

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: P1344854

Luminaire Tested: P3A13R25W2N902765DE010 E3CA301MW\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R25W2N902765DE010 E3CA301MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 90CRI ,  
E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

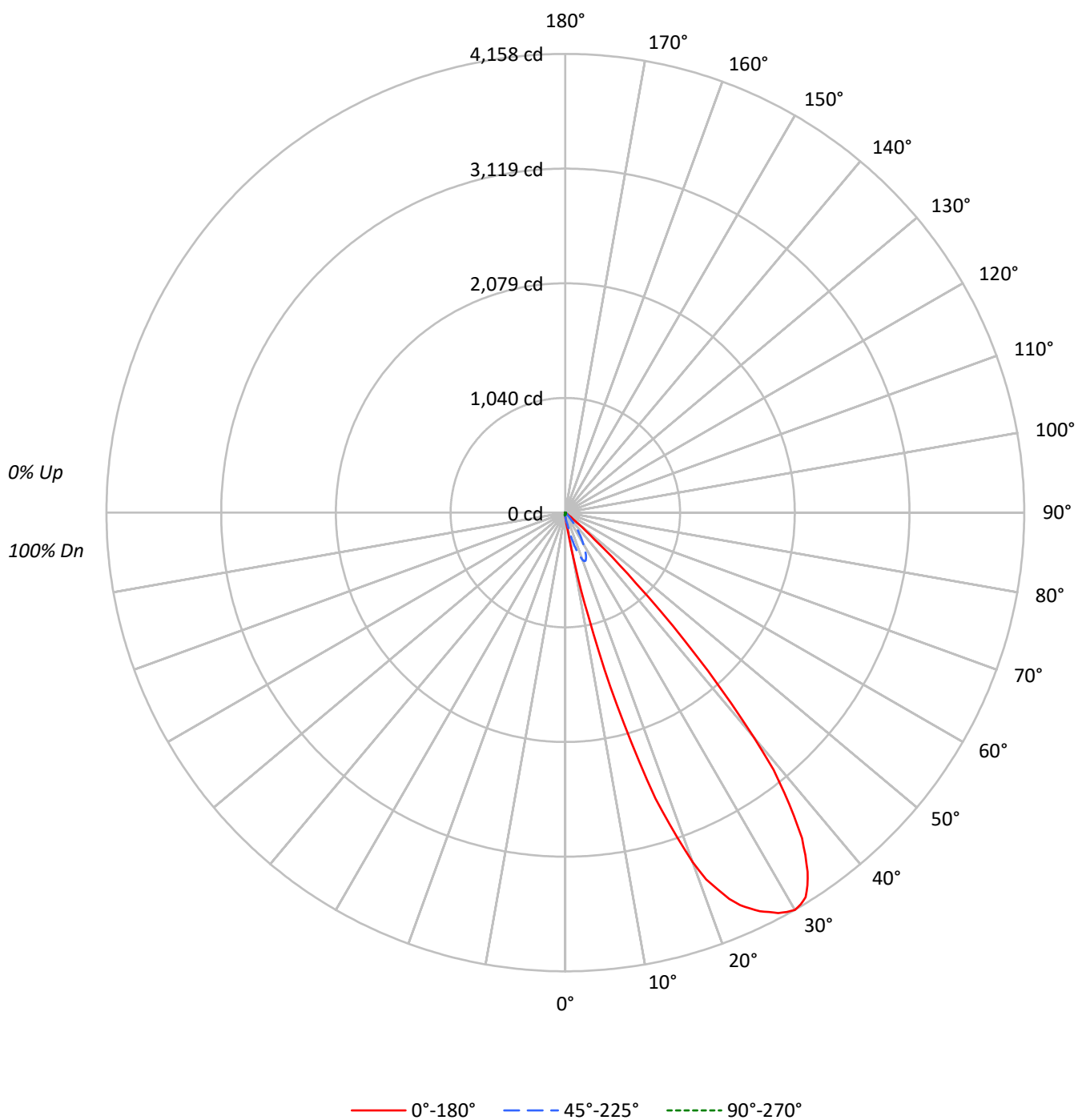
Lumens per Lamp: N/A  
Luminaire Lumens: 832.1 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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: P1344854

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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 |
| 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 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |
| 6   | 81  | 71  | 63  | 58  | 79  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 60  | 57  | 55  |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 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  | 42  | 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°  | 7828    | 7828   | 7828 | 7828 | 7828 |
| 5°  | 19657   | 14528  | 7352 | 3764 | 2906 |
| 10° | 85904   | 24716  | 6056 | 1737 | 1202 |
| 15° | 408493  | 66607  | 4222 | 704  | 522  |
| 20° | 786355  | 106689 | 2707 | 187  | 187  |
| 25° | 957684  | 107619 | 1500 | 0    | 0    |
| 30° | 1052947 | 82367  | 582  | 0    | 0    |
| 35° | 1014688 | 52361  | 214  | 0    | 0    |
| 40° | 758163  | 22671  | 0    | 0    | 229  |
| 45° | 280680  | 6016   | 248  | 248  | 713  |
| 50° | 33091   | 785    | 546  | 546  | 1058 |
| 55° | 3250    | 0      | 612  | 879  | 1491 |
| 60° | 351     | 0      | 1009 | 1360 | 1710 |
| 65° | 415     | 415    | 1608 | 2024 | 2439 |
| 70° | 513     | 513    | 1988 | 1988 | 3013 |
| 75° | 678     | 678    | 1949 | 1949 | 2626 |
| 80° | 0       | 1010   | 2904 | 2020 | 2904 |
| 85° | 0       | 2013   | 5787 | 2013 | 2013 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 280680 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 0.6       |
| 10°-20°   | 97.0   | 11.7      |
| 20°-30°   | 304.5  | 36.6      |
| 30°-40°   | 320.5  | 38.5      |
| 40°-50°   | 94.2   | 11.3      |
| 50°-60°   | 5.1    | 0.6       |
| 60°-70°   | 2.5    | 0.3       |
| 70°-80°   | 2.1    | 0.3       |
| 80°-90°   | 1.1    | 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°    | 406.7  | 48.9      |
| 0°-40°    | 727.2  | 87.4      |
| 0°-60°    | 826.4  | 99.3      |
| 0°-90°    | 832.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 832.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 36   | 36  | 36  | 36   | 36   |      |
| 5°  | 89   | 66  | 33  | 17   | 13   | 16   |
| 15° | 1799 | 293 | 19  | 3    | 2    | 567  |
| 25° | 3958 | 445 | 6   | 0    | 0    | 1815 |
| 35° | 3790 | 196 | 1   | 0    | 0    | 2287 |
| 45° | 905  | 19  | 1   | 1    | 2    | 823  |
| 55° | 8    | 0   | 2   | 2    | 4    | 22   |
| 65° | 1    | 1   | 3   | 4    | 5    | 1    |
| 75° | 1    | 1   | 2   | 2    | 3    | 1    |
| 85° | 0    | 1   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0°    | 35.7   | 35.7   | 35.7   | 35.7   | 35.7   | 35.7   | 35.7   | 35.7  | 35.7  | 35.7 | 35.7   |
| 2.5°  | 55.1   | 55.9   | 53.6   | 55.1   | 53.6   | 52.8   | 52.0   | 48.1  | 41.9  | 35.7 | 29.5   |
| 5°    | 89.3   | 89.3   | 85.4   | 84.6   | 83.1   | 80.0   | 76.9   | 66.0  | 47.4  | 33.4 | 23.3   |
| 7.5°  | 139.7  | 139.0  | 137.4  | 133.5  | 125.8  | 118.0  | 110.2  | 86.2  | 52.0  | 31.1 | 17.9   |
| 10°   | 385.8  | 380.4  | 373.4  | 331.5  | 284.1  | 242.2  | 205.7  | 111.0 | 55.9  | 27.2 | 13.2   |
| 12.5° | 958.7  | 927.6  | 853.9  | 770.1  | 662.9  | 550.4  | 440.1  | 180.9 | 57.4  | 22.5 | 9.3    |
| 15°   | 1799.4 | 1735.0 | 1620.1 | 1452.4 | 1233.5 | 987.4  | 777.8  | 293.4 | 55.9  | 18.6 | 7.0    |
| 17.5° | 2716.9 | 2654.8 | 2495.7 | 2241.1 | 1918.9 | 1540.9 | 1169.8 | 388.9 | 52.0  | 15.5 | 4.7    |
| 20°   | 3369.8 | 3303.8 | 3154.7 | 2884.6 | 2536.1 | 2032.3 | 1540.1 | 457.2 | 48.9  | 11.6 | 2.3    |
| 21°   | 3560.7 | 3494.8 | 3337.2 | 3076.3 | 2709.9 | 2204.6 | 1658.9 | 468.9 | 46.6  | 10.1 | 1.6    |
| 22°   | 3681.8 | 3643.0 | 3473.8 | 3220.7 | 2847.3 | 2342.8 | 1760.6 | 474.3 | 45.0  | 9.3  | 1.6    |
| 23°   | 3803.7 | 3745.5 | 3587.1 | 3320.1 | 2952.1 | 2445.2 | 1835.9 | 470.4 | 43.5  | 7.8  | 0.8    |
| 24°   | 3893.8 | 3844.8 | 3660.9 | 3396.9 | 3025.1 | 2508.1 | 1880.1 | 460.3 | 41.1  | 7.0  | 0.8    |
| 25°   | 3958.2 | 3913.2 | 3721.4 | 3449.0 | 3074.0 | 2542.3 | 1894.1 | 444.8 | 38.8  | 6.2  | 0.8    |
| 26°   | 4019.5 | 3970.6 | 3771.9 | 3479.2 | 3099.6 | 2553.1 | 1880.9 | 427.7 | 36.5  | 5.4  | 0.0    |
| 27°   | 4063.8 | 4014.1 | 3806.8 | 3497.1 | 3101.2 | 2539.9 | 1845.2 | 404.4 | 34.2  | 4.7  | 0.0    |
| 28°   | 4111.1 | 4053.7 | 3830.9 | 3507.2 | 3091.9 | 2508.9 | 1794.0 | 379.6 | 32.6  | 3.9  | 0.0    |
| 29°   | 4139.8 | 4085.5 | 3855.7 | 3518.0 | 3072.5 | 2456.9 | 1719.4 | 350.1 | 28.7  | 2.3  | 0.0    |
| 30°   | 4158.5 | 4094.0 | 3853.4 | 3506.4 | 3046.8 | 2401.0 | 1630.2 | 325.3 | 24.8  | 2.3  | 0.0    |
| 31°   | 4142.9 | 4075.4 | 3828.5 | 3473.8 | 3005.7 | 2328.0 | 1538.6 | 294.2 | 20.2  | 1.6  | 0.0    |
| 32°   | 4109.6 | 4029.6 | 3785.1 | 3417.1 | 2932.0 | 2234.1 | 1443.9 | 268.6 | 14.7  | 1.6  | 0.0    |
| 33°   | 4028.0 | 3960.5 | 3706.7 | 3341.1 | 2835.7 | 2106.8 | 1320.4 | 243.7 | 10.1  | 0.8  | 0.0    |
| 34°   | 3925.6 | 3858.0 | 3599.5 | 3239.4 | 2706.8 | 1942.2 | 1170.6 | 218.1 | 8.5   | 0.8  | 0.0    |
| 35°   | 3790.5 | 3723.8 | 3478.5 | 3097.3 | 2536.1 | 1744.3 | 1016.1 | 195.6 | 7.0   | 0.8  | 0.0    |
| 36°   | 3648.5 | 3560.0 | 3325.5 | 2945.9 | 2307.1 | 1519.2 | 850.8  | 170.0 | 5.4   | 0.8  | 0.0    |
| 37°   | 3439.6 | 3379.9 | 3119.8 | 2715.4 | 2059.4 | 1303.4 | 730.5  | 146.7 | 3.9   | 0.8  | 0.0    |
| 38°   | 3223.1 | 3167.9 | 2914.1 | 2483.3 | 1783.1 | 1089.9 | 611.7  | 124.2 | 3.1   | 0.0  | 0.0    |
| 39°   | 2999.5 | 2907.9 | 2657.2 | 2186.0 | 1493.5 | 912.9  | 514.7  | 104.0 | 1.6   | 0.0  | 0.0    |
| 40°   | 2648.6 | 2578.8 | 2310.9 | 1828.9 | 1235.8 | 739.8  | 438.6  | 79.2  | 1.6   | 0.0  | 0.0    |
| 42.5° | 1755.9 | 1690.7 | 1409.7 | 992.1  | 656.7  | 432.4  | 289.5  | 31.1  | 0.0   | 0.8  | 0.0    |
| 45°   | 905.1  | 864.0  | 701.7  | 519.3  | 372.6  | 265.5  | 186.3  | 19.4  | 0.0   | 0.8  | 0.8    |
| 47.5° | 359.4  | 352.4  | 318.3  | 274.8  | 211.9  | 157.6  | 101.7  | 8.5   | 0.0   | 0.8  | 0.8    |
| 50°   | 97.0   | 97.8   | 91.6   | 84.6   | 76.9   | 72.2   | 42.7   | 2.3   | 0.0   | 1.6  | 0.8    |
| 52.5° | 41.1   | 41.9   | 40.4   | 38.0   | 34.2   | 25.6   | 17.1   | 0.8   | 0.8   | 1.6  | 1.6    |
| 55°   | 8.5    | 9.3    | 10.1   | 10.9   | 12.4   | 10.9   | 7.0    | 0.0   | 0.8   | 1.6  | 1.6    |
| 57.5° | 1.6    | 1.6    | 1.6    | 1.6    | 2.3    | 2.3    | 1.6    | 0.0   | 0.8   | 1.6  | 2.3    |
| 60°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0   | 1.6   | 2.3  | 2.3    |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   | 2.3  | 3.1    |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   | 3.1  | 3.1    |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   | 3.1  | 3.1    |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   | 3.1  | 3.1    |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   | 3.1  | 2.3    |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   | 2.3  | 2.3    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 1.6   | 2.3  | 2.3    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 1.6   | 2.3  | 1.6    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 1.6   | 2.3 | 1.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6   | 2.3 | 1.6    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6   | 2.3 | 1.6    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 35.7 | 35.7   | 35.7 |
| 2.5°  | 24.8 | 22.5   | 21.7 |
| 5°    | 17.1 | 14.7   | 13.2 |
| 7.5°  | 11.6 | 9.3    | 8.5  |
| 10°   | 7.8  | 6.2    | 5.4  |
| 12.5° | 5.4  | 3.1    | 3.1  |
| 15°   | 3.1  | 2.3    | 2.3  |
| 17.5° | 1.6  | 0.8    | 0.8  |
| 20°   | 0.8  | 0.8    | 0.8  |
| 21°   | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0  | 0.0    | 0.0  |
| 23°   | 0.0  | 0.0    | 0.0  |
| 24°   | 0.0  | 0.0    | 0.0  |
| 25°   | 0.0  | 0.0    | 0.0  |
| 26°   | 0.0  | 0.0    | 0.0  |
| 27°   | 0.0  | 0.0    | 0.0  |
| 28°   | 0.0  | 0.0    | 0.0  |
| 29°   | 0.0  | 0.0    | 0.0  |
| 30°   | 0.0  | 0.0    | 0.0  |
| 31°   | 0.0  | 0.0    | 0.0  |
| 32°   | 0.0  | 0.0    | 0.0  |
| 33°   | 0.0  | 0.0    | 0.0  |
| 34°   | 0.0  | 0.0    | 0.0  |
| 35°   | 0.0  | 0.0    | 0.0  |
| 36°   | 0.0  | 0.0    | 0.0  |
| 37°   | 0.0  | 0.0    | 0.0  |
| 38°   | 0.0  | 0.0    | 0.8  |
| 39°   | 0.0  | 0.8    | 0.8  |
| 40°   | 0.0  | 0.8    | 0.8  |
| 42.5° | 0.0  | 0.8    | 1.6  |
| 45°   | 0.8  | 1.6    | 2.3  |
| 47.5° | 1.6  | 2.3    | 3.1  |
| 50°   | 1.6  | 3.1    | 3.1  |
| 52.5° | 2.3  | 3.1    | 3.9  |
| 55°   | 2.3  | 3.9    | 3.9  |
| 57.5° | 3.1  | 3.9    | 4.7  |
| 60°   | 3.1  | 3.9    | 3.9  |
| 62.5° | 3.1  | 4.7    | 4.7  |
| 65°   | 3.9  | 4.7    | 4.7  |
| 67.5° | 3.9  | 4.7    | 4.7  |
| 70°   | 3.1  | 3.9    | 4.7  |
| 72.5° | 3.1  | 3.9    | 3.9  |
| 75°   | 2.3  | 3.1    | 3.1  |
| 77.5° | 2.3  | 2.3    | 3.1  |
| 80°   | 1.6  | 2.3    | 2.3  |



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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 82.5° | 1.6  | 1.6    | 1.6  |
| 85°   | 0.8  | 0.8    | 0.8  |
| 87.5° | 0.8  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)