

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: P1337789

Luminaire Tested: P3A05R309024DE010 E3A451LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R309024DE010 E3A451LI  
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

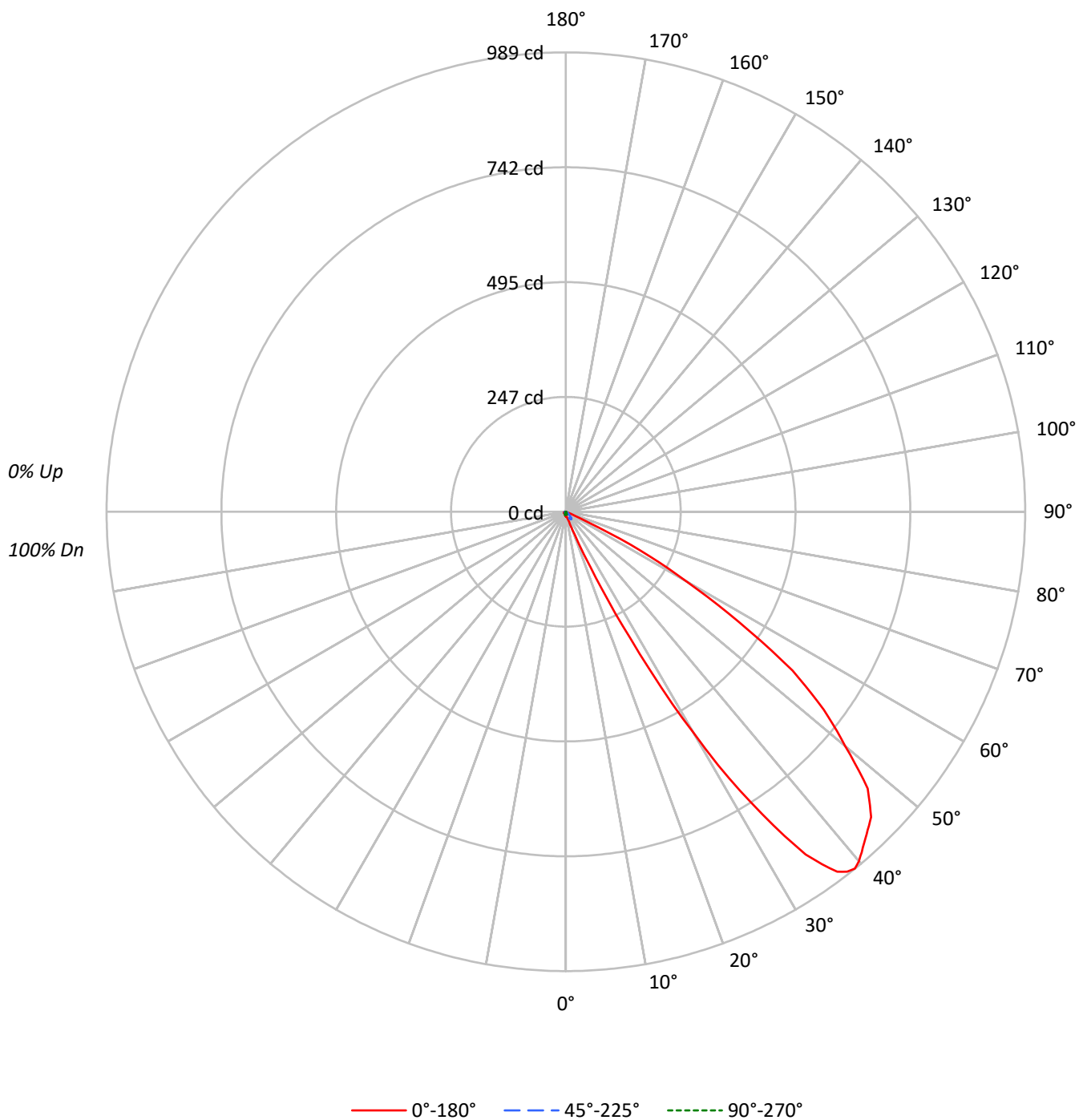
Lumens per Lamp: N/A  
Luminaire Lumens: 257.0 lumens  
Efficiency: N/A  
Efficacy: 35.7 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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### 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  |     |     | 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 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  | 87  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  | 73  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  | 61  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  | 50  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  | 42  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  | 35  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  | 29  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  | 24  | 24  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  | 20  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2193   | 2193 | 2193 | 2193 | 2193 |
| 5°  | 2333   | 2289 | 2135 | 1959 | 1915 |
| 10° | 2561   | 2271 | 1870 | 1692 | 1648 |
| 15° | 3746   | 2270 | 1566 | 1430 | 1476 |
| 20° | 9404   | 2474 | 1213 | 1213 | 1353 |
| 25° | 43623  | 3097 | 944  | 1089 | 1258 |
| 30° | 138907 | 4279 | 709  | 1038 | 1266 |
| 35° | 241030 | 5220 | 589  | 990  | 1285 |
| 40° | 281098 | 5210 | 429  | 1002 | 1288 |
| 45° | 288278 | 3690 | 465  | 1085 | 1395 |
| 50° | 268068 | 2081 | 375  | 1092 | 1637 |
| 55° | 227853 | 1070 | 421  | 1223 | 1835 |
| 60° | 131568 | 263  | 482  | 1316 | 1974 |
| 65° | 26825  | 0    | 571  | 1557 | 2231 |
| 70° | 385    | 128  | 705  | 1795 | 2629 |
| 75° | 339    | 169  | 763  | 1864 | 3135 |
| 80° | 253    | 253  | 1137 | 2147 | 3536 |
| 85° | 0      | 503  | 2264 | 2264 | 4277 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 288278 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.9    | 0.4       |
| 10°-20°   | 2.6    | 1.0       |
| 20°-30°   | 14.8   | 5.8       |
| 30°-40°   | 69.2   | 26.9      |
| 40°-50°   | 97.9   | 38.1      |
| 50°-60°   | 60.2   | 23.4      |
| 60°-70°   | 9.2    | 3.6       |
| 70°-80°   | 1.4    | 0.6       |
| 80°-90°   | 0.7    | 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°    | 18.3   | 7.1       |
| 0°-40°    | 87.5   | 34.1      |
| 0°-60°    | 245.6  | 95.6      |
| 0°-90°    | 257.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 257.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 10  | 10  | 10  | 10   | 10   |      |
| 5°  | 11  | 10  | 10  | 9    | 9    | 1    |
| 15° | 16  | 10  | 7   | 6    | 6    | 6    |
| 25° | 180 | 13  | 4   | 4    | 5    | 111  |
| 35° | 900 | 20  | 2   | 4    | 5    | 540  |
| 45° | 930 | 12  | 2   | 4    | 4    | 705  |
| 55° | 596 | 3   | 1   | 3    | 5    | 507  |
| 65° | 52  | 0   | 1   | 3    | 4    | 94   |
| 75° | 0   | 0   | 1   | 2    | 4    | 0    |
| 85° | 0   | 0   | 1   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1337789

CATALOG NUMBER: P3A05R309024DE010 E3A451LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|------|-------|------|--------|------|
| 0°    | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0 | 10.0  | 10.0 | 10.0   | 10.0 |
| 2.5°  | 10.2  | 10.2  | 10.4  | 10.4  | 10.2  | 10.4  | 10.4 | 10.4  | 10.0 | 9.7    | 9.3  |
| 5°    | 10.6  | 10.6  | 10.6  | 10.8  | 10.6  | 10.6  | 10.4 | 10.2  | 9.7  | 9.1    | 8.9  |
| 7.5°  | 11.0  | 11.0  | 10.8  | 11.0  | 10.8  | 10.8  | 10.4 | 10.0  | 9.3  | 8.7    | 8.2  |
| 10°   | 11.5  | 11.5  | 11.3  | 11.3  | 11.0  | 11.0  | 10.2 | 9.5   | 8.4  | 7.8    | 7.6  |
| 12.5° | 12.8  | 12.8  | 12.6  | 12.3  | 11.9  | 11.7  | 10.0 | 8.9   | 7.6  | 6.9    | 6.7  |
| 15°   | 16.5  | 16.2  | 15.8  | 15.2  | 14.1  | 13.9  | 10.0 | 8.2   | 6.9  | 6.3    | 6.3  |
| 17.5° | 22.5  | 22.3  | 21.6  | 19.9  | 18.0  | 17.3  | 10.0 | 7.4   | 6.1  | 5.6    | 5.6  |
| 20°   | 40.3  | 38.5  | 35.3  | 31.0  | 26.4  | 24.0  | 10.6 | 6.5   | 5.2  | 5.0    | 5.2  |
| 21°   | 52.6  | 50.9  | 46.8  | 39.6  | 31.6  | 29.0  | 11.0 | 6.3   | 5.0  | 4.8    | 5.2  |
| 22°   | 71.7  | 69.7  | 61.3  | 51.5  | 40.0  | 35.5  | 11.3 | 5.8   | 4.5  | 4.5    | 5.0  |
| 23°   | 100.0 | 96.8  | 82.5  | 66.9  | 50.0  | 43.5  | 11.7 | 5.6   | 4.3  | 4.5    | 4.8  |
| 24°   | 131.0 | 128.2 | 111.9 | 88.5  | 63.9  | 54.6  | 12.1 | 5.4   | 4.1  | 4.1    | 4.5  |
| 25°   | 180.3 | 177.1 | 148.3 | 111.7 | 81.0  | 65.6  | 12.8 | 5.0   | 3.9  | 3.9    | 4.5  |
| 26°   | 244.2 | 229.3 | 190.9 | 144.0 | 99.8  | 82.3  | 13.4 | 4.8   | 3.7  | 3.9    | 4.3  |
| 27°   | 304.8 | 292.5 | 249.4 | 184.7 | 123.4 | 101.1 | 14.3 | 4.5   | 3.5  | 3.7    | 4.3  |
| 28°   | 384.5 | 367.2 | 312.8 | 233.6 | 155.4 | 122.3 | 15.2 | 4.3   | 3.2  | 3.7    | 4.1  |
| 29°   | 473.7 | 449.4 | 383.8 | 288.6 | 191.6 | 146.1 | 16.0 | 4.1   | 3.0  | 3.5    | 4.1  |
| 30°   | 548.6 | 525.8 | 460.2 | 353.7 | 233.2 | 177.5 | 16.9 | 3.9   | 2.8  | 3.5    | 4.1  |
| 31°   | 636.5 | 602.0 | 522.6 | 408.9 | 268.9 | 208.9 | 17.8 | 3.5   | 2.6  | 3.2    | 3.9  |
| 32°   | 707.7 | 683.7 | 599.2 | 471.3 | 315.9 | 243.5 | 18.4 | 3.2   | 2.6  | 3.2    | 3.9  |
| 33°   | 776.5 | 744.3 | 662.7 | 531.0 | 358.3 | 279.1 | 19.1 | 3.0   | 2.4  | 3.0    | 3.9  |
| 34°   | 842.3 | 812.7 | 722.6 | 579.3 | 398.3 | 312.8 | 19.5 | 2.6   | 2.4  | 3.0    | 3.7  |
| 35°   | 900.4 | 865.9 | 775.5 | 626.5 | 439.5 | 343.6 | 19.5 | 2.4   | 2.2  | 2.8    | 3.7  |
| 36°   | 938.0 | 913.4 | 821.3 | 673.1 | 476.7 | 372.8 | 19.5 | 2.2   | 1.9  | 2.8    | 3.5  |
| 37°   | 970.3 | 941.5 | 858.2 | 708.8 | 504.2 | 396.2 | 19.5 | 1.9   | 1.9  | 2.8    | 3.5  |
| 38°   | 983.5 | 958.8 | 883.5 | 740.4 | 530.0 | 420.0 | 19.3 | 1.7   | 1.7  | 2.6    | 3.5  |
| 39°   | 988.7 | 966.6 | 902.5 | 763.1 | 549.0 | 436.0 | 18.8 | 1.5   | 1.7  | 2.6    | 3.5  |
| 40°   | 982.0 | 965.3 | 912.3 | 777.8 | 564.2 | 447.7 | 18.2 | 1.3   | 1.5  | 2.6    | 3.5  |
| 42.5° | 954.3 | 943.2 | 910.1 | 792.6 | 577.2 | 456.4 | 15.8 | 0.9   | 1.5  | 2.4    | 3.5  |
| 45°   | 929.6 | 917.5 | 888.2 | 777.2 | 560.3 | 439.3 | 11.9 | 0.4   | 1.5  | 2.4    | 3.5  |
| 47.5° | 881.7 | 874.2 | 851.2 | 738.0 | 523.2 | 400.7 | 8.4  | 0.2   | 1.3  | 2.2    | 3.2  |
| 50°   | 785.8 | 778.7 | 748.4 | 640.8 | 450.1 | 338.8 | 6.1  | 0.2   | 1.1  | 2.2    | 3.2  |
| 52.5° | 699.9 | 692.3 | 648.8 | 532.8 | 345.7 | 248.3 | 3.9  | 0.2   | 1.1  | 2.2    | 3.2  |
| 55°   | 596.0 | 582.8 | 525.6 | 404.4 | 245.1 | 166.5 | 2.8  | 0.2   | 1.1  | 1.9    | 3.2  |
| 57.5° | 441.2 | 421.9 | 370.8 | 275.8 | 141.1 | 90.3  | 1.5  | 0.2   | 1.1  | 1.9    | 3.2  |
| 60°   | 300.0 | 288.6 | 232.1 | 145.5 | 60.2  | 38.1  | 0.6  | 0.2   | 1.1  | 1.9    | 3.0  |
| 62.5° | 181.8 | 167.3 | 116.7 | 61.9  | 26.0  | 17.3  | 0.0  | 0.4   | 1.1  | 1.9    | 3.0  |
| 65°   | 51.7  | 45.9  | 30.5  | 14.1  | 7.4   | 5.6   | 0.0  | 0.4   | 1.1  | 1.9    | 3.0  |
| 67.5° | 1.7   | 1.7   | 1.7   | 1.5   | 1.1   | 1.1   | 0.2  | 0.4   | 1.1  | 1.9    | 2.8  |
| 70°   | 0.6   | 0.6   | 0.6   | 0.4   | 0.4   | 0.2   | 0.2  | 0.4   | 1.1  | 1.7    | 2.8  |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2  | 0.4   | 0.9  | 1.5    | 2.6  |
| 75°   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.9  | 1.5    | 2.2  |
| 77.5° | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.9  | 1.3    | 2.2  |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.9  | 1.3    | 1.7  |



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CATALOG NUMBER: P3A05R309024DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0   | 0.2 | 0.6   | 0.9 | 0.9    | 1.3  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.6   | 0.9 | 0.6    | 0.9  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.6   | 0.6 | 0.6    | 0.4  |
| 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: P1337789

CATALOG NUMBER: P3A05R309024DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 10.0   | 10.0 |
| 2.5°  | 9.3    | 9.3  |
| 5°    | 8.7    | 8.7  |
| 7.5°  | 8.0    | 8.0  |
| 10°   | 7.4    | 7.4  |
| 12.5° | 6.9    | 6.9  |
| 15°   | 6.3    | 6.5  |
| 17.5° | 5.8    | 6.1  |
| 20°   | 5.6    | 5.8  |
| 21°   | 5.6    | 5.8  |
| 22°   | 5.4    | 5.6  |
| 23°   | 5.4    | 5.6  |
| 24°   | 5.2    | 5.4  |
| 25°   | 5.0    | 5.2  |
| 26°   | 5.0    | 5.2  |
| 27°   | 5.0    | 5.2  |
| 28°   | 4.8    | 5.2  |
| 29°   | 4.8    | 5.0  |
| 30°   | 4.8    | 5.0  |
| 31°   | 4.5    | 5.0  |
| 32°   | 4.5    | 5.0  |
| 33°   | 4.5    | 4.8  |
| 34°   | 4.3    | 4.8  |
| 35°   | 4.3    | 4.8  |
| 36°   | 4.3    | 4.8  |
| 37°   | 4.3    | 4.5  |
| 38°   | 4.3    | 4.8  |
| 39°   | 4.3    | 4.5  |
| 40°   | 4.3    | 4.5  |
| 42.5° | 4.3    | 4.5  |
| 45°   | 4.3    | 4.5  |
| 47.5° | 4.3    | 4.8  |
| 50°   | 4.3    | 4.8  |
| 52.5° | 4.3    | 4.8  |
| 55°   | 4.3    | 4.8  |
| 57.5° | 4.3    | 4.5  |
| 60°   | 4.3    | 4.5  |
| 62.5° | 4.1    | 4.5  |
| 65°   | 4.1    | 4.3  |
| 67.5° | 4.1    | 4.3  |
| 70°   | 3.9    | 4.1  |
| 72.5° | 3.7    | 3.9  |
| 75°   | 3.2    | 3.7  |
| 77.5° | 3.0    | 3.2  |
| 80°   | 2.6    | 2.8  |

TEST NUMBER: P1337789

CATALOG NUMBER: P3A05R309024DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 2.2    | 2.2  |
| 85°   | 1.5    | 1.7  |
| 87.5° | 0.9    | 0.9  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)