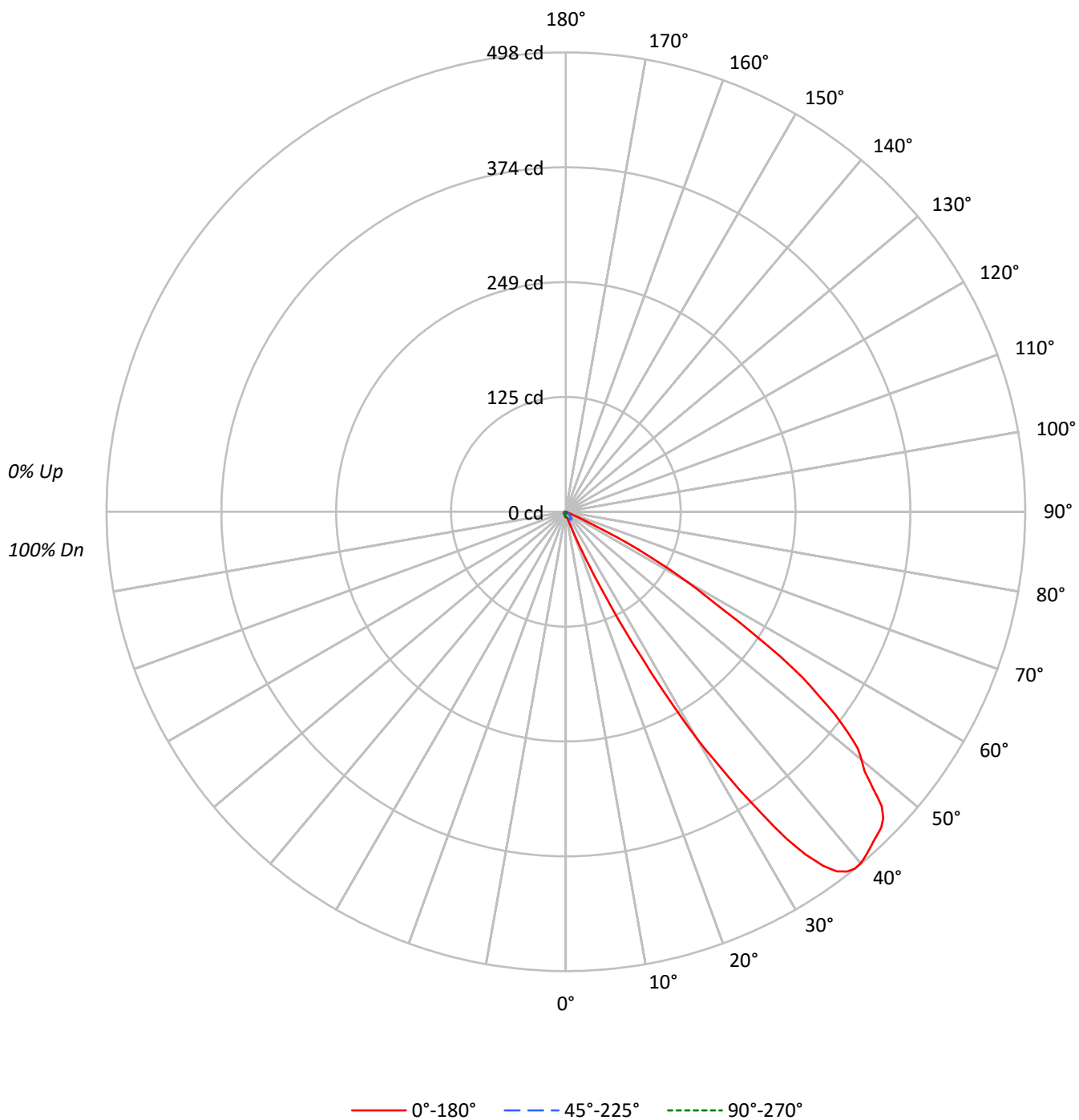
Lumens per Lamp: N/A  
Luminaire Lumens: 124.0 lumens  
Efficiency: N/A  
Efficacy: 34.4 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.42  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1335299

CATALOG NUMBER: P3A02R359027DE010 E3A451WH

### Luminous Intensity Polar Plot



TEST NUMBER: P1335299

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1250   | 1250 | 1250 | 1250 | 1250 |
| 5°  | 1365   | 1321 | 1233 | 1101 | 1079 |
| 10° | 1425   | 1291 | 1091 | 957  | 957  |
| 15° | 2043   | 1271 | 885  | 817  | 840  |
| 20° | 5087   | 1353 | 700  | 700  | 793  |
| 25° | 23638  | 1742 | 532  | 653  | 726  |
| 30° | 71884  | 2355 | 430  | 608  | 734  |
| 35° | 121479 | 2730 | 348  | 562  | 723  |
| 40° | 142381 | 2691 | 286  | 573  | 773  |
| 45° | 149969 | 1923 | 248  | 620  | 837  |
| 50° | 142733 | 1160 | 239  | 648  | 921  |
| 55° | 119623 | 459  | 268  | 726  | 1070 |
| 60° | 66968  | 88   | 307  | 833  | 1184 |
| 65° | 11571  | 52   | 311  | 934  | 1349 |
| 70° | 192    | 64   | 385  | 1026 | 1539 |
| 75° | 169    | 85   | 508  | 1101 | 1694 |
| 80° | 126    | 126  | 505  | 1263 | 2020 |
| 85° | 0      | 252  | 1006 | 1510 | 2264 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 151015 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.4       |
| 10°-20°   | 1.5    | 1.2       |
| 20°-30°   | 7.6    | 6.1       |
| 30°-40°   | 32.9   | 26.5      |
| 40°-50°   | 46.9   | 37.8      |
| 50°-60°   | 29.0   | 23.4      |
| 60°-70°   | 4.4    | 3.6       |
| 70°-80°   | 0.8    | 0.7       |
| 80°-90°   | 0.4    | 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°    | 9.6    | 7.7       |
| 0°-40°    | 42.4   | 34.2      |
| 0°-60°    | 118.4  | 95.5      |
| 0°-90°    | 124.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 124.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 6   | 6   | 6   | 6    | 6    |      |
| 5°  | 6   | 6   | 6   | 5    | 5    | 1    |
| 15° | 9   | 6   | 4   | 4    | 4    | 3    |
| 25° | 98  | 7   | 2   | 3    | 3    | 58   |
| 35° | 454 | 10  | 1   | 2    | 3    | 272  |
| 45° | 484 | 6   | 1   | 2    | 3    | 365  |
| 55° | 313 | 1   | 1   | 2    | 3    | 266  |
| 65° | 22  | 0   | 1   | 2    | 3    | 46   |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1335299

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°  | 45°  | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-----|--------|
| 0°    | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7  | 5.7  | 5.7   | 5.7 | 5.7    |
| 2.5°  | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9  | 5.9  | 5.9   | 5.7 | 5.6    |
| 5°    | 6.2   | 6.2   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0  | 6.0  | 5.8   | 5.6 | 5.3    |
| 7.5°  | 6.3   | 6.3   | 6.2   | 6.2   | 6.2   | 6.2   | 6.0  | 5.9  | 5.7   | 5.3 | 4.9    |
| 10°   | 6.4   | 6.4   | 6.4   | 6.4   | 6.3   | 6.2   | 6.0  | 5.8  | 5.5   | 4.9 | 4.6    |
| 12.5° | 7.2   | 7.2   | 7.1   | 6.8   | 6.6   | 6.4   | 6.2  | 5.7  | 5.0   | 4.5 | 4.1    |
| 15°   | 9.0   | 8.8   | 8.6   | 8.3   | 7.8   | 7.3   | 6.8  | 5.6  | 4.6   | 3.9 | 3.7    |
| 17.5° | 12.5  | 12.3  | 12.0  | 10.9  | 9.9   | 8.8   | 7.9  | 5.6  | 4.1   | 3.5 | 3.2    |
| 20°   | 21.8  | 21.9  | 19.6  | 16.9  | 14.7  | 12.2  | 10.0 | 5.8  | 3.7   | 3.0 | 2.9    |
| 22.5° | 45.6  | 43.8  | 38.2  | 31.7  | 24.2  | 18.7  | 14.1 | 6.4  | 3.2   | 2.6 | 2.6    |
| 25°   | 97.7  | 90.9  | 77.3  | 58.4  | 41.2  | 29.2  | 20.5 | 7.2  | 2.9   | 2.2 | 2.4    |
| 27.5° | 178.4 | 172.3 | 145.1 | 109.3 | 72.5  | 44.1  | 27.8 | 8.2  | 2.6   | 1.9 | 2.1    |
| 30°   | 283.9 | 266.9 | 231.4 | 179.1 | 121.2 | 67.5  | 37.3 | 9.3  | 2.1   | 1.7 | 2.0    |
| 31°   | 316.8 | 308.9 | 265.7 | 207.2 | 142.0 | 80.1  | 41.3 | 9.6  | 2.0   | 1.7 | 1.9    |
| 32°   | 355.8 | 342.0 | 303.2 | 238.0 | 163.2 | 91.5  | 46.1 | 10.0 | 1.9   | 1.5 | 1.9    |
| 33°   | 390.8 | 377.3 | 330.2 | 265.1 | 184.6 | 104.3 | 51.3 | 10.1 | 1.7   | 1.5 | 1.8    |
| 34°   | 427.5 | 409.1 | 362.5 | 293.4 | 206.5 | 118.2 | 56.0 | 10.2 | 1.6   | 1.3 | 1.8    |
| 35°   | 453.8 | 435.4 | 390.2 | 315.8 | 225.4 | 130.5 | 61.3 | 10.2 | 1.5   | 1.3 | 1.7    |
| 36°   | 474.2 | 458.0 | 414.2 | 338.8 | 244.2 | 141.6 | 65.6 | 10.2 | 1.2   | 1.2 | 1.7    |
| 37°   | 488.2 | 472.8 | 430.3 | 358.6 | 258.6 | 151.5 | 69.4 | 10.2 | 1.1   | 1.2 | 1.7    |
| 38°   | 495.0 | 482.2 | 445.8 | 373.1 | 272.5 | 159.2 | 72.4 | 10.0 | 1.0   | 1.1 | 1.6    |
| 39°   | 497.9 | 487.5 | 455.4 | 385.3 | 282.9 | 165.9 | 74.7 | 9.7  | 0.9   | 1.1 | 1.6    |
| 40°   | 497.4 | 488.4 | 460.7 | 393.7 | 291.3 | 170.5 | 75.9 | 9.4  | 0.8   | 1.0 | 1.6    |
| 41°   | 494.9 | 487.0 | 463.5 | 400.8 | 296.3 | 173.6 | 76.2 | 9.1  | 0.7   | 1.0 | 1.5    |
| 42°   | 492.0 | 484.8 | 464.4 | 404.7 | 299.5 | 174.6 | 75.3 | 8.6  | 0.7   | 0.9 | 1.5    |
| 43°   | 488.9 | 482.3 | 464.4 | 405.9 | 300.3 | 173.9 | 73.9 | 7.8  | 0.6   | 0.9 | 1.5    |
| 44°   | 486.5 | 480.2 | 463.0 | 405.5 | 298.6 | 171.4 | 71.2 | 6.9  | 0.4   | 0.9 | 1.5    |
| 45°   | 483.6 | 477.4 | 461.1 | 403.4 | 295.4 | 167.0 | 67.8 | 6.2  | 0.3   | 0.8 | 1.5    |
| 46°   | 478.4 | 473.6 | 457.7 | 399.1 | 290.3 | 161.0 | 63.6 | 5.6  | 0.2   | 0.8 | 1.3    |
| 47°   | 468.5 | 464.3 | 451.2 | 392.6 | 283.4 | 153.8 | 59.2 | 5.0  | 0.2   | 0.8 | 1.3    |
| 48°   | 448.4 | 448.3 | 438.2 | 380.5 | 272.6 | 144.8 | 54.6 | 4.5  | 0.2   | 0.8 | 1.3    |
| 49°   | 429.1 | 427.0 | 414.5 | 359.2 | 257.0 | 134.1 | 49.8 | 4.0  | 0.1   | 0.8 | 1.3    |
| 50°   | 418.4 | 414.1 | 393.5 | 334.1 | 237.1 | 119.2 | 44.7 | 3.4  | 0.1   | 0.7 | 1.3    |
| 51°   | 407.3 | 401.1 | 376.8 | 311.5 | 213.4 | 104.9 | 39.1 | 2.7  | 0.1   | 0.7 | 1.2    |
| 52°   | 387.3 | 381.4 | 354.2 | 289.9 | 190.3 | 90.2  | 33.7 | 2.2  | 0.1   | 0.7 | 1.3    |
| 53°   | 365.7 | 357.2 | 327.6 | 266.2 | 170.0 | 77.2  | 28.2 | 1.9  | 0.1   | 0.7 | 1.2    |
| 54°   | 338.5 | 334.7 | 300.8 | 237.1 | 146.3 | 64.7  | 23.2 | 1.6  | 0.1   | 0.7 | 1.2    |
| 55°   | 312.9 | 307.3 | 272.0 | 207.3 | 124.8 | 53.1  | 19.4 | 1.2  | 0.1   | 0.7 | 1.2    |
| 56°   | 280.2 | 271.8 | 238.8 | 180.0 | 103.0 | 42.8  | 16.3 | 1.0  | 0.1   | 0.7 | 1.2    |
| 57°   | 241.2 | 232.3 | 206.2 | 149.7 | 80.8  | 32.6  | 13.7 | 0.8  | 0.1   | 0.7 | 1.2    |
| 58°   | 204.1 | 196.3 | 168.4 | 115.5 | 60.9  | 22.6  | 11.3 | 0.6  | 0.1   | 0.6 | 1.2    |
| 59°   | 176.3 | 167.8 | 140.0 | 88.9  | 42.3  | 16.7  | 8.5  | 0.4  | 0.1   | 0.7 | 1.2    |
| 60°   | 152.7 | 141.7 | 112.7 | 68.8  | 30.2  | 12.0  | 6.3  | 0.2  | 0.2   | 0.7 | 1.2    |
| 62.5° | 88.0  | 77.7  | 53.8  | 28.0  | 12.4  | 6.2   | 3.0  | 0.1  | 0.2   | 0.7 | 1.2    |
| 65°   | 22.3  | 19.8  | 12.9  | 6.0   | 3.5   | 2.1   | 1.1  | 0.1  | 0.2   | 0.6 | 1.1    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.4 | 0.2 | 0.1 | 0.2   | 0.6 | 1.1    |
| 70°   | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2   | 0.6 | 1.0    |
| 72.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.6 | 0.9    |
| 75°   | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.6 | 0.9    |
| 77.5° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 | 0.8    |
| 80°   | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 | 0.7    |
| 82.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 | 0.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.3   | 0.4 | 0.4    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3   | 0.4 | 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    |

TEST NUMBER: P1335299

CATALOG NUMBER: P3A02R359027DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 5.7  | 5.7    | 5.7  |
| 2.5°  | 5.4  | 5.4    | 5.4  |
| 5°    | 5.0  | 5.0    | 4.9  |
| 7.5°  | 4.7  | 4.6    | 4.6  |
| 10°   | 4.3  | 4.3    | 4.3  |
| 12.5° | 3.9  | 3.9    | 3.9  |
| 15°   | 3.6  | 3.7    | 3.7  |
| 17.5° | 3.2  | 3.5    | 3.5  |
| 20°   | 3.0  | 3.2    | 3.4  |
| 22.5° | 2.8  | 3.0    | 3.1  |
| 25°   | 2.7  | 2.9    | 3.0  |
| 27.5° | 2.5  | 2.8    | 3.0  |
| 30°   | 2.4  | 2.7    | 2.9  |
| 31°   | 2.4  | 2.7    | 2.8  |
| 32°   | 2.2  | 2.7    | 2.8  |
| 33°   | 2.2  | 2.7    | 2.8  |
| 34°   | 2.2  | 2.6    | 2.8  |
| 35°   | 2.1  | 2.6    | 2.7  |
| 36°   | 2.1  | 2.6    | 2.7  |
| 37°   | 2.1  | 2.6    | 2.8  |
| 38°   | 2.1  | 2.6    | 2.7  |
| 39°   | 2.0  | 2.6    | 2.7  |
| 40°   | 2.0  | 2.6    | 2.7  |
| 41°   | 2.0  | 2.6    | 2.7  |
| 42°   | 2.0  | 2.6    | 2.7  |
| 43°   | 2.0  | 2.6    | 2.7  |
| 44°   | 2.0  | 2.5    | 2.7  |
| 45°   | 2.0  | 2.5    | 2.7  |
| 46°   | 2.0  | 2.6    | 2.7  |
| 47°   | 2.0  | 2.6    | 2.8  |
| 48°   | 2.0  | 2.5    | 2.7  |
| 49°   | 1.9  | 2.5    | 2.7  |
| 50°   | 1.9  | 2.5    | 2.7  |
| 51°   | 1.9  | 2.6    | 2.8  |
| 52°   | 1.9  | 2.6    | 2.8  |
| 53°   | 1.9  | 2.6    | 2.8  |
| 54°   | 1.9  | 2.6    | 2.7  |
| 55°   | 1.9  | 2.6    | 2.8  |
| 56°   | 1.9  | 2.6    | 2.7  |
| 57°   | 1.9  | 2.6    | 2.7  |
| 58°   | 1.9  | 2.5    | 2.7  |
| 59°   | 1.9  | 2.5    | 2.7  |
| 60°   | 1.9  | 2.5    | 2.7  |
| 62.5° | 1.8  | 2.5    | 2.7  |
| 65°   | 1.8  | 2.4    | 2.6  |



TEST NUMBER: P1335299

CATALOG NUMBER: P3A02R359027DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 1.7  | 2.4    | 2.5  |
| 70°   | 1.6  | 2.2    | 2.4  |
| 72.5° | 1.5  | 2.1    | 2.2  |
| 75°   | 1.3  | 1.9    | 2.0  |
| 77.5° | 1.1  | 1.7    | 1.9  |
| 80°   | 1.0  | 1.5    | 1.6  |
| 82.5° | 0.8  | 1.2    | 1.3  |
| 85°   | 0.6  | 0.9    | 0.9  |
| 87.5° | 0.2  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)