

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: P1308647

Luminaire Tested: P3SQAS02R359035DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R359035DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

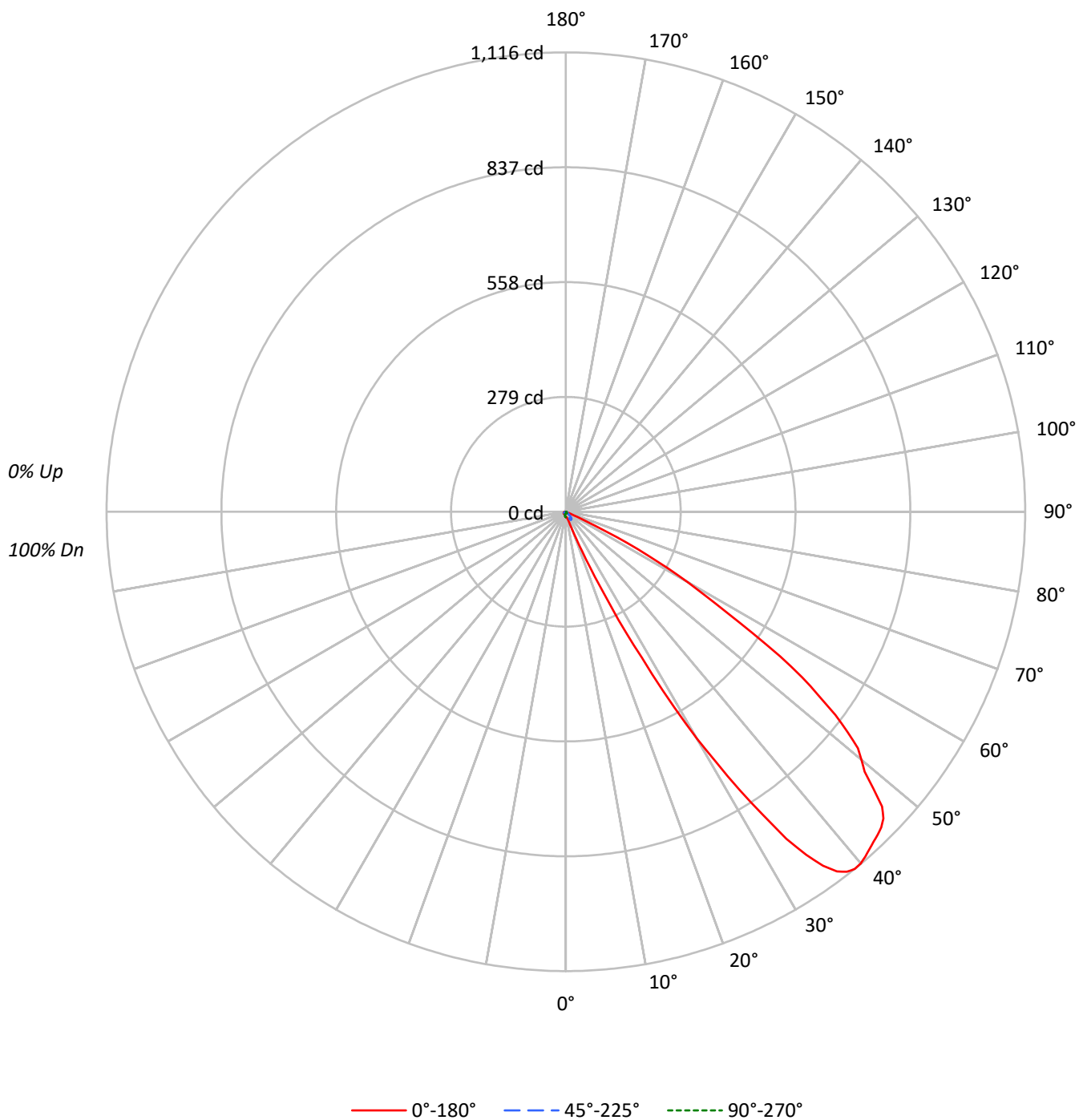
Lumens per Lamp: N/A  
Luminaire Lumens: 278.1 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1308647

CATALOG NUMBER: P3SQAS02R359035DE010 E3SQCA451MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1308647

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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 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 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  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  | 42  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  | 35  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  | 29  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  | 24  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  | 20  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2204   | 2204 | 2204 | 2204 | 2204 |
| 5°  | 2386   | 2351 | 2161 | 1954 | 1902 |
| 10° | 2501   | 2273 | 1924 | 1661 | 1661 |
| 15° | 3584   | 2229 | 1569 | 1426 | 1480 |
| 20° | 8962   | 2383 | 1246 | 1246 | 1375 |
| 25° | 41635  | 3059 | 950  | 1140 | 1292 |
| 30° | 126558 | 4136 | 756  | 1054 | 1293 |
| 35° | 213903 | 4794 | 631  | 1009 | 1261 |
| 40° | 250720 | 4744 | 517  | 1012 | 1349 |
| 45° | 264043 | 3361 | 438  | 1096 | 1461 |
| 50° | 251346 | 2009 | 402  | 1152 | 1608 |
| 55° | 210603 | 841  | 450  | 1291 | 1892 |
| 60° | 117904 | 172  | 517  | 1481 | 2067 |
| 65° | 20335  | 122  | 530  | 1630 | 2364 |
| 70° | 403    | 151  | 655  | 1762 | 2669 |
| 75° | 333    | 200  | 865  | 1996 | 2994 |
| 80° | 298    | 298  | 992  | 2281 | 3471 |
| 85° | 0      | 593  | 1976 | 2569 | 3952 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 265924 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.4       |
| 10°-20°   | 3.3    | 1.2       |
| 20°-30°   | 17.1   | 6.1       |
| 30°-40°   | 73.7   | 26.5      |
| 40°-50°   | 105.1  | 37.8      |
| 50°-60°   | 65.1   | 23.4      |
| 60°-70°   | 9.9    | 3.6       |
| 70°-80°   | 1.9    | 0.7       |
| 80°-90°   | 1.0    | 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°    | 21.5   | 7.7       |
| 0°-40°    | 95.2   | 34.2      |
| 0°-60°    | 265.3  | 95.4      |
| 0°-90°    | 278.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 278.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 13   | 13  | 13  | 13   | 13   |      |
| 5°  | 14   | 14  | 12  | 11   | 11   | 1    |
| 15° | 20   | 12  | 9   | 8    | 8    | 7    |
| 25° | 219  | 16  | 5   | 6    | 7    | 131  |
| 35° | 1017 | 23  | 3   | 5    | 6    | 611  |
| 45° | 1084 | 14  | 2   | 4    | 6    | 819  |
| 55° | 701  | 3   | 2   | 4    | 6    | 597  |
| 65° | 50   | 0   | 1   | 4    | 6    | 102  |
| 75° | 0    | 0   | 1   | 3    | 4    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 12.8   | 12.8   | 12.8   | 12.8  | 12.8  | 12.8  | 12.8  | 12.8 | 12.8  | 12.8 | 12.8   |
| 2.5°  | 13.3   | 13.3   | 13.3   | 13.3  | 13.3  | 13.3  | 13.3  | 13.3 | 13.3  | 12.8 | 12.5   |
| 5°    | 13.8   | 13.8   | 13.6   | 13.6  | 13.6  | 13.6  | 13.6  | 13.6 | 13.0  | 12.5 | 11.8   |
| 7.5°  | 14.1   | 14.1   | 13.8   | 13.8  | 13.8  | 13.8  | 13.6  | 13.3 | 12.8  | 11.8 | 11.0   |
| 10°   | 14.3   | 14.3   | 14.3   | 14.3  | 14.1  | 13.8  | 13.6  | 13.0 | 12.3  | 11.0 | 10.3   |
| 12.5° | 16.1   | 16.1   | 15.8   | 15.3  | 14.8  | 14.3  | 13.8  | 12.8 | 11.3  | 10.0 | 9.3    |
| 15°   | 20.1   | 19.8   | 19.3   | 18.6  | 17.6  | 16.3  | 15.3  | 12.5 | 10.3  | 8.8  | 8.3    |
| 17.5° | 28.1   | 27.6   | 26.9   | 24.3  | 22.1  | 19.8  | 17.8  | 12.5 | 9.3   | 7.8  | 7.3    |
| 20°   | 48.9   | 49.2   | 43.9   | 37.9  | 32.9  | 27.4  | 22.3  | 13.0 | 8.3   | 6.8  | 6.5    |
| 22.5° | 102.1  | 98.1   | 85.6   | 71.0  | 54.2  | 41.9  | 31.6  | 14.3 | 7.3   | 5.8  | 5.8    |
| 25°   | 219.1  | 203.8  | 173.4  | 131.0 | 92.4  | 65.5  | 45.9  | 16.1 | 6.5   | 5.0  | 5.3    |
| 27.5° | 400.0  | 386.2  | 325.2  | 244.9 | 162.6 | 98.9  | 62.2  | 18.3 | 5.8   | 4.3  | 4.8    |
| 30°   | 636.4  | 598.3  | 518.7  | 401.5 | 271.8 | 151.3 | 83.6  | 20.8 | 4.8   | 3.8  | 4.5    |
| 31°   | 710.2  | 692.6  | 595.8  | 464.5 | 318.5 | 179.7 | 92.6  | 21.6 | 4.5   | 3.8  | 4.3    |
| 32°   | 797.8  | 766.7  | 679.8  | 533.5 | 365.9 | 205.0 | 103.4 | 22.3 | 4.3   | 3.3  | 4.3    |
| 33°   | 876.1  | 846.0  | 740.3  | 594.3 | 413.8 | 233.9 | 114.9 | 22.6 | 3.8   | 3.3  | 4.0    |
| 34°   | 958.4  | 917.2  | 812.6  | 657.8 | 463.0 | 265.0 | 125.5 | 22.8 | 3.5   | 3.0  | 4.0    |
| 35°   | 1017.4 | 976.2  | 874.8  | 707.9 | 505.4 | 292.6 | 137.5 | 22.8 | 3.3   | 3.0  | 3.8    |
| 36°   | 1063.0 | 1026.9 | 928.5  | 759.6 | 547.6 | 317.5 | 147.1 | 22.8 | 2.8   | 2.8  | 3.8    |
| 37°   | 1094.4 | 1060.0 | 964.7  | 804.1 | 579.7 | 339.5 | 155.6 | 22.8 | 2.5   | 2.8  | 3.8    |
| 38°   | 1109.7 | 1081.1 | 999.6  | 836.4 | 610.8 | 356.9 | 162.4 | 22.3 | 2.3   | 2.5  | 3.5    |
| 39°   | 1116.2 | 1092.9 | 1020.9 | 863.8 | 634.2 | 371.9 | 167.4 | 21.8 | 2.0   | 2.5  | 3.5    |
| 40°   | 1115.2 | 1094.9 | 1032.9 | 882.6 | 653.0 | 382.2 | 170.1 | 21.1 | 1.8   | 2.3  | 3.5    |
| 41°   | 1109.5 | 1091.9 | 1039.2 | 898.7 | 664.3 | 389.2 | 170.9 | 20.3 | 1.5   | 2.3  | 3.3    |
| 42°   | 1102.9 | 1086.9 | 1041.2 | 907.2 | 671.6 | 391.5 | 168.9 | 19.3 | 1.5   | 2.0  | 3.3    |
| 43°   | 1096.2 | 1081.4 | 1041.2 | 910.0 | 673.3 | 390.0 | 165.6 | 17.6 | 1.3   | 2.0  | 3.3    |
| 44°   | 1090.6 | 1076.6 | 1037.9 | 909.2 | 669.5 | 384.2 | 159.6 | 15.6 | 1.0   | 2.0  | 3.3    |
| 45°   | 1084.1 | 1070.3 | 1033.7 | 904.4 | 662.3 | 374.4 | 152.1 | 13.8 | 0.8   | 1.8  | 3.3    |
| 46°   | 1072.6 | 1061.8 | 1026.2 | 894.7 | 650.7 | 360.9 | 142.5 | 12.5 | 0.5   | 1.8  | 3.0    |
| 47°   | 1050.2 | 1041.0 | 1011.6 | 880.1 | 635.4 | 344.8 | 132.8 | 11.3 | 0.5   | 1.8  | 3.0    |
| 48°   | 1005.3 | 1005.1 | 982.5  | 853.0 | 611.1 | 324.7 | 122.5 | 10.0 | 0.5   | 1.8  | 3.0    |
| 49°   | 961.9  | 957.4  | 929.3  | 805.3 | 576.2 | 300.6 | 111.7 | 9.0  | 0.3   | 1.8  | 3.0    |
| 50°   | 938.1  | 928.3  | 882.1  | 749.1 | 531.5 | 267.3 | 100.1 | 7.5  | 0.3   | 1.5  | 3.0    |
| 51°   | 913.2  | 899.2  | 844.7  | 698.4 | 478.3 | 235.1 | 87.6  | 6.0  | 0.3   | 1.5  | 2.8    |
| 52°   | 868.3  | 855.0  | 794.0  | 650.0 | 426.6 | 202.3 | 75.5  | 5.0  | 0.3   | 1.5  | 3.0    |
| 53°   | 819.9  | 800.8  | 734.5  | 596.8 | 381.2 | 173.2 | 63.2  | 4.3  | 0.3   | 1.5  | 2.8    |
| 54°   | 758.9  | 750.4  | 674.3  | 531.5 | 328.0 | 145.1 | 51.9  | 3.5  | 0.3   | 1.5  | 2.8    |
| 55°   | 701.4  | 688.9  | 609.8  | 464.8 | 279.8 | 119.0 | 43.4  | 2.8  | 0.3   | 1.5  | 2.8    |
| 56°   | 628.1  | 609.3  | 535.3  | 403.5 | 230.9 | 95.9  | 36.6  | 2.3  | 0.3   | 1.5  | 2.8    |
| 57°   | 540.8  | 520.7  | 462.3  | 335.5 | 181.2 | 73.0  | 30.6  | 1.8  | 0.3   | 1.5  | 2.8    |
| 58°   | 457.5  | 440.2  | 377.4  | 259.0 | 136.5 | 50.7  | 25.3  | 1.3  | 0.3   | 1.3  | 2.8    |
| 59°   | 395.3  | 376.2  | 313.9  | 199.3 | 94.9  | 37.4  | 19.1  | 1.0  | 0.3   | 1.5  | 2.8    |
| 60°   | 342.3  | 317.7  | 252.7  | 154.3 | 67.8  | 26.9  | 14.1  | 0.5  | 0.5   | 1.5  | 2.8    |
| 62.5° | 197.3  | 174.2  | 120.7  | 62.7  | 27.9  | 13.8  | 6.8   | 0.3  | 0.5   | 1.5  | 2.8    |
| 65°   | 49.9   | 44.4   | 28.9   | 13.6  | 7.8   | 4.8   | 2.5   | 0.3  | 0.5   | 1.3  | 2.5    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.8 | 1.8 | 1.8 | 1.5 | 1.3 | 1.0 | 0.5 | 0.3 | 0.5   | 1.3 | 2.5    |
| 70°   | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.5   | 1.3 | 2.3    |
| 72.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.3 | 2.0    |
| 75°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.3 | 2.0    |
| 77.5° | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.0 | 1.8    |
| 80°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.0 | 1.5    |
| 82.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.0 | 1.3    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 | 0.8   | 1.0 | 1.0    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8   | 1.0 | 0.8    |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 12.8 | 12.8   | 12.8 |
| 2.5°  | 12.0 | 12.0   | 12.0 |
| 5°    | 11.3 | 11.3   | 11.0 |
| 7.5°  | 10.5 | 10.3   | 10.3 |
| 10°   | 9.5  | 9.5    | 9.5  |
| 12.5° | 8.8  | 8.8    | 8.8  |
| 15°   | 8.0  | 8.3    | 8.3  |
| 17.5° | 7.3  | 7.8    | 7.8  |
| 20°   | 6.8  | 7.3    | 7.5  |
| 22.5° | 6.3  | 6.8    | 7.0  |
| 25°   | 6.0  | 6.5    | 6.8  |
| 27.5° | 5.5  | 6.3    | 6.8  |
| 30°   | 5.3  | 6.0    | 6.5  |
| 31°   | 5.3  | 6.0    | 6.3  |
| 32°   | 5.0  | 6.0    | 6.3  |
| 33°   | 5.0  | 6.0    | 6.3  |
| 34°   | 5.0  | 5.8    | 6.3  |
| 35°   | 4.8  | 5.8    | 6.0  |
| 36°   | 4.8  | 5.8    | 6.0  |
| 37°   | 4.8  | 5.8    | 6.3  |
| 38°   | 4.8  | 5.8    | 6.0  |
| 39°   | 4.5  | 5.8    | 6.0  |
| 40°   | 4.5  | 5.8    | 6.0  |
| 41°   | 4.5  | 5.8    | 6.0  |
| 42°   | 4.5  | 5.8    | 6.0  |
| 43°   | 4.5  | 5.8    | 6.0  |
| 44°   | 4.5  | 5.5    | 6.0  |
| 45°   | 4.5  | 5.5    | 6.0  |
| 46°   | 4.5  | 5.8    | 6.0  |
| 47°   | 4.5  | 5.8    | 6.3  |
| 48°   | 4.5  | 5.5    | 6.0  |
| 49°   | 4.3  | 5.5    | 6.0  |
| 50°   | 4.3  | 5.5    | 6.0  |
| 51°   | 4.3  | 5.8    | 6.3  |
| 52°   | 4.3  | 5.8    | 6.3  |
| 53°   | 4.3  | 5.8    | 6.3  |
| 54°   | 4.3  | 5.8    | 6.0  |
| 55°   | 4.3  | 5.8    | 6.3  |
| 56°   | 4.3  | 5.8    | 6.0  |
| 57°   | 4.3  | 5.8    | 6.0  |
| 58°   | 4.3  | 5.5    | 6.0  |
| 59°   | 4.3  | 5.5    | 6.0  |
| 60°   | 4.3  | 5.5    | 6.0  |
| 62.5° | 4.0  | 5.5    | 6.0  |
| 65°   | 4.0  | 5.3    | 5.8  |



TEST NUMBER: P1308647

CATALOG NUMBER: P3SQAS02R359035DE010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 3.8  | 5.3    | 5.5  |
| 70°   | 3.5  | 5.0    | 5.3  |
| 72.5° | 3.3  | 4.8    | 5.0  |
| 75°   | 3.0  | 4.3    | 4.5  |
| 77.5° | 2.5  | 3.8    | 4.3  |
| 80°   | 2.3  | 3.3    | 3.5  |
| 82.5° | 1.8  | 2.8    | 3.0  |
| 85°   | 1.3  | 2.0    | 2.0  |
| 87.5° | 0.5  | 1.0    | 1.0  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)