

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: P1314909

Luminaire Tested: P3SQAS02R509740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314909  
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: P3SQAS02R509740DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

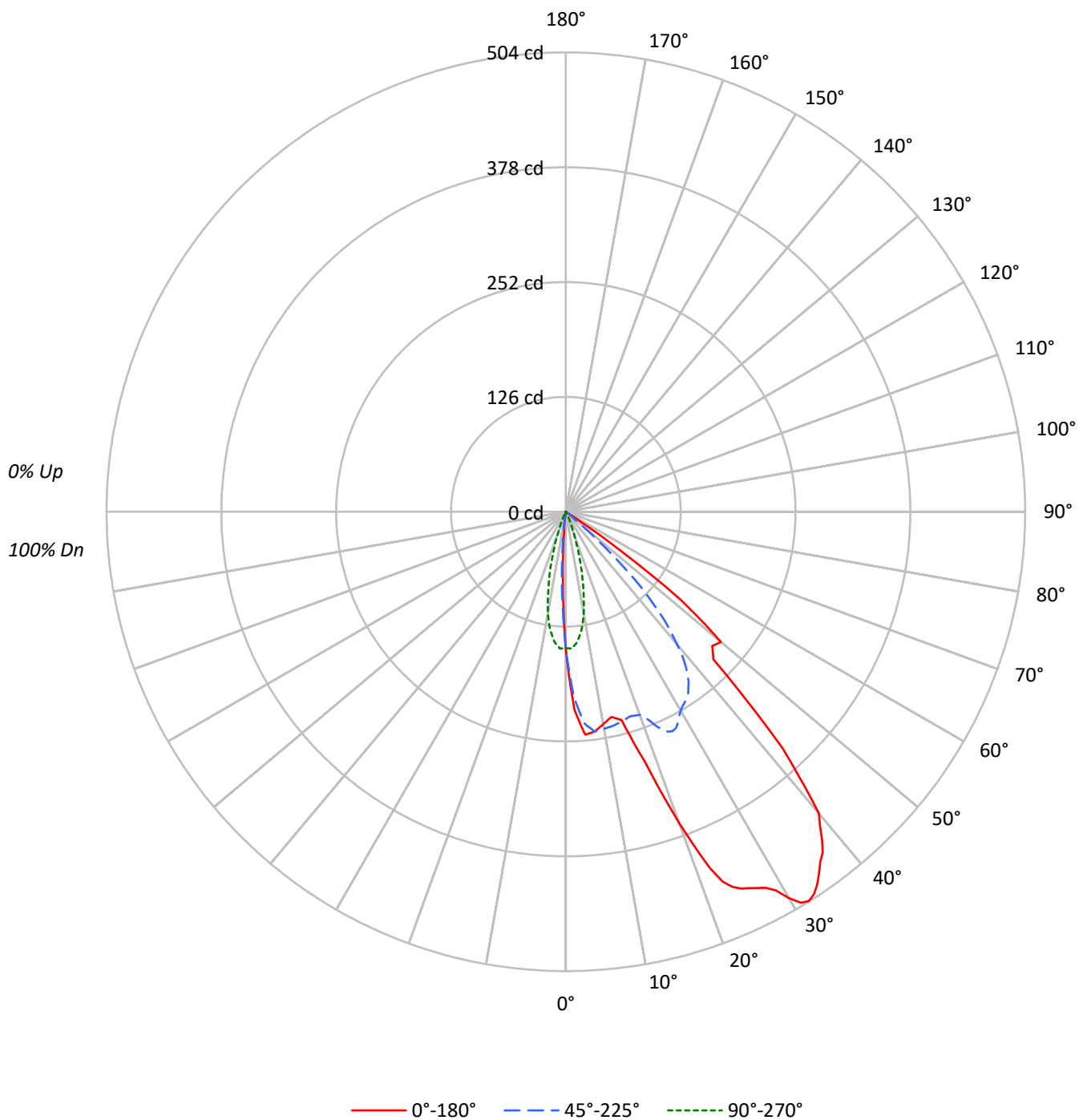
Lumens per Lamp: N/A  
Luminaire Lumens: 241.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 25765  | 25765 | 25765 | 25765 | 25765 |
| 5°  | 42459  | 40298 | 24774 | 7347  | 3682  |
| 10° | 41376  | 42286 | 19849 | 367   | 490   |
| 15° | 42185  | 42435 | 11892 | 374   | 125   |
| 20° | 66511  | 43455 | 4893  | 0     | 0     |
| 25° | 86690  | 50623 | 1159  | 0     | 0     |
| 30° | 97305  | 50074 | 40    | 0     | 0     |
| 35° | 101843 | 49302 | 0     | 0     | 0     |
| 40° | 97145  | 42828 | 0     | 0     | 0     |
| 45° | 55800  | 28277 | 0     | 0     | 0     |
| 50° | 59534  | 3242  | 0     | 0     | 0     |
| 55° | 16965  | 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: 61596 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.6   | 5.2       |
| 10°-20°   | 31.7   | 13.1      |
| 20°-30°   | 60.8   | 25.2      |
| 30°-40°   | 70.8   | 29.4      |
| 40°-50°   | 50.7   | 21.0      |
| 50°-60°   | 14.1   | 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°    | 105.0  | 43.6      |
| 0°-40°    | 175.8  | 73.0      |
| 0°-60°    | 240.6  | 99.8      |
| 0°-90°    | 241.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 241.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 150 | 150 | 150 | 150  | 150  |      |
| 5°  | 246 | 233 | 143 | 42   | 21   | 23   |
| 15° | 237 | 238 | 67  | 2    | 1    | 76   |
| 25° | 456 | 266 | 6   | 0    | 0    | 208  |
| 35° | 484 | 234 | 0   | 0    | 0    | 300  |
| 45° | 229 | 116 | 0   | 0    | 0    | 215  |
| 55° | 56  | 0   | 0   | 0    | 0    | 71   |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 | 149.6 |
| 2.5°  | 217.5 | 218.7 | 218.9 | 216.1 | 216.5 | 212.5 | 212.7 | 209.9 | 203.1 | 179.2 | 150.3 |
| 5°    | 245.6 | 244.9 | 245.6 | 244.7 | 245.6 | 243.2 | 241.8 | 240.6 | 233.1 | 199.3 | 143.3 |
| 7.5°  | 243.0 | 242.1 | 243.5 | 244.0 | 245.6 | 244.9 | 245.1 | 245.8 | 243.2 | 210.1 | 131.2 |
| 10°   | 236.6 | 236.4 | 237.1 | 237.1 | 239.0 | 239.2 | 240.2 | 241.6 | 241.8 | 213.9 | 113.5 |
| 12.5° | 230.5 | 229.8 | 229.8 | 229.5 | 230.5 | 230.2 | 232.6 | 235.9 | 240.4 | 211.6 | 89.1  |
| 15°   | 236.6 | 235.9 | 235.0 | 232.4 | 230.5 | 228.3 | 228.6 | 230.7 | 238.0 | 205.4 | 66.7  |
| 17.5° | 286.3 | 282.5 | 277.8 | 269.5 | 260.7 | 245.6 | 236.6 | 230.9 | 235.2 | 196.0 | 44.4  |
| 20°   | 362.9 | 361.2 | 353.6 | 340.2 | 326.0 | 303.8 | 276.1 | 253.9 | 237.1 | 184.1 | 26.7  |
| 21°   | 391.9 | 391.0 | 382.9 | 370.4 | 354.3 | 327.4 | 299.0 | 272.3 | 240.9 | 179.2 | 21.0  |
| 22°   | 421.7 | 418.2 | 411.8 | 397.8 | 381.1 | 354.1 | 322.4 | 292.9 | 248.4 | 172.8 | 16.1  |
| 23°   | 440.9 | 438.7 | 431.9 | 420.8 | 404.7 | 378.5 | 346.1 | 313.9 | 255.8 | 165.7 | 12.1  |
| 24°   | 450.8 | 450.1 | 444.6 | 436.8 | 423.1 | 396.4 | 365.7 | 332.6 | 261.9 | 157.4 | 8.7   |
| 25°   | 456.2 | 453.9 | 450.6 | 444.9 | 434.5 | 411.3 | 383.9 | 348.9 | 266.4 | 149.2 | 6.1   |
| 26°   | 459.5 | 458.1 | 452.9 | 448.0 | 438.0 | 419.1 | 395.7 | 358.8 | 267.6 | 139.0 | 4.3   |
| 27°   | 463.3 | 460.0 | 455.0 | 449.1 | 438.0 | 421.5 | 400.2 | 363.1 | 266.2 | 128.6 | 2.8   |
| 28°   | 467.3 | 465.0 | 458.1 | 450.6 | 437.3 | 421.5 | 398.5 | 357.4 | 261.9 | 118.7 | 1.7   |
| 29°   | 475.1 | 472.1 | 463.6 | 452.4 | 437.6 | 421.0 | 392.2 | 345.6 | 256.2 | 107.6 | 0.9   |
| 30°   | 489.3 | 482.9 | 472.5 | 456.9 | 439.2 | 420.1 | 381.5 | 327.9 | 251.8 | 95.0  | 0.2   |
| 31°   | 500.4 | 496.9 | 484.8 | 465.2 | 443.9 | 417.5 | 369.0 | 310.4 | 248.7 | 84.2  | 0.0   |
| 32°   | 503.5 | 500.9 | 492.2 | 473.7 | 452.0 | 415.3 | 354.8 | 293.4 | 246.3 | 72.1  | 0.0   |
| 33°   | 500.0 | 498.3 | 489.1 | 472.3 | 454.1 | 412.5 | 338.5 | 276.6 | 243.7 | 61.2  | 0.0   |
| 34°   | 493.3 | 491.2 | 483.2 | 466.2 | 448.7 | 400.2 | 322.9 | 263.8 | 239.9 | 51.1  | 0.0   |
| 35°   | 484.4 | 482.7 | 474.4 | 457.6 | 438.7 | 381.1 | 307.3 | 255.3 | 234.5 | 40.9  | 0.0   |
| 36°   | 474.7 | 474.2 | 463.6 | 447.0 | 426.0 | 362.6 | 288.4 | 248.9 | 229.1 | 32.4  | 0.0   |
| 37°   | 468.3 | 465.9 | 454.3 | 438.0 | 410.8 | 341.1 | 273.3 | 246.8 | 221.5 | 25.1  | 0.0   |
| 38°   | 456.7 | 457.2 | 443.9 | 429.0 | 395.5 | 322.4 | 261.0 | 245.1 | 213.0 | 18.2  | 0.0   |
| 39°   | 443.0 | 443.2 | 429.5 | 416.7 | 377.3 | 302.8 | 250.8 | 243.5 | 202.3 | 11.6  | 0.0   |
| 40°   | 432.1 | 431.9 | 416.3 | 402.6 | 357.7 | 284.4 | 245.4 | 241.1 | 190.5 | 6.6   | 0.0   |
| 42.5° | 351.3 | 352.7 | 354.6 | 360.3 | 311.6 | 252.0 | 240.2 | 227.9 | 157.0 | 0.0   | 0.0   |
| 45°   | 229.1 | 234.5 | 235.9 | 252.9 | 252.7 | 238.8 | 227.9 | 204.2 | 116.1 | 0.0   | 0.0   |
| 47.5° | 217.9 | 219.6 | 222.7 | 229.3 | 232.8 | 226.0 | 203.8 | 170.7 | 63.4  | 0.0   | 0.0   |
| 50°   | 222.2 | 222.0 | 222.7 | 222.7 | 216.3 | 198.6 | 167.1 | 126.0 | 12.1  | 0.0   | 0.0   |
| 52.5° | 159.6 | 165.5 | 171.9 | 174.7 | 166.4 | 147.7 | 122.0 | 74.0  | 0.0   | 0.0   | 0.0   |
| 55°   | 56.5  | 54.6  | 53.2  | 58.2  | 57.0  | 64.1  | 53.0  | 17.3  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.2   | 0.9   | 2.1   | 2.8   | 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: P1314909

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 149.6  | 149.6 | 149.6  | 149.6 |
| 2.5°  | 119.8  | 92.0  | 74.5   | 75.6  |
| 5°    | 84.2   | 42.5  | 26.2   | 21.3  |
| 7.5°  | 50.4   | 13.0  | 2.6    | 2.1   |
| 10°   | 23.6   | 2.1   | 2.4    | 2.8   |
| 12.5° | 7.1    | 1.9   | 2.6    | 2.4   |
| 15°   | 1.9    | 2.1   | 1.2    | 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)