

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: P1317749

Luminaire Tested: P3SQAS05R509835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R509835DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

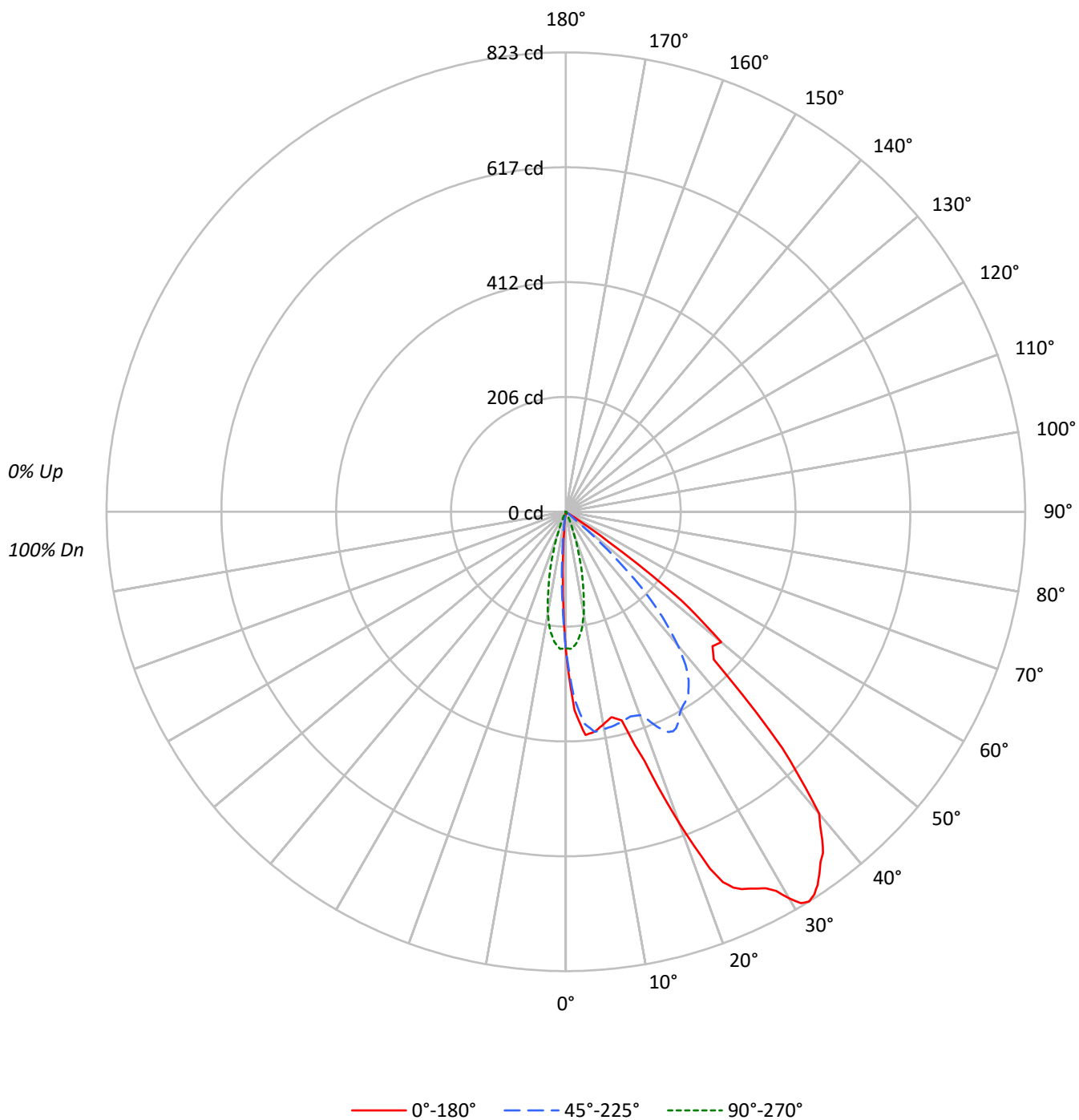
Lumens per Lamp: N/A  
Luminaire Lumens: 394.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  | 0   |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |  |  |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |  |  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |  |  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |  |  |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |  |  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |  |  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |  |  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |  |  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |  |  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |  |  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 42126  | 42126 | 42126 | 42126 | 42126 |
| 5°  | 69412  | 65867 | 40489 | 12032 | 6016  |
| 10° | 67643  | 69130 | 32440 | 612   | 804   |
| 15° | 68966  | 69394 | 19434 | 624   | 214   |
| 20° | 108719 | 71038 | 8009  | 0     | 0     |
| 25° | 141741 | 82757 | 1900  | 0     | 0     |
| 30° | 159092 | 81853 | 80    | 0     | 0     |
| 35° | 166493 | 80608 | 0     | 0     | 0     |
| 40° | 158813 | 70032 | 0     | 0     | 0     |
| 45° | 91213  | 46228 | 0     | 0     | 0     |
| 50° | 97339  | 5278  | 0     | 0     | 0     |
| 55° | 27744  | 0     | 0     | 0     | 0     |
| 60° | 0      | 0     | 138   | 0     | 0     |
| 65° | 0      | 163   | 163   | 0     | 0     |
| 70° | 0      | 201   | 201   | 0     | 0     |
| 75° | 0      | 266   | 266   | 0     | 0     |
| 80° | 0      | 397   | 793   | 397   | 0     |
| 85° | 0      | 790   | 1581  | 790   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $15^\circ$

Vertical Angle:  $45^\circ$

Luminance: 100712 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.5   | 5.2       |
| 10°-20°   | 51.8   | 13.1      |
| 20°-30°   | 99.4   | 25.2      |
| 30°-40°   | 115.7  | 29.4      |
| 40°-50°   | 82.8   | 21.0      |
| 50°-60°   | 23.1   | 5.9       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.2    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 171.7  | 43.6      |
| 0°-40°    | 287.5  | 73.0      |
| 0°-60°    | 393.3  | 99.8      |
| 0°-90°    | 394.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 394.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 245 | 245 | 245 | 245  | 245  |      |
| 5°  | 402 | 381 | 234 | 70   | 35   | 37   |
| 15° | 387 | 389 | 109 | 4    | 1    | 125  |
| 25° | 746 | 436 | 10  | 0    | 0    | 339  |
| 35° | 792 | 383 | 0   | 0    | 0    | 490  |
| 45° | 374 | 190 | 0   | 0    | 0    | 352  |
| 55° | 92  | 0   | 0   | 0    | 0    | 116  |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 1   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 | 244.6 |
| 2.5°  | 355.5 | 357.5 | 357.9 | 353.2 | 354.0 | 347.4 | 347.8 | 343.2 | 332.0 | 292.9 | 245.8 |
| 5°    | 401.5 | 400.4 | 401.5 | 400.0 | 401.5 | 397.7 | 395.3 | 393.4 | 381.0 | 325.8 | 234.2 |
| 7.5°  | 397.3 | 395.7 | 398.1 | 398.8 | 401.5 | 400.4 | 400.8 | 401.9 | 397.7 | 343.6 | 214.5 |
| 10°   | 386.8 | 386.5 | 387.6 | 387.6 | 390.7 | 391.1 | 392.6 | 395.0 | 395.3 | 349.7 | 185.5 |
| 12.5° | 376.8 | 375.6 | 375.6 | 375.3 | 376.8 | 376.4 | 380.3 | 385.7 | 393.0 | 345.9 | 145.7 |
| 15°   | 386.8 | 385.7 | 384.1 | 379.9 | 376.8 | 373.3 | 373.7 | 377.2 | 389.2 | 335.8 | 109.0 |
| 17.5° | 468.0 | 461.8 | 454.1 | 440.6 | 426.3 | 401.5 | 386.8 | 377.6 | 384.5 | 320.4 | 72.7  |
| 20°   | 593.2 | 590.5 | 578.1 | 556.1 | 532.9 | 496.6 | 451.4 | 415.1 | 387.6 | 301.1 | 43.7  |
| 21°   | 640.7 | 639.2 | 626.1 | 605.6 | 579.3 | 535.2 | 488.9 | 445.2 | 393.8 | 292.9 | 34.4  |
| 22°   | 689.4 | 683.6 | 673.2 | 650.4 | 623.0 | 578.9 | 527.1 | 478.8 | 406.2 | 282.5 | 26.3  |
| 23°   | 720.7 | 717.3 | 706.1 | 687.9 | 661.6 | 618.7 | 565.8 | 513.2 | 418.1 | 270.9 | 19.7  |
| 24°   | 737.0 | 735.8 | 726.9 | 714.2 | 691.8 | 648.1 | 597.8 | 543.7 | 428.2 | 257.4 | 14.3  |
| 25°   | 745.9 | 742.0 | 736.6 | 727.3 | 710.3 | 672.4 | 627.6 | 570.4 | 435.5 | 243.9 | 10.0  |
| 26°   | 751.3 | 749.0 | 740.5 | 732.3 | 716.1 | 685.2 | 646.9 | 586.6 | 437.5 | 227.2 | 7.0   |
| 27°   | 757.5 | 752.0 | 743.9 | 734.3 | 716.1 | 689.1 | 654.3 | 593.6 | 435.2 | 210.2 | 4.6   |
| 28°   | 764.0 | 760.2 | 749.0 | 736.6 | 714.9 | 689.1 | 651.6 | 584.3 | 428.2 | 194.0 | 2.7   |
| 29°   | 776.8 | 771.8 | 757.8 | 739.7 | 715.3 | 688.3 | 641.1 | 565.0 | 418.9 | 175.8 | 1.5   |
| 30°   | 800.0 | 789.5 | 772.5 | 747.0 | 718.0 | 686.7 | 623.7 | 536.0 | 411.6 | 155.4 | 0.4   |
| 31°   | 818.1 | 812.3 | 792.6 | 760.5 | 725.8 | 682.5 | 603.3 | 507.4 | 406.6 | 137.6 | 0.0   |
| 32°   | 823.2 | 818.9 | 804.6 | 774.5 | 738.9 | 679.0 | 580.1 | 479.6 | 402.7 | 117.9 | 0.0   |
| 33°   | 817.4 | 814.7 | 799.6 | 772.1 | 742.4 | 674.4 | 553.4 | 452.2 | 398.4 | 100.1 | 0.0   |
| 34°   | 806.5 | 803.1 | 789.9 | 762.1 | 733.5 | 654.3 | 527.9 | 431.3 | 392.3 | 83.5  | 0.0   |
| 35°   | 791.9 | 789.1 | 775.6 | 748.2 | 717.3 | 623.0 | 502.4 | 417.4 | 383.4 | 66.9  | 0.0   |
| 36°   | 776.0 | 775.2 | 757.8 | 730.8 | 696.4 | 592.8 | 471.5 | 406.9 | 374.5 | 52.9  | 0.0   |
| 37°   | 765.6 | 761.7 | 742.8 | 716.1 | 671.7 | 557.7 | 446.7 | 403.5 | 362.1 | 41.0  | 0.0   |
| 38°   | 746.6 | 747.4 | 725.8 | 701.4 | 646.5 | 527.1 | 426.6 | 400.8 | 348.2 | 29.8  | 0.0   |
| 39°   | 724.2 | 724.6 | 702.2 | 681.3 | 616.8 | 495.1 | 410.0 | 398.1 | 330.8 | 18.9  | 0.0   |
| 40°   | 706.4 | 706.1 | 680.6 | 658.1 | 584.7 | 464.9 | 401.1 | 394.2 | 311.5 | 10.8  | 0.0   |
| 42.5° | 574.3 | 576.6 | 579.7 | 589.0 | 509.4 | 412.0 | 392.6 | 372.5 | 256.6 | 0.0   | 0.0   |
| 45°   | 374.5 | 383.4 | 385.7 | 413.5 | 413.1 | 390.3 | 372.5 | 333.9 | 189.8 | 0.0   | 0.0   |
| 47.5° | 356.3 | 359.0 | 364.0 | 374.9 | 380.7 | 369.5 | 333.1 | 279.0 | 103.6 | 0.0   | 0.0   |
| 50°   | 363.3 | 362.9 | 364.0 | 364.0 | 353.6 | 324.6 | 273.2 | 206.0 | 19.7  | 0.0   | 0.0   |
| 52.5° | 260.9 | 270.5 | 281.0 | 285.6 | 272.1 | 241.5 | 199.4 | 121.0 | 0.0   | 0.0   | 0.0   |
| 55°   | 92.4  | 89.3  | 87.0  | 95.1  | 93.1  | 104.7 | 86.6  | 28.2  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.4   | 1.5   | 3.5   | 4.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4   | 0.8 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4   | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4   | 0.8 |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P1317749

CATALOG NUMBER: P3SQAS05R509835DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 244.6  | 244.6 | 244.6  | 244.6 |
| 2.5°  | 195.9  | 150.3 | 121.7  | 123.7 |
| 5°    | 137.6  | 69.6  | 42.9   | 34.8  |
| 7.5°  | 82.3   | 21.3  | 4.3    | 3.5   |
| 10°   | 38.6   | 3.5   | 3.9    | 4.6   |
| 12.5° | 11.6   | 3.1   | 4.3    | 3.9   |
| 15°   | 3.1    | 3.5   | 1.9    | 1.2   |
| 17.5° | 1.2    | 1.5   | 0.0    | 0.0   |
| 20°   | 0.8    | 0.0   | 0.0    | 0.0   |
| 21°   | 0.8    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.4    | 0.4   | 0.0    | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.4    | 0.4  | 0.0    | 0.0  |
| 85°   | 0.4    | 0.4  | 0.0    | 0.0  |
| 87.5° | 0.4    | 0.4  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)