

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: P1337501

Luminaire Tested: P3A05R259840DE010 E3A451GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337501  
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: P3A05R259840DE010 E3A451GPH  
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

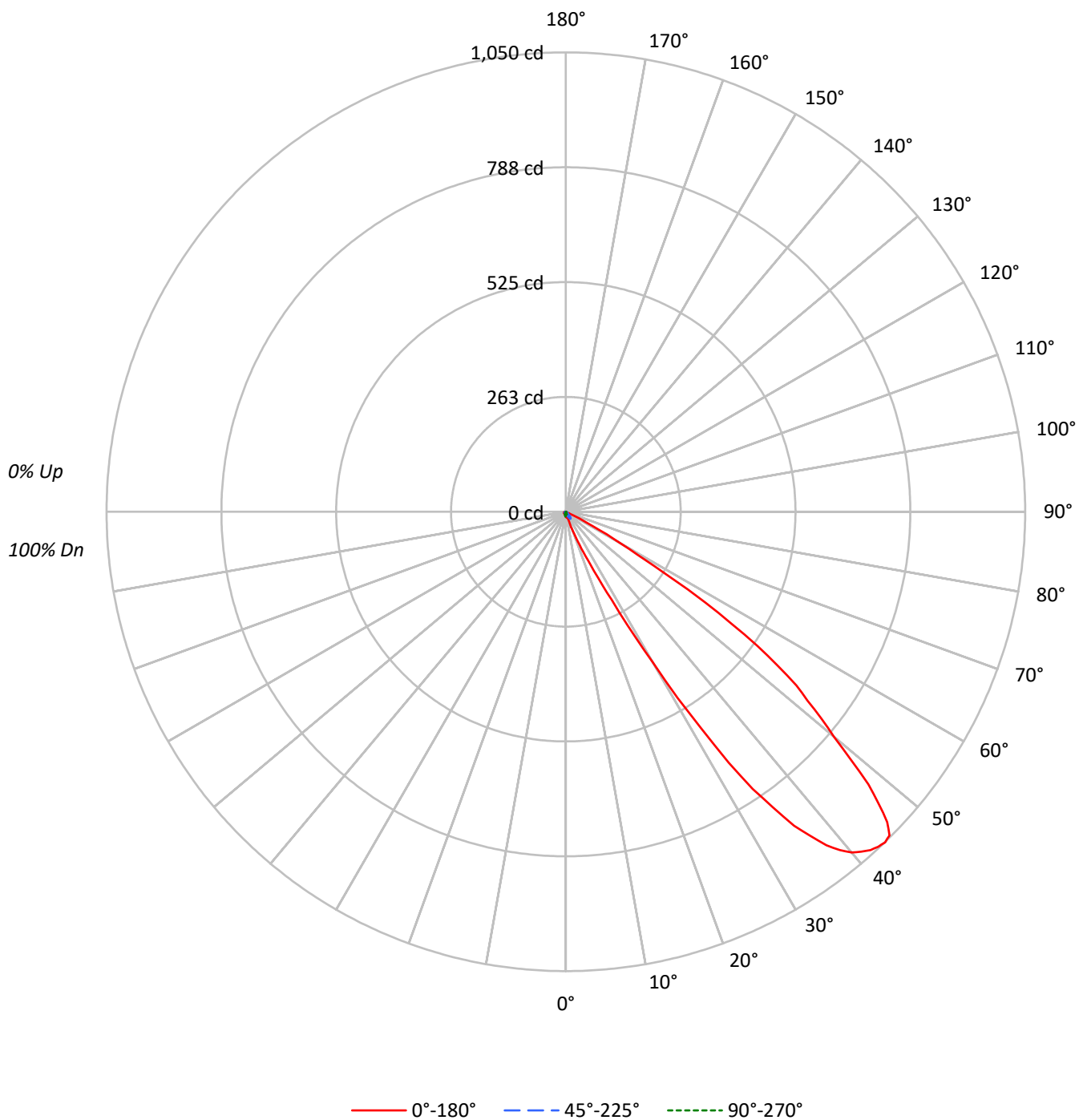
Lumens per Lamp: N/A  
Luminaire Lumens: 219.0 lumens  
Efficiency: N/A  
Efficacy: 30.4 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A05R259840DE010 E3A451GPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1337501

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  | 87  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  | 73  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  | 61  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  | 51  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  | 42  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 29  | 29  |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 25  | 25  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  | 21  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2456   | 2456 | 2456 | 2456 | 2456 |
| 5°  | 2796   | 2663 | 2377 | 2113 | 2069 |
| 10° | 2783   | 2538 | 2026 | 1759 | 1759 |
| 15° | 3110   | 2179 | 1566 | 1498 | 1566 |
| 20° | 10968  | 2170 | 1213 | 1260 | 1400 |
| 25° | 31574  | 2758 | 968  | 1161 | 1355 |
| 30° | 100724 | 4254 | 785  | 1114 | 1367 |
| 35° | 220578 | 5006 | 669  | 1071 | 1392 |
| 40° | 291002 | 4523 | 544  | 1116 | 1489 |
| 45° | 324499 | 3163 | 527  | 1209 | 1613 |
| 50° | 273151 | 1637 | 512  | 1262 | 1774 |
| 55° | 204227 | 650  | 497  | 1415 | 1988 |
| 60° | 63241  | 175  | 526  | 1535 | 2193 |
| 65° | 5396   | 0    | 623  | 1608 | 2387 |
| 70° | 385    | 128  | 641  | 1859 | 2693 |
| 75° | 339    | 169  | 847  | 1949 | 3135 |
| 80° | 253    | 253  | 1263 | 2147 | 3662 |
| 85° | 503    | 503  | 2013 | 2516 | 3774 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 324499 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.5       |
| 10°-20°   | 2.6    | 1.2       |
| 20°-30°   | 12.1   | 5.5       |
| 30°-40°   | 58.3   | 26.6      |
| 40°-50°   | 91.4   | 41.7      |
| 50°-60°   | 46.9   | 21.4      |
| 60°-70°   | 4.4    | 2.0       |
| 70°-80°   | 1.5    | 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°    | 15.7   | 7.2       |
| 0°-40°    | 74.0   | 33.8      |
| 0°-60°    | 212.3  | 97.0      |
| 0°-90°    | 219.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 219.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 11   | 11  | 11  | 11   | 11   |      |
| 5°  | 13   | 12  | 11  | 10   | 9    | 1    |
| 15° | 14   | 10  | 7   | 7    | 7    | 6    |
| 25° | 130  | 11  | 4   | 5    | 6    | 81   |
| 35° | 824  | 19  | 2   | 4    | 5    | 500  |
| 45° | 1046 | 10  | 2   | 4    | 5    | 766  |
| 55° | 534  | 2   | 1   | 4    | 5    | 445  |
| 65° | 10   | 0   | 1   | 3    | 5    | 33   |
| 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°    | 11.2   | 11.2   | 11.2   | 11.2  | 11.2  | 11.2  | 11.2  | 11.2  | 11.2  | 11.2  | 11.2 |
| 2.5°  | 12.1   | 12.1   | 12.1   | 12.1  | 12.1  | 12.1  | 11.9  | 11.9  | 12.1  | 11.9  | 11.9 |
| 5°    | 12.7   | 12.7   | 12.7   | 12.7  | 12.7  | 12.7  | 12.7  | 12.5  | 12.5  | 12.5  | 12.1 |
| 7.5°  | 12.9   | 12.7   | 12.7   | 12.7  | 12.7  | 12.7  | 12.7  | 12.7  | 12.5  | 12.5  | 11.9 |
| 10°   | 12.5   | 12.5   | 12.5   | 12.5  | 12.3  | 12.3  | 12.3  | 12.1  | 12.1  | 12.1  | 11.4 |
| 12.5° | 12.5   | 12.5   | 12.5   | 12.5  | 12.3  | 12.3  | 12.1  | 12.1  | 11.9  | 11.8  | 10.4 |
| 15°   | 13.7   | 13.7   | 13.7   | 13.5  | 13.3  | 13.1  | 12.9  | 12.7  | 12.5  | 12.1  | 9.6  |
| 17.5° | 20.0   | 19.5   | 19.3   | 18.5  | 17.5  | 16.6  | 15.8  | 15.0  | 14.3  | 13.7  | 9.3  |
| 20°   | 47.0   | 46.8   | 45.9   | 43.6  | 41.0  | 38.2  | 35.3  | 32.0  | 27.4  | 24.3  | 9.3  |
| 22.5° | 81.5   | 80.4   | 78.6   | 76.9  | 72.5  | 67.3  | 61.9  | 55.7  | 49.7  | 43.4  | 9.8  |
| 25°   | 130.5  | 133.2  | 127.4  | 122.8 | 115.1 | 105.6 | 95.4  | 86.9  | 76.1  | 66.1  | 11.4 |
| 27.5° | 226.8  | 228.6  | 217.2  | 202.2 | 184.2 | 164.4 | 145.1 | 130.7 | 112.5 | 96.0  | 14.3 |
| 30°   | 397.8  | 399.5  | 380.4  | 348.4 | 311.4 | 278.9 | 234.7 | 196.0 | 160.3 | 132.8 | 16.8 |
| 31°   | 496.4  | 482.9  | 460.8  | 429.8 | 382.9 | 333.8 | 280.8 | 234.0 | 188.9 | 152.6 | 17.5 |
| 32°   | 582.2  | 581.0  | 555.2  | 508.2 | 461.2 | 400.5 | 334.7 | 273.7 | 218.3 | 172.7 | 18.1 |
| 33°   | 683.4  | 675.7  | 639.2  | 594.9 | 532.7 | 471.6 | 386.8 | 317.0 | 248.6 | 195.0 | 18.5 |
| 34°   | 764.5  | 743.7  | 728.7  | 678.0 | 612.3 | 534.4 | 443.6 | 362.9 | 286.4 | 216.6 | 18.7 |
| 35°   | 824.0  | 819.6  | 790.3  | 743.1 | 676.2 | 596.6 | 504.9 | 410.5 | 318.0 | 241.7 | 18.7 |
| 36°   | 887.1  | 873.4  | 844.9  | 802.1 | 736.9 | 654.7 | 551.7 | 451.7 | 354.8 | 264.2 | 18.5 |
| 37°   | 926.6  | 918.5  | 890.1  | 846.0 | 782.2 | 703.6 | 604.2 | 495.3 | 384.1 | 286.8 | 18.1 |
| 38°   | 967.2  | 950.9  | 922.9  | 880.7 | 818.1 | 744.3 | 642.1 | 528.8 | 411.1 | 306.6 | 17.5 |
| 39°   | 995.4  | 978.4  | 949.9  | 907.9 | 846.6 | 773.4 | 672.2 | 557.3 | 434.6 | 321.4 | 16.8 |
| 40°   | 1016.6 | 1000.2 | 971.3  | 928.1 | 867.6 | 796.3 | 697.2 | 582.6 | 454.2 | 334.4 | 15.8 |
| 41°   | 1029.7 | 1014.5 | 985.7  | 942.8 | 882.1 | 809.4 | 713.6 | 599.0 | 467.5 | 343.0 | 14.8 |
| 42°   | 1040.7 | 1025.1 | 995.8  | 951.8 | 890.9 | 820.6 | 723.6 | 609.4 | 476.6 | 347.5 | 14.1 |
| 43°   | 1046.8 | 1031.2 | 1002.7 | 957.8 | 896.3 | 825.8 | 729.0 | 614.2 | 479.7 | 346.9 | 12.7 |
| 44°   | 1050.3 | 1034.1 | 1005.4 | 960.5 | 898.6 | 827.1 | 729.4 | 613.2 | 477.5 | 342.3 | 11.6 |
| 45°   | 1046.4 | 1030.4 | 1002.7 | 957.8 | 894.6 | 822.9 | 725.6 | 608.0 | 469.5 | 333.2 | 10.2 |
| 46°   | 1021.4 | 1009.1 | 983.6  | 942.4 | 881.9 | 812.1 | 715.7 | 598.0 | 456.9 | 322.0 | 8.7  |
| 47°   | 977.3  | 967.4  | 942.8  | 912.1 | 857.4 | 792.3 | 697.6 | 578.9 | 439.4 | 305.3 | 6.9  |
| 48°   | 931.2  | 916.7  | 893.8  | 862.4 | 816.1 | 756.6 | 667.8 | 551.0 | 412.8 | 283.3 | 6.2  |
| 49°   | 863.2  | 854.7  | 834.5  | 799.4 | 761.0 | 708.6 | 625.6 | 515.1 | 380.2 | 259.4 | 5.4  |
| 50°   | 800.7  | 794.9  | 766.6  | 740.8 | 700.1 | 651.2 | 568.3 | 467.9 | 339.8 | 229.7 | 4.8  |
| 51°   | 752.0  | 745.0  | 724.6  | 692.4 | 649.1 | 592.2 | 514.2 | 406.6 | 293.3 | 194.4 | 3.9  |
| 52°   | 701.1  | 697.2  | 679.1  | 646.0 | 603.4 | 546.7 | 461.6 | 354.6 | 248.2 | 164.4 | 3.1  |
| 53°   | 659.5  | 653.9  | 631.7  | 602.2 | 556.2 | 497.6 | 404.5 | 306.2 | 210.3 | 138.2 | 2.7  |
| 54°   | 598.8  | 596.5  | 582.2  | 551.4 | 501.4 | 437.7 | 352.9 | 257.9 | 175.4 | 117.2 | 2.3  |
| 55°   | 534.2  | 526.5  | 512.0  | 487.6 | 441.7 | 382.2 | 293.1 | 213.7 | 141.8 | 98.7  | 1.7  |
| 56°   | 455.6  | 455.2  | 429.4  | 408.9 | 368.3 | 305.1 | 234.1 | 166.9 | 115.2 | 82.3  | 1.5  |
| 57°   | 380.4  | 368.3  | 343.4  | 323.2 | 279.4 | 231.5 | 173.8 | 125.1 | 90.2  | 66.7  | 1.2  |
| 58°   | 281.4  | 275.0  | 268.5  | 238.8 | 198.3 | 164.0 | 124.1 | 87.9  | 66.7  | 50.9  | 0.8  |
| 59°   | 191.0  | 190.8  | 183.1  | 160.5 | 137.2 | 102.1 | 77.5  | 59.7  | 45.9  | 37.4  | 0.6  |
| 60°   | 144.2  | 140.7  | 125.3  | 110.4 | 86.3  | 64.6  | 45.9  | 35.3  | 28.5  | 24.1  | 0.4  |
| 62.5° | 50.5   | 52.4   | 46.1   | 38.2  | 29.1  | 23.9  | 18.3  | 14.8  | 12.1  | 9.8   | 0.0  |
| 65°   | 10.4   | 11.4   | 9.8    | 9.3   | 7.3   | 6.4   | 5.6   | 4.8   | 4.0   | 3.5   | 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° | 1.3 | 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°    | 11.2  | 11.2 | 11.2   | 11.2 | 11.2   | 11.2 |
| 2.5°  | 11.8  | 11.4 | 10.8   | 10.6 | 10.4   | 10.4 |
| 5°    | 11.6  | 10.8 | 10.2   | 9.6  | 9.4    | 9.4  |
| 7.5°  | 11.0  | 10.0 | 9.3    | 8.9  | 8.7    | 8.5  |
| 10°   | 10.4  | 9.1  | 8.3    | 7.9  | 7.9    | 7.9  |
| 12.5° | 9.3   | 8.1  | 7.3    | 7.1  | 7.3    | 7.3  |
| 15°   | 8.3   | 6.9  | 6.6    | 6.6  | 6.7    | 6.9  |
| 17.5° | 7.1   | 6.2  | 5.8    | 6.0  | 6.2    | 6.4  |
| 20°   | 6.4   | 5.2  | 5.2    | 5.4  | 6.0    | 6.0  |
| 22.5° | 5.6   | 4.6  | 4.6    | 5.2  | 5.6    | 5.8  |
| 25°   | 5.0   | 4.0  | 4.2    | 4.8  | 5.4    | 5.6  |
| 27.5° | 4.2   | 3.5  | 3.9    | 4.6  | 5.2    | 5.4  |
| 30°   | 3.7   | 3.1  | 3.7    | 4.4  | 5.0    | 5.4  |
| 31°   | 3.5   | 2.9  | 3.7    | 4.2  | 5.0    | 5.4  |
| 32°   | 3.1   | 2.9  | 3.5    | 4.2  | 5.0    | 5.2  |
| 33°   | 2.9   | 2.7  | 3.5    | 4.2  | 5.0    | 5.2  |
| 34°   | 2.7   | 2.5  | 3.3    | 4.2  | 5.0    | 5.2  |
| 35°   | 2.3   | 2.5  | 3.3    | 4.0  | 4.8    | 5.2  |
| 36°   | 2.1   | 2.3  | 3.3    | 4.0  | 4.8    | 5.2  |
| 37°   | 1.9   | 2.3  | 3.1    | 4.0  | 4.8    | 5.2  |
| 38°   | 1.7   | 2.1  | 3.1    | 4.0  | 4.8    | 5.2  |
| 39°   | 1.5   | 2.1  | 2.9    | 4.0  | 4.8    | 5.2  |
| 40°   | 1.3   | 1.9  | 2.9    | 3.9  | 4.8    | 5.2  |
| 41°   | 1.3   | 1.9  | 2.9    | 3.9  | 4.8    | 5.2  |
| 42°   | 1.2   | 1.9  | 2.9    | 3.9  | 4.8    | 5.2  |
| 43°   | 1.0   | 1.7  | 2.9    | 3.9  | 4.8    | 5.2  |
| 44°   | 0.8   | 1.7  | 2.7    | 3.9  | 4.8    | 5.2  |
| 45°   | 0.8   | 1.7  | 2.7    | 3.9  | 4.8    | 5.2  |
| 46°   | 0.6   | 1.5  | 2.7    | 3.9  | 4.8    | 5.2  |
| 47°   | 0.4   | 1.5  | 2.7    | 3.7  | 4.8    | 5.2  |
| 48°   | 0.4   | 1.5  | 2.7    | 3.7  | 4.8    | 5.2  |
| 49°   | 0.4   | 1.5  | 2.5    | 3.7  | 4.8    | 5.2  |
| 50°   | 0.4   | 1.5  | 2.5    | 3.7  | 4.8    | 5.2  |
| 51°   | 0.2   | 1.3  | 2.5    | 3.7  | 4.8    | 5.2  |
| 52°   | 0.2   | 1.3  | 2.5    | 3.7  | 4.8    | 5.4  |
| 53°   | 0.2   | 1.3  | 2.5    | 3.7  | 4.8    | 5.2  |
| 54°   | 0.2   | 1.3  | 2.3    | 3.7  | 4.8    | 5.2  |
| 55°   | 0.2   | 1.3  | 2.3    | 3.7  | 4.8    | 5.2  |
| 56°   | 0.2   | 1.2  | 2.3    | 3.5  | 4.8    | 5.2  |
| 57°   | 0.4   | 1.2  | 2.3    | 3.5  | 4.8    | 5.0  |
| 58°   | 0.4   | 1.2  | 2.3    | 3.5  | 4.6    | 5.0  |
| 59°   | 0.4   | 1.2  | 2.3    | 3.5  | 4.6    | 5.0  |
| 60°   | 0.4   | 1.2  | 2.1    | 3.5  | 4.6    | 5.0  |
| 62.5° | 0.4   | 1.2  | 2.1    | 3.3  | 4.4    | 4.8  |
| 65°   | 0.4   | 1.2  | 1.9    | 3.1  | 4.4    | 4.6  |



TEST NUMBER: P1337501

CATALOG NUMBER: P3A05R259840DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 1.9    | 2.9  | 4.2    | 4.4  |
| 70°   | 0.6   | 1.0 | 1.7    | 2.9  | 4.0    | 4.2  |
| 72.5° | 0.6   | 1.0 | 1.7    | 2.5  | 3.7    | 4.0  |
| 75°   | 0.6   | 1.0 | 1.5    | 2.3  | 3.5    | 3.7  |
| 77.5° | 0.6   | 1.0 | 1.3    | 2.1  | 3.1    | 3.3  |
| 80°   | 0.8   | 1.0 | 1.2    | 1.7  | 2.7    | 2.9  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.3  | 2.1    | 2.3  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.3    | 1.5  |
| 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)