

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: IRiS

Report Number: P1338458

Luminaire Tested: P3A05R359740DE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1338458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R359740DE010 E3A451H  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

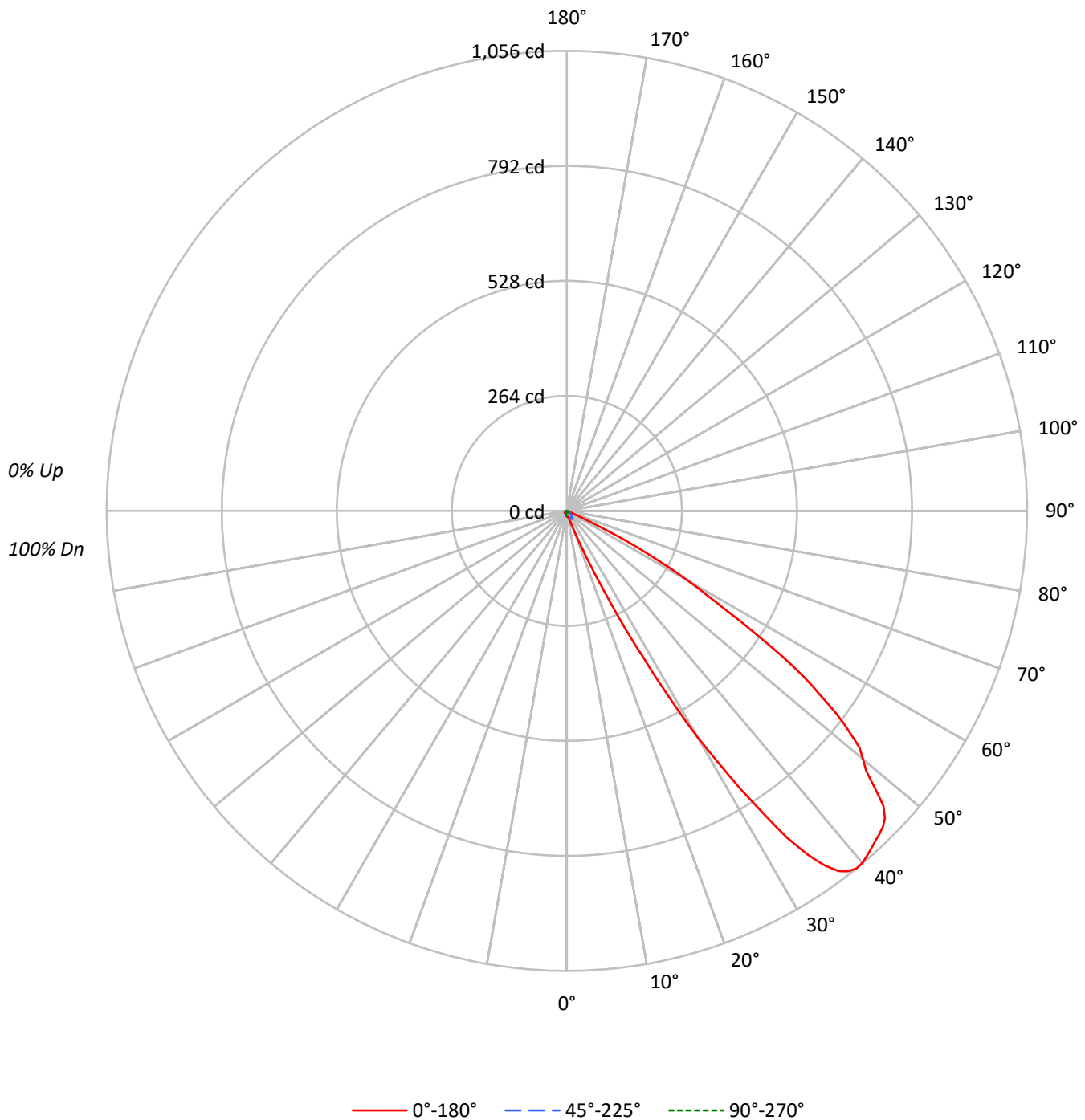
Lumens per Lamp: N/A  
Luminaire Lumens: 263.0 lumens  
Efficiency: N/A  
Efficacy: 36.5 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

TEST NUMBER: P1338458

CATALOG NUMBER: P3A05R359740DE010 E3A451H

### Luminous Intensity Polar Plot



TEST NUMBER: P1338458

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 107 | 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  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  | 49  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  |  | 50  | 43  | 37  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  |  | 44  | 37  | 31  |  | 42  | 36  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  |  | 39  | 32  | 26  |  | 38  | 31  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 22  |  | 34  | 27  | 22  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  |  | 31  | 24  | 19  |  | 30  | 24  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2653   | 2653 | 2653 | 2653 | 2653 |
| 5°  | 2884   | 2818 | 2619 | 2355 | 2289 |
| 10° | 3006   | 2739 | 2316 | 2004 | 2004 |
| 15° | 4313   | 2701 | 1884 | 1725 | 1771 |
| 20° | 10804  | 2870 | 1493 | 1493 | 1657 |
| 25° | 50156  | 3678 | 1137 | 1379 | 1548 |
| 30° | 152454 | 4988 | 912  | 1266 | 1570 |
| 35° | 257654 | 5782 | 750  | 1205 | 1526 |
| 40° | 302023 | 5696 | 601  | 1231 | 1632 |
| 45° | 318049 | 4062 | 527  | 1333 | 1768 |
| 50° | 302762 | 2422 | 478  | 1365 | 1944 |
| 55° | 253697 | 994  | 535  | 1529 | 2256 |
| 60° | 142006 | 219  | 614  | 1754 | 2500 |
| 65° | 24490  | 104  | 623  | 1972 | 2854 |
| 70° | 449    | 128  | 769  | 2116 | 3206 |
| 75° | 424    | 169  | 1017 | 2372 | 3643 |
| 80° | 253    | 253  | 1137 | 2652 | 4167 |
| 85° | 0      | 503  | 2264 | 3019 | 4780 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 320307 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.4       |
| 10°-20°   | 3.1    | 1.2       |
| 20°-30°   | 16.1   | 6.1       |
| 30°-40°   | 69.7   | 26.5      |
| 40°-50°   | 99.4   | 37.8      |
| 50°-60°   | 61.6   | 23.4      |
| 60°-70°   | 9.4    | 3.6       |
| 70°-80°   | 1.7    | 0.7       |
| 80°-90°   | 0.9    | 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°    | 20.3   | 7.7       |
| 0°-40°    | 90.0   | 34.2      |
| 0°-60°    | 251.0  | 95.4      |
| 0°-90°    | 263.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 263.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 12   | 12  | 12  | 12   | 12   |      |
| 5°  | 13   | 13  | 12  | 11   | 10   | 1    |
| 15° | 19   | 12  | 8   | 8    | 8    | 7    |
| 25° | 207  | 15  | 5   | 6    | 6    | 124  |
| 35° | 962  | 22  | 3   | 4    | 6    | 578  |
| 45° | 1026 | 13  | 2   | 4    | 6    | 775  |
| 55° | 664  | 3   | 1   | 4    | 6    | 565  |
| 65° | 47   | 0   | 1   | 4    | 6    | 97   |
| 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°    | 12.1   | 12.1   | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1 | 12.1  | 12.1 | 12.1   |
| 2.5°  | 12.6   | 12.6   | 12.6  | 12.6  | 12.6  | 12.6  | 12.6  | 12.6 | 12.6  | 12.1 | 11.9   |
| 5°    | 13.1   | 13.1   | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8 | 12.3  | 11.9 | 11.2   |
| 7.5°  | 13.3   | 13.3   | 13.1  | 13.1  | 13.1  | 13.1  | 12.8  | 12.6 | 12.1  | 11.2 | 10.4   |
| 10°   | 13.5   | 13.5   | 13.5  | 13.5  | 13.3  | 13.1  | 12.8  | 12.3 | 11.6  | 10.4 | 9.7    |
| 12.5° | 15.2   | 15.2   | 15.0  | 14.5  | 14.0  | 13.5  | 13.1  | 12.1 | 10.7  | 9.5  | 8.8    |
| 15°   | 19.0   | 18.8   | 18.3  | 17.6  | 16.6  | 15.4  | 14.5  | 11.9 | 9.7   | 8.3  | 7.8    |
| 17.5° | 26.6   | 26.1   | 25.4  | 23.0  | 20.9  | 18.8  | 16.9  | 11.9 | 8.8   | 7.4  | 6.9    |
| 20°   | 46.3   | 46.5   | 41.5  | 35.8  | 31.1  | 25.9  | 21.1  | 12.3 | 7.8   | 6.4  | 6.2    |
| 22.5° | 96.6   | 92.8   | 81.0  | 67.2  | 51.3  | 39.6  | 29.9  | 13.5 | 6.9   | 5.5  | 5.5    |
| 25°   | 207.3  | 192.8  | 164.1 | 123.9 | 87.4  | 62.0  | 43.4  | 15.2 | 6.2   | 4.7  | 5.0    |
| 27.5° | 378.4  | 365.4  | 307.7 | 231.7 | 153.8 | 93.5  | 58.9  | 17.3 | 5.5   | 4.0  | 4.5    |
| 30°   | 602.1  | 566.0  | 490.7 | 379.9 | 257.1 | 143.2 | 79.1  | 19.7 | 4.5   | 3.6  | 4.3    |
| 31°   | 671.9  | 655.3  | 563.6 | 439.5 | 301.3 | 170.0 | 87.6  | 20.4 | 4.3   | 3.6  | 4.0    |
| 32°   | 754.7  | 725.3  | 643.2 | 504.7 | 346.1 | 194.0 | 97.8  | 21.1 | 4.0   | 3.1  | 4.0    |
| 33°   | 828.8  | 800.3  | 700.4 | 562.2 | 391.5 | 221.3 | 108.7 | 21.4 | 3.6   | 3.1  | 3.8    |
| 34°   | 906.7  | 867.7  | 768.7 | 622.3 | 438.0 | 250.7 | 118.7 | 21.6 | 3.3   | 2.8  | 3.8    |
| 35°   | 962.5  | 923.5  | 827.6 | 669.7 | 478.2 | 276.8 | 130.1 | 21.6 | 3.1   | 2.8  | 3.6    |
| 36°   | 1005.7 | 971.5  | 878.4 | 718.7 | 518.0 | 300.3 | 139.1 | 21.6 | 2.6   | 2.6  | 3.6    |
| 37°   | 1035.4 | 1002.8 | 912.6 | 760.7 | 548.4 | 321.2 | 147.2 | 21.6 | 2.4   | 2.6  | 3.6    |
| 38°   | 1049.8 | 1022.8 | 945.6 | 791.3 | 577.9 | 337.6 | 153.6 | 21.1 | 2.1   | 2.4  | 3.3    |
| 39°   | 1056.0 | 1033.9 | 965.8 | 817.2 | 599.9 | 351.8 | 158.4 | 20.7 | 1.9   | 2.4  | 3.3    |
| 40°   | 1055.1 | 1035.8 | 977.2 | 835.0 | 617.8 | 361.6 | 161.0 | 19.9 | 1.7   | 2.1  | 3.3    |
| 41°   | 1049.6 | 1033.0 | 983.1 | 850.2 | 628.4 | 368.2 | 161.7 | 19.2 | 1.4   | 2.1  | 3.1    |
| 42°   | 1043.4 | 1028.2 | 985.0 | 858.3 | 635.3 | 370.4 | 159.8 | 18.3 | 1.4   | 1.9  | 3.1    |
| 43°   | 1037.0 | 1023.0 | 985.0 | 860.9 | 637.0 | 368.9 | 156.7 | 16.6 | 1.2   | 1.9  | 3.1    |
| 44°   | 1031.8 | 1018.5 | 981.9 | 860.2 | 633.4 | 363.5 | 151.0 | 14.7 | 0.9   | 1.9  | 3.1    |
| 45°   | 1025.6 | 1012.6 | 977.9 | 855.6 | 626.5 | 354.2 | 143.9 | 13.1 | 0.7   | 1.7  | 3.1    |
| 46°   | 1014.7 | 1004.5 | 970.8 | 846.4 | 615.6 | 341.4 | 134.9 | 11.9 | 0.5   | 1.7  | 2.8    |
| 47°   | 993.6  | 984.8  | 957.0 | 832.6 | 601.1 | 326.2 | 125.6 | 10.7 | 0.5   | 1.7  | 2.8    |
| 48°   | 951.1  | 950.8  | 929.5 | 807.0 | 578.1 | 307.2 | 115.9 | 9.5  | 0.5   | 1.7  | 2.8    |
| 49°   | 910.0  | 905.7  | 879.1 | 761.9 | 545.1 | 284.4 | 105.6 | 8.5  | 0.2   | 1.7  | 2.8    |
| 50°   | 887.5  | 878.2  | 834.5 | 708.7 | 502.8 | 252.8 | 94.7  | 7.1  | 0.2   | 1.4  | 2.8    |
| 51°   | 863.9  | 850.7  | 799.1 | 660.7 | 452.5 | 222.5 | 82.9  | 5.7  | 0.2   | 1.4  | 2.6    |
| 52°   | 821.5  | 808.9  | 751.2 | 614.9 | 403.6 | 191.4 | 71.5  | 4.7  | 0.2   | 1.4  | 2.8    |
| 53°   | 775.6  | 757.6  | 694.9 | 564.6 | 360.6 | 163.8 | 59.8  | 4.0  | 0.2   | 1.4  | 2.6    |
| 54°   | 717.9  | 709.9  | 637.9 | 502.8 | 310.3 | 137.2 | 49.1  | 3.3  | 0.2   | 1.4  | 2.6    |
| 55°   | 663.6  | 651.7  | 576.9 | 439.7 | 264.7 | 112.5 | 41.1  | 2.6  | 0.2   | 1.4  | 2.6    |
| 56°   | 594.2  | 576.4  | 506.4 | 381.8 | 218.4 | 90.7  | 34.7  | 2.1  | 0.2   | 1.4  | 2.6    |
| 57°   | 511.6  | 492.6  | 437.3 | 317.4 | 171.4 | 69.1  | 29.0  | 1.7  | 0.2   | 1.4  | 2.6    |
| 58°   | 432.8  | 416.4  | 357.1 | 245.0 | 129.2 | 48.0  | 24.0  | 1.2  | 0.2   | 1.2  | 2.6    |
| 59°   | 373.9  | 355.9  | 297.0 | 188.5 | 89.7  | 35.4  | 18.0  | 0.9  | 0.2   | 1.4  | 2.6    |
| 60°   | 323.8  | 300.6  | 239.1 | 146.0 | 64.1  | 25.4  | 13.3  | 0.5  | 0.5   | 1.4  | 2.6    |
| 62.5° | 186.6  | 164.8  | 114.2 | 59.4  | 26.4  | 13.1  | 6.4   | 0.2  | 0.5   | 1.4  | 2.6    |
| 65°   | 47.2   | 42.0   | 27.3  | 12.8  | 7.4   | 4.5   | 2.4   | 0.2  | 0.5   | 1.2  | 2.4    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.7 | 1.7 | 1.7 | 1.4 | 1.2 | 0.9 | 0.5 | 0.2 | 0.5   | 1.2 | 2.4    |
| 70°   | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5   | 1.2 | 2.1    |
| 72.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 1.2 | 1.9    |
| 75°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 1.2 | 1.9    |
| 77.5° | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 | 1.7    |
| 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 | 1.2    |
| 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°    | 12.1 | 12.1   | 12.1 |
| 2.5°  | 11.4 | 11.4   | 11.4 |
| 5°    | 10.7 | 10.7   | 10.4 |
| 7.5°  | 10.0 | 9.7    | 9.7  |
| 10°   | 9.0  | 9.0    | 9.0  |
| 12.5° | 8.3  | 8.3    | 8.3  |
| 15°   | 7.6  | 7.8    | 7.8  |
| 17.5° | 6.9  | 7.4    | 7.4  |
| 20°   | 6.4  | 6.9    | 7.1  |
| 22.5° | 5.9  | 6.4    | 6.6  |
| 25°   | 5.7  | 6.2    | 6.4  |
| 27.5° | 5.2  | 5.9    | 6.4  |
| 30°   | 5.0  | 5.7    | 6.2  |
| 31°   | 5.0  | 5.7    | 5.9  |
| 32°   | 4.7  | 5.7    | 5.9  |
| 33°   | 4.7  | 5.7    | 5.9  |
| 34°   | 4.7  | 5.5    | 5.9  |
| 35°   | 4.5  | 5.5    | 5.7  |
| 36°   | 4.5  | 5.5    | 5.7  |
| 37°   | 4.5  | 5.5    | 5.9  |
| 38°   | 4.5  | 5.5    | 5.7  |
| 39°   | 4.3  | 5.5    | 5.7  |
| 40°   | 4.3  | 5.5    | 5.7  |
| 41°   | 4.3  | 5.5    | 5.7  |
| 42°   | 4.3  | 5.5    | 5.7  |
| 43°   | 4.3  | 5.5    | 5.7  |
| 44°   | 4.3  | 5.2    | 5.7  |
| 45°   | 4.3  | 5.2    | 5.7  |
| 46°   | 4.3  | 5.5    | 5.7  |
| 47°   | 4.3  | 5.5    | 5.9  |
| 48°   | 4.3  | 5.2    | 5.7  |
| 49°   | 4.0  | 5.2    | 5.7  |
| 50°   | 4.0  | 5.2    | 5.7  |
| 51°   | 4.0  | 5.5    | 5.9  |
| 52°   | 4.0  | 5.5    | 5.9  |
| 53°   | 4.0  | 5.5    | 5.9  |
| 54°   | 4.0  | 5.5    | 5.7  |
| 55°   | 4.0  | 5.5    | 5.9  |
| 56°   | 4.0  | 5.5    | 5.7  |
| 57°   | 4.0  | 5.5    | 5.7  |
| 58°   | 4.0  | 5.2    | 5.7  |
| 59°   | 4.0  | 5.2    | 5.7  |
| 60°   | 4.0  | 5.2    | 5.7  |
| 62.5° | 3.8  | 5.2    | 5.7  |
| 65°   | 3.8  | 5.0    | 5.5  |

TEST NUMBER: P1338458

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 3.6  | 5.0    | 5.2  |
| 70°   | 3.3  | 4.7    | 5.0  |
| 72.5° | 3.1  | 4.5    | 4.7  |
| 75°   | 2.8  | 4.0    | 4.3  |
| 77.5° | 2.4  | 3.6    | 4.0  |
| 80°   | 2.1  | 3.1    | 3.3  |
| 82.5° | 1.7  | 2.6    | 2.8  |
| 85°   | 1.2  | 1.9    | 1.9  |
| 87.5° | 0.5  | 0.9    | 0.9  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)