

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: P1316528

Luminaire Tested: P3SQAS20R309827D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316528  
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: P3SQAS20R309827D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

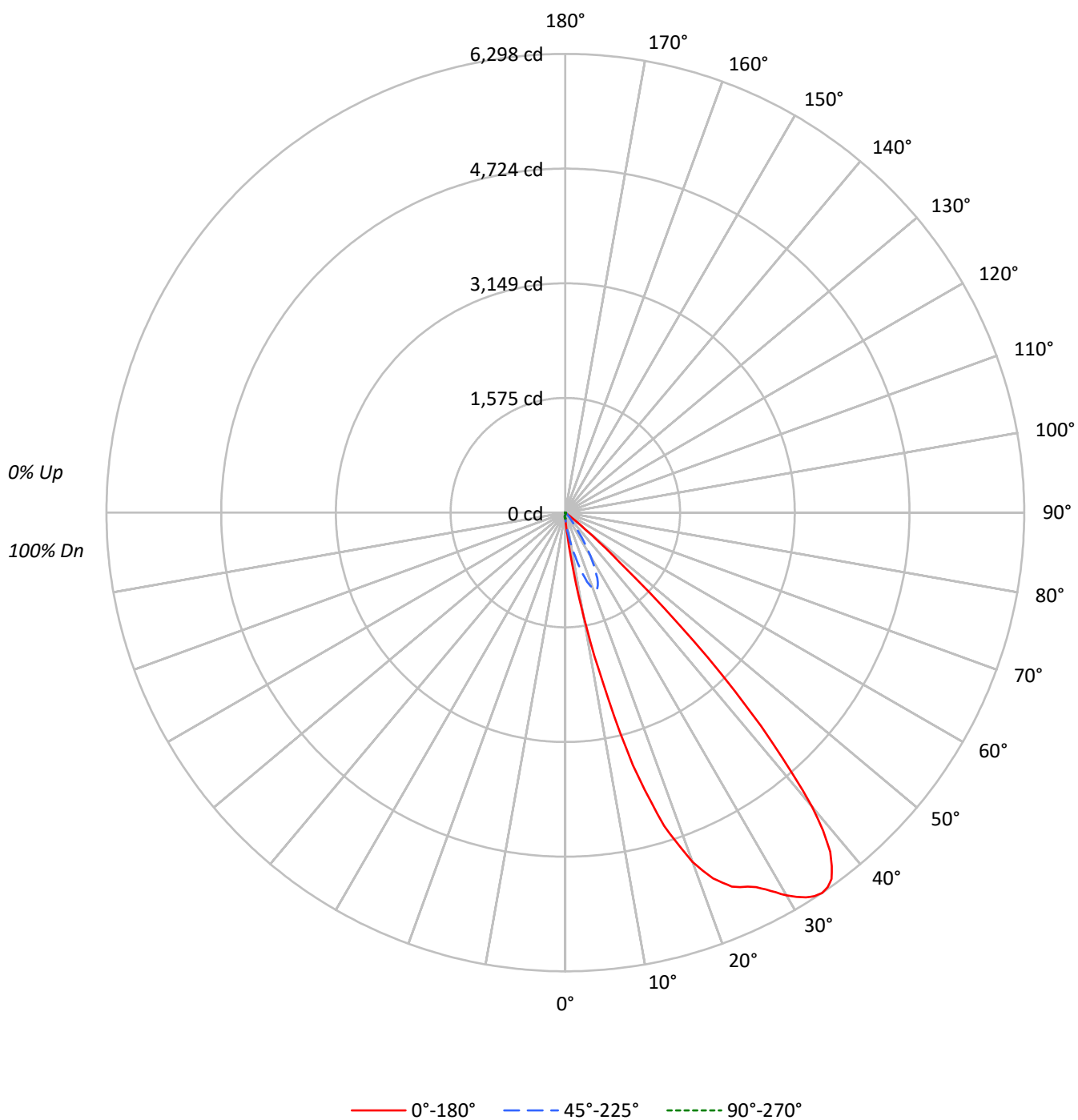
Lumens per Lamp: N/A  
Luminaire Lumens: 1516.0 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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°  | 13967   | 13967  | 13967 | 13967 | 13967 |
| 5°  | 50671   | 31482  | 12793 | 5169  | 3682  |
| 10° | 250795  | 75391  | 9951  | 997   | 0     |
| 15° | 639733  | 143566 | 6347  | 0     | 0     |
| 20° | 934760  | 204169 | 2603  | 0     | 0     |
| 25° | 1078420 | 200326 | 532   | 0     | 0     |
| 30° | 1206955 | 137496 | 0     | 0     | 0     |
| 35° | 1319981 | 59226  | 0     | 0     | 0     |
| 40° | 1184715 | 23022  | 0     | 0     | 0     |
| 45° | 605002  | 9353   | 0     | 0     | 0     |
| 50° | 93401   | 1152   | 0     | 0     | 0     |
| 55° | 5555    | 0      | 420   | 0     | 0     |
| 60° | 0       | 0      | 482   | 0     | 0     |
| 65° | 0       | 0      | 1141  | 0     | 0     |
| 70° | 0       | 705    | 1410  | 0     | 0     |
| 75° | 0       | 932    | 2861  | 0     | 0     |
| 80° | 0       | 1389   | 4265  | 0     | 0     |
| 85° | 0       | 2766   | 8497  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 605002 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.9   | 1.1       |
| 10°-20°   | 202.0  | 13.3      |
| 20°-30°   | 499.2  | 32.9      |
| 30°-40°   | 574.0  | 37.9      |
| 40°-50°   | 212.9  | 14.0      |
| 50°-60°   | 7.7    | 0.5       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 718.1  | 47.4      |
| 0°-40°    | 1292.1 | 85.2      |
| 0°-60°    | 1512.8 | 99.8      |
| 0°-90°    | 1516.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1516.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 81   | 81   | 81  | 81   | 81   |      |
| 5°  | 293  | 182  | 74  | 30   | 21   | 64   |
| 15° | 3588 | 805  | 36  | 0    | 0    | 1032 |
| 25° | 5675 | 1054 | 3   | 0    | 0    | 2622 |
| 35° | 6278 | 282  | 0   | 0    | 0    | 3806 |
| 45° | 2484 | 38   | 0   | 0    | 0    | 1935 |
| 55° | 18   | 0    | 1   | 0    | 0    | 63   |
| 65° | 0    | 0    | 3   | 0    | 0    | 0    |
| 75° | 0    | 1    | 4   | 0    | 0    | 0    |
| 85° | 0    | 1    | 4   | 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°    | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1  | 81.1 | 81.1   |
| 2.5°  | 143.7  | 145.1  | 145.1  | 140.8  | 139.4  | 138.0  | 133.7  | 120.9  | 101.0 | 81.1 | 65.4   |
| 5°    | 293.1  | 294.5  | 294.5  | 286.0  | 268.9  | 251.8  | 237.6  | 182.1  | 116.7 | 74.0 | 48.4   |
| 7.5°  | 691.4  | 692.8  | 663.0  | 628.8  | 560.5  | 525.0  | 459.5  | 280.3  | 132.3 | 66.9 | 31.3   |
| 10°   | 1434.1 | 1402.8 | 1324.5 | 1224.9 | 1119.7 | 983.1  | 845.1  | 431.1  | 143.7 | 56.9 | 19.9   |
| 12.5° | 2397.2 | 2367.3 | 2266.3 | 2124.1 | 1917.8 | 1650.3 | 1388.5 | 606.1  | 145.1 | 45.5 | 11.4   |
| 15°   | 3588.0 | 3504.1 | 3383.1 | 3147.0 | 2842.5 | 2428.5 | 1996.0 | 805.2  | 139.4 | 35.6 | 2.8    |
| 17.5° | 4511.3 | 4434.5 | 4280.9 | 4004.9 | 3626.4 | 3166.9 | 2636.2 | 994.5  | 123.8 | 22.8 | 0.0    |
| 20°   | 5100.3 | 5019.2 | 4875.5 | 4632.3 | 4229.6 | 3690.4 | 3083.0 | 1114.0 | 102.4 | 14.2 | 0.0    |
| 21°   | 5268.2 | 5189.9 | 5049.1 | 4807.2 | 4406.1 | 3868.3 | 3192.5 | 1139.6 | 92.5  | 11.4 | 0.0    |
| 22°   | 5416.2 | 5355.0 | 5224.1 | 4960.9 | 4552.6 | 3999.2 | 3303.5 | 1142.4 | 85.4  | 8.5  | 0.0    |
| 23°   | 5520.0 | 5475.9 | 5345.0 | 5103.2 | 4696.3 | 4105.9 | 3363.2 | 1125.3 | 76.8  | 5.7  | 0.0    |
| 24°   | 5619.6 | 5565.5 | 5453.1 | 5228.4 | 4810.1 | 4195.5 | 3417.3 | 1094.0 | 68.3  | 4.3  | 0.0    |
| 25°   | 5675.1 | 5612.5 | 5525.7 | 5315.1 | 4904.0 | 4252.4 | 3450.0 | 1054.2 | 59.8  | 2.8  | 0.0    |
| 26°   | 5713.5 | 5665.1 | 5569.8 | 5366.4 | 4943.8 | 4289.4 | 3454.3 | 995.9  | 54.1  | 1.4  | 0.0    |
| 27°   | 5771.8 | 5723.5 | 5631.0 | 5411.9 | 4960.9 | 4283.7 | 3428.7 | 929.0  | 46.9  | 0.0  | 0.0    |
| 28°   | 5860.0 | 5796.0 | 5703.5 | 5460.3 | 4968.0 | 4259.5 | 3371.8 | 856.5  | 39.8  | 0.0  | 0.0    |
| 29°   | 5961.0 | 5895.6 | 5794.6 | 5524.3 | 4969.4 | 4211.1 | 3282.1 | 776.8  | 35.6  | 0.0  | 0.0    |
| 30°   | 6069.2 | 6012.3 | 5909.8 | 5586.9 | 4985.1 | 4148.5 | 3178.3 | 691.4  | 28.5  | 0.0  | 0.0    |
| 31°   | 6154.5 | 6103.3 | 5993.8 | 5643.8 | 4997.9 | 4094.5 | 3050.2 | 606.1  | 24.2  | 0.0  | 0.0    |
| 32°   | 6228.5 | 6183.0 | 6047.8 | 5656.6 | 4972.3 | 4017.7 | 2913.7 | 523.5  | 19.9  | 0.0  | 0.0    |
| 33°   | 6279.7 | 6222.8 | 6064.9 | 5623.9 | 4898.3 | 3891.0 | 2761.4 | 445.3  | 15.6  | 0.0  | 0.0    |
| 34°   | 6298.2 | 6229.9 | 6039.3 | 5538.5 | 4748.9 | 3699.0 | 2563.7 | 364.2  | 12.8  | 0.0  | 0.0    |
| 35°   | 6278.3 | 6194.4 | 5946.8 | 5392.0 | 4546.9 | 3469.9 | 2326.1 | 281.7  | 10.0  | 0.0  | 0.0    |
| 36°   | 6214.3 | 6107.6 | 5814.5 | 5182.8 | 4258.1 | 3199.6 | 2088.5 | 219.1  | 7.1   | 0.0  | 0.0    |
| 37°   | 6076.3 | 5958.2 | 5588.3 | 4906.8 | 3972.1 | 2889.5 | 1818.2 | 170.7  | 4.3   | 0.0  | 0.0    |
| 38°   | 5907.0 | 5736.3 | 5286.7 | 4558.3 | 3602.2 | 2540.9 | 1550.7 | 140.8  | 2.8   | 0.0  | 0.0    |
| 39°   | 5618.2 | 5430.4 | 4928.2 | 4157.1 | 3239.4 | 2209.4 | 1290.4 | 122.4  | 1.4   | 0.0  | 0.0    |
| 40°   | 5269.6 | 5046.3 | 4518.4 | 3727.4 | 2811.2 | 1862.3 | 1077.0 | 102.4  | 1.4   | 0.0  | 0.0    |
| 42.5° | 3975.0 | 3785.8 | 3218.1 | 2535.2 | 1718.6 | 1098.3 | 597.5  | 66.9   | 0.0   | 0.0  | 0.0    |
| 45°   | 2484.0 | 2286.3 | 1902.1 | 1390.0 | 930.4  | 569.1  | 287.4  | 38.4   | 0.0   | 0.0  | 0.0    |
| 47.5° | 1014.4 | 930.4  | 765.4  | 589.0  | 421.1  | 267.5  | 119.5  | 17.1   | 0.0   | 0.0  | 0.0    |
| 50°   | 348.6  | 310.1  | 260.4  | 190.6  | 135.2  | 92.5   | 62.6   | 4.3    | 0.0   | 0.0  | 0.0    |
| 52.5° | 101.0  | 102.4  | 89.6   | 76.8   | 59.8   | 42.7   | 31.3   | 0.0    | 0.0   | 0.0  | 0.0    |
| 55°   | 18.5   | 15.6   | 18.5   | 17.1   | 18.5   | 15.6   | 11.4   | 0.0    | 0.0   | 1.4  | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 0.0    | 1.4   | 1.4  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4   | 1.4  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4   | 2.8  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4   | 2.8  | 1.4    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 2.8  | 1.4    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 2.8  | 1.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 4.3  | 1.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 4.3  | 1.4    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 4.3  | 1.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.8   | 4.3  | 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 | 0.0 | 1.4 | 2.8   | 4.3 | 1.4    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.8   | 4.3 | 1.4    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.8   | 4.3 | 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°    | 81.1 | 81.1   | 81.1 |
| 2.5°  | 52.6 | 46.9   | 44.1 |
| 5°    | 29.9 | 22.8   | 21.3 |
| 7.5°  | 15.6 | 10.0   | 8.5  |
| 10°   | 5.7  | 1.4    | 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)