

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: PORTFOLIO

Report Number: P1311016

Luminaire Tested: LDSQA3D02R409040DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409040DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

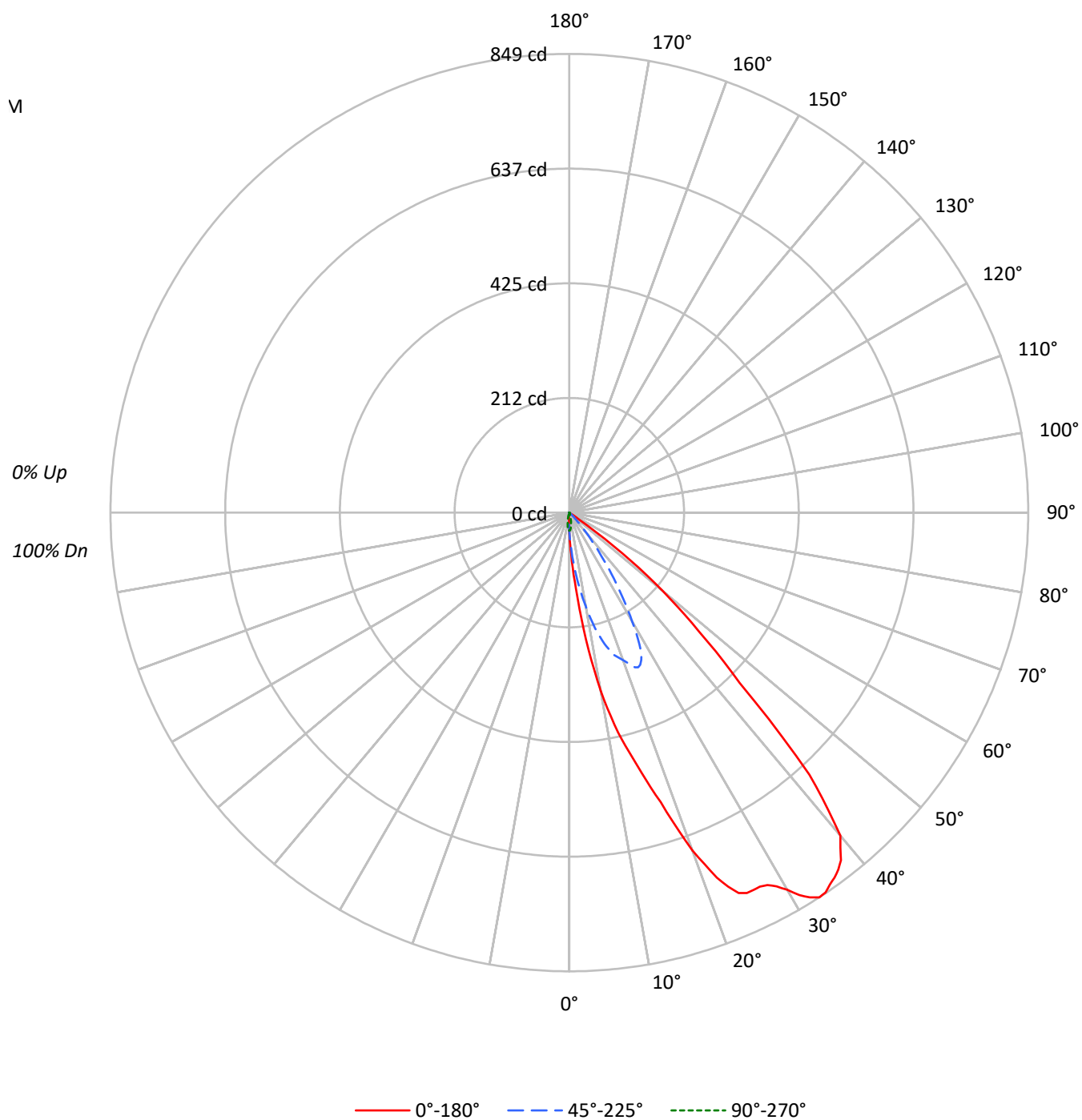
Lumens per Lamp: N/A  
Luminaire Lumens: 285.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5735   | 5735  | 5735 | 5735 | 5735 |
| 5°  | 24359  | 16614 | 5031 | 899  | 449  |
| 10° | 58567  | 30884 | 3113 | 87   | 0    |
| 15° | 86207  | 44878 | 1302 | 0    | 0    |
| 20° | 121842 | 53205 | 477  | 0    | 0    |
| 25° | 147575 | 59060 | 0    | 0    | 0    |
| 30° | 160246 | 46196 | 0    | 0    | 0    |
| 35° | 176690 | 27038 | 0    | 0    | 0    |
| 40° | 175383 | 10971 | 0    | 0    | 0    |
| 45° | 108603 | 3191  | 0    | 0    | 0    |
| 50° | 60472  | 80    | 0    | 0    | 0    |
| 55° | 5915   | 0     | 0    | 0    | 0    |
| 60° | 0      | 0     | 103  | 0    | 0    |
| 65° | 0      | 0     | 122  | 0    | 0    |
| 70° | 0      | 151   | 252  | 0    | 0    |
| 75° | 0      | 200   | 333  | 0    | 0    |
| 80° | 0      | 298   | 496  | 0    | 0    |
| 85° | 0      | 593   | 988  | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 109115 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.2    | 2.2       |
| 10°-20°   | 36.7   | 12.9      |
| 20°-30°   | 83.9   | 29.4      |
| 30°-40°   | 99.0   | 34.7      |
| 40°-50°   | 52.9   | 18.6      |
| 50°-60°   | 5.8    | 2.0       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.2    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 126.8  | 44.5      |
| 0°-40°    | 225.8  | 79.2      |
| 0°-60°    | 284.5  | 99.8      |
| 0°-90°    | 285.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 285.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 33  | 33  | 33  | 33   | 33   |      |
| 5°  | 141 | 96  | 29  | 5    | 3    | 20   |
| 15° | 484 | 252 | 7   | 0    | 0    | 144  |
| 25° | 777 | 311 | 0   | 0    | 0    | 353  |
| 35° | 840 | 129 | 0   | 0    | 0    | 519  |
| 45° | 446 | 13  | 0   | 0    | 0    | 368  |
| 55° | 20  | 0   | 0   | 0    | 0    | 55   |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1311016

CATALOG NUMBER: LDSQA3D02R409040DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3 |
| 2.5°  | 77.7  | 76.1  | 77.2  | 75.1  | 75.1  | 70.3  | 70.6  | 66.7  | 60.9  | 46.5  | 33.1 |
| 5°    | 140.9 | 147.2 | 142.3 | 135.7 | 132.0 | 127.3 | 121.0 | 114.4 | 96.1  | 58.0  | 29.1 |
| 7.5°  | 236.0 | 235.4 | 227.0 | 219.9 | 211.8 | 199.2 | 187.4 | 171.4 | 136.7 | 66.4  | 24.1 |
| 10°   | 334.9 | 333.1 | 323.6 | 317.6 | 302.1 | 284.0 | 259.8 | 234.1 | 176.6 | 69.3  | 17.8 |
| 12.5° | 417.3 | 415.0 | 407.1 | 396.9 | 379.8 | 357.0 | 331.0 | 297.1 | 218.6 | 66.1  | 11.5 |
| 15°   | 483.5 | 482.9 | 475.3 | 461.4 | 443.6 | 421.3 | 391.9 | 351.2 | 251.7 | 58.0  | 7.3  |
| 17.5° | 561.9 | 565.1 | 551.4 | 536.5 | 510.8 | 479.5 | 443.6 | 397.1 | 276.1 | 48.0  | 4.7  |
| 20°   | 664.8 | 660.4 | 647.8 | 626.0 | 601.3 | 563.8 | 512.9 | 446.5 | 290.3 | 37.3  | 2.6  |
| 21°   | 696.3 | 694.5 | 681.4 | 661.2 | 633.9 | 595.8 | 543.3 | 471.7 | 296.9 | 33.3  | 2.1  |
| 22°   | 728.4 | 725.2 | 715.0 | 695.3 | 669.6 | 626.5 | 568.8 | 497.6 | 305.3 | 29.1  | 1.3  |
| 23°   | 752.2 | 750.9 | 743.0 | 723.6 | 697.1 | 655.4 | 596.3 | 521.8 | 311.0 | 25.2  | 0.8  |
| 24°   | 770.6 | 769.0 | 761.2 | 746.5 | 723.6 | 680.1 | 624.2 | 547.8 | 313.4 | 21.8  | 0.3  |
| 25°   | 776.6 | 777.4 | 772.7 | 761.2 | 742.0 | 698.4 | 644.9 | 568.2 | 310.8 | 18.6  | 0.0  |
| 26°   | 776.9 | 779.3 | 775.9 | 769.3 | 753.5 | 713.1 | 664.3 | 580.3 | 303.9 | 15.7  | 0.0  |
| 27°   | 776.9 | 779.3 | 775.9 | 770.9 | 755.4 | 721.5 | 674.8 | 581.6 | 293.4 | 13.4  | 0.0  |
| 28°   | 780.6 | 781.9 | 777.4 | 771.4 | 754.6 | 724.2 | 677.7 | 573.8 | 276.6 | 11.5  | 0.0  |
| 29°   | 790.8 | 789.5 | 782.2 | 774.0 | 753.8 | 724.2 | 669.0 | 558.8 | 255.6 | 9.7   | 0.0  |
| 30°   | 805.8 | 805.8 | 794.2 | 781.4 | 757.5 | 723.9 | 655.1 | 531.8 | 232.3 | 7.9   | 0.0  |
| 31°   | 826.0 | 824.2 | 812.6 | 793.4 | 765.4 | 723.9 | 634.6 | 501.8 | 210.8 | 6.8   | 0.0  |
| 32°   | 839.6 | 838.6 | 827.6 | 805.0 | 778.2 | 723.9 | 612.6 | 468.8 | 187.4 | 5.5   | 0.0  |
| 33°   | 849.1 | 847.0 | 834.4 | 811.0 | 786.1 | 720.2 | 587.9 | 433.3 | 166.4 | 4.5   | 0.0  |
| 34°   | 847.8 | 847.2 | 834.1 | 810.0 | 784.5 | 705.0 | 559.3 | 394.0 | 147.0 | 3.7   | 0.0  |
| 35°   | 840.4 | 840.4 | 824.4 | 799.5 | 773.2 | 682.7 | 531.0 | 360.4 | 128.6 | 2.6   | 0.0  |
| 36°   | 834.9 | 832.8 | 814.7 | 786.9 | 754.3 | 647.5 | 489.0 | 326.5 | 108.9 | 2.1   | 0.0  |
| 37°   | 826.8 | 822.8 | 802.6 | 772.7 | 727.6 | 609.5 | 444.9 | 296.3 | 92.1  | 1.3   | 0.0  |
| 38°   | 816.3 | 810.2 | 785.6 | 756.2 | 698.2 | 565.6 | 400.0 | 262.5 | 76.6  | 0.8   | 0.0  |
| 39°   | 797.1 | 792.1 | 766.7 | 734.9 | 663.0 | 519.4 | 356.4 | 230.7 | 61.9  | 0.3   | 0.0  |
| 40°   | 780.1 | 771.4 | 742.5 | 706.0 | 621.8 | 467.2 | 313.1 | 199.5 | 48.8  | 0.0   | 0.0  |
| 42.5° | 657.7 | 648.6 | 642.0 | 605.8 | 495.3 | 335.4 | 218.6 | 127.8 | 25.5  | 0.0   | 0.0  |
| 45°   | 445.9 | 448.0 | 427.6 | 403.2 | 326.8 | 218.6 | 136.7 | 71.1  | 13.1  | 0.0   | 0.0  |
| 47.5° | 325.2 | 319.7 | 291.9 | 245.7 | 191.6 | 127.8 | 71.4  | 34.4  | 5.2   | 0.0   | 0.0  |
| 50°   | 225.7 | 215.2 | 190.0 | 155.4 | 104.2 | 60.9  | 31.5  | 16.0  | 0.3   | 0.0   | 0.0  |
| 52.5° | 122.6 | 115.2 | 97.6  | 70.9  | 43.3  | 23.4  | 12.6  | 6.6   | 0.0   | 0.0   | 0.0  |
| 55°   | 19.7  | 13.6  | 14.2  | 12.1  | 9.4   | 6.8   | 3.9   | 0.8   | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3  |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3  |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3  |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3  |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5  |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.5   | 0.5  |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.5   | 0.5  |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   | 0.5  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.5   | 0.5  |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   | 0.5  |



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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 | 0.3 | 0.3 | 0.5   | 0.5 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.5   | 0.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.5   | 0.5 |
| 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: P1311016

CATALOG NUMBER: LDSQA3D02R409040DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 33.3   | 33.3 | 33.3   | 33.3 |
| 2.5°  | 22.3   | 15.2 | 11.5   | 10.0 |
| 5°    | 12.9   | 5.2  | 2.9    | 2.6  |
| 7.5°  | 6.3    | 1.8  | 1.0    | 1.0  |
| 10°   | 2.6    | 0.5  | 0.0    | 0.0  |
| 12.5° | 0.8    | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0    | 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°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.3    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.3    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.3    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.3    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.3    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.3    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)