

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: P1316092

Luminaire Tested: LDSQA3D02R309740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316092  
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: PORTFOLIO  
Catalog Number: LDSQA3D02R309740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

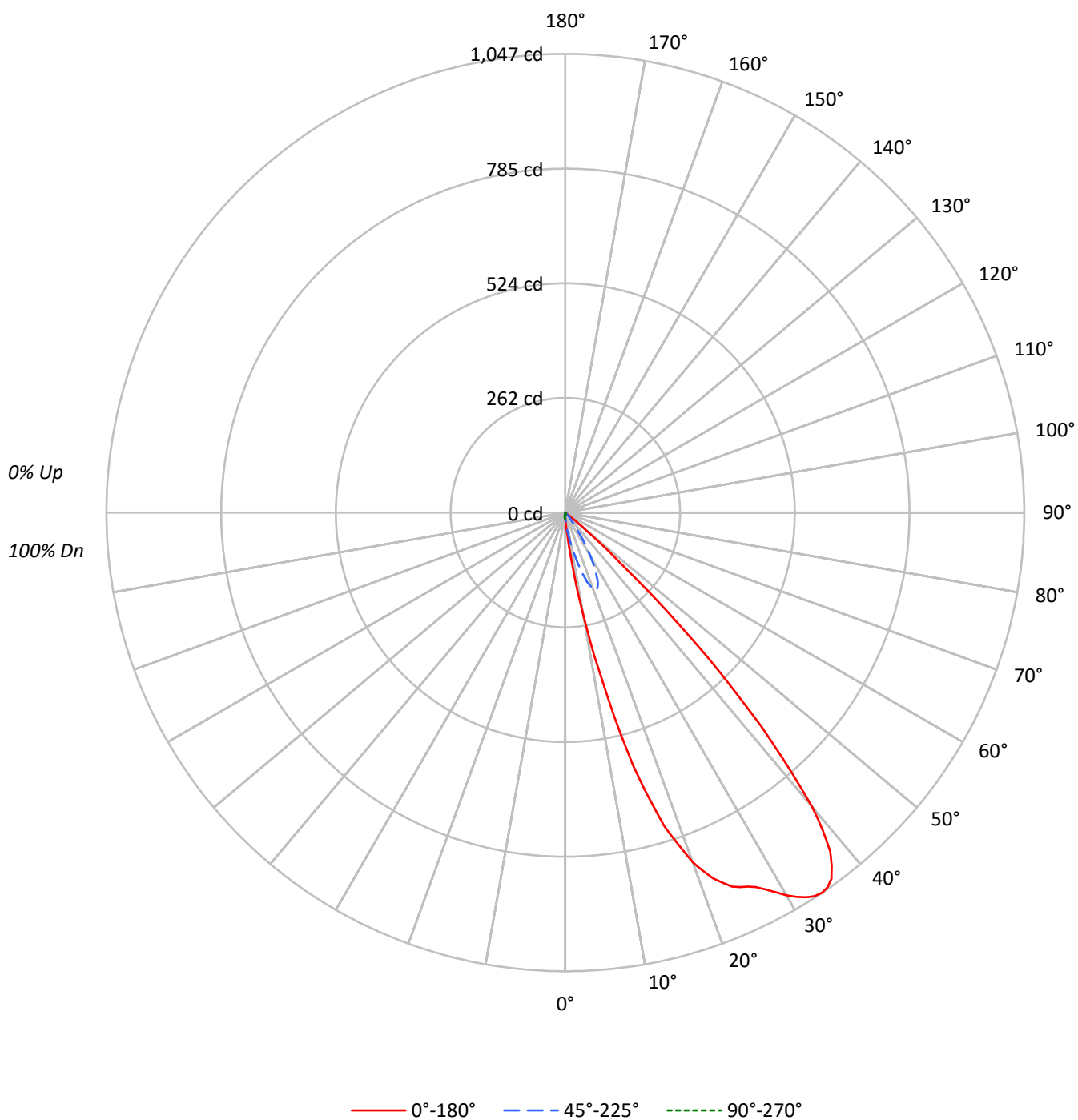
Lumens per Lamp: N/A  
Luminaire Lumens: 252.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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   | 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  | 70  | 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°  | 2325   | 2325  | 2325 | 2325 | 2325 |
| 5°  | 8419   | 5238  | 2126 | 864  | 605  |
| 10° | 41691  | 12539 | 1661 | 157  | 0    |
| 15° | 106337 | 23874 | 1052 | 0    | 0    |
| 20° | 155381 | 33943 | 440  | 0    | 0    |
| 25° | 179271 | 33293 | 95   | 0    | 0    |
| 30° | 200635 | 22850 | 0    | 0    | 0    |
| 35° | 219412 | 9839  | 0    | 0    | 0    |
| 40° | 196943 | 3822  | 0    | 0    | 0    |
| 45° | 100566 | 1559  | 0    | 0    | 0    |
| 50° | 15513  | 188   | 0    | 0    | 0    |
| 55° | 931    | 0     | 60   | 0    | 0    |
| 60° | 0      | 0     | 69   | 0    | 0    |
| 65° | 0      | 0     | 204  | 0    | 0    |
| 70° | 0      | 101   | 252  | 0    | 0    |
| 75° | 0      | 133   | 466  | 0    | 0    |
| 80° | 0      | 198   | 694  | 0    | 0    |
| 85° | 0      | 395   | 1383 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 100566 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 1.1       |
| 10°-20°   | 33.6   | 13.3      |
| 20°-30°   | 83.0   | 32.9      |
| 30°-40°   | 95.4   | 37.9      |
| 40°-50°   | 35.4   | 14.0      |
| 50°-60°   | 1.3    | 0.5       |
| 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°    | 119.4  | 47.4      |
| 0°-40°    | 214.8  | 85.2      |
| 0°-60°    | 251.5  | 99.8      |
| 0°-90°    | 252.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 252.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 49   | 30  | 12  | 5    | 4    | 11   |
| 15° | 596  | 134 | 6   | 0    | 0    | 171  |
| 25° | 943  | 175 | 0   | 0    | 0    | 436  |
| 35° | 1044 | 47  | 0   | 0    | 0    | 633  |
| 45° | 413  | 6   | 0   | 0    | 0    | 322  |
| 55° | 3    | 0   | 0   | 0    | 0    | 11   |
| 65° | 0    | 0   | 0   | 0    | 0    | 0    |
| 75° | 0    | 0   | 1   | 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°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|--------|
| 0°    | 13.5   | 13.5   | 13.5   | 13.5  | 13.5  | 13.5  | 13.5  | 13.5  | 13.5  | 13.5 | 13.5   |
| 2.5°  | 23.9   | 24.1   | 24.1   | 23.4  | 23.2  | 22.9  | 22.2  | 20.1  | 16.8  | 13.5 | 10.9   |
| 5°    | 48.7   | 49.0   | 49.0   | 47.5  | 44.7  | 41.9  | 39.5  | 30.3  | 19.4  | 12.3 | 8.0    |
| 7.5°  | 114.9  | 115.2  | 110.2  | 104.5 | 93.2  | 87.3  | 76.4  | 46.6  | 22.0  | 11.1 | 5.2    |
| 10°   | 238.4  | 233.2  | 220.2  | 203.6 | 186.1 | 163.4 | 140.5 | 71.7  | 23.9  | 9.5  | 3.3    |
| 12.5° | 398.5  | 393.5  | 376.7  | 353.1 | 318.8 | 274.3 | 230.8 | 100.7 | 24.1  | 7.6  | 1.9    |
| 15°   | 596.4  | 582.5  | 562.4  | 523.1 | 472.5 | 403.7 | 331.8 | 133.9 | 23.2  | 5.9  | 0.5    |
| 17.5° | 749.9  | 737.1  | 711.6  | 665.7 | 602.8 | 526.4 | 438.2 | 165.3 | 20.6  | 3.8  | 0.0    |
| 20°   | 847.8  | 834.3  | 810.4  | 770.0 | 703.1 | 613.5 | 512.5 | 185.2 | 17.0  | 2.4  | 0.0    |
| 21°   | 875.7  | 862.7  | 839.3  | 799.1 | 732.4 | 643.0 | 530.7 | 189.4 | 15.4  | 1.9  | 0.0    |
| 22°   | 900.3  | 890.1  | 868.4  | 824.6 | 756.8 | 664.8 | 549.1 | 189.9 | 14.2  | 1.4  | 0.0    |
| 23°   | 917.6  | 910.2  | 888.5  | 848.3 | 780.6 | 682.5 | 559.1 | 187.1 | 12.8  | 0.9  | 0.0    |
| 24°   | 934.1  | 925.1  | 906.5  | 869.1 | 799.6 | 697.4 | 568.0 | 181.9 | 11.4  | 0.7  | 0.0    |
| 25°   | 943.4  | 932.9  | 918.5  | 883.5 | 815.2 | 706.9 | 573.5 | 175.2 | 9.9   | 0.5  | 0.0    |
| 26°   | 949.7  | 941.7  | 925.9  | 892.0 | 821.8 | 713.0 | 574.2 | 165.5 | 9.0   | 0.2  | 0.0    |
| 27°   | 959.4  | 951.4  | 936.0  | 899.6 | 824.6 | 712.1 | 569.9 | 154.4 | 7.8   | 0.0  | 0.0    |
| 28°   | 974.1  | 963.5  | 948.1  | 907.6 | 825.8 | 708.0 | 560.5 | 142.4 | 6.6   | 0.0  | 0.0    |
| 29°   | 990.9  | 980.0  | 963.2  | 918.3 | 826.1 | 700.0 | 545.6 | 129.1 | 5.9   | 0.0  | 0.0    |
| 30°   | 1008.9 | 999.4  | 982.4  | 928.7 | 828.7 | 689.6 | 528.3 | 114.9 | 4.7   | 0.0  | 0.0    |
| 31°   | 1023.0 | 1014.5 | 996.3  | 938.1 | 830.8 | 680.6 | 507.0 | 100.7 | 4.0   | 0.0  | 0.0    |
| 32°   | 1035.3 | 1027.8 | 1005.3 | 940.3 | 826.5 | 667.8 | 484.3 | 87.0  | 3.3   | 0.0  | 0.0    |
| 33°   | 1043.9 | 1034.4 | 1008.1 | 934.8 | 814.2 | 646.8 | 459.0 | 74.0  | 2.6   | 0.0  | 0.0    |
| 34°   | 1046.9 | 1035.6 | 1003.9 | 920.6 | 789.4 | 614.9 | 426.2 | 60.5  | 2.1   | 0.0  | 0.0    |
| 35°   | 1043.6 | 1029.7 | 988.5  | 896.3 | 755.8 | 576.8 | 386.7 | 46.8  | 1.7   | 0.0  | 0.0    |
| 36°   | 1033.0 | 1015.2 | 966.5  | 861.5 | 707.8 | 531.9 | 347.2 | 36.4  | 1.2   | 0.0  | 0.0    |
| 37°   | 1010.0 | 990.4  | 928.9  | 815.6 | 660.3 | 480.3 | 302.2 | 28.4  | 0.7   | 0.0  | 0.0    |
| 38°   | 981.9  | 953.5  | 878.8  | 757.7 | 598.8 | 422.4 | 257.8 | 23.4  | 0.5   | 0.0  | 0.0    |
| 39°   | 933.9  | 902.7  | 819.2  | 691.0 | 538.5 | 367.3 | 214.5 | 20.3  | 0.2   | 0.0  | 0.0    |
| 40°   | 876.0  | 838.8  | 751.1  | 619.6 | 467.3 | 309.6 | 179.0 | 17.0  | 0.2   | 0.0  | 0.0    |
| 42.5° | 660.7  | 629.3  | 534.9  | 421.4 | 285.7 | 182.6 | 99.3  | 11.1  | 0.0   | 0.0  | 0.0    |
| 45°   | 412.9  | 380.0  | 316.2  | 231.0 | 154.7 | 94.6  | 47.8  | 6.4   | 0.0   | 0.0  | 0.0    |
| 47.5° | 168.6  | 154.7  | 127.2  | 97.9  | 70.0  | 44.5  | 19.9  | 2.8   | 0.0   | 0.0  | 0.0    |
| 50°   | 57.9   | 51.6   | 43.3   | 31.7  | 22.5  | 15.4  | 10.4  | 0.7   | 0.0   | 0.0  | 0.0    |
| 52.5° | 16.8   | 17.0   | 14.9   | 12.8  | 9.9   | 7.1   | 5.2   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 3.1    | 2.6    | 3.1    | 2.8   | 3.1   | 2.6   | 1.9   | 0.0   | 0.0   | 0.2  | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.2   | 0.2  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5  | 0.2    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.5  | 0.2    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.5  | 0.2    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.7  | 0.2    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.7  | 0.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.7  | 0.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.5   | 0.7  | 0.2    |



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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 | 0.2 | 0.5   | 0.7 | 0.2    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5   | 0.7 | 0.2    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5   | 0.7 | 0.2    |
| 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°    | 13.5 | 13.5   | 13.5 |
| 2.5°  | 8.8  | 7.8    | 7.3  |
| 5°    | 5.0  | 3.8    | 3.5  |
| 7.5°  | 2.6  | 1.7    | 1.4  |
| 10°   | 0.9  | 0.2    | 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)