

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: P1308275

Luminaire Tested: P3SQAS20R209030D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R209030D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

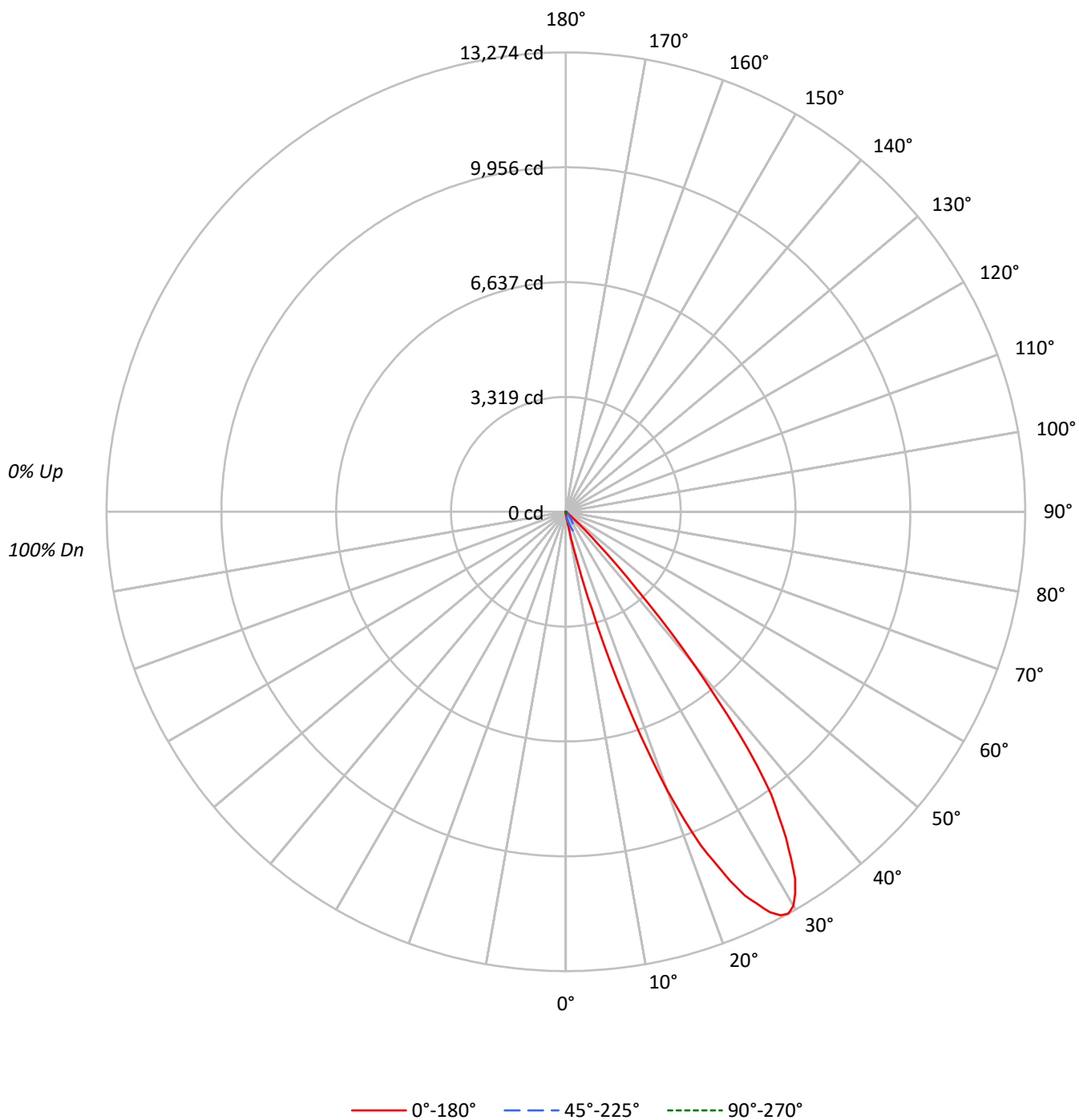
Lumens per Lamp: N/A  
Luminaire Lumens: 1862.1 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1308275

CATALOG NUMBER: P3SQAS20R209030D010 E3SQCA301MW

### 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  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 11057   | 11057  | 11057 | 11057 | 11057 |
| 5°  | 25413   | 18982  | 10511 | 6431  | 5549  |
| 10° | 80060   | 33087  | 8569  | 3550  | 2658  |
| 15° | 518651  | 61138  | 6330  | 1212  | 303   |
| 20° | 1565356 | 104650 | 4325  | 0     | 0     |
| 25° | 2324729 | 105617 | 2565  | 0     | 0     |
| 30° | 2614267 | 80282  | 1014  | 0     | 0     |
| 35° | 2255635 | 47957  | 715   | 0     | 0     |
| 40° | 1298857 | 16322  | 0     | 0     | 0     |
| 45° | 316798  | 6576   | 414   | 0     | 414   |
| 50° | 38019   | 1822   | 455   | 455   | 1366  |
| 55° | 5074    | 0      | 1021  | 1021  | 2042  |
| 60° | 586     | 0      | 1757  | 1757  | 2893  |
| 65° | 693     | 693    | 2771  | 2771  | 4116  |
| 70° | 856     | 856    | 3424  | 3424  | 4230  |
| 75° | 0       | 1131   | 4525  | 3394  | 4525  |
| 80° | 0       | 1686   | 5058  | 3372  | 5058  |
| 85° | 0       | 3359   | 10078 | 3359  | 3359  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 318868 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.6    | 0.5       |
| 10°-20°   | 172.6  | 9.3       |
| 20°-30°   | 752.1  | 40.4      |
| 30°-40°   | 757.4  | 40.7      |
| 40°-50°   | 151.9  | 8.2       |
| 50°-60°   | 7.6    | 0.4       |
| 60°-70°   | 5.0    | 0.3       |
| 70°-80°   | 4.5    | 0.2       |
| 80°-90°   | 2.3    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 933.3  | 50.1      |
| 0°-40°    | 1690.7 | 90.8      |
| 0°-60°    | 1850.3 | 99.4      |
| 0°-90°    | 1862.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1862.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0°  | 64    | 64  | 64  | 64   | 64   |      |
| 5°  | 147   | 110 | 61  | 37   | 32   | 23   |
| 15° | 2909  | 343 | 36  | 7    | 2    | 1139 |
| 25° | 12234 | 556 | 14  | 0    | 0    | 5516 |
| 35° | 10729 | 228 | 3   | 0    | 0    | 6384 |
| 45° | 1301  | 27  | 2   | 0    | 2    | 1416 |
| 55° | 17    | 0   | 3   | 3    | 7    | 31   |
| 65° | 2     | 2   | 7   | 7    | 10   | 2    |
| 75° | 0     | 2   | 7   | 5    | 7    | 1    |
| 85° | 0     | 2   | 5   | 2    | 2    | 0    |
| 90° | 0     | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°     | 12.5°   | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|-------|
| 0°    | 64.2    | 64.2    | 64.2    | 64.2    | 64.2    | 64.2    | 64.2   | 64.2   | 64.2   | 64.2   | 64.2  |
| 2.5°  | 96.3    | 96.3    | 94.6    | 94.6    | 92.9    | 94.6    | 91.2   | 92.9   | 92.9   | 91.2   | 82.8  |
| 5°    | 147.0   | 150.3   | 148.7   | 148.7   | 147.0   | 148.7   | 145.3  | 141.9  | 138.5  | 138.5  | 109.8 |
| 7.5°  | 241.6   | 239.9   | 236.5   | 238.2   | 233.1   | 229.7   | 226.4  | 224.7  | 214.5  | 209.5  | 143.6 |
| 10°   | 457.8   | 467.9   | 459.5   | 457.8   | 427.4   | 425.7   | 405.4  | 376.7  | 351.4  | 337.9  | 189.2 |
| 12.5° | 1260.2  | 1314.3  | 1229.8  | 1189.2  | 1165.6  | 1074.4  | 1035.5 | 935.9  | 839.6  | 766.9  | 239.9 |
| 15°   | 2908.9  | 3042.4  | 2871.8  | 2883.6  | 2741.7  | 2481.5  | 2253.5 | 2057.5 | 1826.1 | 1593.0 | 342.9 |
| 17.5° | 5699.6  | 5591.5  | 5498.6  | 5341.5  | 5052.6  | 4670.8  | 4179.3 | 3680.9 | 3250.2 | 2799.1 | 478.1 |
| 20°   | 8541.0  | 8444.7  | 8233.5  | 7890.6  | 7522.3  | 6956.4  | 6371.9 | 5623.6 | 4898.9 | 4219.8 | 571.0 |
| 21°   | 9519.1  | 9487.0  | 9140.7  | 8929.5  | 8361.9  | 7821.3  | 7147.3 | 6346.6 | 5530.7 | 4726.6 | 586.2 |
| 22°   | 10392.4 | 10199.8 | 10014.0 | 9701.5  | 9137.3  | 8549.4  | 7799.4 | 6956.4 | 6071.3 | 5177.6 | 587.9 |
| 23°   | 10997.2 | 10909.3 | 10733.7 | 10380.6 | 9819.8  | 9128.8  | 8338.3 | 7456.5 | 6524.0 | 5496.9 | 582.8 |
| 24°   | 11666.1 | 11554.6 | 11297.9 | 10885.7 | 10319.8 | 9637.3  | 8735.2 | 7860.2 | 6846.6 | 5765.5 | 569.3 |
| 25°   | 12233.7 | 12059.7 | 11755.7 | 11311.4 | 10693.1 | 9988.7  | 9081.5 | 8120.3 | 7071.3 | 5946.2 | 555.8 |
| 26°   | 12602.0 | 12507.4 | 12117.2 | 11634.0 | 10971.8 | 10245.5 | 9319.7 | 8319.7 | 7216.6 | 6029.0 | 533.8 |
| 27°   | 12985.5 | 12811.5 | 12428.0 | 11872.2 | 11154.3 | 10412.7 | 9454.9 | 8416.0 | 7267.3 | 6032.4 | 506.8 |
| 28°   | 13205.1 | 13015.9 | 12581.7 | 11997.2 | 11272.5 | 10505.6 | 9532.6 | 8446.4 | 7257.1 | 5980.0 | 474.7 |
| 29°   | 13274.3 | 13036.1 | 12612.1 | 12017.5 | 11301.3 | 10512.4 | 9520.8 | 8402.5 | 7167.6 | 5851.6 | 437.5 |
| 30°   | 13145.9 | 12902.7 | 12500.6 | 11921.2 | 11210.0 | 10427.9 | 9411.0 | 8257.2 | 7008.8 | 5667.5 | 403.7 |
| 31°   | 12865.5 | 12659.4 | 12270.9 | 11689.8 | 11007.3 | 10230.3 | 9162.6 | 8019.0 | 6738.5 | 5420.9 | 364.9 |
| 32°   | 12495.6 | 12292.9 | 11911.1 | 11385.7 | 10691.4 | 9907.6  | 8823.1 | 7647.3 | 6420.9 | 5052.6 | 326.0 |
| 33°   | 11939.8 | 11823.2 | 11480.3 | 10978.6 | 10284.3 | 9446.4  | 8367.0 | 7203.1 | 5968.2 | 4643.8 | 292.2 |
| 34°   | 11377.3 | 11230.3 | 10990.4 | 10441.4 | 9694.8  | 8858.6  | 7772.4 | 6589.9 | 5415.8 | 4186.0 | 260.1 |
| 35°   | 10728.6 | 10640.7 | 10264.0 | 9824.8  | 9074.8  | 8220.0  | 7140.6 | 5993.5 | 4772.2 | 3675.9 | 228.1 |
| 36°   | 10100.2 | 9965.0  | 9536.0  | 9071.4  | 8343.3  | 7419.3  | 6353.4 | 5275.6 | 4216.4 | 3197.8 | 194.3 |
| 37°   | 9188.0  | 8981.9  | 8676.1  | 8186.2  | 7334.8  | 6547.6  | 5574.6 | 4574.6 | 3532.3 | 2680.9 | 157.1 |
| 38°   | 8115.3  | 8019.0  | 7595.0  | 7101.7  | 6397.3  | 5650.6  | 4687.7 | 3839.7 | 2914.0 | 2238.3 | 119.9 |
| 39°   | 6850.0  | 6848.3  | 6442.9  | 6086.5  | 5397.2  | 4724.9  | 3856.6 | 3116.7 | 2405.5 | 1802.5 | 92.9  |
| 40°   | 5777.3  | 5578.0  | 5328.0  | 4880.3  | 4351.6  | 3780.6  | 3020.4 | 2439.3 | 1866.6 | 1452.8 | 72.6  |
| 42.5° | 3028.9  | 3012.0  | 2865.0  | 2528.8  | 2233.2  | 1897.1  | 1508.5 | 1256.8 | 983.2  | 800.7  | 45.6  |
| 45°   | 1300.7  | 1309.2  | 1207.8  | 1157.2  | 1042.3  | 902.1   | 761.9  | 635.2  | 543.9  | 440.9  | 27.0  |
| 47.5° | 329.4   | 315.9   | 312.5   | 324.3   | 324.3   | 314.2   | 282.1  | 265.2  | 244.9  | 224.7  | 15.2  |
| 50°   | 141.9   | 138.5   | 135.1   | 135.1   | 126.7   | 121.6   | 113.2  | 103.0  | 94.6   | 84.5   | 6.8   |
| 52.5° | 52.4    | 54.1    | 55.7    | 54.1    | 54.1    | 52.4    | 52.4   | 50.7   | 45.6   | 40.5   | 3.4   |
| 55°   | 16.9    | 16.9    | 16.9    | 18.6    | 18.6    | 20.3    | 20.3   | 20.3   | 20.3   | 18.6   | 0.0   |
| 57.5° | 3.4     | 3.4     | 5.1     | 5.1     | 5.1     | 5.1     | 5.1    | 5.1    | 6.8    | 6.8    | 0.0   |
| 60°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7   |
| 65°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7   |
| 67.5° | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7   |
| 70°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7   |
| 72.5° | 1.7     | 0.0     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7    | 1.7    | 1.7    | 1.7    | 1.7   |
| 75°   | 0.0     | 0.0     | 0.0     | 1.7     | 0.0     | 1.7     | 1.7    | 0.0    | 1.7    | 1.7    | 1.7   |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 1.7    | 1.7   |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.7 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.7 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.7 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 64.2  | 64.2 | 64.2   | 64.2 | 64.2   | 64.2 |
| 2.5°  | 74.3  | 65.9 | 55.7   | 47.3 | 45.6   | 43.9 |
| 5°    | 82.8  | 60.8 | 45.6   | 37.2 | 33.8   | 32.1 |
| 7.5°  | 89.5  | 55.7 | 37.2   | 27.0 | 23.6   | 22.0 |
| 10°   | 92.9  | 49.0 | 30.4   | 20.3 | 15.2   | 15.2 |
| 12.5° | 94.6  | 42.2 | 22.0   | 13.5 | 8.4    | 8.4  |
| 15°   | 92.9  | 35.5 | 16.9   | 6.8  | 1.7    | 1.7  |
| 17.5° | 84.5  | 28.7 | 10.1   | 1.7  | 0.0    | 0.0  |
| 20°   | 72.6  | 23.6 | 6.8    | 0.0  | 0.0    | 0.0  |
| 21°   | 69.3  | 20.3 | 5.1    | 0.0  | 0.0    | 0.0  |
| 22°   | 64.2  | 18.6 | 3.4    | 0.0  | 0.0    | 0.0  |
| 23°   | 59.1  | 16.9 | 3.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 54.1  | 15.2 | 1.7    | 0.0  | 0.0    | 0.0  |
| 25°   | 50.7  | 13.5 | 1.7    | 0.0  | 0.0    | 0.0  |
| 26°   | 47.3  | 11.8 | 1.7    | 0.0  | 0.0    | 0.0  |
| 27°   | 42.2  | 10.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 38.9  | 8.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 33.8  | 6.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 28.7  | 5.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 23.6  | 5.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 20.3  | 3.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 16.9  | 3.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 15.2  | 3.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 13.5  | 3.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 10.1  | 1.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 8.4   | 1.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 6.8   | 1.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 5.1   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 5.1   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 1.7   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 1.7  | 0.0    | 0.0  | 1.7    | 1.7  |
| 47.5° | 0.0   | 1.7  | 0.0    | 0.0  | 1.7    | 3.4  |
| 50°   | 0.0   | 1.7  | 1.7    | 1.7  | 3.4    | 5.1  |
| 52.5° | 0.0   | 3.4  | 1.7    | 1.7  | 5.1    | 5.1  |
| 55°   | 1.7   | 3.4  | 1.7    | 3.4  | 6.8    | 6.8  |
| 57.5° | 1.7   | 3.4  | 3.4    | 5.1  | 6.8    | 8.4  |
| 60°   | 3.4   | 5.1  | 5.1    | 5.1  | 8.4    | 8.4  |
| 62.5° | 3.4   | 5.1  | 6.8    | 6.8  | 8.4    | 10.1 |
| 65°   | 3.4   | 6.8  | 6.8    | 6.8  | 8.4    | 10.1 |
| 67.5° | 5.1   | 6.8  | 6.8    | 6.8  | 8.4    | 10.1 |
| 70°   | 5.1   | 6.8  | 6.8    | 6.8  | 8.4    | 8.4  |
| 72.5° | 5.1   | 6.8  | 5.1    | 6.8  | 6.8    | 8.4  |
| 75°   | 5.1   | 6.8  | 5.1    | 5.1  | 6.8    | 6.8  |
| 77.5° | 3.4   | 5.1  | 5.1    | 3.4  | 5.1    | 5.1  |
| 80°   | 3.4   | 5.1  | 3.4    | 3.4  | 5.1    | 5.1  |





TEST NUMBER: P1308275

CATALOG NUMBER: P3SQAS20R209030D010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 3.4   | 5.1 | 3.4    | 1.7  | 3.4    | 3.4  |
| 85°   | 3.4   | 5.1 | 3.4    | 1.7  | 1.7    | 1.7  |
| 87.5° | 3.4   | 5.1 | 3.4    | 1.7  | 0.0    | 1.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)