

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: P1313708

Luminaire Tested: P3SQAS20R309730D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313708  
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: P3SQAS20R309730D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

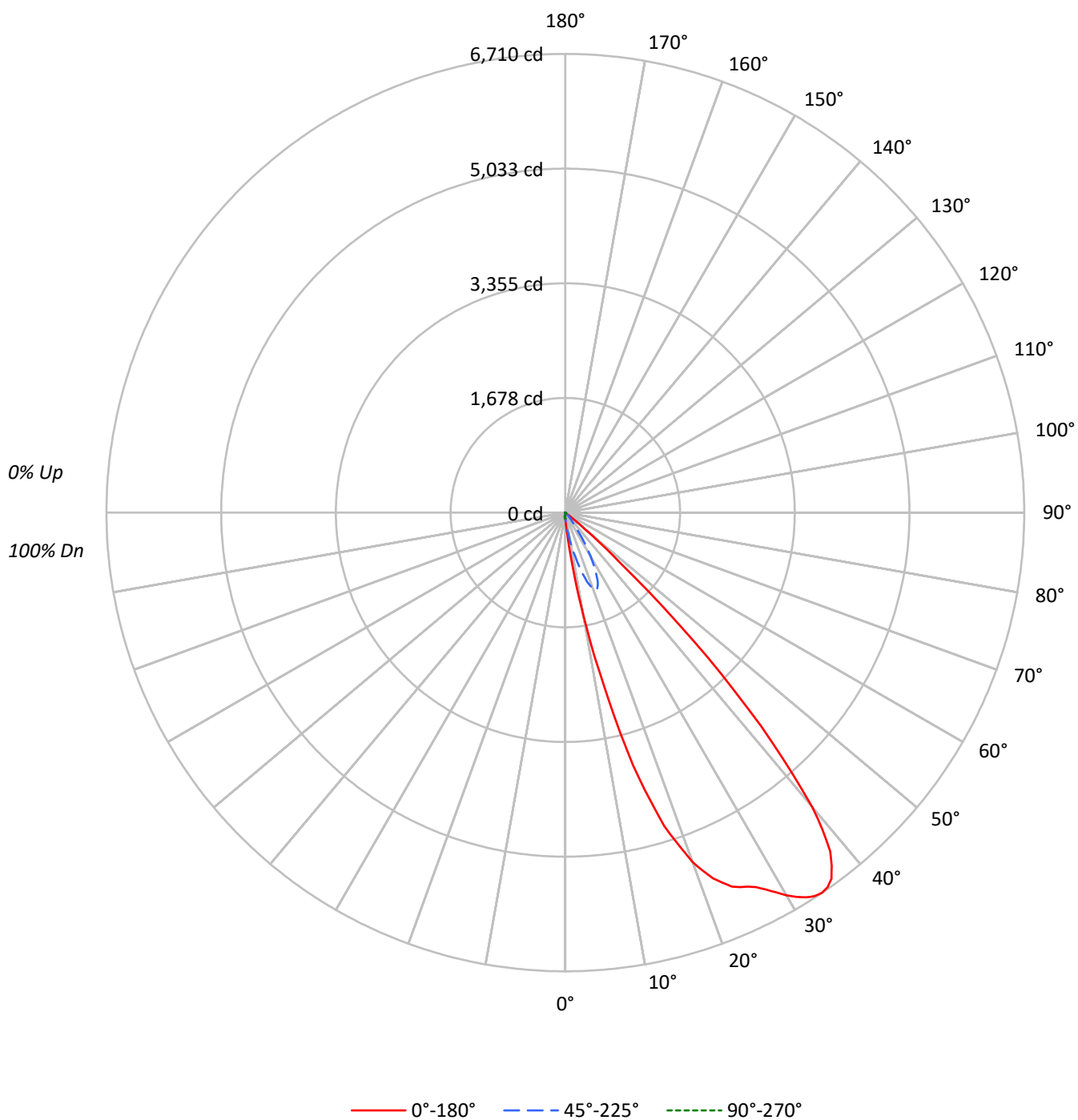
Lumens per Lamp: N/A  
Luminaire Lumens: 1615.0 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 |
| 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°  | 14880   | 14880  | 14880 | 14880 | 14880 |
| 5°  | 53973   | 33539  | 13623 | 5498  | 3924  |
| 10° | 267163  | 80305  | 10598 | 1067  | 0     |
| 15° | 681508  | 152944 | 6757  | 0     | 0     |
| 20° | 995809  | 217493 | 2786  | 0     | 0     |
| 25° | 1148844 | 213419 | 570   | 0     | 0     |
| 30° | 1285765 | 146484 | 0     | 0     | 0     |
| 35° | 1406182 | 63095  | 0     | 0     | 0     |
| 40° | 1262076 | 24528  | 0     | 0     | 0     |
| 45° | 644507  | 9962   | 0     | 0     | 0     |
| 50° | 99483   | 1206   | 0     | 0     | 0     |
| 55° | 5915    | 0      | 450   | 0     | 0     |
| 60° | 0       | 0      | 517   | 0     | 0     |
| 65° | 0       | 0      | 1223  | 0     | 0     |
| 70° | 0       | 755    | 1511  | 0     | 0     |
| 75° | 0       | 998    | 2994  | 0     | 0     |
| 80° | 0       | 1488   | 4463  | 0     | 0     |
| 85° | 0       | 2964   | 8892  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 644507 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.0   | 1.1       |
| 10°-20°   | 215.2  | 13.3      |
| 20°-30°   | 531.8  | 32.9      |
| 30°-40°   | 611.5  | 37.9      |
| 40°-50°   | 226.8  | 14.0      |
| 50°-60°   | 8.3    | 0.5       |
| 60°-70°   | 0.8    | 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°    | 765.0  | 47.4      |
| 0°-40°    | 1376.5 | 85.2      |
| 0°-60°    | 1611.6 | 99.8      |
| 0°-90°    | 1615.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1615.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 86   | 86   | 86  | 86   | 86   |      |
| 5°  | 312  | 194  | 79  | 32   | 23   | 68   |
| 15° | 3822 | 858  | 38  | 0    | 0    | 1099 |
| 25° | 6046 | 1123 | 3   | 0    | 0    | 2793 |
| 35° | 6688 | 300  | 0   | 0    | 0    | 4055 |
| 45° | 2646 | 41   | 0   | 0    | 0    | 2061 |
| 55° | 20   | 0    | 2   | 0    | 0    | 68   |
| 65° | 0    | 0    | 3   | 0    | 0    | 0    |
| 75° | 0    | 2    | 4   | 0    | 0    | 0    |
| 85° | 0    | 2    | 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°    | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4   | 86.4  | 86.4 | 86.4   |
| 2.5°  | 153.1  | 154.6  | 154.6  | 150.0  | 148.5  | 147.0  | 142.5  | 128.8  | 107.6 | 86.4 | 69.7   |
| 5°    | 312.2  | 313.7  | 313.7  | 304.6  | 286.4  | 268.3  | 253.1  | 194.0  | 124.3 | 78.8 | 51.5   |
| 7.5°  | 736.6  | 738.1  | 706.3  | 669.9  | 597.1  | 559.3  | 489.5  | 298.6  | 140.9 | 71.2 | 33.3   |
| 10°   | 1527.7 | 1494.4 | 1411.0 | 1304.9 | 1192.8 | 1047.3 | 900.3  | 459.2  | 153.1 | 60.6 | 21.2   |
| 12.5° | 2553.8 | 2521.9 | 2414.3 | 2262.8 | 2043.0 | 1758.1 | 1479.2 | 645.6  | 154.6 | 48.5 | 12.1   |
| 15°   | 3822.3 | 3732.9 | 3604.1 | 3352.5 | 3028.1 | 2587.1 | 2126.4 | 857.8  | 148.5 | 37.9 | 3.0    |
| 17.5° | 4805.9 | 4724.1 | 4560.4 | 4266.4 | 3863.2 | 3373.7 | 2808.4 | 1059.4 | 131.9 | 24.2 | 0.0    |
| 20°   | 5433.4 | 5347.0 | 5193.9 | 4934.8 | 4505.8 | 3931.4 | 3284.3 | 1186.7 | 109.1 | 15.2 | 0.0    |
| 21°   | 5612.2 | 5528.9 | 5378.8 | 5121.2 | 4693.8 | 4120.9 | 3401.0 | 1214.0 | 98.5  | 12.1 | 0.0    |
| 22°   | 5769.8 | 5704.7 | 5565.2 | 5284.9 | 4849.9 | 4260.3 | 3519.2 | 1217.0 | 90.9  | 9.1  | 0.0    |
| 23°   | 5880.5 | 5833.5 | 5694.1 | 5436.4 | 5003.0 | 4374.0 | 3582.9 | 1198.8 | 81.8  | 6.1  | 0.0    |
| 24°   | 5986.6 | 5929.0 | 5809.3 | 5569.8 | 5124.2 | 4469.5 | 3640.4 | 1165.5 | 72.7  | 4.5  | 0.0    |
| 25°   | 6045.7 | 5979.0 | 5886.5 | 5662.2 | 5224.2 | 4530.1 | 3675.3 | 1123.1 | 63.7  | 3.0  | 0.0    |
| 26°   | 6086.6 | 6035.1 | 5933.5 | 5716.8 | 5266.7 | 4569.5 | 3679.9 | 1060.9 | 57.6  | 1.5  | 0.0    |
| 27°   | 6148.7 | 6097.2 | 5998.7 | 5765.3 | 5284.9 | 4563.4 | 3652.6 | 989.7  | 50.0  | 0.0  | 0.0    |
| 28°   | 6242.7 | 6174.5 | 6076.0 | 5816.8 | 5292.4 | 4537.7 | 3591.9 | 912.4  | 42.4  | 0.0  | 0.0    |
| 29°   | 6350.3 | 6280.6 | 6173.0 | 5885.0 | 5294.0 | 4486.1 | 3496.5 | 827.5  | 37.9  | 0.0  | 0.0    |
| 30°   | 6465.5 | 6404.9 | 6295.8 | 5951.7 | 5310.6 | 4419.5 | 3385.8 | 736.6  | 30.3  | 0.0  | 0.0    |
| 31°   | 6556.4 | 6501.9 | 6385.2 | 6012.3 | 5324.3 | 4361.9 | 3249.4 | 645.6  | 25.8  | 0.0  | 0.0    |
| 32°   | 6635.3 | 6586.8 | 6442.8 | 6026.0 | 5297.0 | 4280.0 | 3103.9 | 557.7  | 21.2  | 0.0  | 0.0    |
| 33°   | 6689.8 | 6629.2 | 6461.0 | 5991.1 | 5218.2 | 4145.1 | 2941.8 | 474.4  | 16.7  | 0.0  | 0.0    |
| 34°   | 6709.5 | 6636.8 | 6433.7 | 5900.2 | 5059.0 | 3940.5 | 2731.1 | 388.0  | 13.6  | 0.0  | 0.0    |
| 35°   | 6688.3 | 6598.9 | 6335.2 | 5744.1 | 4843.8 | 3696.5 | 2478.0 | 300.1  | 10.6  | 0.0  | 0.0    |
| 36°   | 6620.1 | 6506.4 | 6194.2 | 5521.3 | 4536.2 | 3408.6 | 2224.9 | 233.4  | 7.6   | 0.0  | 0.0    |
| 37°   | 6473.1 | 6347.3 | 5953.2 | 5227.3 | 4231.5 | 3078.2 | 1936.9 | 181.9  | 4.5   | 0.0  | 0.0    |
| 38°   | 6292.7 | 6110.9 | 5631.9 | 4855.9 | 3837.5 | 2706.8 | 1652.0 | 150.0  | 3.0   | 0.0  | 0.0    |
| 39°   | 5985.1 | 5785.0 | 5250.0 | 4428.6 | 3451.0 | 2353.7 | 1374.6 | 130.3  | 1.5   | 0.0  | 0.0    |
| 40°   | 5613.7 | 5375.8 | 4813.5 | 3970.8 | 2994.8 | 1983.9 | 1147.3 | 109.1  | 1.5   | 0.0  | 0.0    |
| 42.5° | 4234.6 | 4033.0 | 3428.3 | 2700.8 | 1830.8 | 1170.0 | 636.5  | 71.2   | 0.0   | 0.0  | 0.0    |
| 45°   | 2646.2 | 2435.6 | 2026.3 | 1480.7 | 991.2  | 606.2  | 306.1  | 40.9   | 0.0   | 0.0  | 0.0    |
| 47.5° | 1080.6 | 991.2  | 815.4  | 627.5  | 448.6  | 284.9  | 127.3  | 18.2   | 0.0   | 0.0  | 0.0    |
| 50°   | 371.3  | 330.4  | 277.4  | 203.1  | 144.0  | 98.5   | 66.7   | 4.5    | 0.0   | 0.0  | 0.0    |
| 52.5° | 107.6  | 109.1  | 95.5   | 81.8   | 63.7   | 45.5   | 33.3   | 0.0    | 0.0   | 0.0  | 0.0    |
| 55°   | 19.7   | 16.7   | 19.7   | 18.2   | 19.7   | 16.7   | 12.1   | 0.0    | 0.0   | 1.5  | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 0.0    | 1.5   | 1.5  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 1.5  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 3.0  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5   | 3.0  | 1.5    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0  | 1.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 3.0  | 1.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 4.5  | 1.5    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 4.5  | 1.5    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 4.5  | 1.5    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 3.0   | 4.5  | 1.5    |



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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 | 1.5 | 3.0   | 4.5 | 1.5    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0   | 4.5 | 1.5    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 3.0   | 4.5 | 1.5    |
| 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°    | 86.4 | 86.4   | 86.4 |
| 2.5°  | 56.1 | 50.0   | 47.0 |
| 5°    | 31.8 | 24.2   | 22.7 |
| 7.5°  | 16.7 | 10.6   | 9.1  |
| 10°   | 6.1  | 1.5    | 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)