

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: P1337563

Luminaire Tested: P3A05R25B2750DE010 E3A451H\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337563  
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: P3A05R25B2750DE010 E3A451H\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

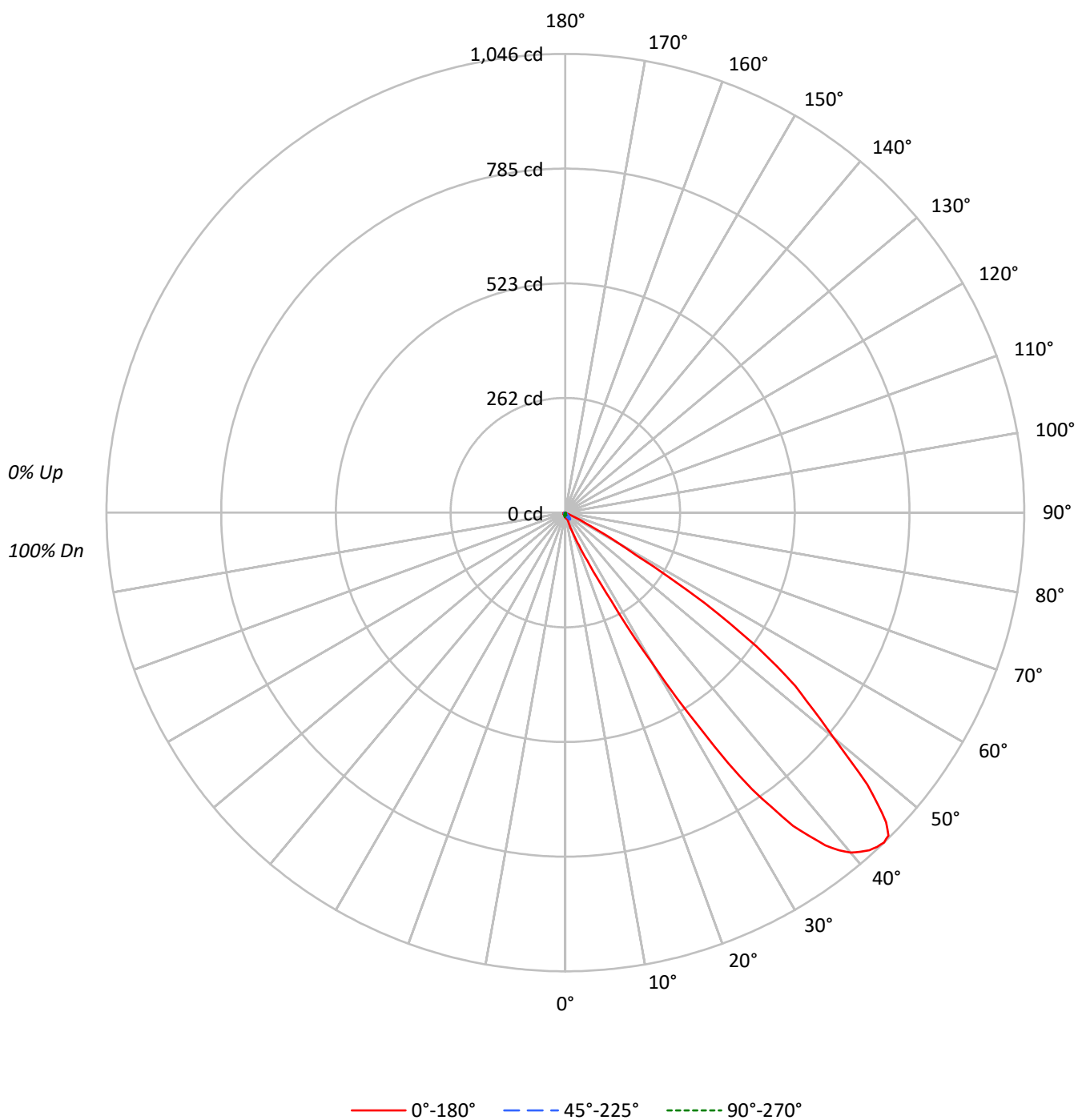
Lumens per Lamp: N/A  
Luminaire Lumens: 218.0 lumens  
Efficiency: N/A  
Efficacy: 37.0 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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: P1337563

CATALOG NUMBER: P3A05R25B2750DE010 E3A451H\_3000K

### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 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  | 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°  | 2434   | 2434 | 2434 | 2434 | 2434 |
| 5°  | 2796   | 2663 | 2355 | 2113 | 2069 |
| 10° | 2783   | 2516 | 2004 | 1759 | 1759 |
| 15° | 3087   | 2179 | 1566 | 1476 | 1566 |
| 20° | 10921  | 2147 | 1213 | 1260 | 1377 |
| 25° | 31429  | 2734 | 968  | 1161 | 1355 |
| 30° | 100243 | 4228 | 785  | 1114 | 1367 |
| 35° | 219588 | 4979 | 669  | 1071 | 1392 |
| 40° | 289657 | 4494 | 544  | 1088 | 1489 |
| 45° | 323041 | 3163 | 527  | 1178 | 1613 |
| 50° | 271923 | 1637 | 512  | 1228 | 1774 |
| 55° | 203309 | 650  | 497  | 1376 | 1988 |
| 60° | 62934  | 175  | 526  | 1535 | 2193 |
| 65° | 5396   | 0    | 623  | 1608 | 2387 |
| 70° | 385    | 128  | 641  | 1859 | 2693 |
| 75° | 339    | 169  | 847  | 1949 | 3050 |
| 80° | 253    | 253  | 1263 | 2147 | 3662 |
| 85° | 503    | 503  | 2013 | 2516 | 3774 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 323041 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°   | 58.1   | 26.6      |
| 40°-50°   | 91.0   | 41.7      |
| 50°-60°   | 46.7   | 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°    | 15.6   | 7.2       |
| 0°-40°    | 73.7   | 33.8      |
| 0°-60°    | 211.4  | 96.9      |
| 0°-90°    | 218.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 218.0  | 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   | 6    | 7    | 6    |
| 25° | 130  | 11  | 4   | 5    | 6    | 81   |
| 35° | 820  | 19  | 2   | 4    | 5    | 498  |
| 45° | 1042 | 10  | 2   | 4    | 5    | 762  |
| 55° | 532  | 2   | 1   | 4    | 5    | 443  |
| 65° | 10   | 0   | 1   | 3    | 5    | 32   |
| 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°    | 11.1   | 11.1   | 11.1   | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  | 11.1 |
| 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  | 11.3 |
| 12.5° | 12.5   | 12.5   | 12.5   | 12.5  | 12.3  | 12.3  | 12.1  | 12.1  | 11.9  | 11.7  | 10.4 |
| 15°   | 13.6   | 13.6   | 13.6   | 13.4  | 13.2  | 13.0  | 12.9  | 12.7  | 12.5  | 12.1  | 9.6  |
| 17.5° | 20.0   | 19.4   | 19.2   | 18.4  | 17.5  | 16.5  | 15.7  | 15.0  | 14.2  | 13.6  | 9.2  |
| 20°   | 46.8   | 46.6   | 45.7   | 43.4  | 40.9  | 38.0  | 35.1  | 31.8  | 27.2  | 24.2  | 9.2  |
| 22.5° | 81.1   | 80.0   | 78.3   | 76.5  | 72.1  | 67.0  | 61.6  | 55.4  | 49.5  | 43.2  | 9.8  |
| 25°   | 129.9  | 132.6  | 126.8  | 122.2 | 114.5 | 105.1 | 95.0  | 86.5  | 75.8  | 65.8  | 11.3 |
| 27.5° | 225.8  | 227.5  | 216.2  | 201.2 | 183.4 | 163.6 | 144.5 | 130.1 | 112.0 | 95.5  | 14.2 |
| 30°   | 395.9  | 397.7  | 378.7  | 346.8 | 310.0 | 277.6 | 233.7 | 195.1 | 159.6 | 132.2 | 16.7 |
| 31°   | 494.2  | 480.7  | 458.7  | 427.8 | 381.2 | 332.3 | 279.5 | 232.9 | 188.0 | 151.9 | 17.5 |
| 32°   | 579.5  | 578.4  | 552.7  | 505.9 | 459.1 | 398.6 | 333.2 | 272.4 | 217.3 | 171.9 | 18.0 |
| 33°   | 680.2  | 672.6  | 636.3  | 592.2 | 530.2 | 469.4 | 385.0 | 315.6 | 247.5 | 194.1 | 18.4 |
| 34°   | 761.0  | 740.3  | 725.3  | 674.9 | 609.5 | 532.0 | 441.6 | 361.2 | 285.1 | 215.6 | 18.6 |
| 35°   | 820.3  | 815.9  | 786.7  | 739.7 | 673.1 | 593.9 | 502.6 | 408.6 | 316.5 | 240.6 | 18.6 |
| 36°   | 883.0  | 869.4  | 841.0  | 798.4 | 733.6 | 651.7 | 549.2 | 449.7 | 353.2 | 263.0 | 18.4 |
| 37°   | 922.3  | 914.3  | 886.1  | 842.2 | 778.7 | 700.4 | 601.4 | 493.0 | 382.3 | 285.5 | 18.0 |
| 38°   | 962.8  | 946.5  | 918.7  | 876.7 | 814.3 | 740.9 | 639.2 | 526.4 | 409.2 | 305.2 | 17.5 |
| 39°   | 990.8  | 973.9  | 945.6  | 903.7 | 842.7 | 769.8 | 669.1 | 554.8 | 432.6 | 320.0 | 16.7 |
| 40°   | 1011.9 | 995.6  | 966.8  | 923.9 | 863.6 | 792.7 | 694.1 | 579.9 | 452.2 | 332.8 | 15.7 |
| 41°   | 1025.0 | 1009.8 | 981.2  | 938.5 | 878.0 | 805.7 | 710.4 | 596.2 | 465.4 | 341.5 | 14.8 |
| 42°   | 1035.9 | 1020.4 | 991.2  | 947.5 | 886.9 | 816.8 | 720.3 | 606.6 | 474.4 | 345.9 | 14.0 |
| 43°   | 1042.0 | 1026.5 | 998.1  | 953.4 | 892.2 | 822.0 | 725.7 | 611.4 | 477.5 | 345.3 | 12.7 |
| 44°   | 1045.5 | 1029.4 | 1000.8 | 956.1 | 894.5 | 823.4 | 726.1 | 610.4 | 475.4 | 340.7 | 11.5 |
| 45°   | 1041.7 | 1025.7 | 998.1  | 953.4 | 890.5 | 819.1 | 722.3 | 605.2 | 467.3 | 331.7 | 10.2 |
| 46°   | 1016.7 | 1004.4 | 979.1  | 938.1 | 877.8 | 808.4 | 712.5 | 595.3 | 454.8 | 320.6 | 8.6  |
| 47°   | 972.8  | 963.0  | 938.5  | 908.0 | 853.5 | 788.6 | 694.4 | 576.3 | 437.4 | 303.9 | 6.9  |
| 48°   | 926.9  | 912.6  | 889.7  | 858.5 | 812.4 | 753.1 | 664.7 | 548.5 | 410.9 | 282.0 | 6.1  |
| 49°   | 859.2  | 850.8  | 830.6  | 795.7 | 757.6 | 705.4 | 622.7 | 512.8 | 378.5 | 258.2 | 5.4  |
| 50°   | 797.1  | 791.3  | 763.1  | 737.4 | 696.9 | 648.2 | 565.7 | 465.8 | 338.2 | 228.7 | 4.8  |
| 51°   | 748.5  | 741.6  | 721.3  | 689.3 | 646.1 | 589.5 | 511.8 | 404.8 | 292.0 | 193.6 | 3.8  |
| 52°   | 697.9  | 694.1  | 676.0  | 643.0 | 600.6 | 544.2 | 459.4 | 353.0 | 247.1 | 163.6 | 3.1  |
| 53°   | 656.5  | 650.9  | 628.8  | 599.5 | 553.6 | 495.3 | 402.7 | 304.8 | 209.3 | 137.5 | 2.7  |
| 54°   | 596.0  | 593.7  | 579.5  | 548.8 | 499.2 | 435.7 | 351.2 | 256.7 | 174.6 | 116.6 | 2.3  |
| 55°   | 531.8  | 524.1  | 509.7  | 485.3 | 439.7 | 380.4 | 291.8 | 212.7 | 141.2 | 98.2  | 1.7  |
| 56°   | 453.5  | 453.1  | 427.4  | 407.1 | 366.6 | 303.7 | 233.1 | 166.1 | 114.7 | 81.9  | 1.5  |
| 57°   | 378.7  | 366.6  | 341.8  | 321.7 | 278.2 | 230.4 | 173.0 | 124.5 | 89.8  | 66.4  | 1.2  |
| 58°   | 280.1  | 273.7  | 267.2  | 237.7 | 197.4 | 163.3 | 123.5 | 87.5  | 66.4  | 50.6  | 0.8  |
| 59°   | 190.1  | 189.9  | 182.2  | 159.8 | 136.6 | 101.7 | 77.1  | 59.5  | 45.7  | 37.2  | 0.6  |
| 60°   | 143.5  | 140.0  | 124.7  | 109.9 | 85.9  | 64.3  | 45.7  | 35.1  | 28.4  | 24.0  | 0.4  |
| 62.5° | 50.3   | 52.2   | 45.8   | 38.0  | 29.0  | 23.8  | 18.2  | 14.8  | 12.1  | 9.8   | 0.0  |
| 65°   | 10.4   | 11.3   | 9.8    | 9.2   | 7.3   | 6.3   | 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°    | 11.1  | 11.1 | 11.1   | 11.1 | 11.1   | 11.1 |
| 2.5°  | 11.7  | 11.3 | 10.7   | 10.6 | 10.4   | 10.4 |
| 5°    | 11.5  | 10.7 | 10.2   | 9.6  | 9.4    | 9.4  |
| 7.5°  | 10.9  | 10.0 | 9.2    | 8.8  | 8.6    | 8.4  |
| 10°   | 10.4  | 9.0  | 8.2    | 7.9  | 7.9    | 7.9  |
| 12.5° | 9.2   | 8.1  | 7.3    | 7.1  | 7.3    | 7.3  |
| 15°   | 8.2   | 6.9  | 6.5    | 6.5  | 6.7    | 6.9  |
| 17.5° | 7.1   | 6.1  | 5.8    | 5.9  | 6.1    | 6.3  |
| 20°   | 6.3   | 5.2  | 5.2    | 5.4  | 5.9    | 5.9  |
| 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  | 3.8    | 4.6  | 5.2    | 5.4  |
| 30°   | 3.6   | 3.1  | 3.6    | 4.4  | 5.0    | 5.4  |
| 31°   | 3.5   | 2.9  | 3.6    | 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    | 3.8  | 4.8    | 5.2  |
| 41°   | 1.3   | 1.9  | 2.9    | 3.8  | 4.8    | 5.2  |
| 42°   | 1.2   | 1.9  | 2.9    | 3.8  | 4.8    | 5.2  |
| 43°   | 1.0   | 1.7  | 2.9    | 3.8  | 4.8    | 5.2  |
| 44°   | 0.8   | 1.7  | 2.7    | 3.8  | 4.8    | 5.2  |
| 45°   | 0.8   | 1.7  | 2.7    | 3.8  | 4.8    | 5.2  |
| 46°   | 0.6   | 1.5  | 2.7    | 3.8  | 4.8    | 5.2  |
| 47°   | 0.4   | 1.5  | 2.7    | 3.6  | 4.8    | 5.2  |
| 48°   | 0.4   | 1.5  | 2.7    | 3.6  | 4.8    | 5.2  |
| 49°   | 0.4   | 1.5  | 2.5    | 3.6  | 4.8    | 5.2  |
| 50°   | 0.4   | 1.5  | 2.5    | 3.6  | 4.8    | 5.2  |
| 51°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.8    | 5.2  |
| 52°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.8    | 5.4  |
| 53°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.8    | 5.2  |
| 54°   | 0.2   | 1.3  | 2.3    | 3.6  | 4.8    | 5.2  |
| 55°   | 0.2   | 1.3  | 2.3    | 3.6  | 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: P1337563

CATALOG NUMBER: P3A05R25B2750DE010 E3A451H\_3000K

**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  | 3.6    | 4.0  |
| 75°   | 0.6   | 1.0 | 1.5    | 2.3  | 3.5    | 3.6  |
| 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)