

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: P1323900

Luminaire Tested: LDSQA3D13R309030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1323900  
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: LDSQA3D13R309030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

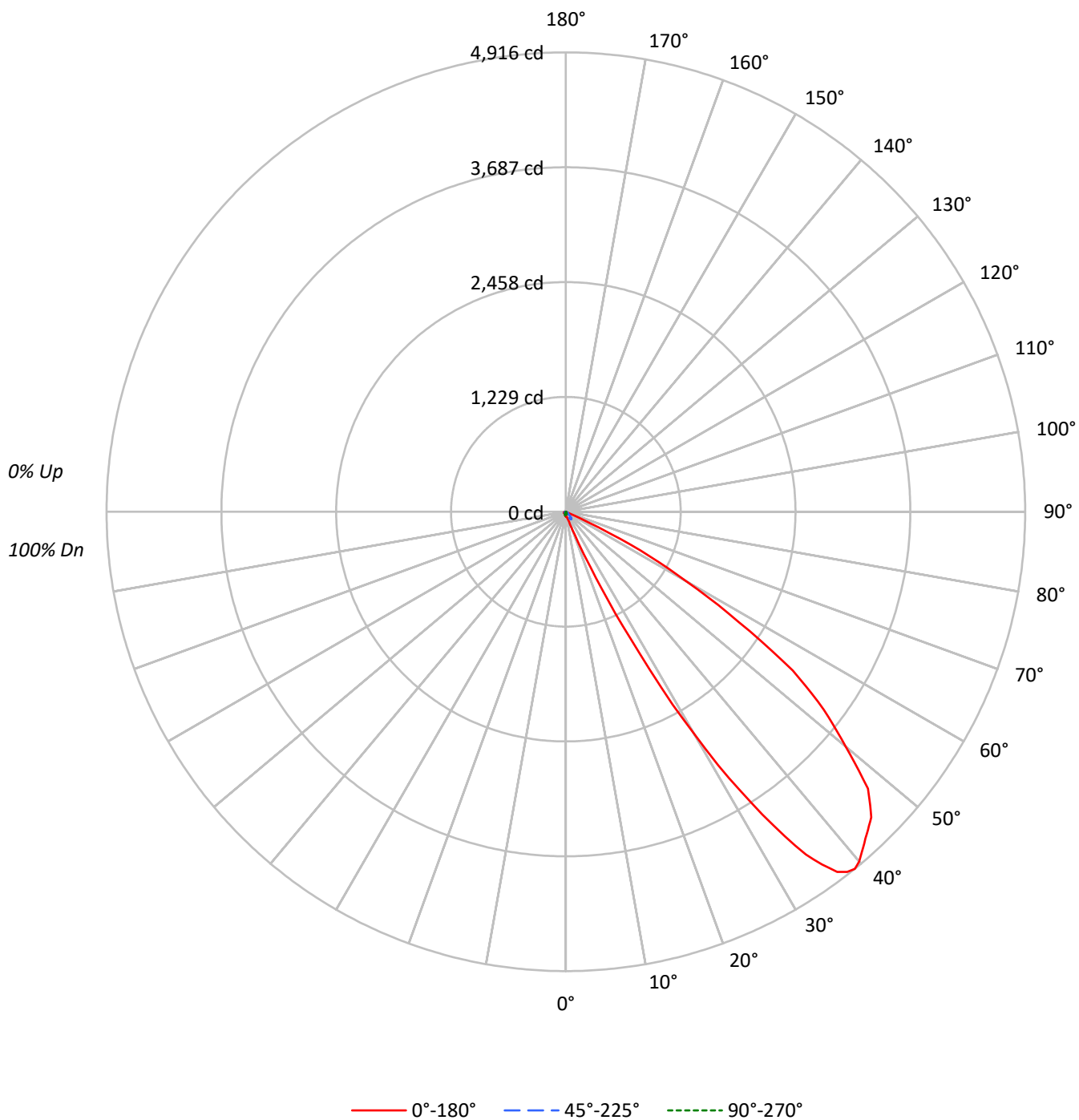
Lumens per Lamp: N/A  
Luminaire Lumens: 1278.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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



TEST NUMBER: P1323900

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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 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 22  | 22  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 19  | 19  | 17  |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 8525    | 8525  | 8525 | 8525 | 8525  |
| 5°  | 9128    | 8938  | 8367 | 7624 | 7451  |
| 10° | 9986    | 8849  | 7345 | 6593 | 6401  |
| 15° | 14585   | 8826  | 6133 | 5563 | 5759  |
| 20° | 36692   | 9677  | 4729 | 4729 | 5333  |
| 25° | 170416  | 12067 | 3687 | 4295 | 4903  |
| 30° | 542485  | 16705 | 2784 | 4077 | 4932  |
| 35° | 941330  | 20373 | 2271 | 3847 | 4983  |
| 40° | 1097844 | 20324 | 1686 | 3867 | 5081  |
| 45° | 1125879 | 14419 | 1827 | 4189 | 5504  |
| 50° | 1047020 | 8065  | 1447 | 4314 | 6350  |
| 55° | 889884  | 4204  | 1621 | 4834 | 7116  |
| 60° | 513947  | 1102  | 1860 | 5201 | 7784  |
| 65° | 104853  | 0     | 2201 | 6153 | 8762  |
| 70° | 1611    | 554   | 2719 | 7050 | 10323 |
| 75° | 1464    | 732   | 2861 | 7187 | 12177 |
| 80° | 1091    | 1091  | 4265 | 8529 | 13885 |
| 85° | 0       | 2174  | 8497 | 8497 | 16994 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1125879 cd/sqm

TEST NUMBER: P1323900

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.5    | 0.4       |
| 10°-20°   | 12.9   | 1.0       |
| 20°-30°   | 73.7   | 5.8       |
| 30°-40°   | 344.2  | 26.9      |
| 40°-50°   | 486.8  | 38.1      |
| 50°-60°   | 299.5  | 23.4      |
| 60°-70°   | 45.6   | 3.6       |
| 70°-80°   | 7.2    | 0.6       |
| 80°-90°   | 3.6    | 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°    | 91.1   | 7.1       |
| 0°-40°    | 435.3  | 34.1      |
| 0°-60°    | 1221.5 | 95.6      |
| 0°-90°    | 1278.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1278.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 50   | 50  | 50  | 50   | 50   |      |
| 5°  | 53   | 52  | 48  | 44   | 43   | 5    |
| 15° | 82   | 50  | 34  | 31   | 32   | 29   |
| 25° | 897  | 64  | 19  | 23   | 26   | 552  |
| 35° | 4477 | 97  | 11  | 18   | 24   | 2687 |
| 45° | 4623 | 59  | 8   | 17   | 23   | 3505 |
| 55° | 2964 | 14  | 5   | 16   | 24   | 2522 |
| 65° | 257  | 0   | 5   | 15   | 22   | 466  |
| 75° | 2    | 1   | 4   | 11   | 18   | 2    |
| 85° | 0    | 1   | 4   | 4    | 9    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1323900

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 49.5   | 49.5   | 49.5   | 49.5   | 49.5   | 49.5   | 49.5 | 49.5  | 49.5 | 49.5   | 49.5 |
| 2.5°  | 50.6   | 50.6   | 51.7   | 51.7   | 50.6   | 51.7   | 51.7 | 51.7  | 49.5 | 48.4   | 46.3 |
| 5°    | 52.8   | 52.8   | 52.8   | 53.8   | 52.8   | 52.8   | 51.7 | 50.6  | 48.4 | 45.2   | 44.1 |
| 7.5°  | 54.9   | 54.9   | 53.8   | 54.9   | 53.8   | 53.8   | 51.7 | 49.5  | 46.3 | 43.1   | 40.9 |
| 10°   | 57.1   | 57.1   | 56.0   | 56.0   | 54.9   | 54.9   | 50.6 | 47.4  | 42.0 | 38.8   | 37.7 |
| 12.5° | 63.5   | 63.5   | 62.4   | 61.4   | 59.2   | 58.1   | 49.5 | 44.1  | 37.7 | 34.4   | 33.4 |
| 15°   | 81.8   | 80.7   | 78.6   | 75.4   | 70.0   | 68.9   | 49.5 | 40.9  | 34.4 | 31.2   | 31.2 |
| 17.5° | 112.0  | 110.9  | 107.7  | 99.0   | 89.4   | 86.1   | 49.5 | 36.6  | 30.1 | 28.0   | 28.0 |
| 20°   | 200.2  | 191.6  | 175.5  | 153.9  | 131.3  | 119.5  | 52.8 | 32.3  | 25.8 | 24.8   | 25.8 |
| 21°   | 261.6  | 253.0  | 232.5  | 197.0  | 157.2  | 144.3  | 54.9 | 31.2  | 24.8 | 23.7   | 25.8 |
| 22°   | 356.3  | 346.6  | 304.7  | 256.2  | 199.2  | 176.6  | 56.0 | 29.1  | 22.6 | 22.6   | 24.8 |
| 23°   | 497.4  | 481.2  | 410.2  | 332.6  | 248.7  | 216.4  | 58.1 | 28.0  | 21.5 | 22.6   | 23.7 |
| 24°   | 651.3  | 637.3  | 556.6  | 440.3  | 317.6  | 271.3  | 60.3 | 26.9  | 20.5 | 20.5   | 22.6 |
| 25°   | 896.8  | 880.6  | 737.4  | 555.5  | 402.6  | 326.2  | 63.5 | 24.8  | 19.4 | 19.4   | 22.6 |
| 26°   | 1214.3 | 1140.0 | 949.5  | 715.9  | 496.3  | 409.1  | 66.7 | 23.7  | 18.3 | 19.4   | 21.5 |
| 27°   | 1515.8 | 1454.4 | 1240.2 | 918.3  | 613.6  | 502.7  | 71.1 | 22.6  | 17.2 | 18.3   | 21.5 |
| 28°   | 1911.9 | 1825.8 | 1555.6 | 1161.6 | 773.0  | 608.2  | 75.4 | 21.5  | 16.1 | 18.3   | 20.5 |
| 29°   | 2355.5 | 2234.9 | 1908.7 | 1435.0 | 952.7  | 726.7  | 79.7 | 20.5  | 15.1 | 17.2   | 20.5 |
| 30°   | 2727.9 | 2614.9 | 2288.7 | 1759.1 | 1159.4 | 882.8  | 84.0 | 19.4  | 14.0 | 17.2   | 20.5 |
| 31°   | 3165.0 | 2993.8 | 2598.8 | 2033.6 | 1337.1 | 1038.9 | 88.3 | 17.2  | 12.9 | 16.1   | 19.4 |
| 32°   | 3519.2 | 3399.7 | 2979.8 | 2343.6 | 1570.7 | 1211.1 | 91.5 | 16.1  | 12.9 | 16.1   | 19.4 |
| 33°   | 3861.5 | 3701.1 | 3295.3 | 2640.7 | 1781.7 | 1387.7 | 94.7 | 15.1  | 11.8 | 15.1   | 19.4 |
| 34°   | 4188.8 | 4041.3 | 3593.5 | 2880.8 | 1980.8 | 1555.6 | 96.9 | 12.9  | 11.8 | 15.1   | 18.3 |
| 35°   | 4477.3 | 4306.1 | 3856.1 | 3115.5 | 2185.4 | 1708.5 | 96.9 | 11.8  | 10.8 | 14.0   | 18.3 |
| 36°   | 4664.6 | 4541.9 | 4084.4 | 3346.9 | 2370.5 | 1853.8 | 96.9 | 10.8  | 9.7  | 14.0   | 17.2 |
| 37°   | 4825.0 | 4681.8 | 4267.4 | 3524.6 | 2507.2 | 1970.1 | 96.9 | 9.7   | 9.7  | 14.0   | 17.2 |
| 38°   | 4890.7 | 4768.0 | 4393.3 | 3681.7 | 2635.4 | 2088.5 | 95.8 | 8.6   | 8.6  | 12.9   | 17.2 |
| 39°   | 4916.5 | 4806.7 | 4488.1 | 3794.8 | 2730.1 | 2168.1 | 93.7 | 7.5   | 8.6  | 12.9   | 17.2 |
| 40°   | 4883.2 | 4800.3 | 4536.5 | 3868.0 | 2805.4 | 2226.3 | 90.4 | 6.5   | 7.5  | 12.9   | 17.2 |
| 42.5° | 4745.4 | 4690.5 | 4525.7 | 3941.2 | 2870.0 | 2269.3 | 78.6 | 4.3   | 7.5  | 11.8   | 17.2 |
| 45°   | 4622.6 | 4562.3 | 4417.0 | 3864.8 | 2786.1 | 2184.3 | 59.2 | 2.2   | 7.5  | 11.8   | 17.2 |
| 47.5° | 4384.7 | 4347.0 | 4232.9 | 3669.9 | 2602.0 | 1992.7 | 42.0 | 1.1   | 6.5  | 10.8   | 16.1 |
| 50°   | 3907.8 | 3872.3 | 3721.6 | 3186.5 | 2238.1 | 1684.8 | 30.1 | 1.1   | 5.4  | 10.8   | 16.1 |
| 52.5° | 3480.4 | 3442.8 | 3226.4 | 2649.3 | 1719.2 | 1234.8 | 19.4 | 1.1   | 5.4  | 10.8   | 16.1 |
| 55°   | 2963.7 | 2898.0 | 2613.8 | 2011.0 | 1218.6 | 827.9  | 14.0 | 1.1   | 5.4  | 9.7    | 16.1 |
| 57.5° | 2194.0 | 2098.2 | 1844.1 | 1371.5 | 701.9  | 448.9  | 7.5  | 1.1   | 5.4  | 9.7    | 16.1 |
| 60°   | 1492.1 | 1435.0 | 1154.0 | 723.4  | 299.3  | 189.5  | 3.2  | 1.1   | 5.4  | 9.7    | 15.1 |
| 62.5° | 904.3  | 832.2  | 580.3  | 307.9  | 129.2  | 86.1   | 0.0  | 2.2   | 5.4  | 9.7    | 15.1 |
| 65°   | 257.3  | 228.2  | 151.8  | 70.0   | 36.6   | 28.0   | 0.0  | 2.2   | 5.4  | 9.7    | 15.1 |
| 67.5° | 8.6    | 8.6    | 8.6    | 7.5    | 5.4    | 5.4    | 1.1  | 2.2   | 5.4  | 9.7    | 14.0 |
| 70°   | 3.2    | 3.2    | 3.2    | 2.2    | 2.2    | 1.1    | 1.1  | 2.2   | 5.4  | 8.6    | 14.0 |
| 72.5° | 2.2    | 2.2    | 2.2    | 2.2    | 1.1    | 1.1    | 1.1  | 2.2   | 4.3  | 7.5    | 12.9 |
| 75°   | 2.2    | 2.2    | 2.2    | 1.1    | 1.1    | 1.1    | 1.1  | 3.2   | 4.3  | 7.5    | 10.8 |
| 77.5° | 2.2    | 2.2    | 2.2    | 1.1    | 1.1    | 1.1    | 1.1  | 3.2   | 4.3  | 6.5    | 10.8 |
| 80°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1  | 3.2   | 4.3  | 6.5    | 8.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0   | 1.1 | 3.2   | 4.3 | 4.3    | 6.5  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.1 | 3.2   | 4.3 | 3.2    | 4.3  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.1 | 3.2   | 3.2 | 3.2    | 2.2  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 49.5   | 49.5 |
| 2.5°  | 46.3   | 46.3 |
| 5°    | 43.1   | 43.1 |
| 7.5°  | 39.8   | 39.8 |
| 10°   | 36.6   | 36.6 |
| 12.5° | 34.4   | 34.4 |
| 15°   | 31.2   | 32.3 |
| 17.5° | 29.1   | 30.1 |
| 20°   | 28.0   | 29.1 |
| 21°   | 28.0   | 29.1 |
| 22°   | 26.9   | 28.0 |
| 23°   | 26.9   | 28.0 |
| 24°   | 25.8   | 26.9 |
| 25°   | 24.8   | 25.8 |
| 26°   | 24.8   | 25.8 |
| 27°   | 24.8   | 25.8 |
| 28°   | 23.7   | 25.8 |
| 29°   | 23.7   | 24.8 |
| 30°   | 23.7   | 24.8 |
| 31°   | 22.6   | 24.8 |
| 32°   | 22.6   | 24.8 |
| 33°   | 22.6   | 23.7 |
| 34°   | 21.5   | 23.7 |
| 35°   | 21.5   | 23.7 |
| 36°   | 21.5   | 23.7 |
| 37°   | 21.5   | 22.6 |
| 38°   | 21.5   | 23.7 |
| 39°   | 21.5   | 22.6 |
| 40°   | 21.5   | 22.6 |
| 42.5° | 21.5   | 22.6 |
| 45°   | 21.5   | 22.6 |
| 47.5° | 21.5   | 23.7 |
| 50°   | 21.5   | 23.7 |
| 52.5° | 21.5   | 23.7 |
| 55°   | 21.5   | 23.7 |
| 57.5° | 21.5   | 22.6 |
| 60°   | 21.5   | 22.6 |
| 62.5° | 20.5   | 22.6 |
| 65°   | 20.5   | 21.5 |
| 67.5° | 20.5   | 21.5 |
| 70°   | 19.4   | 20.5 |
| 72.5° | 18.3   | 19.4 |
| 75°   | 16.1   | 18.3 |
| 77.5° | 15.1   | 16.1 |
| 80°   | 12.9   | 14.0 |





TEST NUMBER: P1323900

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 10.8   | 10.8 |
| 85°   | 7.5    | 8.6  |
| 87.5° | 4.3    | 4.3  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)