

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: P1335441

Luminaire Tested: P3A02R359740DE010 E3A451LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335441  
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: P3A02R359740DE010 E3A451LI  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

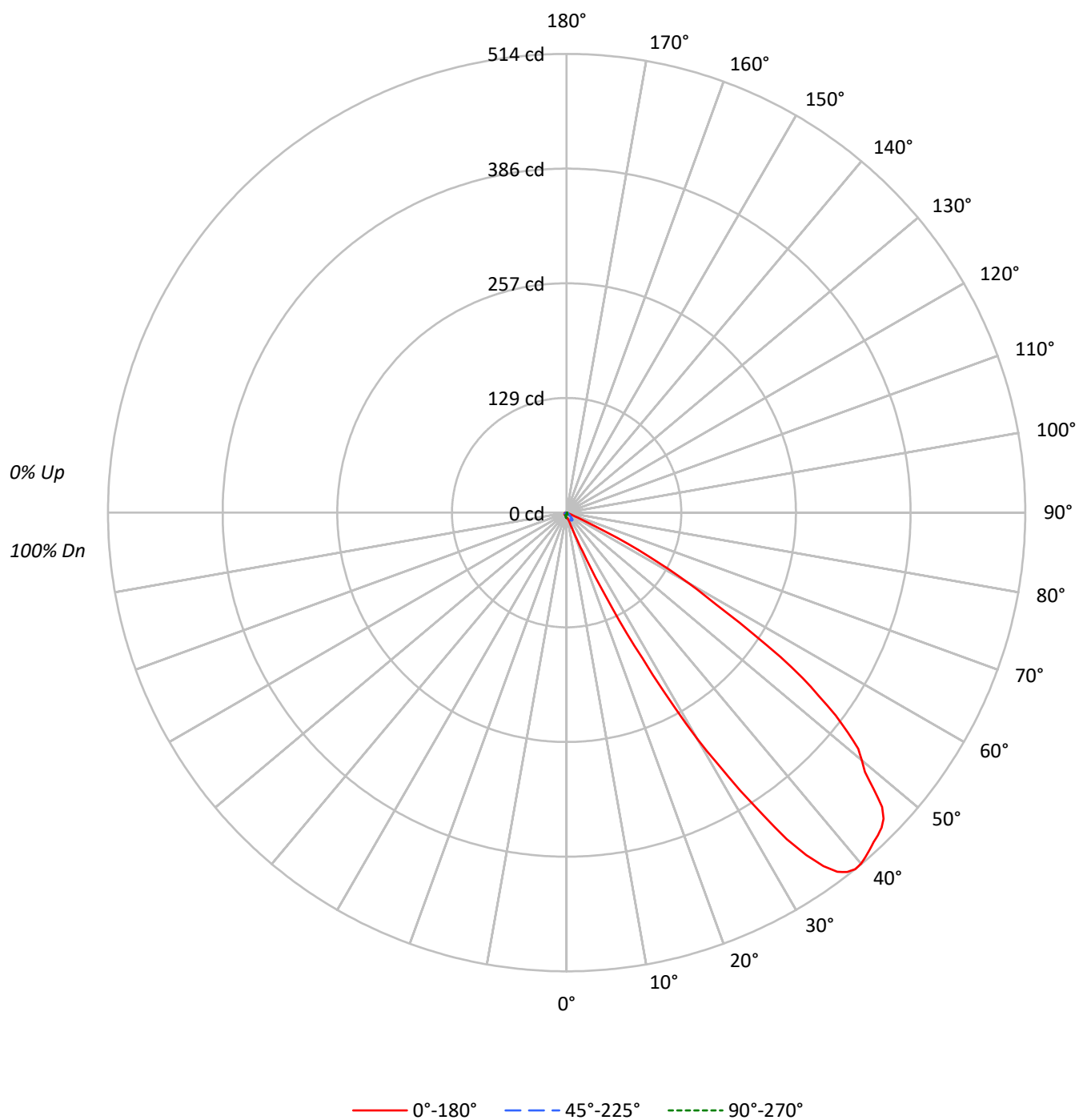
Lumens per Lamp: N/A  
Luminaire Lumens: 128.0 lumens  
Efficiency: N/A  
Efficacy: 35.6 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.42  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A02R359740DE010 E3A451LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1335441

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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   | 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°  | 1294   | 1294 | 1294 | 1294 | 1294 |
| 5°  | 1409   | 1365 | 1277 | 1145 | 1123 |
| 10° | 1470   | 1336 | 1136 | 980  | 980  |
| 15° | 2089   | 1317 | 908  | 840  | 863  |
| 20° | 5250   | 1400 | 723  | 723  | 817  |
| 25° | 24413  | 1790 | 556  | 677  | 750  |
| 30° | 74189  | 2431 | 430  | 608  | 760  |
| 35° | 125387 | 2811 | 375  | 589  | 750  |
| 40° | 146990 | 2777 | 286  | 601  | 802  |
| 45° | 154807 | 1985 | 248  | 651  | 868  |
| 50° | 147338 | 1194 | 239  | 682  | 955  |
| 55° | 123484 | 497  | 268  | 765  | 1109 |
| 60° | 69117  | 88   | 307  | 877  | 1228 |
| 65° | 11934  | 52   | 311  | 934  | 1401 |
| 70° | 192    | 64   | 385  | 1026 | 1539 |
| 75° | 169    | 85   | 508  | 1186 | 1779 |
| 80° | 126    | 126  | 631  | 1263 | 2020 |
| 85° | 0      | 252  | 1258 | 1510 | 2264 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 155876 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°   | 7.9    | 6.1       |
| 30°-40°   | 33.9   | 26.5      |
| 40°-50°   | 48.4   | 37.8      |
| 50°-60°   | 30.0   | 23.4      |
| 60°-70°   | 4.6    | 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°    | 9.9    | 7.7       |
| 0°-40°    | 43.8   | 34.2      |
| 0°-60°    | 122.2  | 95.5      |
| 0°-90°    | 128.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 128.0  | 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° | 101 | 7   | 2   | 3    | 3    | 60   |
| 35° | 468 | 10  | 1   | 2    | 3    | 281  |
| 45° | 499 | 6   | 1   | 2    | 3    | 377  |
| 55° | 323 | 1   | 1   | 2    | 3    | 275  |
| 65° | 23  | 0   | 1   | 2    | 3    | 47   |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°  | 45°  | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-----|--------|
| 0°    | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9  | 5.9  | 5.9   | 5.9 | 5.9    |
| 2.5°  | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1  | 6.1  | 6.1   | 5.9 | 5.8    |
| 5°    | 6.4   | 6.4   | 6.2   | 6.2   | 6.2   | 6.2   | 6.2  | 6.2  | 6.0   | 5.8 | 5.4    |
| 7.5°  | 6.5   | 6.5   | 6.4   | 6.4   | 6.4   | 6.4   | 6.2  | 6.1  | 5.9   | 5.4 | 5.1    |
| 10°   | 6.6   | 6.6   | 6.6   | 6.6   | 6.5   | 6.4   | 6.2  | 6.0  | 5.7   | 5.1 | 4.7    |
| 12.5° | 7.4   | 7.4   | 7.3   | 7.0   | 6.8   | 6.6   | 6.4  | 5.9  | 5.2   | 4.6 | 4.3    |
| 15°   | 9.2   | 9.1   | 8.9   | 8.6   | 8.1   | 7.5   | 7.0  | 5.8  | 4.7   | 4.0 | 3.8    |
| 17.5° | 12.9  | 12.7  | 12.4  | 11.2  | 10.2  | 9.1   | 8.2  | 5.8  | 4.3   | 3.6 | 3.4    |
| 20°   | 22.5  | 22.6  | 20.2  | 17.4  | 15.1  | 12.6  | 10.3 | 6.0  | 3.8   | 3.1 | 3.0    |
| 22.5° | 47.0  | 45.2  | 39.4  | 32.7  | 25.0  | 19.3  | 14.6 | 6.6  | 3.4   | 2.7 | 2.7    |
| 25°   | 100.9 | 93.8  | 79.8  | 60.3  | 42.5  | 30.2  | 21.1 | 7.4  | 3.0   | 2.3 | 2.4    |
| 27.5° | 184.2 | 177.8 | 149.7 | 112.8 | 74.9  | 45.5  | 28.7 | 8.4  | 2.7   | 2.0 | 2.2    |
| 30°   | 293.0 | 275.5 | 238.8 | 184.9 | 125.1 | 69.7  | 38.5 | 9.6  | 2.2   | 1.7 | 2.1    |
| 31°   | 327.0 | 318.9 | 274.3 | 213.9 | 146.6 | 82.7  | 42.6 | 9.9  | 2.1   | 1.7 | 2.0    |
| 32°   | 367.3 | 353.0 | 313.0 | 245.7 | 168.5 | 94.4  | 47.6 | 10.3 | 2.0   | 1.5 | 2.0    |
| 33°   | 403.4 | 389.5 | 340.9 | 273.6 | 190.5 | 107.7 | 52.9 | 10.4 | 1.7   | 1.5 | 1.8    |
| 34°   | 441.3 | 422.3 | 374.1 | 302.8 | 213.2 | 122.0 | 57.8 | 10.5 | 1.6   | 1.4 | 1.8    |
| 35°   | 468.4 | 449.5 | 402.8 | 326.0 | 232.7 | 134.7 | 63.3 | 10.5 | 1.5   | 1.4 | 1.7    |
| 36°   | 489.5 | 472.8 | 427.5 | 349.8 | 252.1 | 146.2 | 67.7 | 10.5 | 1.3   | 1.3 | 1.7    |
| 37°   | 503.9 | 488.1 | 444.2 | 370.2 | 266.9 | 156.3 | 71.6 | 10.5 | 1.2   | 1.3 | 1.7    |
| 38°   | 511.0 | 497.8 | 460.2 | 385.1 | 281.2 | 164.3 | 74.8 | 10.3 | 1.0   | 1.2 | 1.6    |
| 39°   | 514.0 | 503.2 | 470.0 | 397.7 | 292.0 | 171.2 | 77.1 | 10.1 | 0.9   | 1.2 | 1.6    |
| 40°   | 513.5 | 504.1 | 475.6 | 406.4 | 300.7 | 176.0 | 78.3 | 9.7  | 0.8   | 1.0 | 1.6    |
| 41°   | 510.8 | 502.7 | 478.5 | 413.8 | 305.9 | 179.2 | 78.7 | 9.4  | 0.7   | 1.0 | 1.5    |
| 42°   | 507.8 | 500.4 | 479.4 | 417.7 | 309.2 | 180.3 | 77.8 | 8.9  | 0.7   | 0.9 | 1.5    |
| 43°   | 504.7 | 497.9 | 479.4 | 419.0 | 310.0 | 179.6 | 76.3 | 8.1  | 0.6   | 0.9 | 1.5    |
| 44°   | 502.2 | 495.7 | 477.9 | 418.6 | 308.3 | 176.9 | 73.5 | 7.2  | 0.5   | 0.9 | 1.5    |
| 45°   | 499.2 | 492.8 | 475.9 | 416.4 | 304.9 | 172.4 | 70.0 | 6.4  | 0.3   | 0.8 | 1.5    |
| 46°   | 493.8 | 488.9 | 472.5 | 411.9 | 299.6 | 166.2 | 65.6 | 5.8  | 0.2   | 0.8 | 1.4    |
| 47°   | 483.6 | 479.3 | 465.8 | 405.2 | 292.6 | 158.8 | 61.1 | 5.2  | 0.2   | 0.8 | 1.4    |
| 48°   | 462.9 | 462.8 | 452.4 | 392.7 | 281.4 | 149.5 | 56.4 | 4.6  | 0.2   | 0.8 | 1.4    |
| 49°   | 442.9 | 440.8 | 427.9 | 370.8 | 265.3 | 138.4 | 51.4 | 4.2  | 0.1   | 0.8 | 1.4    |
| 50°   | 431.9 | 427.4 | 406.1 | 344.9 | 244.7 | 123.1 | 46.1 | 3.5  | 0.1   | 0.7 | 1.4    |
| 51°   | 420.5 | 414.0 | 388.9 | 321.6 | 220.2 | 108.3 | 40.3 | 2.8  | 0.1   | 0.7 | 1.3    |
| 52°   | 399.8 | 393.7 | 365.6 | 299.3 | 196.4 | 93.1  | 34.8 | 2.3  | 0.1   | 0.7 | 1.4    |
| 53°   | 377.5 | 368.7 | 338.2 | 274.8 | 175.5 | 79.7  | 29.1 | 2.0  | 0.1   | 0.7 | 1.3    |
| 54°   | 349.4 | 345.5 | 310.5 | 244.7 | 151.0 | 66.8  | 23.9 | 1.6  | 0.1   | 0.7 | 1.3    |
| 55°   | 323.0 | 317.2 | 280.8 | 214.0 | 128.8 | 54.8  | 20.0 | 1.3  | 0.1   | 0.7 | 1.3    |
| 56°   | 289.2 | 280.5 | 246.5 | 185.8 | 106.3 | 44.1  | 16.9 | 1.0  | 0.1   | 0.7 | 1.3    |
| 57°   | 249.0 | 239.8 | 212.8 | 154.5 | 83.4  | 33.6  | 14.1 | 0.8  | 0.1   | 0.7 | 1.3    |
| 58°   | 210.6 | 202.7 | 173.8 | 119.2 | 62.9  | 23.3  | 11.7 | 0.6  | 0.1   | 0.6 | 1.3    |
| 59°   | 182.0 | 173.2 | 144.5 | 91.7  | 43.7  | 17.2  | 8.8  | 0.5  | 0.1   | 0.7 | 1.3    |
| 60°   | 157.6 | 146.3 | 116.4 | 71.1  | 31.2  | 12.4  | 6.5  | 0.2  | 0.2   | 0.7 | 1.3    |
| 62.5° | 90.8  | 80.2  | 55.6  | 28.9  | 12.8  | 6.4   | 3.1  | 0.1  | 0.2   | 0.7 | 1.3    |
| 65°   | 23.0  | 20.5  | 13.3  | 6.2   | 3.6   | 2.2   | 1.2  | 0.1  | 0.2   | 0.6 | 1.2    |



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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 | 0.5 | 0.2 | 0.1 | 0.2   | 0.6 | 1.2    |
| 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   | 0.5 | 0.8    |
| 80°   | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.5 | 0.7    |
| 82.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.5 | 0.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.3   | 0.5 | 0.5    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3   | 0.5 | 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: P1335441

CATALOG NUMBER: P3A02R359740DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 5.9  | 5.9    | 5.9  |
| 2.5°  | 5.5  | 5.5    | 5.5  |
| 5°    | 5.2  | 5.2    | 5.1  |
| 7.5°  | 4.9  | 4.7    | 4.7  |
| 10°   | 4.4  | 4.4    | 4.4  |
| 12.5° | 4.0  | 4.0    | 4.0  |
| 15°   | 3.7  | 3.8    | 3.8  |
| 17.5° | 3.4  | 3.6    | 3.6  |
| 20°   | 3.1  | 3.4    | 3.5  |
| 22.5° | 2.9  | 3.1    | 3.2  |
| 25°   | 2.8  | 3.0    | 3.1  |
| 27.5° | 2.5  | 2.9    | 3.1  |
| 30°   | 2.4  | 2.8    | 3.0  |
| 31°   | 2.4  | 2.8    | 2.9  |
| 32°   | 2.3  | 2.8    | 2.9  |
| 33°   | 2.3  | 2.8    | 2.9  |
| 34°   | 2.3  | 2.7    | 2.9  |
| 35°   | 2.2  | 2.7    | 2.8  |
| 36°   | 2.2  | 2.7    | 2.8  |
| 37°   | 2.2  | 2.7    | 2.9  |
| 38°   | 2.2  | 2.7    | 2.8  |
| 39°   | 2.1  | 2.7    | 2.8  |
| 40°   | 2.1  | 2.7    | 2.8  |
| 41°   | 2.1  | 2.7    | 2.8  |
| 42°   | 2.1  | 2.7    | 2.8  |
| 43°   | 2.1  | 2.7    | 2.8  |
| 44°   | 2.1  | 2.5    | 2.8  |
| 45°   | 2.1  | 2.5    | 2.8  |
| 46°   | 2.1  | 2.7    | 2.8  |
| 47°   | 2.1  | 2.7    | 2.9  |
| 48°   | 2.1  | 2.5    | 2.8  |
| 49°   | 2.0  | 2.5    | 2.8  |
| 50°   | 2.0  | 2.5    | 2.8  |
| 51°   | 2.0  | 2.7    | 2.9  |
| 52°   | 2.0  | 2.7    | 2.9  |
| 53°   | 2.0  | 2.7    | 2.9  |
| 54°   | 2.0  | 2.7    | 2.8  |
| 55°   | 2.0  | 2.7    | 2.9  |
| 56°   | 2.0  | 2.7    | 2.8  |
| 57°   | 2.0  | 2.7    | 2.8  |
| 58°   | 2.0  | 2.5    | 2.8  |
| 59°   | 2.0  | 2.5    | 2.8  |
| 60°   | 2.0  | 2.5    | 2.8  |
| 62.5° | 1.8  | 2.5    | 2.8  |
| 65°   | 1.8  | 2.4    | 2.7  |



TEST NUMBER: P1335441

CATALOG NUMBER: P3A02R359740DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 1.7  | 2.4    | 2.5  |
| 70°   | 1.6  | 2.3    | 2.4  |
| 72.5° | 1.5  | 2.2    | 2.3  |
| 75°   | 1.4  | 2.0    | 2.1  |
| 77.5° | 1.2  | 1.7    | 2.0  |
| 80°   | 1.0  | 1.5    | 1.6  |
| 82.5° | 0.8  | 1.3    | 1.4  |
| 85°   | 0.6  | 0.9    | 0.9  |
| 87.5° | 0.2  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)