

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: P1313133

Luminaire Tested: P3SQAS05R509730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R509730DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

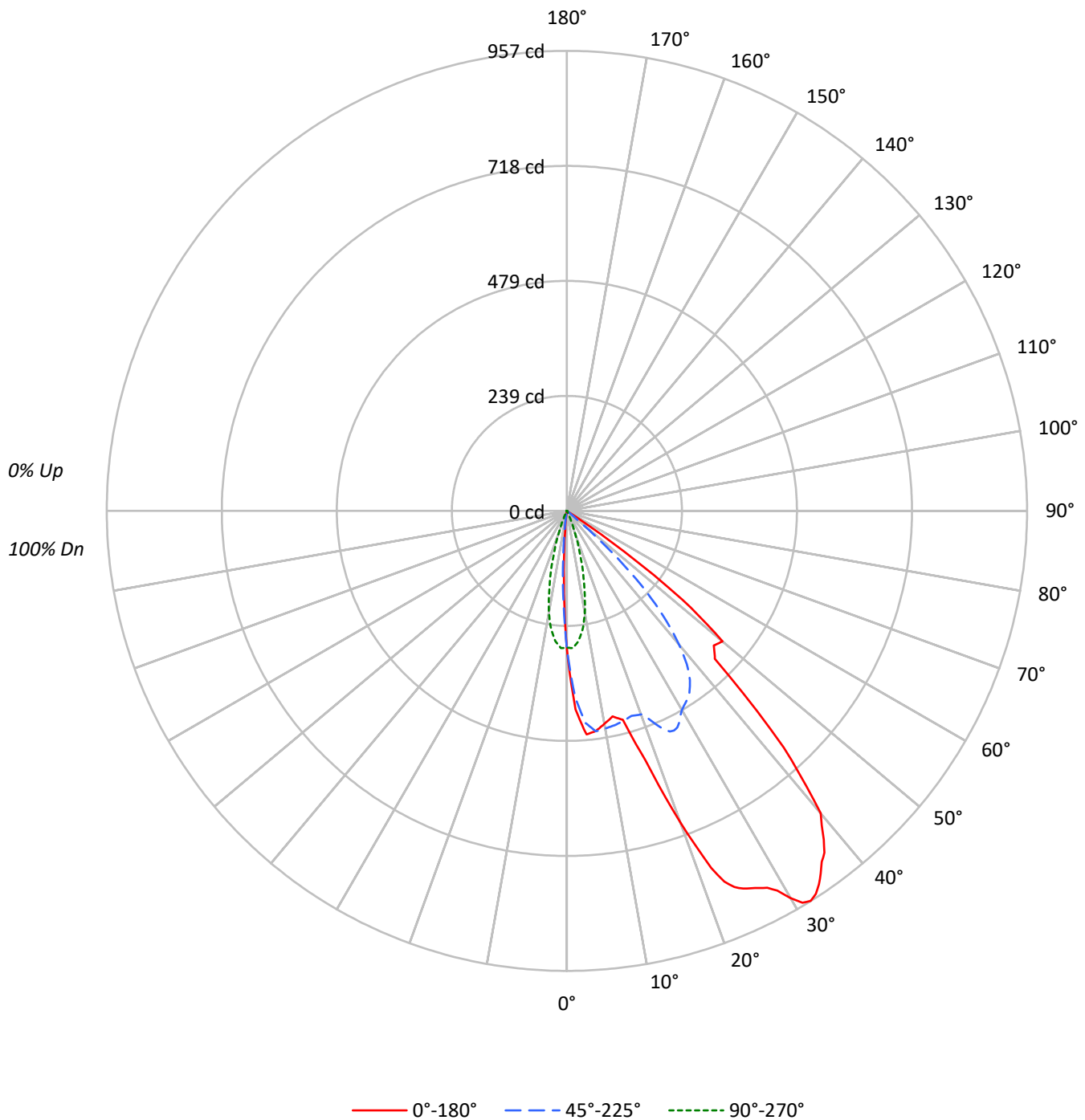
Lumens per Lamp: N/A  
Luminaire Lumens: 457.9 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 75  | 75  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 68  | 68  | 66  |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 55  | 55  | 54  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 50  | 50  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 46  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 42  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 37  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 48980  | 48980 | 48980 | 48980 | 48980 |
| 5°  | 80701  | 76569 | 47058 | 13986 | 6984  |
| 10° | 78643  | 80375 | 37704 | 700   | 944   |
| 15° | 80181  | 80662 | 22590 | 713   | 232   |
| 20° | 126387 | 82584 | 9310  | 0     | 0     |
| 25° | 164753 | 96210 | 2223  | 0     | 0     |
| 30° | 184925 | 95137 | 80    | 0     | 0     |
| 35° | 193531 | 93685 | 0     | 0     | 0     |
| 40° | 184623 | 81408 | 0     | 0     | 0     |
| 45° | 106021 | 53729 | 0     | 0     | 0     |
| 50° | 113147 | 6136  | 0     | 0     | 0     |
| 55° | 32248  | 0     | 0     | 0     | 0     |
| 60° | 0      | 0     | 138   | 0     | 0     |
| 65° | 0      | 163   | 163   | 0     | 0     |
| 70° | 0      | 201   | 201   | 0     | 0     |
| 75° | 0      | 266   | 266   | 0     | 0     |
| 80° | 0      | 397   | 893   | 397   | 0     |
| 85° | 0      | 790   | 1778  | 790   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 117079 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.9   | 5.2       |
| 10°-20°   | 60.2   | 13.1      |
| 20°-30°   | 115.6  | 25.2      |
| 30°-40°   | 134.5  | 29.4      |
| 40°-50°   | 96.3   | 21.0      |
| 50°-60°   | 26.8   | 5.9       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 199.6  | 43.6      |
| 0°-40°    | 334.1  | 73.0      |
| 0°-60°    | 457.2  | 99.8      |
| 0°-90°    | 457.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 457.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 284 | 284 | 284 | 284  | 284  |      |
| 5°  | 467 | 443 | 272 | 81   | 40   | 43   |
| 15° | 450 | 452 | 127 | 4    | 1    | 145  |
| 25° | 867 | 506 | 12  | 0    | 0    | 394  |
| 35° | 920 | 446 | 0   | 0    | 0    | 570  |
| 45° | 435 | 221 | 0   | 0    | 0    | 409  |
| 55° | 107 | 0   | 0   | 0    | 0    | 135  |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 1   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 | 284.4 |
| 2.5°  | 413.3 | 415.5 | 416.0 | 410.6 | 411.5 | 403.9 | 404.3 | 398.9 | 385.9 | 340.5 | 285.7 |
| 5°    | 466.8 | 465.4 | 466.8 | 465.0 | 466.8 | 462.3 | 459.6 | 457.3 | 442.9 | 378.7 | 272.2 |
| 7.5°  | 461.8 | 460.0 | 462.7 | 463.6 | 466.8 | 465.4 | 465.9 | 467.2 | 462.3 | 399.4 | 249.3 |
| 10°   | 449.7 | 449.2 | 450.6 | 450.6 | 454.2 | 454.6 | 456.4 | 459.1 | 459.6 | 406.6 | 215.6 |
| 12.5° | 438.0 | 436.7 | 436.7 | 436.2 | 438.0 | 437.6 | 442.0 | 448.3 | 456.9 | 402.1 | 169.4 |
| 15°   | 449.7 | 448.3 | 446.5 | 441.6 | 438.0 | 434.0 | 434.4 | 438.5 | 452.4 | 390.4 | 126.7 |
| 17.5° | 544.0 | 536.8 | 527.8 | 512.1 | 495.5 | 466.8 | 449.7 | 438.9 | 447.0 | 372.4 | 84.5  |
| 20°   | 689.6 | 686.4 | 672.1 | 646.4 | 619.5 | 577.3 | 524.7 | 482.5 | 450.6 | 350.0 | 50.8  |
| 21°   | 744.8 | 743.0 | 727.8 | 703.9 | 673.4 | 622.2 | 568.3 | 517.5 | 457.8 | 340.5 | 40.0  |
| 22°   | 801.4 | 794.7 | 782.6 | 756.1 | 724.2 | 672.9 | 612.8 | 556.6 | 472.1 | 328.4 | 30.5  |
| 23°   | 837.8 | 833.8 | 820.7 | 799.6 | 769.1 | 719.2 | 657.7 | 596.6 | 486.1 | 314.9 | 22.9  |
| 24°   | 856.7 | 855.3 | 845.0 | 830.2 | 804.1 | 753.4 | 695.0 | 632.1 | 497.7 | 299.2 | 16.6  |
| 25°   | 867.0 | 862.5 | 856.2 | 845.5 | 825.7 | 781.7 | 729.6 | 663.1 | 506.3 | 283.5 | 11.7  |
| 26°   | 873.3 | 870.6 | 860.7 | 851.3 | 832.4 | 796.5 | 752.0 | 681.9 | 508.5 | 264.1 | 8.1   |
| 27°   | 880.5 | 874.2 | 864.8 | 853.5 | 832.4 | 801.0 | 760.6 | 690.0 | 505.8 | 244.4 | 5.4   |
| 28°   | 888.1 | 883.6 | 870.6 | 856.2 | 831.1 | 801.0 | 757.4 | 679.2 | 497.7 | 225.5 | 3.1   |
| 29°   | 903.0 | 897.1 | 880.9 | 859.8 | 831.5 | 800.1 | 745.3 | 656.8 | 487.0 | 204.4 | 1.8   |
| 30°   | 929.9 | 917.8 | 898.0 | 868.4 | 834.7 | 798.3 | 725.1 | 623.1 | 478.4 | 180.6 | 0.4   |
| 31°   | 951.0 | 944.3 | 921.4 | 884.1 | 843.7 | 793.3 | 701.3 | 589.8 | 472.6 | 159.9 | 0.0   |
| 32°   | 956.9 | 951.9 | 935.3 | 900.3 | 858.9 | 789.3 | 674.3 | 557.5 | 468.1 | 137.0 | 0.0   |
| 33°   | 950.1 | 947.0 | 929.5 | 897.6 | 863.0 | 783.9 | 643.3 | 525.6 | 463.2 | 116.4 | 0.0   |
| 34°   | 937.5 | 933.5 | 918.2 | 885.9 | 852.6 | 760.6 | 613.7 | 501.3 | 456.0 | 97.0  | 0.0   |
| 35°   | 920.5 | 917.3 | 901.6 | 869.7 | 833.8 | 724.2 | 584.0 | 485.2 | 445.6 | 77.7  | 0.0   |
| 36°   | 902.1 | 901.2 | 880.9 | 849.5 | 809.5 | 689.1 | 548.1 | 473.0 | 435.3 | 61.5  | 0.0   |
| 37°   | 889.9 | 885.4 | 863.4 | 832.4 | 780.8 | 648.2 | 519.3 | 469.0 | 420.9 | 47.6  | 0.0   |
| 38°   | 867.9 | 868.8 | 843.7 | 815.4 | 751.6 | 612.8 | 496.0 | 465.9 | 404.8 | 34.6  | 0.0   |
| 39°   | 841.9 | 842.3 | 816.3 | 792.0 | 717.0 | 575.5 | 476.6 | 462.7 | 384.5 | 22.0  | 0.0   |
| 40°   | 821.2 | 820.7 | 791.1 | 765.0 | 679.7 | 540.4 | 466.3 | 458.2 | 362.1 | 12.6  | 0.0   |
| 42.5° | 667.6 | 670.3 | 673.8 | 684.6 | 592.1 | 478.9 | 456.4 | 433.1 | 298.3 | 0.0   | 0.0   |
| 45°   | 435.3 | 445.6 | 448.3 | 480.7 | 480.2 | 453.7 | 433.1 | 388.1 | 220.6 | 0.0   | 0.0   |
| 47.5° | 414.2 | 417.3 | 423.2 | 435.8 | 442.5 | 429.5 | 387.2 | 324.3 | 120.4 | 0.0   | 0.0   |
| 50°   | 422.3 | 421.8 | 423.2 | 423.2 | 411.0 | 377.4 | 317.6 | 239.4 | 22.9  | 0.0   | 0.0   |
| 52.5° | 303.2 | 314.5 | 326.6 | 332.0 | 316.3 | 280.8 | 231.8 | 140.6 | 0.0   | 0.0   | 0.0   |
| 55°   | 107.4 | 103.8 | 101.1 | 110.5 | 108.3 | 121.7 | 100.6 | 32.8  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.4   | 1.8   | 4.0   | 5.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4   | 0.9 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4   | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4   | 0.9 |
| 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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CATALOG NUMBER: P3SQAS05R509730DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 284.4  | 284.4 | 284.4  | 284.4 |
| 2.5°  | 227.8  | 174.8 | 141.5  | 143.8 |
| 5°    | 159.9  | 80.9  | 49.9   | 40.4  |
| 7.5°  | 95.7   | 24.7  | 4.9    | 4.0   |
| 10°   | 44.9   | 4.0   | 4.5    | 5.4   |
| 12.5° | 13.5   | 3.6   | 4.9    | 4.5   |
| 15°   | 3.6    | 4.0   | 2.2    | 1.3   |
| 17.5° | 1.3    | 1.8   | 0.0    | 0.0   |
| 20°   | 0.9    | 0.0   | 0.0    | 0.0   |
| 21°   | 0.9    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.4    | 0.4   | 0.0    | 0.0   |





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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.4    | 0.4  | 0.0    | 0.0  |
| 85°   | 0.4    | 0.4  | 0.0    | 0.0  |
| 87.5° | 0.4    | 0.4  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)