

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: P1313237

Luminaire Tested: P3SQAS09R309730DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R309730DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

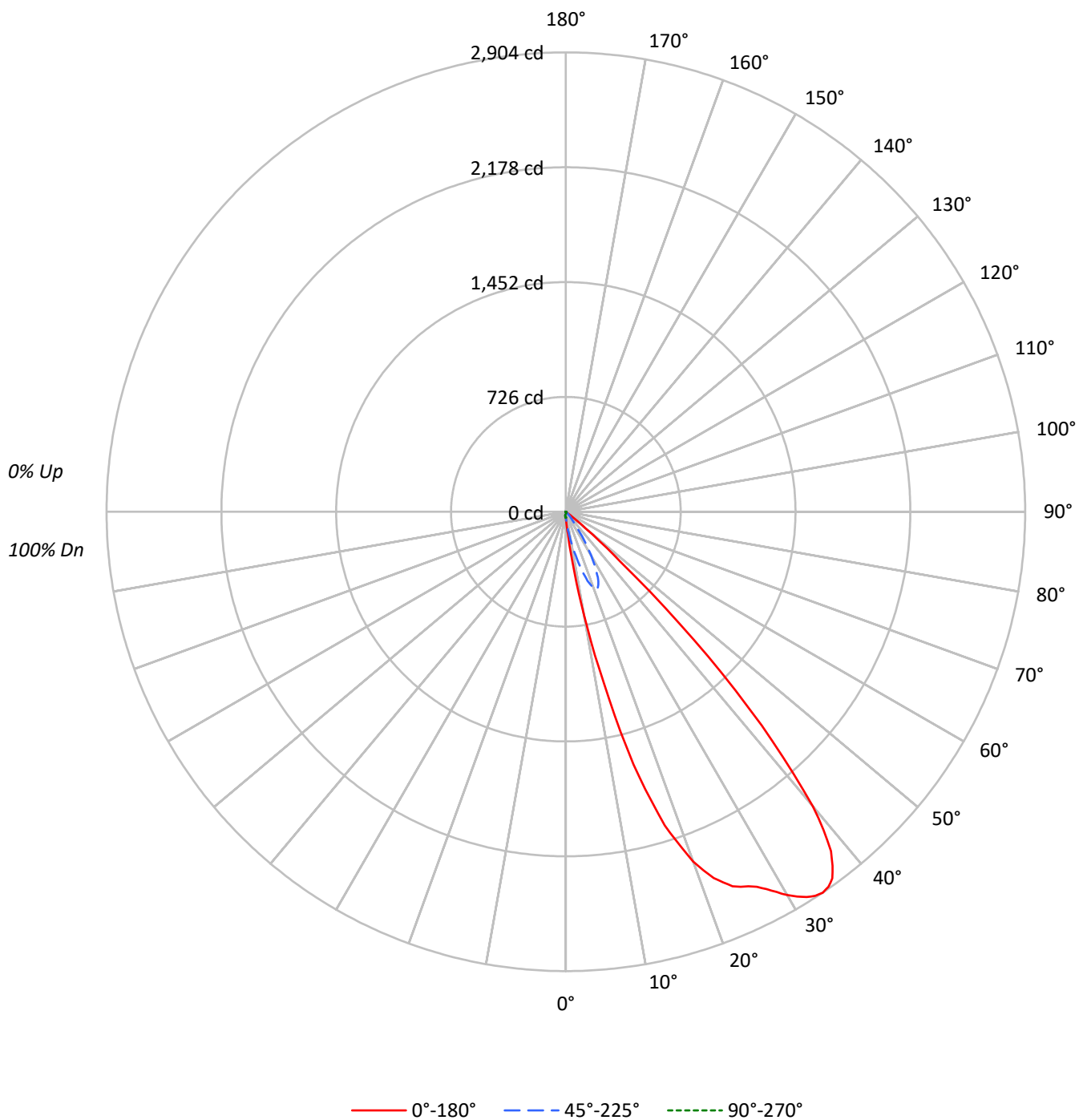
Lumens per Lamp: N/A  
Luminaire Lumens: 699.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 98  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 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  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 6441   | 6441  | 6441 | 6441 | 6441 |
| 5°  | 23356  | 14522 | 5895 | 2386 | 1694 |
| 10° | 115630 | 34766 | 4582 | 455  | 0    |
| 15° | 294976 | 66202 | 2924 | 0    | 0    |
| 20° | 431009 | 94130 | 1210 | 0    | 0    |
| 25° | 497243 | 92372 | 247  | 0    | 0    |
| 30° | 556505 | 63398 | 0    | 0    | 0    |
| 35° | 608617 | 27311 | 0    | 0    | 0    |
| 40° | 546247 | 10612 | 0    | 0    | 0    |
| 45° | 278949 | 4311  | 0    | 0    | 0    |
| 50° | 43056  | 536   | 0    | 0    | 0    |
| 55° | 2552   | 0     | 210  | 0    | 0    |
| 60° | 0      | 0     | 241  | 0    | 0    |
| 65° | 0      | 0     | 530  | 0    | 0    |
| 70° | 0      | 352   | 655  | 0    | 0    |
| 75° | 0      | 466   | 1331 | 0    | 0    |
| 80° | 0      | 694   | 1984 | 0    | 0    |
| 85° | 0      | 1383  | 3952 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 278949 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.8    | 1.1       |
| 10°-20°   | 93.1   | 13.3      |
| 20°-30°   | 230.2  | 32.9      |
| 30°-40°   | 264.7  | 37.9      |
| 40°-50°   | 98.2   | 14.0      |
| 50°-60°   | 3.6    | 0.5       |
| 60°-70°   | 0.4    | 0.1       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 331.1  | 47.4      |
| 0°-40°    | 595.8  | 85.2      |
| 0°-60°    | 697.5  | 99.8      |
| 0°-90°    | 699.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 699.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 37   | 37  | 37  | 37   | 37   |      |
| 5°  | 135  | 84  | 34  | 14   | 10   | 29   |
| 15° | 1654 | 371 | 16  | 0    | 0    | 476  |
| 25° | 2617 | 486 | 1   | 0    | 0    | 1209 |
| 35° | 2895 | 130 | 0   | 0    | 0    | 1755 |
| 45° | 1145 | 18  | 0   | 0    | 0    | 892  |
| 55° | 8    | 0   | 1   | 0    | 0    | 29   |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 2   | 0    | 0    | 0    |
| 85° | 0    | 1   | 2   | 0    | 0    | 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°    | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4  | 37.4  | 37.4 | 37.4   |
| 2.5°  | 66.3   | 66.9   | 66.9   | 64.9   | 64.3   | 63.6   | 61.7   | 55.8  | 46.6  | 37.4 | 30.2   |
| 5°    | 135.1  | 135.8  | 135.8  | 131.9  | 124.0  | 116.1  | 109.5  | 84.0  | 53.8  | 34.1 | 22.3   |
| 7.5°  | 318.8  | 319.5  | 305.7  | 289.9  | 258.5  | 242.1  | 211.9  | 129.2 | 61.0  | 30.8 | 14.4   |
| 10°   | 661.2  | 646.8  | 610.7  | 564.8  | 516.3  | 453.3  | 389.6  | 198.8 | 66.3  | 26.2 | 9.2    |
| 12.5° | 1105.3 | 1091.5 | 1045.0 | 979.4  | 884.3  | 760.9  | 640.2  | 279.4 | 66.9  | 21.0 | 5.2    |
| 15°   | 1654.4 | 1615.7 | 1559.9 | 1451.0 | 1310.6 | 1119.7 | 920.3  | 371.3 | 64.3  | 16.4 | 1.3    |
| 17.5° | 2080.1 | 2044.7 | 1973.8 | 1846.6 | 1672.1 | 1460.2 | 1215.5 | 458.5 | 57.1  | 10.5 | 0.0    |
| 20°   | 2351.7 | 2314.3 | 2248.0 | 2135.8 | 1950.2 | 1701.6 | 1421.5 | 513.6 | 47.2  | 6.6  | 0.0    |
| 21°   | 2429.1 | 2393.0 | 2328.0 | 2216.5 | 2031.5 | 1783.6 | 1472.0 | 525.4 | 42.6  | 5.2  | 0.0    |
| 22°   | 2497.3 | 2469.1 | 2408.7 | 2287.4 | 2099.1 | 1843.9 | 1523.2 | 526.7 | 39.4  | 3.9  | 0.0    |
| 23°   | 2545.2 | 2524.8 | 2464.5 | 2353.0 | 2165.4 | 1893.1 | 1550.7 | 518.9 | 35.4  | 2.6  | 0.0    |
| 24°   | 2591.1 | 2566.2 | 2514.3 | 2410.7 | 2217.8 | 1934.5 | 1575.6 | 504.4 | 31.5  | 2.0  | 0.0    |
| 25°   | 2616.7 | 2587.8 | 2547.8 | 2450.7 | 2261.1 | 1960.7 | 1590.7 | 486.1 | 27.6  | 1.3  | 0.0    |
| 26°   | 2634.4 | 2612.1 | 2568.1 | 2474.3 | 2279.5 | 1977.8 | 1592.7 | 459.2 | 24.9  | 0.7  | 0.0    |
| 27°   | 2661.3 | 2639.0 | 2596.3 | 2495.3 | 2287.4 | 1975.1 | 1580.9 | 428.4 | 21.6  | 0.0  | 0.0    |
| 28°   | 2702.0 | 2672.4 | 2629.8 | 2517.6 | 2290.7 | 1964.0 | 1554.7 | 394.9 | 18.4  | 0.0  | 0.0    |
| 29°   | 2748.5 | 2718.4 | 2671.8 | 2547.1 | 2291.3 | 1941.7 | 1513.3 | 358.2 | 16.4  | 0.0  | 0.0    |
| 30°   | 2798.4 | 2772.1 | 2724.9 | 2576.0 | 2298.5 | 1912.8 | 1465.4 | 318.8 | 13.1  | 0.0  | 0.0    |
| 31°   | 2837.7 | 2814.1 | 2763.6 | 2602.2 | 2304.4 | 1887.9 | 1406.4 | 279.4 | 11.2  | 0.0  | 0.0    |
| 32°   | 2871.9 | 2850.9 | 2788.5 | 2608.2 | 2292.6 | 1852.5 | 1343.4 | 241.4 | 9.2   | 0.0  | 0.0    |
| 33°   | 2895.5 | 2869.2 | 2796.4 | 2593.1 | 2258.5 | 1794.1 | 1273.2 | 205.3 | 7.2   | 0.0  | 0.0    |
| 34°   | 2904.0 | 2872.5 | 2784.6 | 2553.7 | 2189.6 | 1705.5 | 1182.1 | 167.9 | 5.9   | 0.0  | 0.0    |
| 35°   | 2894.8 | 2856.1 | 2742.0 | 2486.1 | 2096.5 | 1599.9 | 1072.5 | 129.9 | 4.6   | 0.0  | 0.0    |
| 36°   | 2865.3 | 2816.1 | 2681.0 | 2389.7 | 1963.3 | 1475.3 | 963.0  | 101.0 | 3.3   | 0.0  | 0.0    |
| 37°   | 2801.7 | 2747.2 | 2576.7 | 2262.5 | 1831.5 | 1332.3 | 838.3  | 78.7  | 2.0   | 0.0  | 0.0    |
| 38°   | 2723.6 | 2644.9 | 2437.6 | 2101.7 | 1660.9 | 1171.6 | 715.0  | 64.9  | 1.3   | 0.0  | 0.0    |
| 39°   | 2590.4 | 2503.9 | 2272.3 | 1916.8 | 1493.7 | 1018.7 | 595.0  | 56.4  | 0.7   | 0.0  | 0.0    |
| 40°   | 2429.7 | 2326.7 | 2083.4 | 1718.7 | 1296.2 | 858.7  | 496.6  | 47.2  | 0.7   | 0.0  | 0.0    |
| 42.5° | 1832.8 | 1745.5 | 1483.8 | 1168.9 | 792.4  | 506.4  | 275.5  | 30.8  | 0.0   | 0.0  | 0.0    |
| 45°   | 1145.3 | 1054.1 | 877.0  | 640.9  | 429.0  | 262.4  | 132.5  | 17.7  | 0.0   | 0.0  | 0.0    |
| 47.5° | 467.7  | 429.0  | 352.9  | 271.6  | 194.2  | 123.3  | 55.1   | 7.9   | 0.0   | 0.0  | 0.0    |
| 50°   | 160.7  | 143.0  | 120.0  | 87.9   | 62.3   | 42.6   | 28.9   | 2.0   | 0.0   | 0.0  | 0.0    |
| 52.5° | 46.6   | 47.2   | 41.3   | 35.4   | 27.6   | 19.7   | 14.4   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 8.5    | 7.2    | 8.5    | 7.9    | 8.5    | 7.2    | 5.2    | 0.0   | 0.0   | 0.7  | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0   | 0.7   | 0.7  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 1.3  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 1.3  | 0.7    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 1.3  | 0.7    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 1.3  | 0.7    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 2.0  | 0.7    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 2.0  | 0.7    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 2.0  | 0.7    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.3   | 2.0  | 0.7    |



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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 | 0.0 | 0.7 | 1.3   | 2.0 | 0.7    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.3   | 2.0 | 0.7    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.3   | 2.0 | 0.7    |
| 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°    | 37.4 | 37.4   | 37.4 |
| 2.5°  | 24.3 | 21.6   | 20.3 |
| 5°    | 13.8 | 10.5   | 9.8  |
| 7.5°  | 7.2  | 4.6    | 3.9  |
| 10°   | 2.6  | 0.7    | 0.0  |
| 12.5° | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0  | 0.0    | 0.0  |
| 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    | 0.0  |
| 39°   | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.0  | 0.0    | 0.0  |
| 65°   | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.0  | 0.0    | 0.0  |
| 70°   | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0  | 0.0    | 0.0  |





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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)