

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: P1315653

Luminaire Tested: P3SQAS20R309740D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315653  
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: P3SQAS20R309740D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

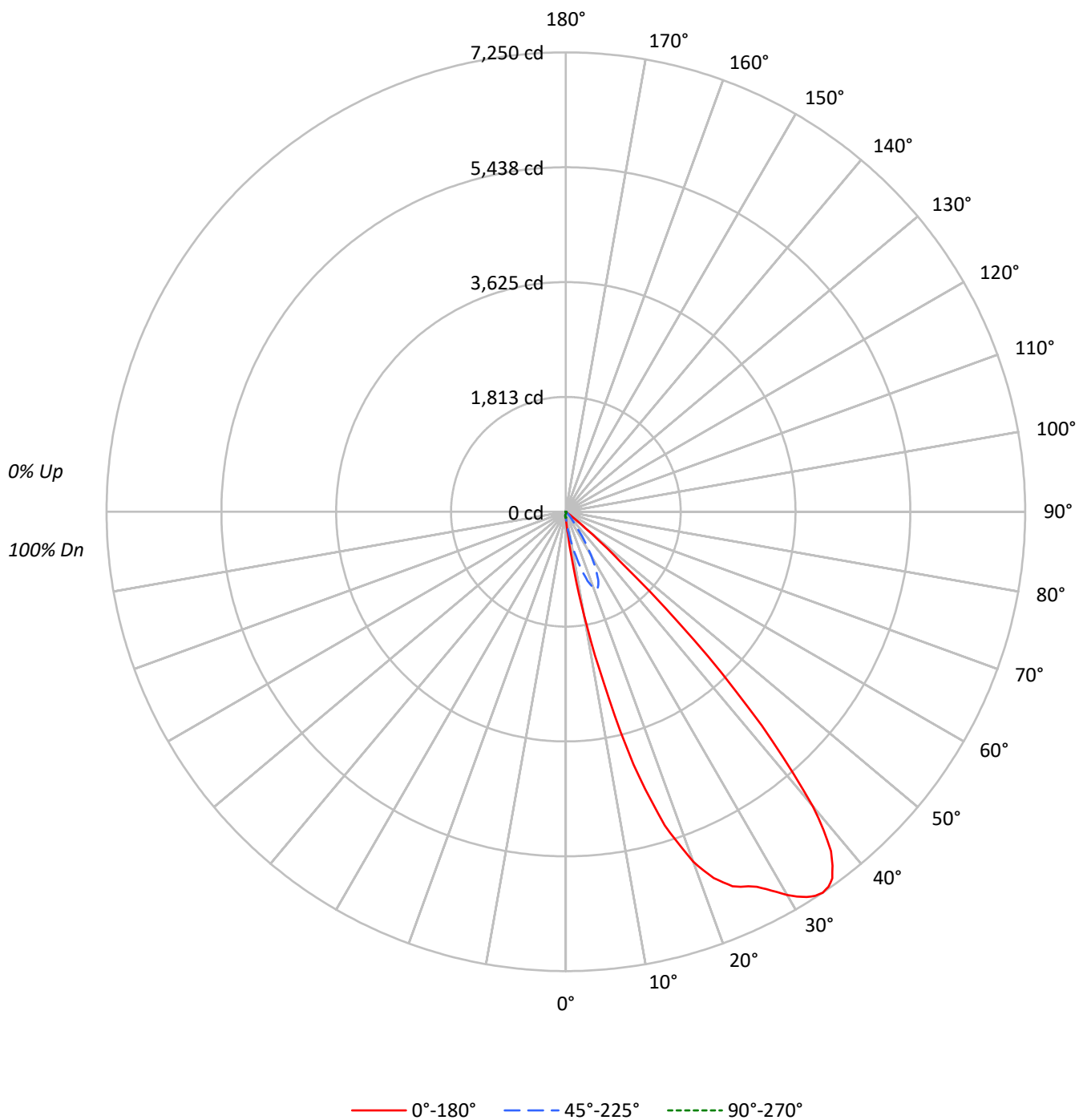
Lumens per Lamp: N/A  
Luminaire Lumens: 1745.0 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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°  | 16068   | 16068  | 16068 | 16068 | 16068 |
| 5°  | 58313   | 36236  | 14729 | 5947  | 4253  |
| 10° | 288674  | 86775  | 11455 | 1154  | 0     |
| 15° | 736371  | 165264 | 7292  | 0     | 0     |
| 20° | 1075974 | 234996 | 3006  | 0     | 0     |
| 25° | 1241311 | 230597 | 627   | 0     | 0     |
| 30° | 1389255 | 158277 | 0     | 0     | 0     |
| 35° | 1519378 | 68161  | 0     | 0     | 0     |
| 40° | 1363672 | 26506  | 0     | 0     | 0     |
| 45° | 696386  | 10765  | 0     | 0     | 0     |
| 50° | 107494  | 1313   | 0     | 0     | 0     |
| 55° | 6396    | 0      | 480   | 0     | 0     |
| 60° | 0       | 0      | 551   | 0     | 0     |
| 65° | 0       | 0      | 1345  | 0     | 0     |
| 70° | 0       | 806    | 1662  | 0     | 0     |
| 75° | 0       | 1065   | 3261  | 0     | 0     |
| 80° | 0       | 1587   | 4860  | 0     | 0     |
| 85° | 0       | 3162   | 9683  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 696386 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.5   | 1.1       |
| 10°-20°   | 232.5  | 13.3      |
| 20°-30°   | 574.6  | 32.9      |
| 30°-40°   | 660.8  | 37.9      |
| 40°-50°   | 245.1  | 14.0      |
| 50°-60°   | 8.9    | 0.5       |
| 60°-70°   | 0.9    | 0.0       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 1.3    | 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°    | 826.6  | 47.4      |
| 0°-40°    | 1487.3 | 85.2      |
| 0°-60°    | 1741.4 | 99.8      |
| 0°-90°    | 1745.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1745.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 93   | 93   | 93  | 93   | 93   |      |
| 5°  | 337  | 210  | 85  | 34   | 25   | 73   |
| 15° | 4130 | 927  | 41  | 0    | 0    | 1187 |
| 25° | 6532 | 1214 | 3   | 0    | 0    | 3018 |
| 35° | 7227 | 324  | 0   | 0    | 0    | 4381 |
| 45° | 2859 | 44   | 0   | 0    | 0    | 2227 |
| 55° | 21   | 0    | 2   | 0    | 0    | 73   |
| 65° | 0    | 0    | 3   | 0    | 0    | 0    |
| 75° | 0    | 2    | 5   | 0    | 0    | 0    |
| 85° | 0    | 2    | 5   | 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°    | 93.3   | 93.3   | 93.3   | 93.3   | 93.3   | 93.3   | 93.3   | 93.3   | 93.3  | 93.3 | 93.3   |
| 2.5°  | 165.4  | 167.0  | 167.0  | 162.1  | 160.5  | 158.8  | 153.9  | 139.2  | 116.3 | 93.3 | 75.3   |
| 5°    | 337.3  | 339.0  | 339.0  | 329.2  | 309.5  | 289.9  | 273.5  | 209.6  | 134.3 | 85.2 | 55.7   |
| 7.5°  | 795.9  | 797.5  | 763.1  | 723.8  | 645.2  | 604.3  | 528.9  | 322.6  | 152.3 | 77.0 | 36.0   |
| 10°   | 1650.7 | 1614.7 | 1524.6 | 1410.0 | 1288.8 | 1131.6 | 972.7  | 496.2  | 165.4 | 65.5 | 22.9   |
| 12.5° | 2759.3 | 2724.9 | 2608.7 | 2444.9 | 2207.5 | 1899.6 | 1598.3 | 697.6  | 167.0 | 52.4 | 13.1   |
| 15°   | 4130.0 | 4033.4 | 3894.2 | 3622.3 | 3271.9 | 2795.4 | 2297.5 | 926.9  | 160.5 | 40.9 | 3.3    |
| 17.5° | 5192.8 | 5104.4 | 4927.5 | 4609.8 | 4174.2 | 3645.3 | 3034.4 | 1144.7 | 142.5 | 26.2 | 0.0    |
| 20°   | 5870.8 | 5777.4 | 5612.0 | 5332.0 | 4868.5 | 4247.9 | 3548.7 | 1282.2 | 117.9 | 16.4 | 0.0    |
| 21°   | 6064.0 | 5973.9 | 5811.8 | 5533.4 | 5071.6 | 4452.6 | 3674.7 | 1311.7 | 106.4 | 13.1 | 0.0    |
| 22°   | 6234.3 | 6163.9 | 6013.2 | 5710.3 | 5240.3 | 4603.3 | 3802.5 | 1315.0 | 98.3  | 9.8  | 0.0    |
| 23°   | 6353.8 | 6303.1 | 6152.4 | 5874.0 | 5405.7 | 4726.1 | 3871.3 | 1295.3 | 88.4  | 6.6  | 0.0    |
| 24°   | 6468.5 | 6406.2 | 6276.9 | 6018.1 | 5536.7 | 4829.2 | 3933.5 | 1259.3 | 78.6  | 4.9  | 0.0    |
| 25°   | 6532.3 | 6460.3 | 6360.4 | 6118.0 | 5644.8 | 4894.7 | 3971.1 | 1213.5 | 68.8  | 3.3  | 0.0    |
| 26°   | 6576.6 | 6520.9 | 6411.2 | 6177.0 | 5690.6 | 4937.3 | 3976.1 | 1146.3 | 62.2  | 1.6  | 0.0    |
| 27°   | 6643.7 | 6588.0 | 6481.6 | 6229.4 | 5710.3 | 4930.8 | 3946.6 | 1069.3 | 54.0  | 0.0  | 0.0    |
| 28°   | 6745.2 | 6671.5 | 6565.1 | 6285.1 | 5718.5 | 4902.9 | 3881.1 | 985.8  | 45.9  | 0.0  | 0.0    |
| 29°   | 6861.5 | 6786.2 | 6669.9 | 6358.8 | 5720.1 | 4847.3 | 3777.9 | 894.1  | 40.9  | 0.0  | 0.0    |
| 30°   | 6985.9 | 6920.4 | 6802.5 | 6430.8 | 5738.1 | 4775.2 | 3658.4 | 795.9  | 32.8  | 0.0  | 0.0    |
| 31°   | 7084.2 | 7025.2 | 6899.2 | 6496.3 | 5752.8 | 4713.0 | 3511.0 | 697.6  | 27.8  | 0.0  | 0.0    |
| 32°   | 7169.4 | 7117.0 | 6961.4 | 6511.0 | 5723.4 | 4624.5 | 3353.8 | 602.6  | 22.9  | 0.0  | 0.0    |
| 33°   | 7228.3 | 7162.8 | 6981.0 | 6473.4 | 5638.2 | 4478.8 | 3178.6 | 512.6  | 18.0  | 0.0  | 0.0    |
| 34°   | 7249.6 | 7171.0 | 6951.6 | 6375.1 | 5466.3 | 4257.7 | 2950.9 | 419.2  | 14.7  | 0.0  | 0.0    |
| 35°   | 7226.7 | 7130.1 | 6845.1 | 6206.5 | 5233.7 | 3994.1 | 2677.5 | 324.2  | 11.5  | 0.0  | 0.0    |
| 36°   | 7153.0 | 7030.2 | 6692.8 | 5965.7 | 4901.3 | 3682.9 | 2404.0 | 252.2  | 8.2   | 0.0  | 0.0    |
| 37°   | 6994.1 | 6858.2 | 6432.4 | 5648.0 | 4572.1 | 3325.9 | 2092.8 | 196.5  | 4.9   | 0.0  | 0.0    |
| 38°   | 6799.3 | 6602.8 | 6085.3 | 5246.8 | 4146.4 | 2924.7 | 1785.0 | 162.1  | 3.3   | 0.0  | 0.0    |
| 39°   | 6466.8 | 6250.7 | 5672.6 | 4785.0 | 3728.8 | 2543.2 | 1485.3 | 140.8  | 1.6   | 0.0  | 0.0    |
| 40°   | 6065.6 | 5808.5 | 5201.0 | 4290.5 | 3235.9 | 2143.6 | 1239.7 | 117.9  | 1.6   | 0.0  | 0.0    |
| 42.5° | 4575.4 | 4357.6 | 3704.2 | 2918.2 | 1978.2 | 1264.2 | 687.8  | 77.0   | 0.0   | 0.0  | 0.0    |
| 45°   | 2859.2 | 2631.6 | 2189.5 | 1599.9 | 1071.0 | 655.0  | 330.8  | 44.2   | 0.0   | 0.0  | 0.0    |
| 47.5° | 1167.6 | 1071.0 | 881.0  | 678.0  | 484.7  | 307.9  | 137.6  | 19.7   | 0.0   | 0.0  | 0.0    |
| 50°   | 401.2  | 357.0  | 299.7  | 219.4  | 155.6  | 106.4  | 72.1   | 4.9    | 0.0   | 0.0  | 0.0    |
| 52.5° | 116.3  | 117.9  | 103.2  | 88.4   | 68.8   | 49.1   | 36.0   | 0.0    | 0.0   | 0.0  | 0.0    |
| 55°   | 21.3   | 18.0   | 21.3   | 19.7   | 21.3   | 18.0   | 13.1   | 0.0    | 0.0   | 1.6  | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 0.0    | 1.6   | 1.6  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6   | 1.6  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6   | 3.3  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6   | 3.3  | 1.6    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 3.3  | 1.6    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 3.3  | 1.6    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 4.9  | 1.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 4.9  | 1.6    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 4.9  | 1.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.3   | 4.9  | 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 | 0.0 | 1.6 | 3.3   | 4.9 | 1.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.3   | 4.9 | 1.6    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.3   | 4.9 | 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°    | 93.3 | 93.3   | 93.3 |
| 2.5°  | 60.6 | 54.0   | 50.8 |
| 5°    | 34.4 | 26.2   | 24.6 |
| 7.5°  | 18.0 | 11.5   | 9.8  |
| 10°   | 6.6  | 1.6    | 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)