

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: P1315140

Luminaire Tested: LDSQA3D02R359735DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R359735DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

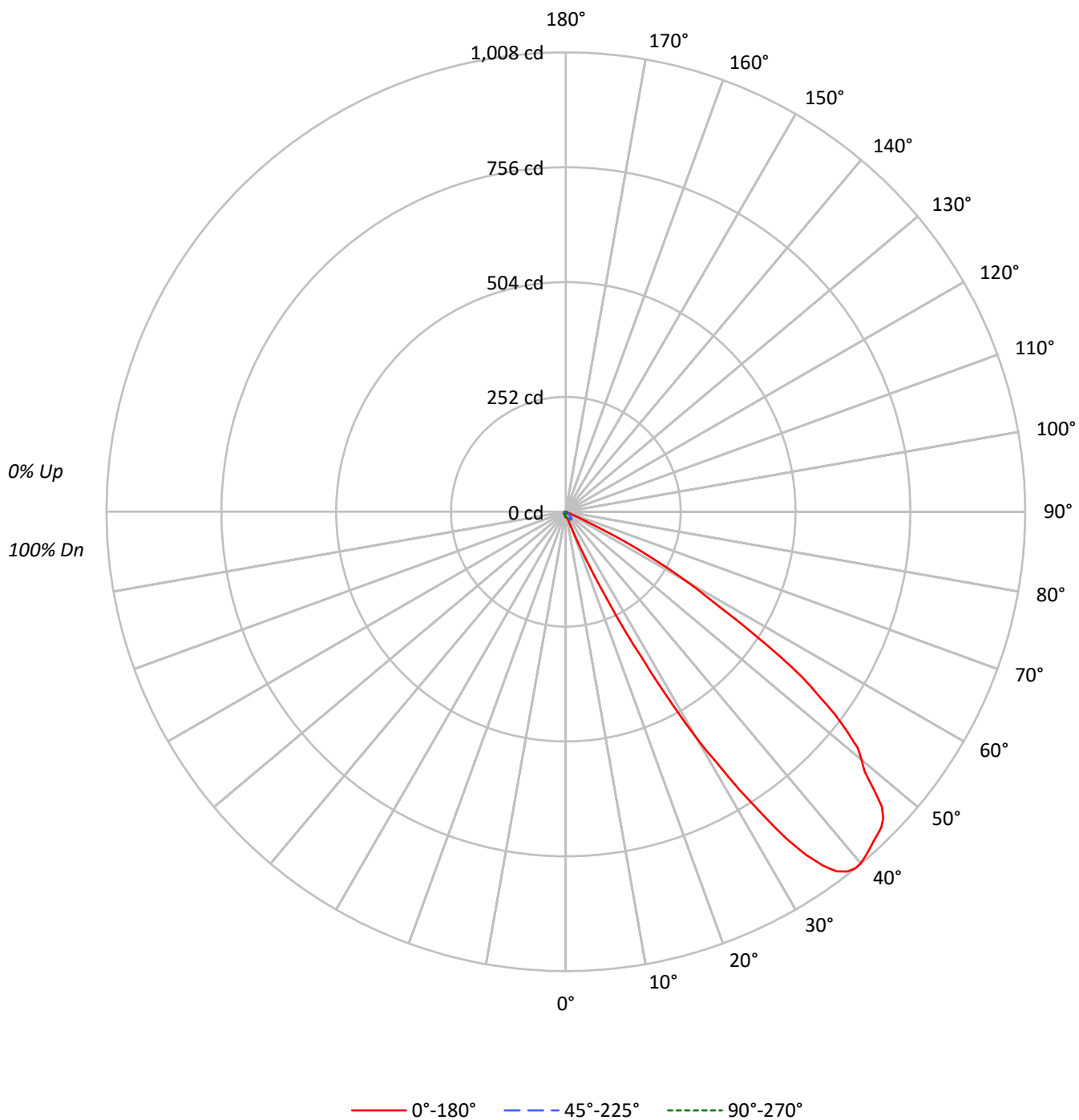
Lumens per Lamp: N/A  
Luminaire Lumens: 251.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 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  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 22  | 22  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 19  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1998   | 1998 | 1998 | 1998 | 1998 |
| 5°  | 2161   | 2109 | 1954 | 1763 | 1729 |
| 10° | 2256   | 2064 | 1749 | 1504 | 1504 |
| 15° | 3227   | 2015 | 1409 | 1302 | 1337 |
| 20° | 8101   | 2163 | 1118 | 1118 | 1246 |
| 25° | 37587  | 2755 | 855  | 1026 | 1159 |
| 30° | 114268 | 3739 | 676  | 955  | 1173 |
| 35° | 193131 | 4331 | 568  | 904  | 1135 |
| 40° | 226372 | 4272 | 450  | 922  | 1214 |
| 45° | 238396 | 3044 | 390  | 999  | 1315 |
| 50° | 226937 | 1822 | 375  | 1045 | 1447 |
| 55° | 190155 | 751  | 420  | 1171 | 1711 |
| 60° | 106468 | 172  | 482  | 1343 | 1860 |
| 65° | 18379  | 82   | 448  | 1467 | 2119 |
| 70° | 352    | 101  | 554  | 1611 | 2417 |
| 75° | 333    | 133  | 732  | 1797 | 2728 |
| 80° | 198    | 198  | 893  | 1984 | 3174 |
| 85° | 0      | 395  | 1778 | 2174 | 3557 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 240090 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.4       |
| 10°-20°   | 3.0    | 1.2       |
| 20°-30°   | 15.4   | 6.1       |
| 30°-40°   | 66.5   | 26.5      |
| 40°-50°   | 94.9   | 37.8      |
| 50°-60°   | 58.8   | 23.4      |
| 60°-70°   | 9.0    | 3.6       |
| 70°-80°   | 1.7    | 0.7       |
| 80°-90°   | 0.8    | 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°    | 19.4   | 7.7       |
| 0°-40°    | 85.9   | 34.2      |
| 0°-60°    | 239.6  | 95.4      |
| 0°-90°    | 251.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 251.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 12  | 12  | 12  | 12   | 12   |      |
| 5°  | 12  | 12  | 11  | 10   | 10   | 1    |
| 15° | 18  | 11  | 8   | 7    | 8    | 7    |
| 25° | 198 | 14  | 4   | 5    | 6    | 118  |
| 35° | 919 | 21  | 3   | 4    | 5    | 552  |
| 45° | 979 | 12  | 2   | 4    | 5    | 739  |
| 55° | 633 | 2   | 1   | 4    | 6    | 539  |
| 65° | 45  | 0   | 1   | 4    | 5    | 92   |
| 75° | 0   | 0   | 1   | 3    | 4    | 1    |
| 85° | 0   | 0   | 1   | 1    | 2    | 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°    | 11.6   | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6 | 11.6  | 11.6 | 11.6   |
| 2.5°  | 12.0   | 12.0  | 12.0  | 12.0  | 12.0  | 12.0  | 12.0  | 12.0 | 12.0  | 11.6 | 11.3   |
| 5°    | 12.5   | 12.5  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2 | 11.8  | 11.3 | 10.6   |
| 7.5°  | 12.7   | 12.7  | 12.5  | 12.5  | 12.5  | 12.5  | 12.2  | 12.0 | 11.6  | 10.6 | 10.0   |
| 10°   | 12.9   | 12.9  | 12.9  | 12.9  | 12.7  | 12.5  | 12.2  | 11.8 | 11.1  | 10.0 | 9.3    |
| 12.5° | 14.5   | 14.5  | 14.3  | 13.8  | 13.4  | 12.9  | 12.5  | 11.6 | 10.2  | 9.1  | 8.4    |
| 15°   | 18.1   | 17.9  | 17.4  | 16.8  | 15.9  | 14.7  | 13.8  | 11.3 | 9.3   | 7.9  | 7.5    |
| 17.5° | 25.4   | 24.9  | 24.2  | 22.0  | 19.9  | 17.9  | 16.1  | 11.3 | 8.4   | 7.0  | 6.6    |
| 20°   | 44.2   | 44.4  | 39.7  | 34.2  | 29.7  | 24.7  | 20.2  | 11.8 | 7.5   | 6.1  | 5.9    |
| 22.5° | 92.2   | 88.6  | 77.3  | 64.1  | 48.9  | 37.8  | 28.5  | 12.9 | 6.6   | 5.2  | 5.2    |
| 25°   | 197.8  | 184.0 | 156.6 | 118.3 | 83.4  | 59.1  | 41.5  | 14.5 | 5.9   | 4.5  | 4.8    |
| 27.5° | 361.2  | 348.7 | 293.6 | 221.1 | 146.8 | 89.3  | 56.2  | 16.5 | 5.2   | 3.9  | 4.3    |
| 30°   | 574.6  | 540.2 | 468.3 | 362.5 | 245.4 | 136.6 | 75.5  | 18.8 | 4.3   | 3.4  | 4.1    |
| 31°   | 641.2  | 625.4 | 537.9 | 419.4 | 287.5 | 162.2 | 83.6  | 19.5 | 4.1   | 3.4  | 3.9    |
| 32°   | 720.3  | 692.2 | 613.8 | 481.7 | 330.4 | 185.1 | 93.4  | 20.2 | 3.9   | 2.9  | 3.9    |
| 33°   | 791.0  | 763.8 | 668.4 | 536.5 | 373.6 | 211.2 | 103.8 | 20.4 | 3.4   | 2.9  | 3.6    |
| 34°   | 865.3  | 828.2 | 733.7 | 593.9 | 418.0 | 239.3 | 113.3 | 20.6 | 3.2   | 2.7  | 3.6    |
| 35°   | 918.6  | 881.4 | 789.9 | 639.2 | 456.3 | 264.2 | 124.2 | 20.6 | 2.9   | 2.7  | 3.4    |
| 36°   | 959.8  | 927.2 | 838.4 | 685.9 | 494.4 | 286.6 | 132.8 | 20.6 | 2.5   | 2.5  | 3.4    |
| 37°   | 988.1  | 957.1 | 871.0 | 726.0 | 523.4 | 306.6 | 140.5 | 20.6 | 2.3   | 2.5  | 3.4    |
| 38°   | 1001.9 | 976.1 | 902.5 | 755.2 | 551.5 | 322.2 | 146.6 | 20.2 | 2.0   | 2.3  | 3.2    |
| 39°   | 1007.8 | 986.8 | 921.7 | 779.9 | 572.6 | 335.8 | 151.1 | 19.7 | 1.8   | 2.3  | 3.2    |
| 40°   | 1006.9 | 988.6 | 932.6 | 796.9 | 589.6 | 345.1 | 153.6 | 19.0 | 1.6   | 2.0  | 3.2    |
| 41°   | 1001.7 | 985.9 | 938.3 | 811.4 | 599.8 | 351.4 | 154.3 | 18.4 | 1.4   | 2.0  | 2.9    |
| 42°   | 995.8  | 981.3 | 940.1 | 819.1 | 606.3 | 353.5 | 152.5 | 17.4 | 1.4   | 1.8  | 2.9    |
| 43°   | 989.7  | 976.3 | 940.1 | 821.6 | 607.9 | 352.1 | 149.5 | 15.9 | 1.1   | 1.8  | 2.9    |
| 44°   | 984.7  | 972.0 | 937.1 | 820.9 | 604.5 | 346.9 | 144.1 | 14.0 | 0.9   | 1.8  | 2.9    |
| 45°   | 978.8  | 966.4 | 933.3 | 816.6 | 597.9 | 338.1 | 137.3 | 12.5 | 0.7   | 1.6  | 2.9    |
| 46°   | 968.4  | 958.7 | 926.5 | 807.8 | 587.5 | 325.8 | 128.7 | 11.3 | 0.5   | 1.6  | 2.7    |
| 47°   | 948.2  | 939.9 | 913.3 | 794.6 | 573.7 | 311.3 | 119.9 | 10.2 | 0.5   | 1.6  | 2.7    |
| 48°   | 907.7  | 907.5 | 887.1 | 770.1 | 551.7 | 293.2 | 110.6 | 9.1  | 0.5   | 1.6  | 2.7    |
| 49°   | 868.5  | 864.4 | 839.0 | 727.1 | 520.2 | 271.4 | 100.8 | 8.2  | 0.2   | 1.6  | 2.7    |
| 50°   | 847.0  | 838.1 | 796.4 | 676.3 | 479.9 | 241.3 | 90.4  | 6.8  | 0.2   | 1.4  | 2.7    |
| 51°   | 824.5  | 811.8 | 762.7 | 630.6 | 431.9 | 212.3 | 79.1  | 5.4  | 0.2   | 1.4  | 2.5    |
| 52°   | 784.0  | 772.0 | 716.9 | 586.8 | 385.2 | 182.6 | 68.2  | 4.5  | 0.2   | 1.4  | 2.7    |
| 53°   | 740.2  | 723.0 | 663.2 | 538.8 | 344.2 | 156.3 | 57.1  | 3.9  | 0.2   | 1.4  | 2.5    |
| 54°   | 685.2  | 677.5 | 608.8 | 479.9 | 296.1 | 131.0 | 46.9  | 3.2  | 0.2   | 1.4  | 2.5    |
| 55°   | 633.3  | 622.0 | 550.6 | 419.6 | 252.6 | 107.4 | 39.2  | 2.5  | 0.2   | 1.4  | 2.5    |
| 56°   | 567.1  | 550.1 | 483.3 | 364.3 | 208.5 | 86.6  | 33.1  | 2.0  | 0.2   | 1.4  | 2.5    |
| 57°   | 488.3  | 470.2 | 417.4 | 302.9 | 163.6 | 65.9  | 27.6  | 1.6  | 0.2   | 1.4  | 2.5    |
| 58°   | 413.1  | 397.4 | 340.8 | 233.8 | 123.3 | 45.8  | 22.9  | 1.1  | 0.2   | 1.1  | 2.5    |
| 59°   | 356.9  | 339.6 | 283.5 | 179.9 | 85.6  | 33.8  | 17.2  | 0.9  | 0.2   | 1.4  | 2.5    |
| 60°   | 309.1  | 286.9 | 228.2 | 139.3 | 61.2  | 24.2  | 12.7  | 0.5  | 0.5   | 1.4  | 2.5    |
| 62.5° | 178.1  | 157.2 | 109.0 | 56.6  | 25.2  | 12.5  | 6.1   | 0.2  | 0.5   | 1.4  | 2.5    |
| 65°   | 45.1   | 40.1  | 26.1  | 12.2  | 7.0   | 4.3   | 2.3   | 0.2  | 0.5   | 1.1  | 2.3    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.6 | 1.6 | 1.6 | 1.4 | 1.1 | 0.9 | 0.5 | 0.2 | 0.5   | 1.1 | 2.3    |
| 70°   | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5   | 1.1 | 2.0    |
| 72.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 1.1 | 1.8    |
| 75°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 1.1 | 1.8    |
| 77.5° | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 | 1.6    |
| 80°   | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 | 1.4    |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 | 1.1    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.7   | 0.9 | 0.9    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7   | 0.9 | 0.7    |
| 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°    | 11.6 | 11.6   | 11.6 |
| 2.5°  | 10.9 | 10.9   | 10.9 |
| 5°    | 10.2 | 10.2   | 10.0 |
| 7.5°  | 9.5  | 9.3    | 9.3  |
| 10°   | 8.6  | 8.6    | 8.6  |
| 12.5° | 7.9  | 7.9    | 7.9  |
| 15°   | 7.3  | 7.5    | 7.5  |
| 17.5° | 6.6  | 7.0    | 7.0  |
| 20°   | 6.1  | 6.6    | 6.8  |
| 22.5° | 5.7  | 6.1    | 6.3  |
| 25°   | 5.4  | 5.9    | 6.1  |
| 27.5° | 5.0  | 5.7    | 6.1  |
| 30°   | 4.8  | 5.4    | 5.9  |
| 31°   | 4.8  | 5.4    | 5.7  |
| 32°   | 4.5  | 5.4    | 5.7  |
| 33°   | 4.5  | 5.4    | 5.7  |
| 34°   | 4.5  | 5.2    | 5.7  |
| 35°   | 4.3  | 5.2    | 5.4  |
| 36°   | 4.3  | 5.2    | 5.4  |
| 37°   | 4.3  | 5.2    | 5.7  |
| 38°   | 4.3  | 5.2    | 5.4  |
| 39°   | 4.1  | 5.2    | 5.4  |
| 40°   | 4.1  | 5.2    | 5.4  |
| 41°   | 4.1  | 5.2    | 5.4  |
| 42°   | 4.1  | 5.2    | 5.4  |
| 43°   | 4.1  | 5.2    | 5.4  |
| 44°   | 4.1  | 5.0    | 5.4  |
| 45°   | 4.1  | 5.0    | 5.4  |
| 46°   | 4.1  | 5.2    | 5.4  |
| 47°   | 4.1  | 5.2    | 5.7  |
| 48°   | 4.1  | 5.0    | 5.4  |
| 49°   | 3.9  | 5.0    | 5.4  |
| 50°   | 3.9  | 5.0    | 5.4  |
| 51°   | 3.9  | 5.2    | 5.7  |
| 52°   | 3.9  | 5.2    | 5.7  |
| 53°   | 3.9  | 5.2    | 5.7  |
| 54°   | 3.9  | 5.2    | 5.4  |
| 55°   | 3.9  | 5.2    | 5.7  |
| 56°   | 3.9  | 5.2    | 5.4  |
| 57°   | 3.9  | 5.2    | 5.4  |
| 58°   | 3.9  | 5.0    | 5.4  |
| 59°   | 3.9  | 5.0    | 5.4  |
| 60°   | 3.9  | 5.0    | 5.4  |
| 62.5° | 3.6  | 5.0    | 5.4  |
| 65°   | 3.6  | 4.8    | 5.2  |



TEST NUMBER: P1315140

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 3.4  | 4.8    | 5.0  |
| 70°   | 3.2  | 4.5    | 4.8  |
| 72.5° | 2.9  | 4.3    | 4.5  |
| 75°   | 2.7  | 3.9    | 4.1  |
| 77.5° | 2.3  | 3.4    | 3.9  |
| 80°   | 2.0  | 2.9    | 3.2  |
| 82.5° | 1.6  | 2.5    | 2.7  |
| 85°   | 1.1  | 1.8    | 1.8  |
| 87.5° | 0.5  | 0.9    | 0.9  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)