

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: P1344551

Luminaire Tested: P3A13R259827DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344551  
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: P3A13R259827DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

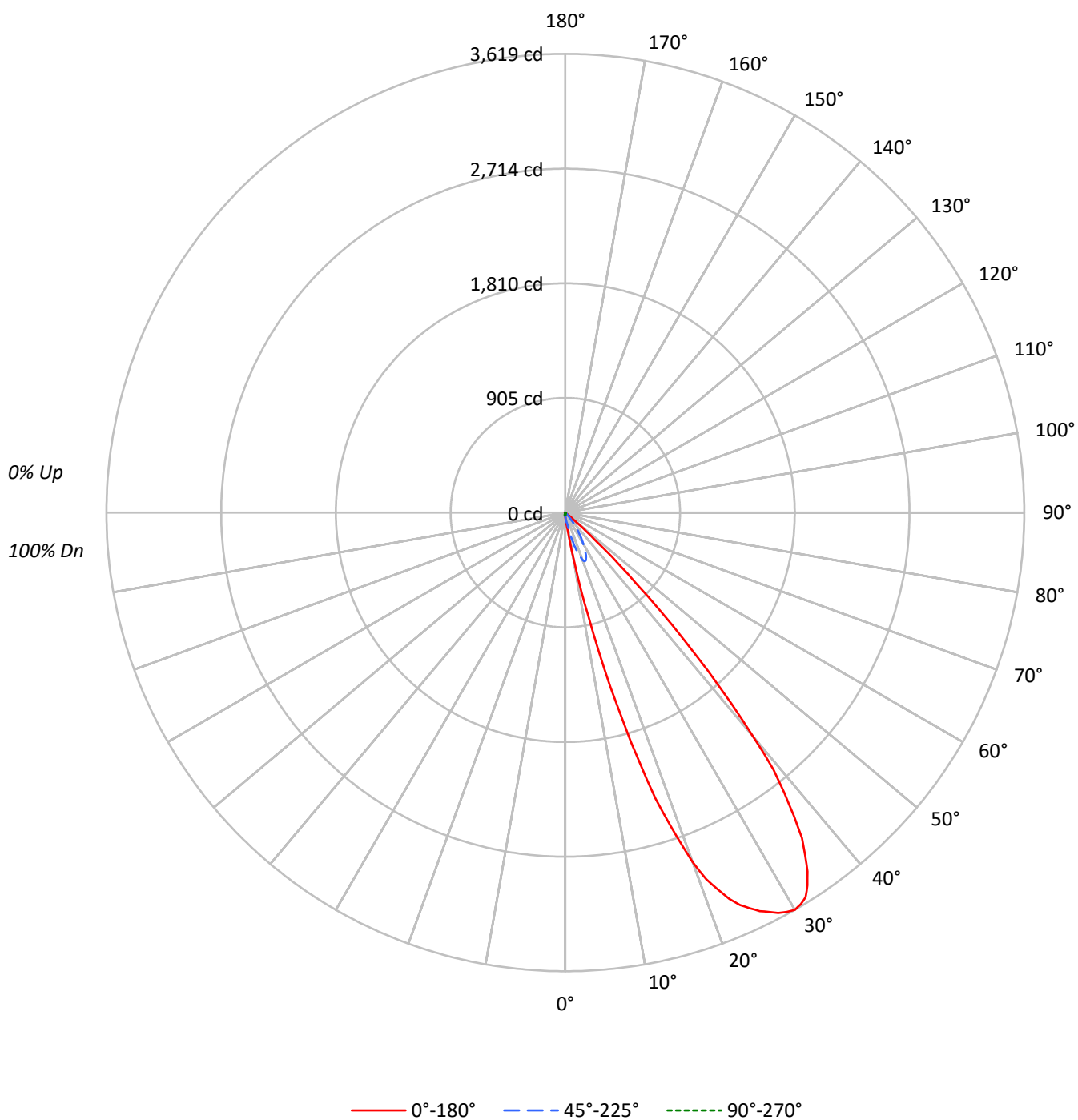
Lumens per Lamp: N/A  
Luminaire Lumens: 724.1 lumens  
Efficiency: N/A  
Efficacy: 49.9 lumens/watt  
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  |  | 92  | 89  | 87  |  | 89  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  |  | 72  | 67  | 63  |  | 71  |
| 6   | 81  | 71  | 63  | 58  | 79  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 65  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 63  | 57  | 52  |  | 61  | 56  | 52  |  | 60  |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 48  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 6820   | 6820  | 6820 | 6820 | 6820 |
| 5°  | 17103  | 12635 | 6383 | 3280 | 2531 |
| 10° | 74748  | 21509 | 5255 | 1514 | 1047 |
| 15° | 355462 | 57957 | 3678 | 613  | 454  |
| 20° | 684286 | 92851 | 2357 | 163  | 163  |
| 25° | 833371 | 93659 | 1307 | 0    | 0    |
| 30° | 916268 | 71657 | 506  | 0    | 0    |
| 35° | 882983 | 45561 | 187  | 0    | 0    |
| 40° | 659750 | 19723 | 0    | 0    | 200  |
| 45° | 244242 | 5241  | 217  | 217  | 620  |
| 50° | 28792  | 682   | 478  | 478  | 921  |
| 55° | 2829   | 0     | 535  | 765  | 1300 |
| 60° | 307    | 0     | 877  | 1184 | 1491 |
| 65° | 363    | 363   | 1401 | 1764 | 2127 |
| 70° | 449    | 449   | 1731 | 1731 | 2629 |
| 75° | 593    | 593   | 1694 | 1694 | 2288 |
| 80° | 0      | 884   | 2526 | 1768 | 2526 |
| 85° | 0      | 1761  | 5032 | 1761 | 1761 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 244242 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.5    | 0.6       |
| 10°-20°   | 84.4   | 11.7      |
| 20°-30°   | 264.9  | 36.6      |
| 30°-40°   | 278.9  | 38.5      |
| 40°-50°   | 81.9   | 11.3      |
| 50°-60°   | 4.4    | 0.6       |
| 60°-70°   | 2.1    | 0.3       |
| 70°-80°   | 1.8    | 0.3       |
| 80°-90°   | 1.0    | 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°    | 353.9  | 48.9      |
| 0°-40°    | 632.8  | 87.4      |
| 0°-60°    | 719.1  | 99.3      |
| 0°-90°    | 724.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 724.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 31   | 31  | 31  | 31   | 31   |      |
| 5°  | 78   | 57  | 29  | 15   | 12   | 14   |
| 15° | 1566 | 255 | 16  | 3    | 2    | 494  |
| 25° | 3444 | 387 | 5   | 0    | 0    | 1580 |
| 35° | 3298 | 170 | 1   | 0    | 0    | 1990 |
| 45° | 788  | 17  | 1   | 1    | 2    | 716  |
| 55° | 7    | 0   | 1   | 2    | 3    | 19   |
| 65° | 1    | 1   | 3   | 3    | 4    | 1    |
| 75° | 1    | 1   | 2   | 2    | 3    | 0    |
| 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°    | 31.1   | 31.1   | 31.1   | 31.1   | 31.1   | 31.1   | 31.1   | 31.1  | 31.1  | 31.1 | 31.1   |
| 2.5°  | 48.0   | 48.6   | 46.6   | 48.0   | 46.6   | 45.9   | 45.3   | 41.9  | 36.5  | 31.1 | 25.7   |
| 5°    | 77.7   | 77.7   | 74.3   | 73.6   | 72.3   | 69.6   | 66.9   | 57.4  | 41.2  | 29.0 | 20.3   |
| 7.5°  | 121.6  | 120.9  | 119.6  | 116.2  | 109.4  | 102.7  | 95.9   | 75.0  | 45.3  | 27.0 | 15.5   |
| 10°   | 335.7  | 331.0  | 324.9  | 288.4  | 247.2  | 210.8  | 179.0  | 96.6  | 48.6  | 23.6 | 11.5   |
| 12.5° | 834.2  | 807.2  | 743.1  | 670.1  | 576.9  | 478.9  | 383.0  | 157.4 | 50.0  | 19.6 | 8.1    |
| 15°   | 1565.8 | 1509.7 | 1409.8 | 1263.9 | 1073.4 | 859.2  | 676.9  | 255.3 | 48.6  | 16.2 | 6.1    |
| 17.5° | 2364.3 | 2310.2 | 2171.7 | 1950.2 | 1669.8 | 1340.9 | 1018.0 | 338.4 | 45.3  | 13.5 | 4.1    |
| 20°   | 2932.4 | 2874.9 | 2745.2 | 2510.2 | 2206.9 | 1768.5 | 1340.2 | 397.9 | 42.6  | 10.1 | 2.0    |
| 21°   | 3098.5 | 3041.1 | 2904.0 | 2677.0 | 2358.2 | 1918.4 | 1443.5 | 408.0 | 40.5  | 8.8  | 1.4    |
| 22°   | 3203.9 | 3170.1 | 3022.9 | 2802.7 | 2477.7 | 2038.7 | 1532.0 | 412.7 | 39.2  | 8.1  | 1.4    |
| 23°   | 3310.0 | 3259.3 | 3121.5 | 2889.1 | 2568.9 | 2127.8 | 1597.6 | 409.4 | 37.8  | 6.8  | 0.7    |
| 24°   | 3388.3 | 3345.8 | 3185.7 | 2956.0 | 2632.4 | 2182.5 | 1636.1 | 400.6 | 35.8  | 6.1  | 0.7    |
| 25°   | 3444.4 | 3405.2 | 3238.4 | 3001.3 | 2675.0 | 2212.3 | 1648.2 | 387.1 | 33.8  | 5.4  | 0.7    |
| 26°   | 3497.7 | 3455.2 | 3282.3 | 3027.6 | 2697.3 | 2221.7 | 1636.7 | 372.2 | 31.7  | 4.7  | 0.0    |
| 27°   | 3536.2 | 3493.0 | 3312.7 | 3043.1 | 2698.6 | 2210.2 | 1605.7 | 351.9 | 29.7  | 4.1  | 0.0    |
| 28°   | 3577.5 | 3527.5 | 3333.6 | 3051.9 | 2690.5 | 2183.2 | 1561.1 | 330.3 | 28.4  | 3.4  | 0.0    |
| 29°   | 3602.4 | 3555.2 | 3355.2 | 3061.4 | 2673.6 | 2138.0 | 1496.2 | 304.7 | 25.0  | 2.0  | 0.0    |
| 30°   | 3618.7 | 3562.6 | 3353.2 | 3051.2 | 2651.3 | 2089.3 | 1418.6 | 283.0 | 21.6  | 2.0  | 0.0    |
| 31°   | 3605.1 | 3546.4 | 3331.6 | 3022.9 | 2615.5 | 2025.8 | 1338.8 | 256.0 | 17.6  | 1.4  | 0.0    |
| 32°   | 3576.1 | 3506.5 | 3293.7 | 2973.6 | 2551.4 | 1944.1 | 1256.4 | 233.7 | 12.8  | 1.4  | 0.0    |
| 33°   | 3505.2 | 3446.4 | 3225.5 | 2907.4 | 2467.6 | 1833.3 | 1149.0 | 212.1 | 8.8   | 0.7  | 0.0    |
| 34°   | 3416.0 | 3357.2 | 3132.3 | 2818.9 | 2355.5 | 1690.1 | 1018.7 | 189.8 | 7.4   | 0.7  | 0.0    |
| 35°   | 3298.5 | 3240.4 | 3026.9 | 2695.2 | 2206.9 | 1517.9 | 884.2  | 170.2 | 6.1   | 0.7  | 0.0    |
| 36°   | 3174.9 | 3097.8 | 2893.8 | 2563.5 | 2007.6 | 1322.0 | 740.3  | 147.9 | 4.7   | 0.7  | 0.0    |
| 37°   | 2993.1 | 2941.1 | 2714.8 | 2362.9 | 1792.1 | 1134.2 | 635.6  | 127.7 | 3.4   | 0.7  | 0.0    |
| 38°   | 2804.7 | 2756.7 | 2535.8 | 2160.9 | 1551.6 | 948.4  | 532.3  | 108.1 | 2.7   | 0.0  | 0.0    |
| 39°   | 2610.1 | 2530.4 | 2312.2 | 1902.2 | 1299.7 | 794.4  | 447.9  | 90.5  | 1.4   | 0.0  | 0.0    |
| 40°   | 2304.8 | 2244.0 | 2011.0 | 1591.5 | 1075.4 | 643.8  | 381.7  | 68.9  | 1.4   | 0.0  | 0.0    |
| 42.5° | 1528.0 | 1471.2 | 1226.7 | 863.3  | 571.5  | 376.3  | 252.0  | 27.0  | 0.0   | 0.7  | 0.0    |
| 45°   | 787.6  | 751.8  | 610.7  | 451.9  | 324.2  | 231.0  | 162.1  | 16.9  | 0.0   | 0.7  | 0.7    |
| 47.5° | 312.8  | 306.7  | 277.0  | 239.1  | 184.4  | 137.1  | 88.5   | 7.4   | 0.0   | 0.7  | 0.7    |
| 50°   | 84.4   | 85.1   | 79.7   | 73.6   | 66.9   | 62.8   | 37.2   | 2.0   | 0.0   | 1.4  | 0.7    |
| 52.5° | 35.8   | 36.5   | 35.1   | 33.1   | 29.7   | 22.3   | 14.9   | 0.7   | 0.7   | 1.4  | 1.4    |
| 55°   | 7.4    | 8.1    | 8.8    | 9.5    | 10.8   | 9.5    | 6.1    | 0.0   | 0.7   | 1.4  | 1.4    |
| 57.5° | 1.4    | 1.4    | 1.4    | 1.4    | 2.0    | 2.0    | 1.4    | 0.0   | 0.7   | 1.4  | 2.0    |
| 60°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0   | 1.4   | 2.0  | 2.0    |
| 62.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 1.4   | 2.0  | 2.7    |
| 65°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 1.4   | 2.7  | 2.7    |
| 67.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 2.0   | 2.7  | 2.7    |
| 70°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 2.0   | 2.7  | 2.7    |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 2.0   | 2.7  | 2.0    |
| 75°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   | 2.0   | 2.0  | 2.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 1.4   | 2.0  | 2.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 1.4   | 2.0  | 1.4    |



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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 | 0.7 | 0.7 | 1.4   | 2.0 | 1.4    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.4   | 2.0 | 1.4    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.4   | 2.0 | 1.4    |
| 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°    | 31.1 | 31.1   | 31.1 |
| 2.5°  | 21.6 | 19.6   | 18.9 |
| 5°    | 14.9 | 12.8   | 11.5 |
| 7.5°  | 10.1 | 8.1    | 7.4  |
| 10°   | 6.8  | 5.4    | 4.7  |
| 12.5° | 4.7  | 2.7    | 2.7  |
| 15°   | 2.7  | 2.0    | 2.0  |
| 17.5° | 1.4  | 0.7    | 0.7  |
| 20°   | 0.7  | 0.7    | 0.7  |
| 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    | 0.7  |
| 39°   | 0.0  | 0.7    | 0.7  |
| 40°   | 0.0  | 0.7    | 0.7  |
| 42.5° | 0.0  | 0.7    | 1.4  |
| 45°   | 0.7  | 1.4    | 2.0  |
| 47.5° | 1.4  | 2.0    | 2.7  |
| 50°   | 1.4  | 2.7    | 2.7  |
| 52.5° | 2.0  | 2.7    | 3.4  |
| 55°   | 2.0  | 3.4    | 3.4  |
| 57.5° | 2.7  | 3.4    | 4.1  |
| 60°   | 2.7  | 3.4    | 3.4  |
| 62.5° | 2.7  | 4.1    | 4.1  |
| 65°   | 3.4  | 4.1    | 4.1  |
| 67.5° | 3.4  | 4.1    | 4.1  |
| 70°   | 2.7  | 3.4    | 4.1  |
| 72.5° | 2.7  | 3.4    | 3.4  |
| 75°   | 2.0  | 2.7    | 2.7  |
| 77.5° | 2.0  | 2.0    | 2.7  |
| 80°   | 1.4  | 2.0    | 2.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 82.5° | 1.4  | 1.4    | 1.4  |
| 85°   | 0.7  | 0.7    | 0.7  |
| 87.5° | 0.7  | 0.7    | 0.7  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)