

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: P1306233

Luminaire Tested: P3SQAS20R359024D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R359024D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

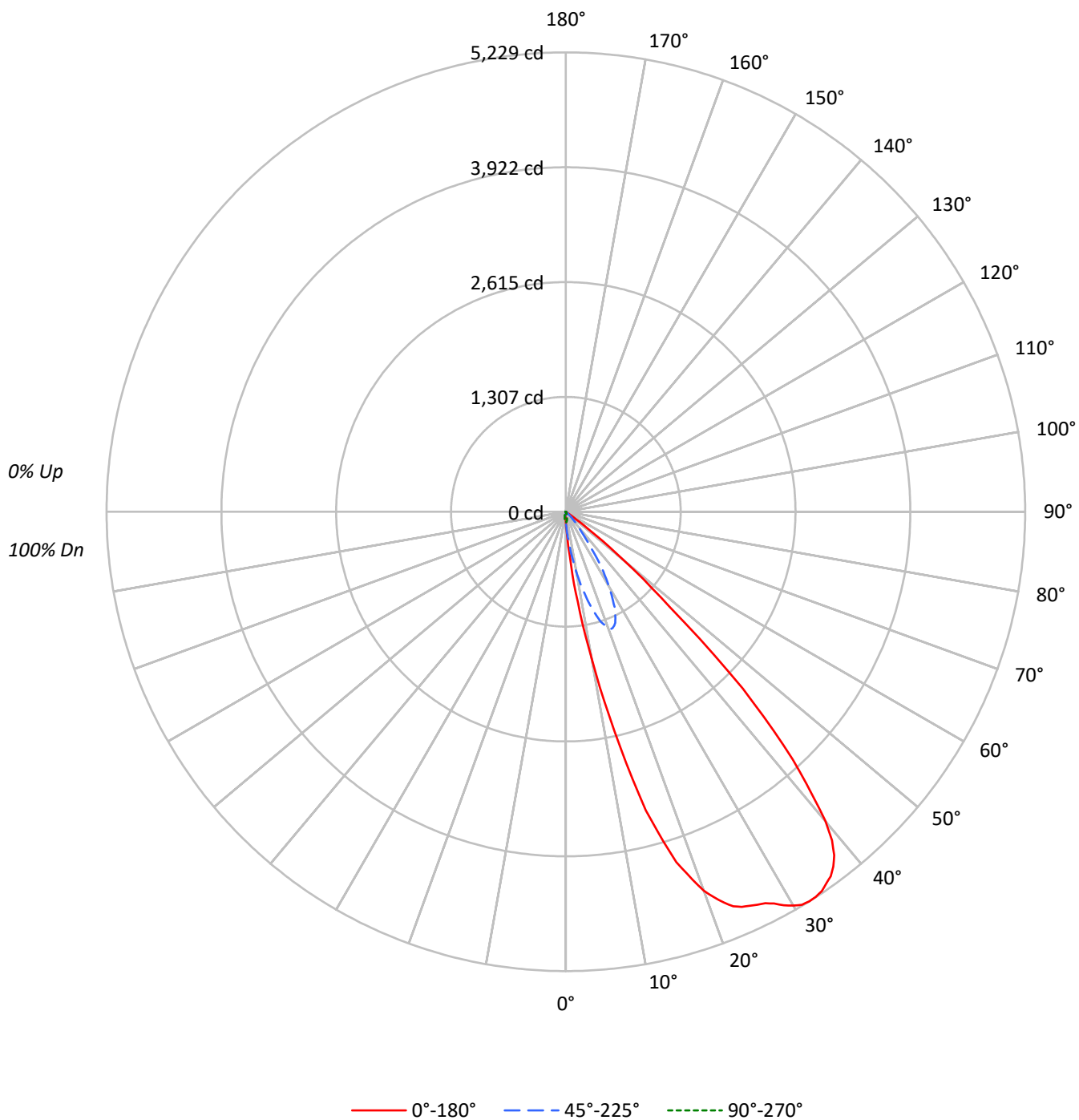
Lumens per Lamp: N/A  
Luminaire Lumens: 1562.0 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.46 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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 | 100 |    |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 20271   | 20271  | 20271 | 20271 | 20271 |
| 5°  | 88100   | 54613  | 18809 | 6690  | 4633  |
| 10° | 296561  | 123255 | 14078 | 1556  | 525   |
| 15° | 627555  | 202190 | 8772  | 0     | 0     |
| 20° | 841436  | 258363 | 4105  | 0     | 0     |
| 25° | 940404  | 253724 | 855   | 0     | 0     |
| 30° | 1029487 | 194391 | 0     | 0     | 0     |
| 35° | 1086504 | 105900 | 0     | 0     | 0     |
| 40° | 1032849 | 47572  | 0     | 0     | 0     |
| 45° | 693219  | 21044  | 0     | 0     | 0     |
| 50° | 231573  | 2009   | 0     | 0     | 0     |
| 55° | 12521   | 0      | 0     | 0     | 0     |
| 60° | 0       | 0      | 517   | 0     | 0     |
| 65° | 0       | 0      | 1223  | 0     | 0     |
| 70° | 0       | 755    | 1511  | 0     | 0     |
| 75° | 0       | 998    | 1996  | 0     | 0     |
| 80° | 0       | 1488   | 2975  | 0     | 0     |
| 85° | 0       | 2964   | 5928  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 693219 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.3   | 1.6       |
| 10°-20°   | 216.7  | 13.9      |
| 20°-30°   | 475.5  | 30.4      |
| 30°-40°   | 550.0  | 35.2      |
| 40°-50°   | 271.5  | 17.4      |
| 50°-60°   | 20.1   | 1.3       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 1.0    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 717.5  | 45.9      |
| 0°-40°    | 1267.6 | 81.1      |
| 0°-60°    | 1559.2 | 99.8      |
| 0°-90°    | 1562.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1562.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 118  | 118  | 118 | 118  | 118  |      |
| 5°  | 510  | 316  | 109 | 39   | 27   | 88   |
| 15° | 3520 | 1134 | 49  | 0    | 0    | 993  |
| 25° | 4949 | 1335 | 4   | 0    | 0    | 2288 |
| 35° | 5168 | 504  | 0   | 0    | 0    | 3191 |
| 45° | 2846 | 86   | 0   | 0    | 0    | 2089 |
| 55° | 42   | 0    | 0   | 0    | 0    | 170  |
| 65° | 0    | 0    | 3   | 0    | 0    | 0    |
| 75° | 0    | 2    | 3   | 0    | 0    | 0    |
| 85° | 0    | 2    | 3   | 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°    | 117.7  | 117.7  | 117.7  | 117.7  | 117.7  | 117.7  | 117.7  | 117.7  | 117.7  | 117.7 | 117.7 |
| 2.5°  | 234.0  | 239.9  | 236.9  | 236.9  | 235.4  | 228.0  | 214.6  | 210.1  | 193.7  | 153.5 | 119.2 |
| 5°    | 509.6  | 511.1  | 506.6  | 484.3  | 464.9  | 447.0  | 408.3  | 390.4  | 315.9  | 187.8 | 108.8 |
| 7.5°  | 1034.2 | 1011.8 | 983.5  | 952.2  | 883.7  | 821.1  | 739.1  | 652.7  | 488.8  | 217.6 | 96.9  |
| 10°   | 1695.8 | 1664.5 | 1640.7 | 1566.1 | 1442.5 | 1314.3 | 1157.8 | 1016.3 | 704.8  | 238.4 | 80.5  |
| 12.5° | 2549.6 | 2531.8 | 2446.8 | 2297.8 | 2114.5 | 1929.7 | 1657.0 | 1432.0 | 922.4  | 242.9 | 65.6  |
| 15°   | 3519.7 | 3489.9 | 3360.3 | 3148.7 | 2899.8 | 2609.2 | 2244.2 | 1865.7 | 1134.0 | 229.5 | 49.2  |
| 17.5° | 4182.8 | 4166.5 | 4054.7 | 3832.7 | 3546.5 | 3177.0 | 2744.9 | 2272.5 | 1308.3 | 201.2 | 34.3  |
| 20°   | 4591.1 | 4567.3 | 4463.0 | 4275.2 | 3975.7 | 3589.8 | 3077.2 | 2531.8 | 1409.7 | 165.4 | 22.4  |
| 21°   | 4696.9 | 4673.1 | 4589.7 | 4394.4 | 4108.3 | 3694.1 | 3168.1 | 2594.3 | 1429.1 | 149.0 | 17.9  |
| 22°   | 4796.8 | 4772.9 | 4685.0 | 4512.2 | 4229.0 | 3796.9 | 3239.6 | 2642.0 | 1426.1 | 135.6 | 13.4  |
| 23°   | 4880.2 | 4854.9 | 4768.5 | 4609.0 | 4324.4 | 3887.8 | 3293.2 | 2665.9 | 1406.7 | 122.2 | 10.4  |
| 24°   | 4923.4 | 4908.5 | 4831.1 | 4680.6 | 4401.9 | 3951.9 | 3330.5 | 2674.8 | 1382.9 | 108.8 | 7.5   |
| 25°   | 4948.8 | 4930.9 | 4854.9 | 4716.3 | 4452.6 | 4002.5 | 3354.3 | 2667.4 | 1335.2 | 96.9  | 4.5   |
| 26°   | 4975.6 | 4948.8 | 4862.3 | 4728.2 | 4479.4 | 4026.4 | 3355.8 | 2648.0 | 1284.5 | 86.4  | 1.5   |
| 27°   | 4999.4 | 4974.1 | 4884.7 | 4737.2 | 4483.9 | 4018.9 | 3343.9 | 2610.7 | 1223.4 | 76.0  | 1.5   |
| 28°   | 5051.6 | 5023.3 | 4920.5 | 4756.5 | 4488.3 | 3999.6 | 3306.6 | 2560.1 | 1142.9 | 67.1  | 0.0   |
| 29°   | 5120.1 | 5090.3 | 4972.6 | 4802.7 | 4498.8 | 3978.7 | 3256.0 | 2493.0 | 1072.9 | 59.6  | 0.0   |
| 30°   | 5176.8 | 5149.9 | 5041.2 | 4860.9 | 4525.6 | 3959.3 | 3196.4 | 2402.1 | 977.5  | 50.7  | 0.0   |
| 31°   | 5218.5 | 5191.7 | 5091.8 | 4910.0 | 4549.4 | 3941.4 | 3121.9 | 2308.2 | 891.1  | 44.7  | 0.0   |
| 32°   | 5228.9 | 5206.6 | 5112.7 | 4930.9 | 4549.4 | 3914.6 | 3053.3 | 2202.4 | 806.2  | 37.3  | 0.0   |
| 33°   | 5224.5 | 5202.1 | 5106.7 | 4916.0 | 4509.2 | 3850.5 | 2969.9 | 2075.8 | 709.3  | 32.8  | 0.0   |
| 34°   | 5208.1 | 5181.2 | 5079.9 | 4868.3 | 4430.2 | 3741.8 | 2849.2 | 1949.1 | 608.0  | 26.8  | 0.0   |
| 35°   | 5167.8 | 5144.0 | 5033.7 | 4778.9 | 4308.0 | 3576.4 | 2688.2 | 1803.1 | 503.7  | 22.4  | 0.0   |
| 36°   | 5129.1 | 5093.3 | 4957.7 | 4668.6 | 4147.1 | 3406.5 | 2496.0 | 1634.7 | 414.3  | 17.9  | 0.0   |
| 37°   | 5057.6 | 5006.9 | 4869.8 | 4509.2 | 3919.1 | 3166.6 | 2276.9 | 1449.9 | 347.2  | 13.4  | 0.0   |
| 38°   | 4962.2 | 4893.6 | 4719.3 | 4324.4 | 3689.6 | 2941.5 | 2071.3 | 1283.0 | 292.1  | 8.9   | 0.0   |
| 39°   | 4814.7 | 4734.2 | 4497.3 | 4071.1 | 3424.4 | 2680.8 | 1835.9 | 1105.7 | 248.9  | 6.0   | 0.0   |
| 40°   | 4594.1 | 4518.1 | 4255.9 | 3770.1 | 3160.6 | 2393.2 | 1594.5 | 906.0  | 211.6  | 3.0   | 0.0   |
| 42.5° | 3825.2 | 3720.9 | 3416.9 | 2934.1 | 2336.6 | 1721.1 | 1055.0 | 503.7  | 140.1  | 0.0   | 0.0   |
| 45°   | 2846.2 | 2753.8 | 2455.8 | 2016.2 | 1557.2 | 1053.5 | 564.8  | 296.5  | 86.4   | 0.0   | 0.0   |
| 47.5° | 1607.9 | 1597.4 | 1403.7 | 1157.8 | 868.8  | 560.3  | 286.1  | 178.8  | 37.3   | 0.0   | 0.0   |
| 50°   | 864.3  | 810.6  | 698.9  | 530.5  | 362.1  | 244.4  | 155.0  | 98.3   | 7.5    | 0.0   | 0.0   |
| 52.5° | 315.9  | 305.5  | 256.3  | 213.1  | 163.9  | 111.8  | 79.0   | 43.2   | 0.0    | 0.0   | 0.0   |
| 55°   | 41.7   | 38.7   | 40.2   | 43.2   | 44.7   | 38.7   | 25.3   | 8.9    | 0.0    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.5    | 3.0    | 3.0    | 3.0    | 0.0    | 0.0    | 0.0   | 1.5   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 1.5   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 1.5   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 3.0   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.0   | 3.0   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0   |



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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 | 0.0 | 1.5 | 3.0   | 3.0 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0   | 3.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0   | 3.0 |
| 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: P3SQAS20R359024D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 117.7  | 117.7 | 117.7  | 117.7 |
| 2.5°  | 90.9   | 70.0  | 59.6   | 58.1  |
| 5°    | 62.6   | 38.7  | 28.3   | 26.8  |
| 7.5°  | 43.2   | 19.4  | 13.4   | 11.9  |
| 10°   | 25.3   | 8.9   | 4.5    | 3.0   |
| 12.5° | 14.9   | 1.5   | 0.0    | 0.0   |
| 15°   | 4.5    | 0.0   | 0.0    | 0.0   |
| 17.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 20°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 21°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.0    | 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°   | 1.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.5    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.5    | 0.0   | 0.0    | 0.0   |



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CATALOG NUMBER: P3SQAS20R359024D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.5    | 0.0  | 0.0    | 0.0  |
| 85°   | 1.5    | 0.0  | 0.0    | 0.0  |
| 87.5° | 1.5    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)