

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: P1306443

Luminaire Tested: P3SQAS02R509027DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306443  
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: P3SQAS02R509027DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

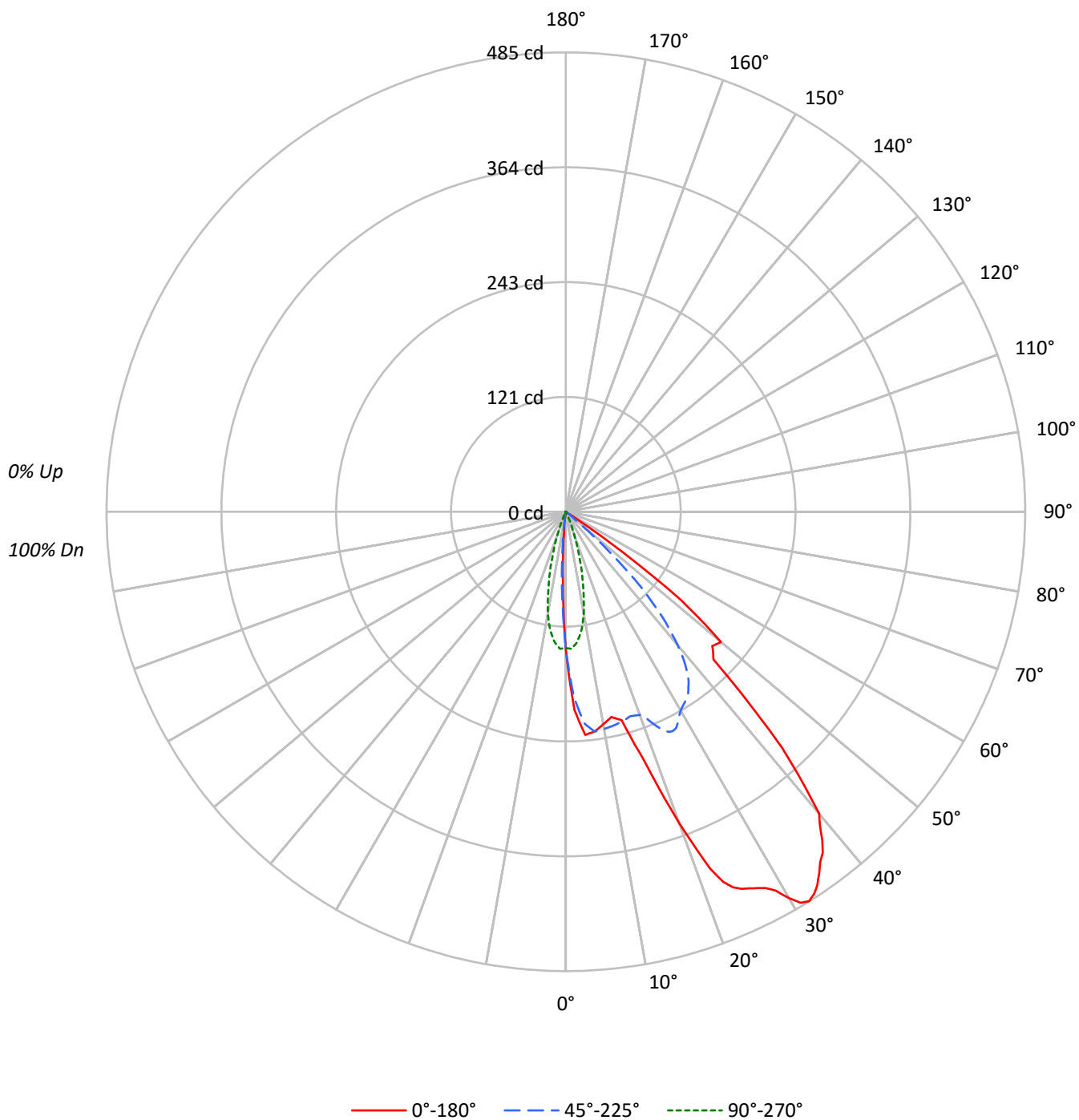
Lumens per Lamp: N/A  
Luminaire Lumens: 232.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA301MB

### 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°  | 24800 | 24800 | 24800 | 24800 | 24800 |
| 5°  | 40869 | 38794 | 23840 | 7088  | 3544  |
| 10° | 39838 | 40712 | 19097 | 350   | 472   |
| 15° | 40616 | 40866 | 11447 | 357   | 125   |
| 20° | 64018 | 41823 | 4710  | 0     | 0     |
| 25° | 83460 | 48742 | 1121  | 0     | 0     |
| 30° | 93666 | 48185 | 40    | 0     | 0     |
| 35° | 98037 | 47452 | 0     | 0     | 0     |
| 40° | 93525 | 41232 | 0     | 0     | 0     |
| 45° | 53705 | 27206 | 0     | 0     | 0     |
| 50° | 57310 | 3108  | 0     | 0     | 0     |
| 55° | 16334 | 0     | 0     | 0     | 0     |
| 60° | 0     | 0     | 69    | 0     | 0     |
| 65° | 0     | 82    | 82    | 0     | 0     |
| 70° | 0     | 101   | 101   | 0     | 0     |
| 75° | 0     | 133   | 133   | 0     | 0     |
| 80° | 0     | 198   | 496   | 198   | 0     |
| 85° | 0     | 395   | 988   | 395   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 59307 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.1   | 5.2       |
| 10°-20°   | 30.5   | 13.1      |
| 20°-30°   | 58.5   | 25.2      |
| 30°-40°   | 68.1   | 29.4      |
| 40°-50°   | 48.8   | 21.0      |
| 50°-60°   | 13.6   | 5.9       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.1    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 101.1  | 43.6      |
| 0°-40°    | 169.3  | 73.0      |
| 0°-60°    | 231.6  | 99.8      |
| 0°-90°    | 232.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 232.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 144 | 144 | 144 | 144  | 144  |      |
| 5°  | 236 | 224 | 138 | 41   | 20   | 22   |
| 15° | 228 | 229 | 64  | 2    | 1    | 74   |
| 25° | 439 | 256 | 6   | 0    | 0    | 200  |
| 35° | 466 | 226 | 0   | 0    | 0    | 288  |
| 45° | 220 | 112 | 0   | 0    | 0    | 207  |
| 55° | 54  | 0   | 0   | 0    | 0    | 68   |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1306443

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 | 144.0 |
| 2.5°  | 209.4 | 210.5 | 210.7 | 208.0 | 208.4 | 204.6 | 204.8 | 202.1 | 195.5 | 172.5 | 144.7 |
| 5°    | 236.4 | 235.8 | 236.4 | 235.5 | 236.4 | 234.2 | 232.8 | 231.7 | 224.4 | 191.8 | 137.9 |
| 7.5°  | 233.9 | 233.0 | 234.4 | 234.8 | 236.4 | 235.8 | 236.0 | 236.7 | 234.2 | 202.3 | 126.3 |
| 10°   | 227.8 | 227.6 | 228.2 | 228.2 | 230.1 | 230.3 | 231.2 | 232.6 | 232.8 | 205.9 | 109.2 |
| 12.5° | 221.9 | 221.2 | 221.2 | 221.0 | 221.9 | 221.6 | 223.9 | 227.1 | 231.4 | 203.7 | 85.8  |
| 15°   | 227.8 | 227.1 | 226.2 | 223.7 | 221.9 | 219.8 | 220.0 | 222.1 | 229.2 | 197.7 | 64.2  |
| 17.5° | 275.6 | 271.9 | 267.4 | 259.4 | 251.0 | 236.4 | 227.8 | 222.3 | 226.4 | 188.6 | 42.8  |
| 20°   | 349.3 | 347.7 | 340.4 | 327.5 | 313.8 | 292.4 | 265.8 | 244.4 | 228.2 | 177.3 | 25.7  |
| 21°   | 377.3 | 376.4 | 368.6 | 356.6 | 341.1 | 315.2 | 287.9 | 262.1 | 231.9 | 172.5 | 20.3  |
| 22°   | 406.0 | 402.6 | 396.4 | 383.0 | 366.8 | 340.9 | 310.4 | 281.9 | 239.2 | 166.3 | 15.5  |
| 23°   | 424.4 | 422.3 | 415.7 | 405.1 | 389.6 | 364.3 | 333.1 | 302.2 | 246.2 | 159.5 | 11.6  |
| 24°   | 434.0 | 433.3 | 428.0 | 420.5 | 407.3 | 381.6 | 352.0 | 320.2 | 252.1 | 151.6 | 8.4   |
| 25°   | 439.2 | 436.9 | 433.7 | 428.3 | 418.3 | 396.0 | 369.6 | 335.9 | 256.5 | 143.6 | 5.9   |
| 26°   | 442.4 | 441.0 | 436.0 | 431.2 | 421.7 | 403.5 | 380.9 | 345.4 | 257.6 | 133.8 | 4.1   |
| 27°   | 446.0 | 442.8 | 438.1 | 432.4 | 421.7 | 405.7 | 385.3 | 349.5 | 256.2 | 123.8 | 2.7   |
| 28°   | 449.9 | 447.6 | 441.0 | 433.7 | 421.0 | 405.7 | 383.7 | 344.1 | 252.1 | 114.2 | 1.6   |
| 29°   | 457.4 | 454.4 | 446.2 | 435.5 | 421.2 | 405.3 | 377.5 | 332.7 | 246.7 | 103.5 | 0.9   |
| 30°   | 471.0 | 464.9 | 454.9 | 439.9 | 422.8 | 404.4 | 367.3 | 315.6 | 242.3 | 91.5  | 0.2   |
| 31°   | 481.7 | 478.3 | 466.7 | 447.8 | 427.4 | 401.9 | 355.2 | 298.8 | 239.4 | 81.0  | 0.0   |
| 32°   | 484.7 | 482.2 | 473.8 | 456.0 | 435.1 | 399.8 | 341.6 | 282.4 | 237.1 | 69.4  | 0.0   |
| 33°   | 481.3 | 479.7 | 470.8 | 454.7 | 437.1 | 397.1 | 325.9 | 266.2 | 234.6 | 58.9  | 0.0   |
| 34°   | 474.9 | 472.9 | 465.1 | 448.7 | 431.9 | 385.3 | 310.8 | 254.0 | 231.0 | 49.2  | 0.0   |
| 35°   | 466.3 | 464.7 | 456.7 | 440.6 | 422.3 | 366.8 | 295.8 | 245.8 | 225.7 | 39.4  | 0.0   |
| 36°   | 456.9 | 456.5 | 446.2 | 430.3 | 410.1 | 349.1 | 277.6 | 239.6 | 220.5 | 31.2  | 0.0   |
| 37°   | 450.8 | 448.5 | 437.4 | 421.7 | 395.5 | 328.4 | 263.1 | 237.6 | 213.2 | 24.1  | 0.0   |
| 38°   | 439.6 | 440.1 | 427.4 | 413.0 | 380.7 | 310.4 | 251.2 | 236.0 | 205.0 | 17.5  | 0.0   |
| 39°   | 426.4 | 426.7 | 413.5 | 401.2 | 363.2 | 291.5 | 241.4 | 234.4 | 194.8 | 11.2  | 0.0   |
| 40°   | 416.0 | 415.7 | 400.7 | 387.5 | 344.3 | 273.8 | 236.2 | 232.1 | 183.4 | 6.4   | 0.0   |
| 42.5° | 338.2 | 339.5 | 341.3 | 346.8 | 299.9 | 242.6 | 231.2 | 219.4 | 151.1 | 0.0   | 0.0   |
| 45°   | 220.5 | 225.7 | 227.1 | 243.5 | 243.3 | 229.8 | 219.4 | 196.6 | 111.7 | 0.0   | 0.0   |
| 47.5° | 209.8 | 211.4 | 214.4 | 220.7 | 224.1 | 217.5 | 196.2 | 164.3 | 61.0  | 0.0   | 0.0   |
| 50°   | 213.9 | 213.7 | 214.4 | 214.4 | 208.2 | 191.1 | 160.9 | 121.3 | 11.6  | 0.0   | 0.0   |
| 52.5° | 153.6 | 159.3 | 165.4 | 168.2 | 160.2 | 142.2 | 117.4 | 71.2  | 0.0   | 0.0   | 0.0   |
| 55°   | 54.4  | 52.6  | 51.2  | 56.0  | 54.8  | 61.7  | 51.0  | 16.6  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.2   | 0.9   | 2.0   | 2.7   | 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   | 0.2   | 0.2   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |



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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 | 0.2 | 0.2 | 0.2   | 0.5 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2   | 0.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2   | 0.5 |
| 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: P1306443

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 144.0  | 144.0 | 144.0  | 144.0 |
| 2.5°  | 115.4  | 88.5  | 71.7   | 72.8  |
| 5°    | 81.0   | 41.0  | 25.3   | 20.5  |
| 7.5°  | 48.5   | 12.5  | 2.5    | 2.0   |
| 10°   | 22.8   | 2.0   | 2.3    | 2.7   |
| 12.5° | 6.8    | 1.8   | 2.5    | 2.3   |
| 15°   | 1.8    | 2.0   | 1.1    | 0.7   |
| 17.5° | 0.7    | 0.9   | 0.0    | 0.0   |
| 20°   | 0.5    | 0.0   | 0.0    | 0.0   |
| 21°   | 0.5    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.2    | 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°   | 0.2    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.2    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.2    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.2    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.2    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.2    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.2    | 0.2   | 0.0    | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.2    | 0.2  | 0.0    | 0.0  |
| 85°   | 0.2    | 0.2  | 0.0    | 0.0  |
| 87.5° | 0.2    | 0.2  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)