

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: P1308323

Luminaire Tested: P3SQAS20R359030D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308323  
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: P3SQAS20R359030D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

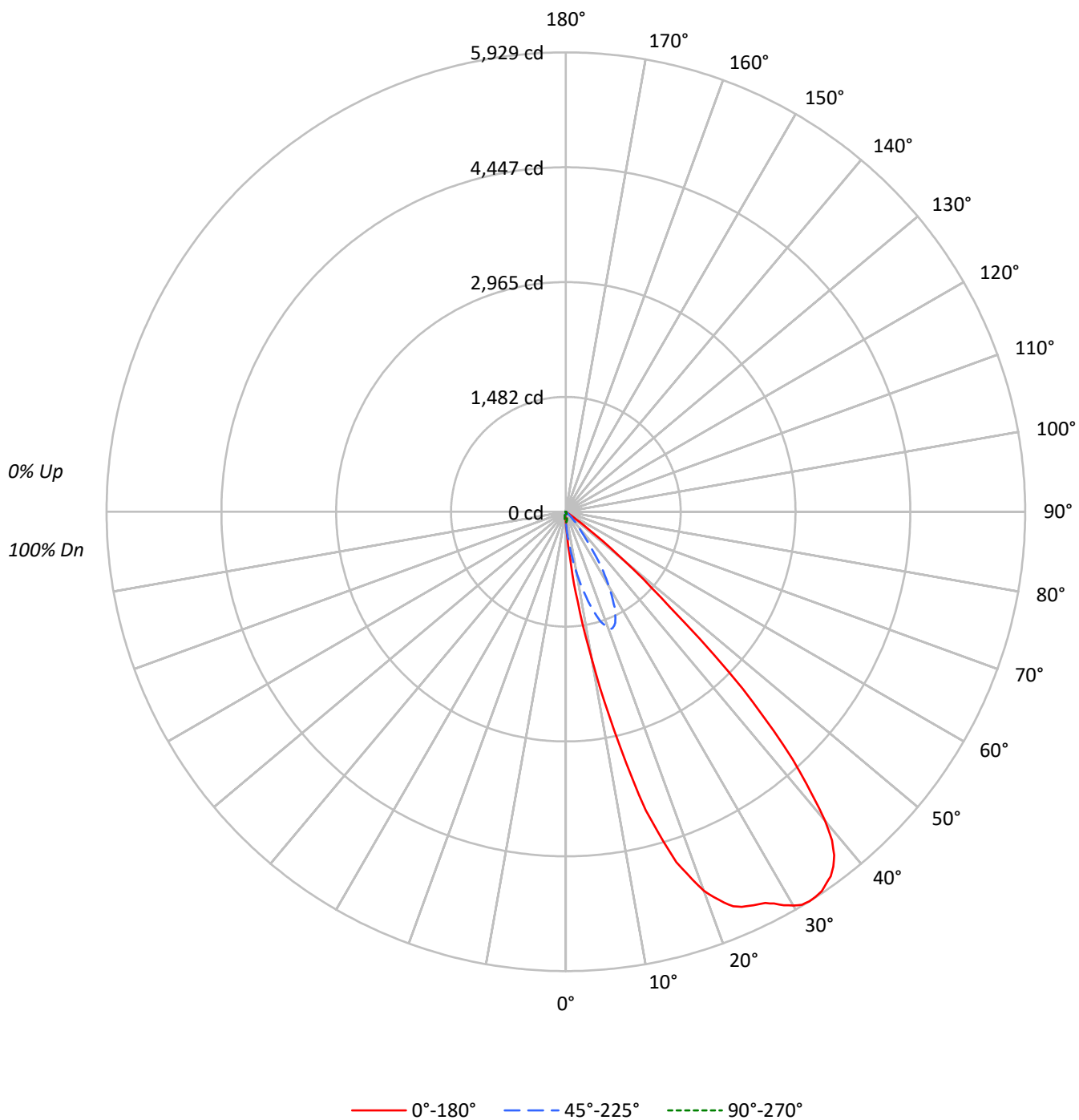
Lumens per Lamp: N/A  
Luminaire Lumens: 1771.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.45 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |    | 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 |    |    |
| 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°  | 22992   | 22992  | 22992 | 22992 | 22992 |
| 5°  | 99890   | 61926  | 21316 | 7589  | 5256  |
| 10° | 336241  | 139746 | 15949 | 1766  | 595   |
| 15° | 711534  | 229238 | 9949  | 0     | 0     |
| 20° | 954041  | 292929 | 4637  | 0     | 0     |
| 25° | 1066221 | 287662 | 969   | 0     | 0     |
| 30° | 1167222 | 220403 | 0     | 0     | 0     |
| 35° | 1231889 | 120071 | 0     | 0     | 0     |
| 40° | 1171046 | 53934  | 0     | 0     | 0     |
| 45° | 785967  | 23869  | 0     | 0     | 0     |
| 50° | 262545  | 2251   | 0     | 0     | 0     |
| 55° | 14202   | 0      | 0     | 0     | 0     |
| 60° | 0       | 0      | 586   | 0     | 0     |
| 65° | 0       | 0      | 1386  | 0     | 0     |
| 70° | 0       | 856    | 1712  | 0     | 0     |
| 75° | 0       | 1131   | 2262  | 0     | 0     |
| 80° | 0       | 1686   | 3372  | 0     | 0     |
| 85° | 0       | 3359   | 6719  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 785967 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.7   | 1.6       |
| 10°-20°   | 245.7  | 13.9      |
| 20°-30°   | 539.2  | 30.4      |
| 30°-40°   | 623.6  | 35.2      |
| 40°-50°   | 307.8  | 17.4      |
| 50°-60°   | 22.8   | 1.3       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 813.6  | 45.9      |
| 0°-40°    | 1437.2 | 81.1      |
| 0°-60°    | 1767.8 | 99.8      |
| 0°-90°    | 1771.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1771.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 134  | 134  | 134 | 134  | 134  |      |
| 5°  | 578  | 358  | 123 | 44   | 30   | 99   |
| 15° | 3991 | 1286 | 56  | 0    | 0    | 1126 |
| 25° | 5611 | 1514 | 5   | 0    | 0    | 2594 |
| 35° | 5859 | 571  | 0   | 0    | 0    | 3618 |
| 45° | 3227 | 98   | 0   | 0    | 0    | 2368 |
| 55° | 47   | 0    | 0   | 0    | 0    | 193  |
| 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°    | 133.5  | 133.5  | 133.5  | 133.5  | 133.5  | 133.5  | 133.5  | 133.5  | 133.5  | 133.5 | 133.5 |
| 2.5°  | 265.3  | 272.0  | 268.6  | 268.6  | 266.9  | 258.5  | 243.3  | 238.2  | 219.6  | 174.0 | 135.2 |
| 5°    | 577.8  | 579.5  | 574.4  | 549.1  | 527.1  | 506.9  | 462.9  | 442.7  | 358.2  | 212.9 | 123.3 |
| 7.5°  | 1172.5 | 1147.2 | 1115.1 | 1079.6 | 1001.9 | 930.9  | 838.0  | 740.0  | 554.2  | 246.7 | 109.8 |
| 10°   | 1922.7 | 1887.2 | 1860.2 | 1775.7 | 1635.5 | 1490.2 | 1312.8 | 1152.3 | 799.1  | 270.3 | 91.2  |
| 12.5° | 2890.8 | 2870.5 | 2774.2 | 2605.3 | 2397.4 | 2187.9 | 1878.8 | 1623.6 | 1045.8 | 275.4 | 74.3  |
| 15°   | 3990.7 | 3956.9 | 3809.9 | 3570.0 | 3287.8 | 2958.4 | 2544.4 | 2115.3 | 1285.7 | 260.2 | 55.8  |
| 17.5° | 4742.5 | 4723.9 | 4597.2 | 4345.5 | 4021.1 | 3602.1 | 3112.1 | 2576.5 | 1483.4 | 228.1 | 38.9  |
| 20°   | 5205.5 | 5178.4 | 5060.2 | 4847.3 | 4507.7 | 4070.1 | 3488.9 | 2870.5 | 1598.3 | 187.5 | 25.3  |
| 21°   | 5325.4 | 5298.4 | 5203.8 | 4982.4 | 4658.0 | 4188.4 | 3591.9 | 2941.5 | 1620.3 | 169.0 | 20.3  |
| 22°   | 5438.6 | 5411.6 | 5311.9 | 5115.9 | 4794.9 | 4304.9 | 3673.0 | 2995.5 | 1616.9 | 153.7 | 15.2  |
| 23°   | 5533.2 | 5504.5 | 5406.5 | 5225.7 | 4903.0 | 4408.0 | 3733.9 | 3022.6 | 1594.9 | 138.5 | 11.8  |
| 24°   | 5582.2 | 5565.3 | 5477.5 | 5306.8 | 4990.9 | 4480.6 | 3776.1 | 3032.7 | 1567.9 | 123.3 | 8.4   |
| 25°   | 5610.9 | 5590.7 | 5504.5 | 5347.4 | 5048.3 | 4538.1 | 3803.1 | 3024.3 | 1513.8 | 109.8 | 5.1   |
| 26°   | 5641.3 | 5610.9 | 5512.9 | 5360.9 | 5078.7 | 4565.1 | 3804.8 | 3002.3 | 1456.4 | 98.0  | 1.7   |
| 27°   | 5668.4 | 5639.7 | 5538.3 | 5371.0 | 5083.8 | 4556.7 | 3791.3 | 2960.1 | 1387.1 | 86.2  | 1.7   |
| 28°   | 5727.5 | 5695.4 | 5578.8 | 5393.0 | 5088.9 | 4534.7 | 3749.1 | 2902.6 | 1295.9 | 76.0  | 0.0   |
| 29°   | 5805.2 | 5771.4 | 5638.0 | 5445.4 | 5100.7 | 4511.1 | 3691.6 | 2826.6 | 1216.5 | 67.6  | 0.0   |
| 30°   | 5869.4 | 5839.0 | 5715.7 | 5511.3 | 5131.1 | 4489.1 | 3624.0 | 2723.5 | 1108.3 | 57.4  | 0.0   |
| 31°   | 5916.7 | 5886.3 | 5773.1 | 5567.0 | 5158.1 | 4468.8 | 3539.6 | 2617.1 | 1010.3 | 50.7  | 0.0   |
| 32°   | 5928.6 | 5903.2 | 5796.8 | 5590.7 | 5158.1 | 4438.4 | 3461.9 | 2497.1 | 914.0  | 42.2  | 0.0   |
| 33°   | 5923.5 | 5898.2 | 5790.0 | 5573.8 | 5112.5 | 4365.8 | 3367.2 | 2353.5 | 804.2  | 37.2  | 0.0   |
| 34°   | 5904.9 | 5874.5 | 5759.6 | 5519.7 | 5023.0 | 4242.4 | 3230.4 | 2209.9 | 689.3  | 30.4  | 0.0   |
| 35°   | 5859.3 | 5832.3 | 5707.2 | 5418.3 | 4884.4 | 4054.9 | 3047.9 | 2044.3 | 571.1  | 25.3  | 0.0   |
| 36°   | 5815.4 | 5774.8 | 5621.1 | 5293.3 | 4702.0 | 3862.3 | 2830.0 | 1853.4 | 469.7  | 20.3  | 0.0   |
| 37°   | 5734.3 | 5676.8 | 5521.4 | 5112.5 | 4443.5 | 3590.3 | 2581.6 | 1643.9 | 393.7  | 15.2  | 0.0   |
| 38°   | 5626.1 | 5548.4 | 5350.7 | 4903.0 | 4183.3 | 3335.1 | 2348.5 | 1454.7 | 331.1  | 10.1  | 0.0   |
| 39°   | 5458.9 | 5367.6 | 5099.0 | 4615.8 | 3882.5 | 3039.5 | 2081.5 | 1253.6 | 282.2  | 6.8   | 0.0   |
| 40°   | 5208.8 | 5122.7 | 4825.3 | 4274.5 | 3583.5 | 2713.4 | 1807.8 | 1027.2 | 239.9  | 3.4   | 0.0   |
| 42.5° | 4337.0 | 4218.8 | 3874.1 | 3326.7 | 2649.2 | 1951.4 | 1196.2 | 571.1  | 158.8  | 0.0   | 0.0   |
| 45°   | 3227.0 | 3122.3 | 2784.3 | 2285.9 | 1765.6 | 1194.5 | 640.3  | 336.2  | 98.0   | 0.0   | 0.0   |
| 47.5° | 1823.0 | 1811.2 | 1591.5 | 1312.8 | 985.0  | 635.3  | 324.4  | 202.7  | 42.2   | 0.0   | 0.0   |
| 50°   | 979.9  | 919.1  | 792.4  | 601.5  | 410.6  | 277.1  | 175.7  | 111.5  | 8.4    | 0.0   | 0.0   |
| 52.5° | 358.2  | 346.4  | 290.6  | 241.6  | 185.8  | 126.7  | 89.5   | 49.0   | 0.0    | 0.0   | 0.0   |
| 55°   | 47.3   | 43.9   | 45.6   | 49.0   | 50.7   | 43.9   | 28.7   | 10.1   | 0.0    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.7    | 3.4    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0   | 1.7   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 3.4   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4   | 3.4   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.4   | 3.4   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.4   | 3.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.4   | 3.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.4   | 3.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.4   | 3.4   |



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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 | 1.7 | 3.4   | 3.4 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4   | 3.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4   | 3.4 |
| 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: P1308323

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 133.5  | 133.5 | 133.5  | 133.5 |
| 2.5°  | 103.1  | 79.4  | 67.6   | 65.9  |
| 5°    | 71.0   | 43.9  | 32.1   | 30.4  |
| 7.5°  | 49.0   | 22.0  | 15.2   | 13.5  |
| 10°   | 28.7   | 10.1  | 5.1    | 3.4   |
| 12.5° | 16.9   | 1.7   | 0.0    | 0.0   |
| 15°   | 5.1    | 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°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.7    | 0.0   | 0.0    | 0.0   |





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CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.7    | 0.0  | 0.0    | 0.0  |
| 85°   | 1.7    | 0.0  | 0.0    | 0.0  |
| 87.5° | 1.7    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)