

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: P1318497

Luminaire Tested: LDSQA3D17R309830DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R309830DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

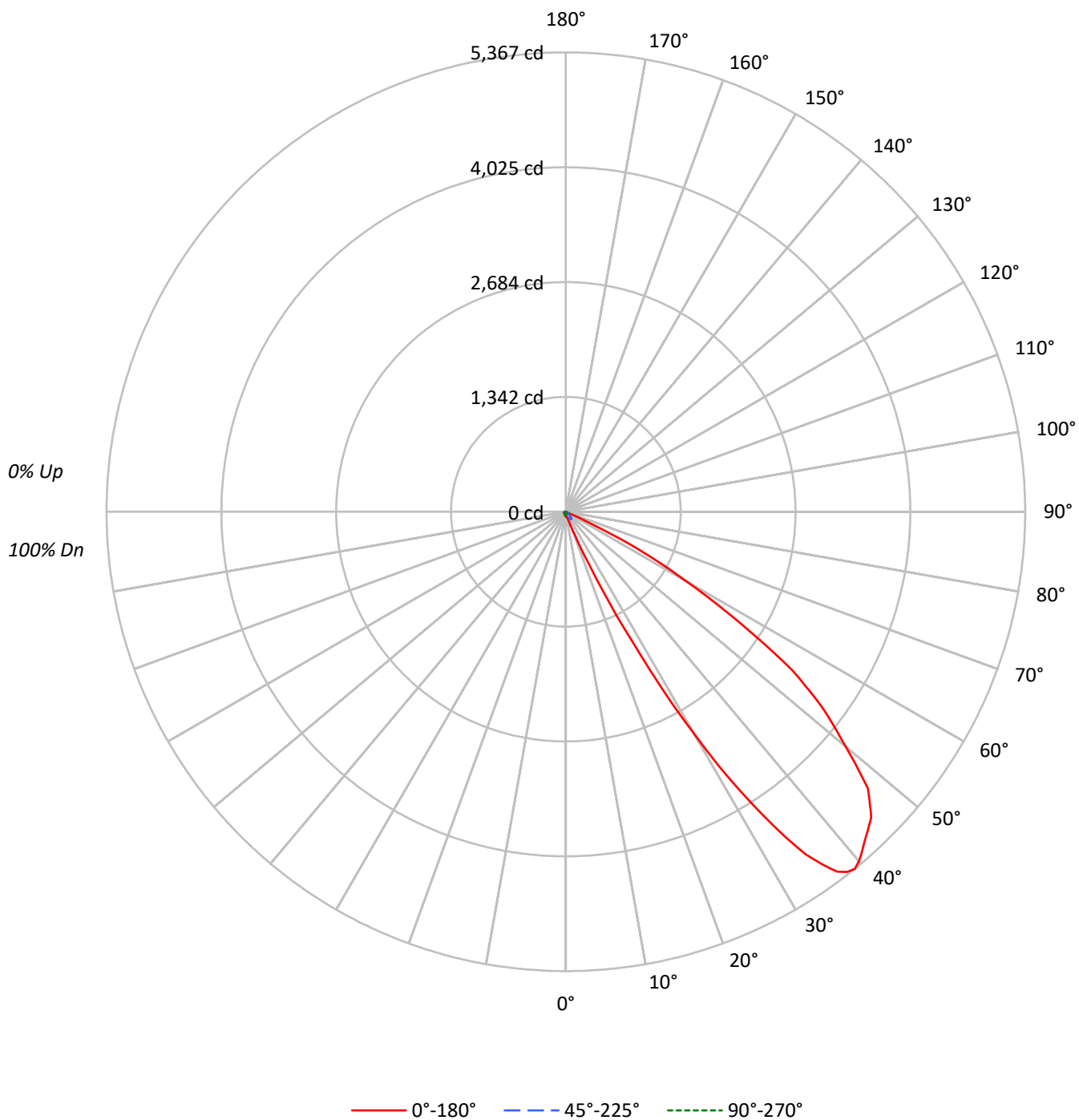
Lumens per Lamp: N/A  
Luminaire Lumens: 1395.1 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 9317    | 9317  | 9317 | 9317 | 9317  |
| 5°  | 9958    | 9750  | 9145 | 8333 | 8125  |
| 10° | 10895   | 9653  | 8009 | 7188 | 6995  |
| 15° | 15922   | 9646  | 6704 | 6080 | 6294  |
| 20° | 40064   | 10557 | 5168 | 5168 | 5810  |
| 25° | 185998  | 13169 | 4029 | 4694 | 5359  |
| 30° | 592162  | 18236 | 3043 | 4435 | 5369  |
| 35° | 1027509 | 22244 | 2481 | 4205 | 5445  |
| 40° | 1198339 | 22190 | 1844 | 4227 | 5553  |
| 45° | 1228953 | 15734 | 1997 | 4579 | 6016  |
| 50° | 1142886 | 8815  | 1581 | 4716 | 6939  |
| 55° | 971344  | 4594  | 1772 | 5285 | 7777  |
| 60° | 560998  | 1206  | 2032 | 5683 | 8508  |
| 65° | 114430  | 0     | 2404 | 6724 | 9577  |
| 70° | 1762    | 604   | 2971 | 7704 | 11229 |
| 75° | 1597    | 799   | 3127 | 7852 | 13308 |
| 80° | 1190    | 1190  | 4661 | 9323 | 15174 |
| 85° | 0       | 2371  | 9287 | 9287 | 18575 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1228953 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.9    | 0.4       |
| 10°-20°   | 14.1   | 1.0       |
| 20°-30°   | 80.5   | 5.8       |
| 30°-40°   | 375.8  | 26.9      |
| 40°-50°   | 531.4  | 38.1      |
| 50°-60°   | 326.9  | 23.4      |
| 60°-70°   | 49.8   | 3.6       |
| 70°-80°   | 7.9    | 0.6       |
| 80°-90°   | 3.9    | 0.3       |
| 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°    | 99.4   | 7.1       |
| 0°-40°    | 475.2  | 34.1      |
| 0°-60°    | 1333.4 | 95.6      |
| 0°-90°    | 1395.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1395.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 54   | 54  | 54  | 54   | 54   |      |
| 5°  | 58   | 56  | 53  | 48   | 47   | 6    |
| 15° | 89   | 54  | 38  | 34   | 35   | 32   |
| 25° | 979  | 69  | 21  | 25   | 28   | 602  |
| 35° | 4887 | 106 | 12  | 20   | 26   | 2933 |
| 45° | 5046 | 65  | 8   | 19   | 25   | 3825 |
| 55° | 3235 | 15  | 6   | 18   | 26   | 2753 |
| 65° | 281  | 0   | 6   | 16   | 24   | 508  |
| 75° | 2    | 1   | 5   | 12   | 20   | 3    |
| 85° | 0    | 1   | 5   | 5    | 9    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0°    | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1  | 54.1  | 54.1 | 54.1   | 54.1 |
| 2.5°  | 55.2   | 55.2   | 56.4   | 56.4   | 55.2   | 56.4   | 56.4  | 56.4  | 54.1 | 52.9   | 50.5 |
| 5°    | 57.6   | 57.6   | 57.6   | 58.8   | 57.6   | 57.6   | 56.4  | 55.2  | 52.9 | 49.4   | 48.2 |
| 7.5°  | 59.9   | 59.9   | 58.8   | 59.9   | 58.8   | 58.8   | 56.4  | 54.1  | 50.5 | 47.0   | 44.7 |
| 10°   | 62.3   | 62.3   | 61.1   | 61.1   | 59.9   | 59.9   | 55.2  | 51.7  | 45.8 | 42.3   | 41.1 |
| 12.5° | 69.3   | 69.3   | 68.2   | 67.0   | 64.6   | 63.5   | 54.1  | 48.2  | 41.1 | 37.6   | 36.4 |
| 15°   | 89.3   | 88.1   | 85.8   | 82.3   | 76.4   | 75.2   | 54.1  | 44.7  | 37.6 | 34.1   | 34.1 |
| 17.5° | 122.2  | 121.0  | 117.5  | 108.1  | 97.5   | 94.0   | 54.1  | 40.0  | 32.9 | 30.6   | 30.6 |
| 20°   | 218.6  | 209.2  | 191.5  | 168.0  | 143.4  | 130.4  | 57.6  | 35.3  | 28.2 | 27.0   | 28.2 |
| 21°   | 285.5  | 276.1  | 253.8  | 215.0  | 171.6  | 157.5  | 59.9  | 34.1  | 27.0 | 25.9   | 28.2 |
| 22°   | 389.0  | 378.4  | 332.6  | 279.7  | 217.4  | 192.7  | 61.1  | 31.7  | 24.7 | 24.7   | 27.0 |
| 23°   | 542.9  | 525.3  | 447.7  | 363.1  | 271.4  | 236.2  | 63.5  | 30.6  | 23.5 | 24.7   | 25.9 |
| 24°   | 710.9  | 695.7  | 607.5  | 480.6  | 346.7  | 296.1  | 65.8  | 29.4  | 22.3 | 22.3   | 24.7 |
| 25°   | 978.8  | 961.2  | 804.9  | 606.3  | 439.5  | 356.1  | 69.3  | 27.0  | 21.2 | 21.2   | 24.7 |
| 26°   | 1325.5 | 1244.4 | 1036.4 | 781.4  | 541.7  | 446.5  | 72.9  | 25.9  | 20.0 | 21.2   | 23.5 |
| 27°   | 1654.5 | 1587.5 | 1353.7 | 1002.4 | 669.8  | 548.8  | 77.6  | 24.7  | 18.8 | 20.0   | 23.5 |
| 28°   | 2087.0 | 1993.0 | 1698.0 | 1267.9 | 843.7  | 663.9  | 82.3  | 23.5  | 17.6 | 20.0   | 22.3 |
| 29°   | 2571.1 | 2439.5 | 2083.4 | 1566.4 | 1040.0 | 793.2  | 87.0  | 22.3  | 16.5 | 18.8   | 22.3 |
| 30°   | 2977.7 | 2854.3 | 2498.2 | 1920.1 | 1265.6 | 963.6  | 91.7  | 21.2  | 15.3 | 18.8   | 22.3 |
| 31°   | 3454.8 | 3267.9 | 2836.7 | 2219.7 | 1459.5 | 1134.0 | 96.4  | 18.8  | 14.1 | 17.6   | 21.2 |
| 32°   | 3841.4 | 3710.9 | 3252.6 | 2558.2 | 1714.5 | 1322.0 | 99.9  | 17.6  | 14.1 | 17.6   | 21.2 |
| 33°   | 4215.0 | 4040.0 | 3596.9 | 2882.5 | 1944.8 | 1514.7 | 103.4 | 16.5  | 12.9 | 16.5   | 21.2 |
| 34°   | 4572.3 | 4411.3 | 3922.4 | 3144.5 | 2162.2 | 1698.0 | 105.8 | 14.1  | 12.9 | 16.5   | 20.0 |
| 35°   | 4887.2 | 4700.4 | 4209.2 | 3400.7 | 2385.4 | 1864.9 | 105.8 | 12.9  | 11.8 | 15.3   | 20.0 |
| 36°   | 5091.7 | 4957.7 | 4458.3 | 3653.4 | 2587.5 | 2023.5 | 105.8 | 11.8  | 10.6 | 15.3   | 18.8 |
| 37°   | 5266.7 | 5110.5 | 4658.1 | 3847.2 | 2736.8 | 2150.4 | 105.8 | 10.6  | 10.6 | 15.3   | 18.8 |
| 38°   | 5338.4 | 5204.5 | 4795.5 | 4018.8 | 2876.6 | 2279.7 | 104.6 | 9.4   | 9.4  | 14.1   | 18.8 |
| 39°   | 5366.6 | 5246.8 | 4898.9 | 4142.2 | 2980.0 | 2366.6 | 102.2 | 8.2   | 9.4  | 14.1   | 18.8 |
| 40°   | 5330.2 | 5239.7 | 4951.8 | 4222.1 | 3062.3 | 2430.1 | 98.7  | 7.1   | 8.2  | 14.1   | 18.8 |
| 42.5° | 5179.8 | 5119.9 | 4940.1 | 4302.0 | 3132.8 | 2477.1 | 85.8  | 4.7   | 8.2  | 12.9   | 18.8 |
| 45°   | 5045.8 | 4980.0 | 4821.4 | 4218.6 | 3041.1 | 2384.3 | 64.6  | 2.4   | 8.2  | 12.9   | 18.8 |
| 47.5° | 4786.1 | 4745.0 | 4620.5 | 4005.9 | 2840.2 | 2175.1 | 45.8  | 1.2   | 7.1  | 11.8   | 17.6 |
| 50°   | 4265.6 | 4226.8 | 4062.3 | 3478.3 | 2443.0 | 1839.0 | 32.9  | 1.2   | 5.9  | 11.8   | 17.6 |
| 52.5° | 3799.1 | 3757.9 | 3521.7 | 2891.9 | 1876.6 | 1347.8 | 21.2  | 1.2   | 5.9  | 11.8   | 17.6 |
| 55°   | 3235.0 | 3163.3 | 2853.1 | 2195.1 | 1330.2 | 903.6  | 15.3  | 1.2   | 5.9  | 10.6   | 17.6 |
| 57.5° | 2394.8 | 2290.2 | 2012.9 | 1497.1 | 766.2  | 490.0  | 8.2   | 1.2   | 5.9  | 10.6   | 17.6 |
| 60°   | 1628.7 | 1566.4 | 1259.7 | 789.7  | 326.7  | 206.8  | 3.5   | 1.2   | 5.9  | 10.6   | 16.5 |
| 62.5° | 987.1  | 908.3  | 633.4  | 336.1  | 141.0  | 94.0   | 0.0   | 2.4   | 5.9  | 10.6   | 16.5 |
| 65°   | 280.8  | 249.1  | 165.7  | 76.4   | 40.0   | 30.6   | 0.0   | 2.4   | 5.9  | 10.6   | 16.5 |
| 67.5° | 9.4    | 9.4    | 9.4    | 8.2    | 5.9    | 5.9    | 1.2   | 2.4   | 5.9  | 10.6   | 15.3 |
| 70°   | 3.5    | 3.5    | 3.5    | 2.4    | 2.4    | 1.2    | 1.2   | 2.4   | 5.9  | 9.4    | 15.3 |
| 72.5° | 2.4    | 2.4    | 2.4    | 2.4    | 1.2    | 1.2    | 1.2   | 2.4   | 4.7  | 8.2    | 14.1 |
| 75°   | 2.4    | 2.4    | 2.4    | 1.2    | 1.2    | 1.2    | 1.2   | 3.5   | 4.7  | 8.2    | 11.8 |
| 77.5° | 2.4    | 2.4    | 2.4    | 1.2    | 1.2    | 1.2    | 1.2   | 3.5   | 4.7  | 7.1    | 11.8 |
| 80°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2   | 3.5   | 4.7  | 7.1    | 9.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 1.2 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0   | 1.2 | 3.5   | 4.7 | 4.7    | 7.1  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.2 | 3.5   | 4.7 | 3.5    | 4.7  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.2 | 3.5   | 3.5 | 3.5    | 2.4  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 54.1   | 54.1 |
| 2.5°  | 50.5   | 50.5 |
| 5°    | 47.0   | 47.0 |
| 7.5°  | 43.5   | 43.5 |
| 10°   | 40.0   | 40.0 |
| 12.5° | 37.6   | 37.6 |
| 15°   | 34.1   | 35.3 |
| 17.5° | 31.7   | 32.9 |
| 20°   | 30.6   | 31.7 |
| 21°   | 30.6   | 31.7 |
| 22°   | 29.4   | 30.6 |
| 23°   | 29.4   | 30.6 |
| 24°   | 28.2   | 29.4 |
| 25°   | 27.0   | 28.2 |
| 26°   | 27.0   | 28.2 |
| 27°   | 27.0   | 28.2 |
| 28°   | 25.9   | 28.2 |
| 29°   | 25.9   | 27.0 |
| 30°   | 25.9   | 27.0 |
| 31°   | 24.7   | 27.0 |
| 32°   | 24.7   | 27.0 |
| 33°   | 24.7   | 25.9 |
| 34°   | 23.5   | 25.9 |
| 35°   | 23.5   | 25.9 |
| 36°   | 23.5   | 25.9 |
| 37°   | 23.5   | 24.7 |
| 38°   | 23.5   | 25.9 |
| 39°   | 23.5   | 24.7 |
| 40°   | 23.5   | 24.7 |
| 42.5° | 23.5   | 24.7 |
| 45°   | 23.5   | 24.7 |
| 47.5° | 23.5   | 25.9 |
| 50°   | 23.5   | 25.9 |
| 52.5° | 23.5   | 25.9 |
| 55°   | 23.5   | 25.9 |
| 57.5° | 23.5   | 24.7 |
| 60°   | 23.5   | 24.7 |
| 62.5° | 22.3   | 24.7 |
| 65°   | 22.3   | 23.5 |
| 67.5° | 22.3   | 23.5 |
| 70°   | 21.2   | 22.3 |
| 72.5° | 20.0   | 21.2 |
| 75°   | 17.6   | 20.0 |
| 77.5° | 16.5   | 17.6 |
| 80°   | 14.1   | 15.3 |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 11.8   | 11.8 |
| 85°   | 8.2    | 9.4  |
| 87.5° | 4.7    | 4.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)