

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: P1344429

Luminaire Tested: P3A13R259030DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344429  
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: P3A13R259030DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

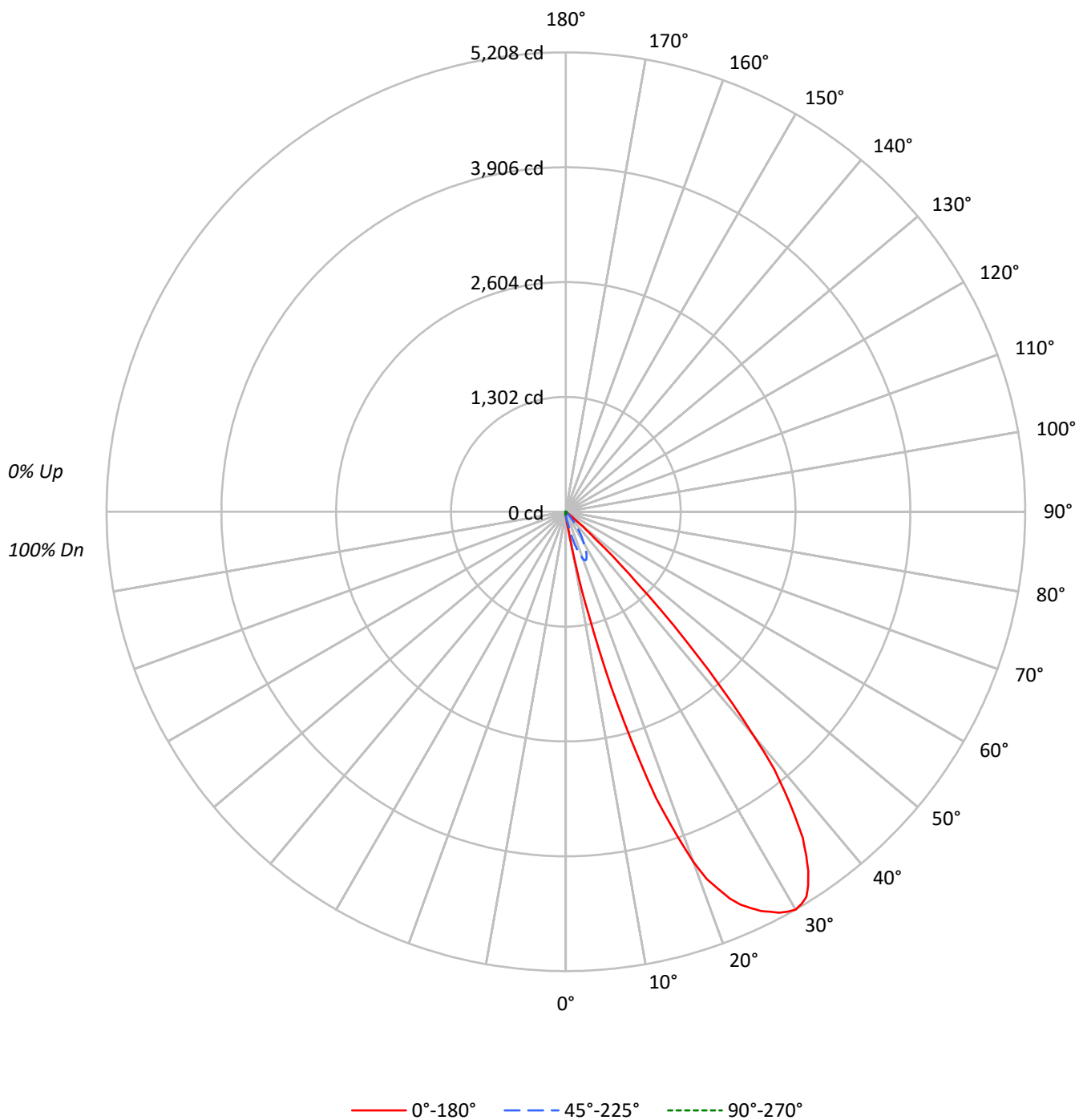
Lumens per Lamp: N/A  
Luminaire Lumens: 1042.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P3A13R259030DE010 E3CA301MW

### 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  | 104 | 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°  | 9802    | 9802   | 9802 | 9802 | 9802 |
| 5°  | 24609   | 18182  | 9201 | 4711 | 3632 |
| 10° | 107591  | 30950  | 7571 | 2160 | 1514 |
| 15° | 511603  | 83428  | 5289 | 885  | 658  |
| 20° | 984822  | 133618 | 3407 | 233  | 233  |
| 25° | 1199392 | 134790 | 1887 | 0    | 0    |
| 30° | 1318709 | 103155 | 734  | 0    | 0    |
| 35° | 1270789 | 65585  | 268  | 0    | 0    |
| 40° | 949522  | 28396  | 0    | 0    | 286  |
| 45° | 351540  | 7536   | 310  | 310  | 899  |
| 50° | 41449   | 989    | 648  | 648  | 1330 |
| 55° | 4091    | 0      | 726  | 1109 | 1873 |
| 60° | 439     | 0      | 1272 | 1710 | 2149 |
| 65° | 519     | 519    | 2024 | 2542 | 3009 |
| 70° | 641     | 641    | 2500 | 2500 | 3719 |
| 75° | 847     | 847    | 2457 | 2457 | 3304 |
| 80° | 0       | 1263   | 3662 | 2399 | 3662 |
| 85° | 0       | 2516   | 7296 | 2516 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 351540 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.5    | 0.6       |
| 10°-20°   | 121.5  | 11.7      |
| 20°-30°   | 381.3  | 36.6      |
| 30°-40°   | 401.4  | 38.5      |
| 40°-50°   | 117.9  | 11.3      |
| 50°-60°   | 6.3    | 0.6       |
| 60°-70°   | 3.1    | 0.3       |
| 70°-80°   | 2.6    | 0.3       |
| 80°-90°   | 1.4    | 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°    | 509.3  | 48.9      |
| 0°-40°    | 910.7  | 87.4      |
| 0°-60°    | 1034.9 | 99.3      |
| 0°-90°    | 1042.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1042.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 45   | 45  | 45  | 45   | 45   |      |
| 5°  | 112  | 83  | 42  | 21   | 16   | 20   |
| 15° | 2254 | 368 | 23  | 4    | 3    | 710  |
| 25° | 4957 | 557 | 8   | 0    | 0    | 2274 |
| 35° | 4747 | 245 | 1   | 0    | 0    | 2865 |
| 45° | 1134 | 24  | 1   | 1    | 3    | 1030 |
| 55° | 11   | 0   | 2   | 3    | 5    | 27   |
| 65° | 1    | 1   | 4   | 5    | 6    | 1    |
| 75° | 1    | 1   | 3   | 3    | 4    | 1    |
| 85° | 0    | 1   | 3   | 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°    | 44.7   | 44.7   | 44.7   | 44.7   | 44.7   | 44.7   | 44.7   | 44.7  | 44.7  | 44.7 | 44.7   |
| 2.5°  | 69.0   | 70.0   | 67.1   | 69.0   | 67.1   | 66.1   | 65.1   | 60.3  | 52.5  | 44.7 | 36.9   |
| 5°    | 111.8  | 111.8  | 106.9  | 106.0  | 104.0  | 100.1  | 96.2   | 82.6  | 59.3  | 41.8 | 29.2   |
| 7.5°  | 175.0  | 174.0  | 172.1  | 167.2  | 157.5  | 147.8  | 138.1  | 107.9 | 65.1  | 38.9 | 22.4   |
| 10°   | 483.2  | 476.4  | 467.6  | 415.1  | 355.8  | 303.3  | 257.6  | 139.0 | 70.0  | 34.0 | 16.5   |
| 12.5° | 1200.7 | 1161.8 | 1069.4 | 964.4  | 830.3  | 689.3  | 551.2  | 226.5 | 71.9  | 28.2 | 11.7   |
| 15°   | 2253.6 | 2172.9 | 2029.0 | 1819.0 | 1544.8 | 1236.6 | 974.1  | 367.5 | 70.0  | 23.3 | 8.7    |
| 17.5° | 3402.7 | 3324.9 | 3125.6 | 2806.7 | 2403.3 | 1929.8 | 1465.1 | 487.1 | 65.1  | 19.4 | 5.8    |
| 20°   | 4220.3 | 4137.7 | 3951.0 | 3612.7 | 3176.2 | 2545.2 | 1928.8 | 572.6 | 61.2  | 14.6 | 2.9    |
| 21°   | 4459.5 | 4376.8 | 4179.5 | 3852.8 | 3393.9 | 2761.0 | 2077.6 | 587.2 | 58.3  | 12.6 | 1.9    |
| 22°   | 4611.1 | 4562.5 | 4350.6 | 4033.7 | 3566.0 | 2934.1 | 2204.9 | 594.0 | 56.4  | 11.7 | 1.9    |
| 23°   | 4763.8 | 4690.9 | 4492.5 | 4158.1 | 3697.3 | 3062.4 | 2299.3 | 589.2 | 54.4  | 9.7  | 1.0    |
| 24°   | 4876.6 | 4815.3 | 4584.9 | 4254.3 | 3788.7 | 3141.2 | 2354.7 | 576.5 | 51.5  | 8.7  | 1.0    |
| 25°   | 4957.2 | 4900.9 | 4660.7 | 4319.5 | 3849.9 | 3184.0 | 2372.2 | 557.1 | 48.6  | 7.8  | 1.0    |
| 26°   | 5034.0 | 4972.8 | 4723.9 | 4357.4 | 3882.0 | 3197.6 | 2355.6 | 535.7 | 45.7  | 6.8  | 0.0    |
| 27°   | 5089.5 | 5027.2 | 4767.7 | 4379.8 | 3883.9 | 3181.0 | 2310.9 | 506.5 | 42.8  | 5.8  | 0.0    |
| 28°   | 5148.8 | 5076.8 | 4797.8 | 4392.4 | 3872.3 | 3142.1 | 2246.8 | 475.4 | 40.8  | 4.9  | 0.0    |
| 29°   | 5184.7 | 5116.7 | 4828.9 | 4406.0 | 3848.0 | 3077.0 | 2153.4 | 438.5 | 36.0  | 2.9  | 0.0    |
| 30°   | 5208.1 | 5127.4 | 4826.0 | 4391.4 | 3815.9 | 3007.0 | 2041.6 | 407.4 | 31.1  | 2.9  | 0.0    |
| 31°   | 5188.6 | 5104.0 | 4794.9 | 4350.6 | 3764.4 | 2915.6 | 1926.9 | 368.5 | 25.3  | 1.9  | 0.0    |
| 32°   | 5146.8 | 5046.7 | 4740.4 | 4279.6 | 3672.0 | 2798.0 | 1808.3 | 336.4 | 18.5  | 1.9  | 0.0    |
| 33°   | 5044.7 | 4960.2 | 4642.3 | 4184.3 | 3551.4 | 2638.5 | 1653.7 | 305.3 | 12.6  | 1.0  | 0.0    |
| 34°   | 4916.4 | 4831.8 | 4508.1 | 4057.0 | 3390.1 | 2432.4 | 1466.1 | 273.2 | 10.7  | 1.0  | 0.0    |
| 35°   | 4747.2 | 4663.6 | 4356.4 | 3879.1 | 3176.2 | 2184.5 | 1272.6 | 245.0 | 8.7   | 1.0  | 0.0    |
| 36°   | 4569.3 | 4458.5 | 4164.9 | 3689.5 | 2889.4 | 1902.6 | 1065.5 | 212.9 | 6.8   | 1.0  | 0.0    |
| 37°   | 4307.8 | 4233.0 | 3907.3 | 3400.8 | 2579.2 | 1632.3 | 914.8  | 183.7 | 4.9   | 1.0  | 0.0    |
| 38°   | 4036.6 | 3967.5 | 3649.6 | 3110.1 | 2233.1 | 1365.0 | 766.1  | 155.6 | 3.9   | 0.0  | 0.0    |
| 39°   | 3756.6 | 3641.9 | 3327.8 | 2737.7 | 1870.5 | 1143.3 | 644.6  | 130.3 | 1.9   | 0.0  | 0.0    |
| 40°   | 3317.1 | 3229.6 | 2894.2 | 2290.5 | 1547.7 | 926.5  | 549.3  | 99.2  | 1.9   | 0.0  | 0.0    |
| 42.5° | 2199.1 | 2117.4 | 1765.5 | 1242.5 | 822.5  | 541.5  | 362.6  | 38.9  | 0.0   | 1.0  | 0.0    |
| 45°   | 1133.6 | 1082.1 | 878.9  | 650.4  | 466.7  | 332.5  | 233.3  | 24.3  | 0.0   | 1.0  | 1.0    |
| 47.5° | 450.1  | 441.4  | 398.6  | 344.2  | 265.4  | 197.4  | 127.4  | 10.7  | 0.0   | 1.0  | 1.0    |
| 50°   | 121.5  | 122.5  | 114.7  | 106.0  | 96.2   | 90.4   | 53.5   | 2.9   | 0.0   | 1.9  | 1.0    |
| 52.5° | 51.5   | 52.5   | 50.6   | 47.6   | 42.8   | 32.1   | 21.4   | 1.0   | 1.0   | 1.9  | 1.9    |
| 55°   | 10.7   | 11.7   | 12.6   | 13.6   | 15.6   | 13.6   | 8.7    | 0.0   | 1.0   | 1.9  | 1.9    |
| 57.5° | 1.9    | 1.9    | 1.9    | 1.9    | 2.9    | 2.9    | 1.9    | 0.0   | 1.0   | 1.9  | 2.9    |
| 60°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0   | 1.9   | 2.9  | 2.9    |
| 62.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 1.9   | 2.9  | 3.9    |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 1.9   | 3.9  | 3.9    |
| 67.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.9   | 3.9  | 3.9    |
| 70°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.9   | 3.9  | 3.9    |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.9   | 3.9  | 2.9    |
| 75°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.9   | 2.9  | 2.9    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   | 1.9   | 2.9  | 2.9    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   | 1.9   | 2.9  | 1.9    |



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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 | 1.0 | 1.0 | 1.9   | 2.9 | 1.9    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.9   | 2.9 | 1.9    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.9   | 2.9 | 1.9    |
| 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°    | 44.7 | 44.7   | 44.7 |
| 2.5°  | 31.1 | 28.2   | 27.2 |
| 5°    | 21.4 | 18.5   | 16.5 |
| 7.5°  | 14.6 | 11.7   | 10.7 |
| 10°   | 9.7  | 7.8    | 6.8  |
| 12.5° | 6.8  | 3.9    | 3.9  |
| 15°   | 3.9  | 2.9    | 2.9  |
| 17.5° | 1.9  | 1.0    | 1.0  |
| 20°   | 1.0  | 1.0    | 1.0  |
| 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    | 1.0  |
| 39°   | 0.0  | 1.0    | 1.0  |
| 40°   | 0.0  | 1.0    | 1.0  |
| 42.5° | 0.0  | 1.0    | 1.9  |
| 45°   | 1.0  | 1.9    | 2.9  |
| 47.5° | 1.9  | 2.9    | 3.9  |
| 50°   | 1.9  | 3.9    | 3.9  |
| 52.5° | 2.9  | 3.9    | 4.9  |
| 55°   | 2.9  | 4.9    | 4.9  |
| 57.5° | 3.9  | 4.9    | 5.8  |
| 60°   | 3.9  | 4.9    | 4.9  |
| 62.5° | 3.9  | 5.8    | 5.8  |
| 65°   | 4.9  | 5.8    | 5.8  |
| 67.5° | 4.9  | 5.8    | 5.8  |
| 70°   | 3.9  | 4.9    | 5.8  |
| 72.5° | 3.9  | 4.9    | 4.9  |
| 75°   | 2.9  | 3.9    | 3.9  |
| 77.5° | 2.9  | 2.9    | 3.9  |
| 80°   | 1.9  | 2.9    | 2.9  |



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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 82.5° | 1.9  | 1.9    | 1.9  |
| 85°   | 1.0  | 1.0    | 1.0  |
| 87.5° | 1.0  | 1.0    | 1.0  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)