

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: P1314524

Luminaire Tested: P3SQAS17R309735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314524  
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: P3SQAS17R309735DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

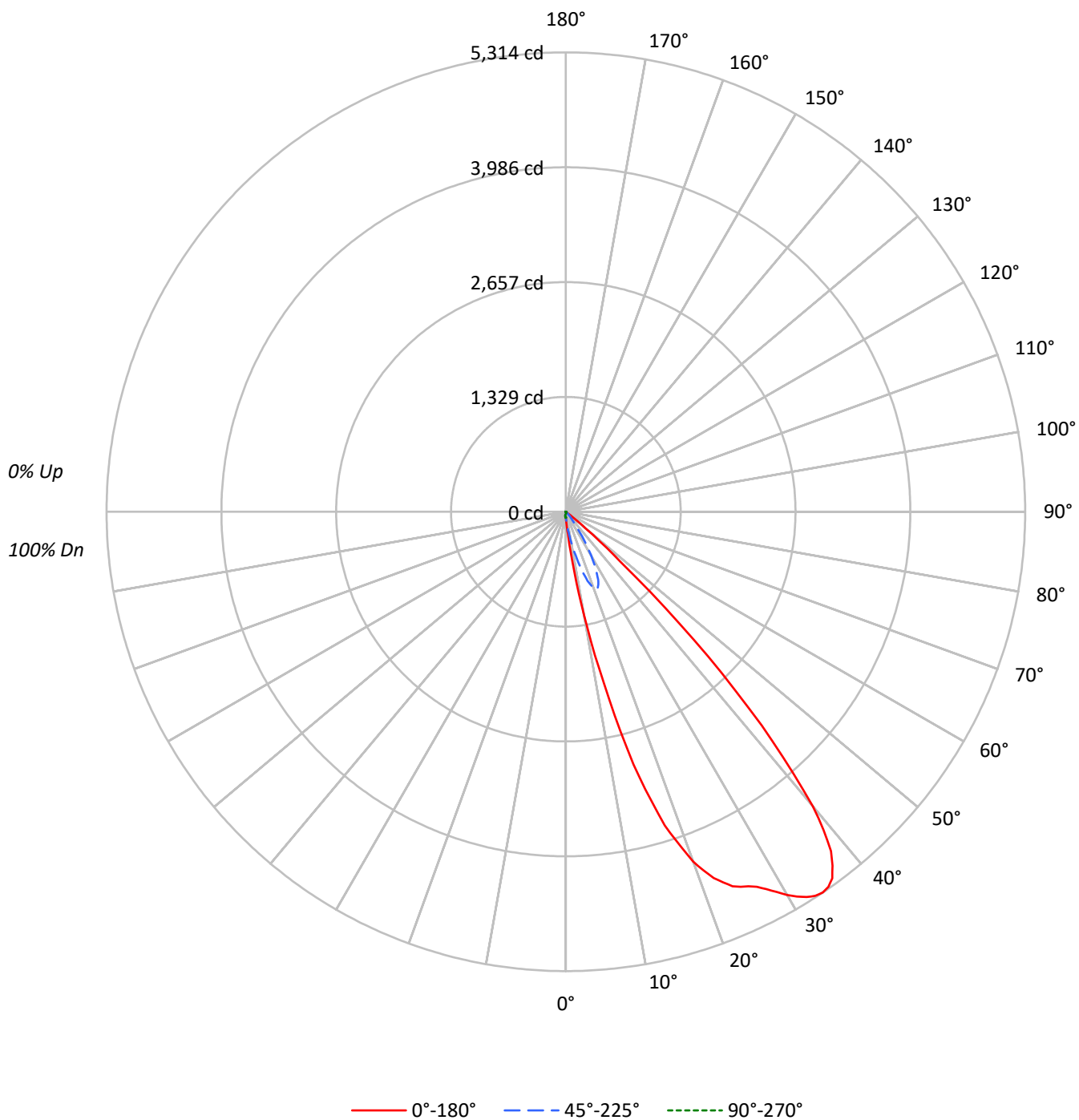
Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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°  | 11780   | 11780  | 11780 | 11780 | 11780 |
| 5°  | 42753   | 26554  | 10788 | 4357  | 3112  |
| 10° | 211587  | 63604  | 8394  | 839   | 0     |
| 15° | 539726  | 121136 | 5349  | 0     | 0     |
| 20° | 788635  | 172242 | 2199  | 0     | 0     |
| 25° | 909829  | 169010 | 456   | 0     | 0     |
| 30° | 1018271 | 115998 | 0     | 0     | 0     |
| 35° | 1113626 | 49975  | 0     | 0     | 0     |
| 40° | 999508  | 19425  | 0     | 0     | 0     |
| 45° | 510428  | 7891   | 0     | 0     | 0     |
| 50° | 78798   | 965    | 0     | 0     | 0     |
| 55° | 4684    | 0      | 360   | 0     | 0     |
| 60° | 0       | 0      | 413   | 0     | 0     |
| 65° | 0       | 0      | 978   | 0     | 0     |
| 70° | 0       | 604    | 1209  | 0     | 0     |
| 75° | 0       | 799    | 2396  | 0     | 0     |
| 80° | 0       | 1190   | 3570  | 0     | 0     |
| 85° | 0       | 2371   | 7114  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 510428 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.3   | 1.1       |
| 10°-20°   | 170.4  | 13.3      |
| 20°-30°   | 421.1  | 32.9      |
| 30°-40°   | 484.3  | 37.9      |
| 40°-50°   | 179.6  | 14.0      |
| 50°-60°   | 6.5    | 0.5       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 605.8  | 47.4      |
| 0°-40°    | 1090.1 | 85.2      |
| 0°-60°    | 1276.3 | 99.8      |
| 0°-90°    | 1279.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1279.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 68   | 68  | 68  | 68   | 68   |      |
| 5°  | 247  | 154 | 62  | 25   | 18   | 54   |
| 15° | 3027 | 679 | 30  | 0    | 0    | 870  |
| 25° | 4788 | 889 | 2   | 0    | 0    | 2212 |
| 35° | 5297 | 238 | 0   | 0    | 0    | 3211 |
| 45° | 2096 | 32  | 0   | 0    | 0    | 1632 |
| 55° | 16   | 0   | 1   | 0    | 0    | 53   |
| 65° | 0    | 0   | 2   | 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°    | 68.4   | 68.4   | 68.4   | 68.4   | 68.4   | 68.4   | 68.4   | 68.4  | 68.4  | 68.4 | 68.4   |
| 2.5°  | 121.2  | 122.4  | 122.4  | 118.8  | 117.6  | 116.4  | 112.8  | 102.0 | 85.2  | 68.4 | 55.2   |
| 5°    | 247.3  | 248.5  | 248.5  | 241.3  | 226.9  | 212.4  | 200.4  | 153.6 | 98.4  | 62.4 | 40.8   |
| 7.5°  | 583.3  | 584.5  | 559.3  | 530.5  | 472.9  | 442.9  | 387.7  | 236.5 | 111.6 | 56.4 | 26.4   |
| 10°   | 1209.9 | 1183.5 | 1117.5 | 1033.4 | 944.6  | 829.4  | 713.0  | 363.7 | 121.2 | 48.0 | 16.8   |
| 12.5° | 2022.5 | 1997.3 | 1912.0 | 1792.0 | 1618.0 | 1392.3 | 1171.5 | 511.3 | 122.4 | 38.4 | 9.6    |
| 15°   | 3027.1 | 2956.3 | 2854.2 | 2655.0 | 2398.1 | 2048.9 | 1684.0 | 679.4 | 117.6 | 30.0 | 2.4    |
| 17.5° | 3806.1 | 3741.2 | 3611.6 | 3378.8 | 3059.5 | 2671.8 | 2224.1 | 839.0 | 104.4 | 19.2 | 0.0    |
| 20°   | 4303.0 | 4234.6 | 4113.3 | 3908.1 | 3568.4 | 3113.5 | 2601.0 | 939.8 | 86.4  | 12.0 | 0.0    |
| 21°   | 4444.6 | 4378.6 | 4259.8 | 4055.7 | 3717.2 | 3263.5 | 2693.4 | 961.4 | 78.0  | 9.6  | 0.0    |
| 22°   | 4569.4 | 4517.8 | 4407.4 | 4185.3 | 3840.9 | 3374.0 | 2787.0 | 963.8 | 72.0  | 7.2  | 0.0    |
| 23°   | 4657.1 | 4619.8 | 4509.4 | 4305.4 | 3962.1 | 3464.0 | 2837.4 | 949.4 | 64.8  | 4.8  | 0.0    |
| 24°   | 4741.1 | 4695.5 | 4600.6 | 4411.0 | 4058.1 | 3539.6 | 2883.1 | 923.0 | 57.6  | 3.6  | 0.0    |
| 25°   | 4787.9 | 4735.1 | 4661.9 | 4484.2 | 4137.3 | 3587.6 | 2910.7 | 889.4 | 50.4  | 2.4  | 0.0    |
| 26°   | 4820.3 | 4779.5 | 4699.1 | 4527.4 | 4170.9 | 3618.8 | 2914.3 | 840.2 | 45.6  | 1.2  | 0.0    |
| 27°   | 4869.5 | 4828.7 | 4750.7 | 4565.8 | 4185.3 | 3614.0 | 2892.7 | 783.8 | 39.6  | 0.0  | 0.0    |
| 28°   | 4943.9 | 4889.9 | 4811.9 | 4606.6 | 4191.3 | 3593.6 | 2844.6 | 722.6 | 33.6  | 0.0  | 0.0    |
| 29°   | 5029.1 | 4973.9 | 4888.7 | 4660.7 | 4192.5 | 3552.8 | 2769.0 | 655.3 | 30.0  | 0.0  | 0.0    |
| 30°   | 5120.4 | 5072.3 | 4985.9 | 4713.5 | 4205.8 | 3500.0 | 2681.4 | 583.3 | 24.0  | 0.0  | 0.0    |
| 31°   | 5192.4 | 5149.2 | 5056.7 | 4761.5 | 4216.6 | 3454.4 | 2573.4 | 511.3 | 20.4  | 0.0  | 0.0    |
| 32°   | 5254.8 | 5216.4 | 5102.4 | 4772.3 | 4194.9 | 3389.6 | 2458.2 | 441.7 | 16.8  | 0.0  | 0.0    |
| 33°   | 5298.0 | 5250.0 | 5116.8 | 4744.7 | 4132.5 | 3282.7 | 2329.7 | 375.7 | 13.2  | 0.0  | 0.0    |
| 34°   | 5313.6 | 5256.0 | 5095.2 | 4672.7 | 4006.5 | 3120.7 | 2162.9 | 307.3 | 10.8  | 0.0  | 0.0    |
| 35°   | 5296.8 | 5226.0 | 5017.1 | 4549.0 | 3836.1 | 2927.5 | 1962.4 | 237.7 | 8.4   | 0.0  | 0.0    |
| 36°   | 5242.8 | 5152.8 | 4905.5 | 4372.6 | 3592.4 | 2699.4 | 1762.0 | 184.8 | 6.0   | 0.0  | 0.0    |
| 37°   | 5126.4 | 5026.7 | 4714.7 | 4139.7 | 3351.2 | 2437.8 | 1533.9 | 144.0 | 3.6   | 0.0  | 0.0    |
| 38°   | 4983.5 | 4839.5 | 4460.2 | 3845.7 | 3039.1 | 2143.7 | 1308.3 | 118.8 | 2.4   | 0.0  | 0.0    |
| 39°   | 4739.9 | 4581.4 | 4157.7 | 3507.2 | 2733.0 | 1864.0 | 1088.6 | 103.2 | 1.2   | 0.0  | 0.0    |
| 40°   | 4445.8 | 4257.4 | 3812.1 | 3144.7 | 2371.7 | 1571.2 | 908.6  | 86.4  | 1.2   | 0.0  | 0.0    |
| 42.5° | 3353.6 | 3193.9 | 2715.0 | 2138.9 | 1449.9 | 926.6  | 504.1  | 56.4  | 0.0   | 0.0  | 0.0    |
| 45°   | 2095.7 | 1928.8 | 1604.8 | 1172.7 | 785.0  | 480.1  | 242.5  | 32.4  | 0.0   | 0.0  | 0.0    |
| 47.5° | 855.8  | 785.0  | 645.7  | 496.9  | 355.3  | 225.7  | 100.8  | 14.4  | 0.0   | 0.0  | 0.0    |
| 50°   | 294.1  | 261.7  | 219.6  | 160.8  | 114.0  | 78.0   | 52.8   | 3.6   | 0.0   | 0.0  | 0.0    |
| 52.5° | 85.2   | 86.4   | 75.6   | 64.8   | 50.4   | 36.0   | 26.4   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 15.6   | 13.2   | 15.6   | 14.4   | 15.6   | 13.2   | 9.6    | 0.0   | 0.0   | 1.2  | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 0.0   | 1.2   | 1.2  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.2   | 1.2  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.2   | 2.4  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.2   | 2.4  | 1.2    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 2.4  | 1.2    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 2.4  | 1.2    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 3.6  | 1.2    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 3.6  | 1.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 3.6  | 1.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.4   | 3.6  | 1.2    |



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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 | 1.2 | 2.4   | 3.6 | 1.2    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.4   | 3.6 | 1.2    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.4   | 3.6 | 1.2    |
| 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°    | 68.4 | 68.4   | 68.4 |
| 2.5°  | 44.4 | 39.6   | 37.2 |
| 5°    | 25.2 | 19.2   | 18.0 |
| 7.5°  | 13.2 | 8.4    | 7.2  |
| 10°   | 4.8  | 1.2    | 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)