

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: P1337389

Luminaire Tested: P3A05R259727DE010 E3A451GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R259727DE010 E3A451GPH  
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

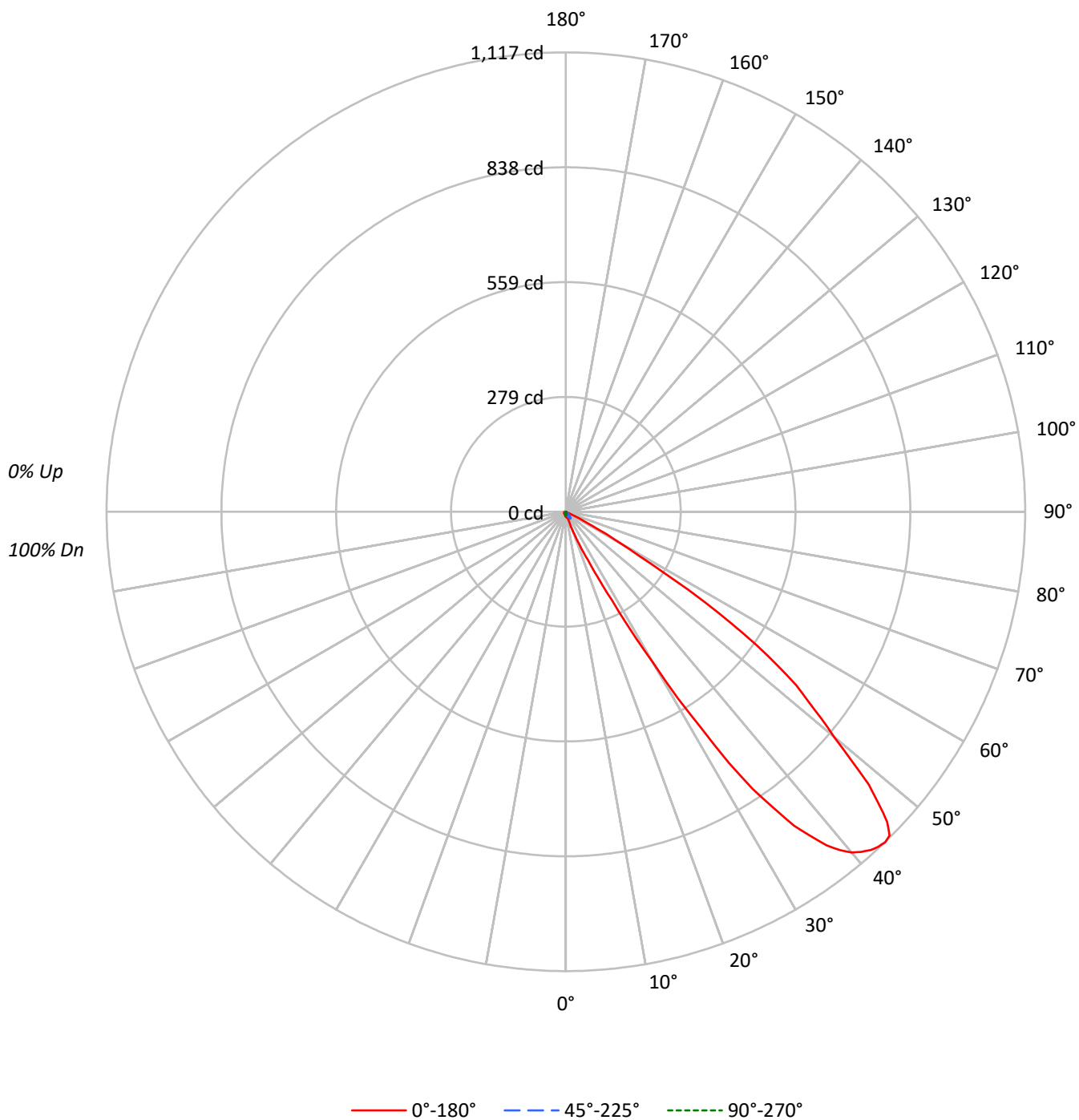
Lumens per Lamp: N/A  
Luminaire Lumens: 233.0 lumens  
Efficiency: N/A  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1337389

CATALOG NUMBER: P3A05R259727DE010 E3A451GPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1337389

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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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  |  | 96  | 94  | 92  |  | 92  | 91  | 89  | 87  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  | 78  | 75  | 73  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 64  |  | 72  | 67  | 63  | 61  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 53  | 51  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  | 42  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 32  | 29  |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  | 32  | 27  | 25  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 27  | 23  | 21  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  |  | 31  | 24  | 19  |  | 30  | 24  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2609   | 2609 | 2609 | 2609 | 2609 |
| 5°  | 2972   | 2840 | 2531 | 2267 | 2201 |
| 10° | 2961   | 2694 | 2138 | 1870 | 1870 |
| 15° | 3314   | 2338 | 1680 | 1589 | 1680 |
| 20° | 11668  | 2287 | 1283 | 1330 | 1493 |
| 25° | 33583  | 2928 | 1040 | 1234 | 1428 |
| 30° | 107156 | 4507 | 836  | 1190 | 1443 |
| 35° | 234686 | 5327 | 723  | 1151 | 1472 |
| 40° | 309609 | 4809 | 601  | 1174 | 1574 |
| 45° | 345245 | 3380 | 558  | 1271 | 1706 |
| 50° | 290617 | 1740 | 546  | 1330 | 1876 |
| 55° | 217302 | 688  | 535  | 1491 | 2103 |
| 60° | 67275  | 175  | 526  | 1623 | 2324 |
| 65° | 5759   | 0    | 623  | 1712 | 2542 |
| 70° | 385    | 128  | 641  | 1988 | 2885 |
| 75° | 339    | 169  | 847  | 2118 | 3304 |
| 80° | 253    | 253  | 1263 | 2273 | 3915 |
| 85° | 503    | 503  | 2013 | 2516 | 4026 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 345245 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 2.7    | 1.2       |
| 20°-30°   | 12.9   | 5.5       |
| 30°-40°   | 62.1   | 26.6      |
| 40°-50°   | 97.3   | 41.8      |
| 50°-60°   | 49.9   | 21.4      |
| 60°-70°   | 4.7    | 2.0       |
| 70°-80°   | 1.6    | 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°    | 16.7   | 7.2       |
| 0°-40°    | 78.8   | 33.8      |
| 0°-60°    | 225.9  | 97.0      |
| 0°-90°    | 233.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 233.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 12   | 12  | 12  | 12   | 12   |      |
| 5°  | 14   | 13  | 12  | 10   | 10   | 1    |
| 15° | 15   | 10  | 7   | 7    | 7    | 6    |
| 25° | 139  | 12  | 4   | 5    | 6    | 86   |
| 35° | 877  | 20  | 3   | 4    | 6    | 532  |
| 45° | 1113 | 11  | 2   | 4    | 6    | 815  |
| 55° | 568  | 2   | 1   | 4    | 6    | 473  |
| 65° | 11   | 0   | 1   | 3    | 5    | 35   |
| 75° | 0    | 0   | 1   | 2    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 11.9   | 11.9   | 11.9   | 11.9   | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9 |
| 2.5°  | 12.9   | 12.9   | 12.9   | 12.9   | 12.9  | 12.9  | 12.7  | 12.7  | 12.9  | 12.7  | 12.7 |
| 5°    | 13.5   | 13.5   | 13.5   | 13.5   | 13.5  | 13.5  | 13.5  | 13.3  | 13.3  | 13.3  | 12.9 |
| 7.5°  | 13.7   | 13.5   | 13.5   | 13.5   | 13.5  | 13.5  | 13.5  | 13.5  | 13.3  | 13.3  | 12.7 |
| 10°   | 13.3   | 13.3   | 13.3   | 13.3   | 13.1  | 13.1  | 13.1  | 12.9  | 12.9  | 12.9  | 12.1 |
| 12.5° | 13.3   | 13.3   | 13.3   | 13.3   | 13.1  | 13.1  | 12.9  | 12.9  | 12.7  | 12.5  | 11.1 |
| 15°   | 14.6   | 14.6   | 14.6   | 14.4   | 14.1  | 13.9  | 13.7  | 13.5  | 13.3  | 12.9  | 10.3 |
| 17.5° | 21.3   | 20.7   | 20.5   | 19.7   | 18.7  | 17.6  | 16.8  | 16.0  | 15.2  | 14.6  | 9.8  |
| 20°   | 50.0   | 49.8   | 48.8   | 46.3   | 43.7  | 40.6  | 37.5  | 34.0  | 29.1  | 25.8  | 9.8  |
| 22.5° | 86.7   | 85.5   | 83.7   | 81.8   | 77.1  | 71.6  | 65.8  | 59.3  | 52.9  | 46.1  | 10.5 |
| 25°   | 138.8  | 141.7  | 135.5  | 130.6  | 122.4 | 112.4 | 101.5 | 92.5  | 81.0  | 70.3  | 12.1 |
| 27.5° | 241.3  | 243.2  | 231.1  | 215.1  | 196.0 | 174.9 | 154.4 | 139.0 | 119.7 | 102.1 | 15.2 |
| 30°   | 423.2  | 425.0  | 404.7  | 370.7  | 331.3 | 296.7 | 249.7 | 208.5 | 170.6 | 141.3 | 17.8 |
| 31°   | 528.2  | 513.8  | 490.2  | 457.2  | 407.4 | 355.1 | 298.7 | 248.9 | 200.9 | 162.4 | 18.7 |
| 32°   | 619.4  | 618.2  | 590.7  | 540.7  | 490.6 | 426.1 | 356.1 | 291.1 | 232.3 | 183.7 | 19.3 |
| 33°   | 727.1  | 718.9  | 680.1  | 632.9  | 566.7 | 501.7 | 411.5 | 337.3 | 264.5 | 207.5 | 19.7 |
| 34°   | 813.4  | 791.2  | 775.2  | 721.3  | 651.4 | 568.6 | 472.0 | 386.1 | 304.7 | 230.5 | 19.9 |
| 35°   | 876.7  | 872.0  | 840.8  | 790.6  | 719.5 | 634.8 | 537.2 | 436.7 | 338.3 | 257.1 | 19.9 |
| 36°   | 943.8  | 929.2  | 898.9  | 853.4  | 784.1 | 696.5 | 587.0 | 480.6 | 377.5 | 281.1 | 19.7 |
| 37°   | 985.8  | 977.2  | 947.1  | 900.1  | 832.2 | 748.6 | 642.8 | 526.9 | 408.6 | 305.1 | 19.3 |
| 38°   | 1029.1 | 1011.6 | 981.9  | 937.0  | 870.4 | 791.8 | 683.2 | 562.6 | 437.3 | 326.2 | 18.7 |
| 39°   | 1059.0 | 1041.0 | 1010.6 | 965.9  | 900.7 | 822.8 | 715.2 | 593.0 | 462.4 | 342.0 | 17.8 |
| 40°   | 1081.6 | 1064.1 | 1033.4 | 987.4  | 923.1 | 847.2 | 741.8 | 619.8 | 483.3 | 355.7 | 16.8 |
| 41°   | 1095.5 | 1079.3 | 1048.8 | 1003.0 | 938.4 | 861.1 | 759.2 | 637.2 | 497.4 | 365.0 | 15.8 |
| 42°   | 1107.2 | 1090.6 | 1059.4 | 1012.7 | 947.9 | 873.0 | 769.9 | 648.3 | 507.1 | 369.7 | 15.0 |
| 43°   | 1113.7 | 1097.1 | 1066.8 | 1019.0 | 953.6 | 878.6 | 775.6 | 653.4 | 510.3 | 369.1 | 13.5 |
| 44°   | 1117.4 | 1100.2 | 1069.7 | 1021.9 | 956.1 | 880.0 | 776.1 | 652.4 | 508.1 | 364.1 | 12.3 |
| 45°   | 1113.3 | 1096.3 | 1066.8 | 1019.0 | 951.8 | 875.5 | 772.0 | 646.9 | 499.5 | 354.5 | 10.9 |
| 46°   | 1086.7 | 1073.6 | 1046.5 | 1002.6 | 938.2 | 864.0 | 761.5 | 636.2 | 486.1 | 342.6 | 9.2  |
| 47°   | 1039.7 | 1029.3 | 1003.0 | 970.4  | 912.2 | 842.9 | 742.2 | 615.9 | 467.5 | 324.8 | 7.4  |
| 48°   | 990.7  | 975.3  | 951.0  | 917.5  | 868.3 | 805.0 | 710.4 | 586.2 | 439.2 | 301.4 | 6.6  |
| 49°   | 918.3  | 909.3  | 887.8  | 850.5  | 809.7 | 753.9 | 665.5 | 548.1 | 404.5 | 276.0 | 5.7  |
| 50°   | 851.9  | 845.8  | 815.6  | 788.2  | 744.9 | 692.8 | 604.6 | 497.8 | 361.5 | 244.4 | 5.1  |
| 51°   | 800.0  | 792.7  | 770.9  | 736.7  | 690.6 | 630.1 | 547.0 | 432.6 | 312.1 | 206.9 | 4.1  |
| 52°   | 745.9  | 741.8  | 722.5  | 687.3  | 642.0 | 581.7 | 491.1 | 377.3 | 264.1 | 174.9 | 3.3  |
| 53°   | 701.6  | 695.7  | 672.1  | 640.7  | 591.7 | 529.4 | 430.4 | 325.8 | 223.7 | 147.0 | 2.9  |
| 54°   | 637.0  | 634.6  | 619.4  | 586.6  | 533.5 | 465.6 | 375.4 | 274.3 | 186.6 | 124.7 | 2.5  |
| 55°   | 568.4  | 560.2  | 544.8  | 518.7  | 469.9 | 406.6 | 311.9 | 227.4 | 150.9 | 105.0 | 1.8  |
| 56°   | 484.7  | 484.3  | 456.8  | 435.1  | 391.8 | 324.6 | 249.1 | 177.6 | 122.6 | 87.5  | 1.6  |
| 57°   | 404.7  | 391.8  | 365.4  | 343.8  | 297.3 | 246.2 | 184.9 | 133.1 | 96.0  | 70.9  | 1.2  |
| 58°   | 299.4  | 292.6  | 285.6  | 254.0  | 211.0 | 174.5 | 132.0 | 93.5  | 70.9  | 54.1  | 0.8  |
| 59°   | 203.2  | 203.0  | 194.8  | 170.8  | 146.0 | 108.7 | 82.4  | 63.6  | 48.8  | 39.8  | 0.6  |
| 60°   | 153.4  | 149.7  | 133.3  | 117.5  | 91.9  | 68.7  | 48.8  | 37.5  | 30.3  | 25.6  | 0.4  |
| 62.5° | 53.7   | 55.8   | 49.0   | 40.6   | 31.0  | 25.4  | 19.5  | 15.8  | 12.9  | 10.5  | 0.0  |
| 65°   | 11.1   | 12.1   | 10.5   | 9.8    | 7.8   | 6.8   | 5.9   | 5.1   | 4.3   | 3.7   | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 1.4 | 1.2  | 1.2 | 1.2  | 1.0 | 1.0   | 1.0 | 1.0   | 0.8 | 0.8   | 0.2 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.4 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.0  | 0.0 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 11.9  | 11.9 | 11.9   | 11.9 | 11.9   | 11.9 |
| 2.5°  | 12.5  | 12.1 | 11.5   | 11.3 | 11.1   | 11.1 |
| 5°    | 12.3  | 11.5 | 10.9   | 10.3 | 10.0   | 10.0 |
| 7.5°  | 11.7  | 10.7 | 9.8    | 9.4  | 9.2    | 9.0  |
| 10°   | 11.1  | 9.6  | 8.8    | 8.4  | 8.4    | 8.4  |
| 12.5° | 9.8   | 8.6  | 7.8    | 7.6  | 7.8    | 7.8  |
| 15°   | 8.8   | 7.4  | 7.0    | 7.0  | 7.2    | 7.4  |
| 17.5° | 7.6   | 6.6  | 6.2    | 6.4  | 6.6    | 6.8  |
| 20°   | 6.8   | 5.5  | 5.5    | 5.7  | 6.4    | 6.4  |
| 22.5° | 5.9   | 4.9  | 4.9    | 5.5  | 5.9    | 6.2  |
| 25°   | 5.3   | 4.3  | 4.5    | 5.1  | 5.7    | 5.9  |
| 27.5° | 4.5   | 3.7  | 4.1    | 4.9  | 5.5    | 5.7  |
| 30°   | 3.9   | 3.3  | 3.9    | 4.7  | 5.3    | 5.7  |
| 31°   | 3.7   | 3.1  | 3.9    | 4.5  | 5.3    | 5.7  |
| 32°   | 3.3   | 3.1  | 3.7    | 4.5  | 5.3    | 5.5  |
| 33°   | 3.1   | 2.9  | 3.7    | 4.5  | 5.3    | 5.5  |
| 34°   | 2.9   | 2.7  | 3.5    | 4.5  | 5.3    | 5.5  |
| 35°   | 2.5   | 2.7  | 3.5    | 4.3  | 5.1    | 5.5  |
| 36°   | 2.3   | 2.5  | 3.5    | 4.3  | 5.1    | 5.5  |
| 37°   | 2.1   | 2.5  | 3.3    | 4.3  | 5.1    | 5.5  |
| 38°   | 1.8   | 2.3  | 3.3    | 4.3  | 5.1    | 5.5  |
| 39°   | 1.6   | 2.3  | 3.1    | 4.3  | 5.1    | 5.5  |
| 40°   | 1.4   | 2.1  | 3.1    | 4.1  | 5.1    | 5.5  |
| 41°   | 1.4   | 2.1  | 3.1    | 4.1  | 5.1    | 5.5  |
| 42°   | 1.2   | 2.1  | 3.1    | 4.1  | 5.1    | 5.5  |
| 43°   | 1.0   | 1.8  | 3.1    | 4.1  | 5.1    | 5.5  |
| 44°   | 0.8   | 1.8  | 2.9    | 4.1  | 5.1    | 5.5  |
| 45°   | 0.8   | 1.8  | 2.9    | 4.1  | 5.1    | 5.5  |
| 46°   | 0.6   | 1.6  | 2.9    | 4.1  | 5.1    | 5.5  |
| 47°   | 0.4   | 1.6  | 2.9    | 3.9  | 5.1    | 5.5  |
| 48°   | 0.4   | 1.6  | 2.9    | 3.9  | 5.1    | 5.5  |
| 49°   | 0.4   | 1.6  | 2.7    | 3.9  | 5.1    | 5.5  |
| 50°   | 0.4   | 1.6  | 2.7    | 3.9  | 5.1    | 5.5  |
| 51°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.5  |
| 52°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.7  |
| 53°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.5  |
| 54°   | 0.2   | 1.4  | 2.5    | 3.9  | 5.1    | 5.5  |
| 55°   | 0.2   | 1.4  | 2.5    | 3.9  | 5.1    | 5.5  |
| 56°   | 0.2   | 1.2  | 2.5    | 3.7  | 5.1    | 5.5  |
| 57°   | 0.4   | 1.2  | 2.5    | 3.7  | 5.1    | 5.3  |
| 58°   | 0.4   | 1.2  | 2.5    | 3.7  | 4.9    | 5.3  |
| 59°   | 0.4   | 1.2  | 2.5    | 3.7  | 4.9    | 5.3  |
| 60°   | 0.4   | 1.2  | 2.3    | 3.7  | 4.9    | 5.3  |
| 62.5° | 0.4   | 1.2  | 2.3    | 3.5  | 4.7    | 5.1  |
| 65°   | 0.4   | 1.2  | 2.1    | 3.3  | 4.7    | 4.9  |





TEST NUMBER: P1337389

CATALOG NUMBER: P3A05R259727DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 2.1    | 3.1  | 4.5    | 4.7  |
| 70°   | 0.6   | 1.0 | 1.8    | 3.1  | 4.3    | 4.5  |
| 72.5° | 0.6   | 1.0 | 1.8    | 2.7  | 3.9    | 4.3  |
| 75°   | 0.6   | 1.0 | 1.6    | 2.5  | 3.7    | 3.9  |
| 77.5° | 0.6   | 1.0 | 1.4    | 2.3  | 3.3    | 3.5  |
| 80°   | 0.8   | 1.0 | 1.2    | 1.8  | 2.9    | 3.1  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.4  | 2.3    | 2.5  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.4    | 1.6  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)