

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: P1334382

Luminaire Tested: P3A02R209050DE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R209050DE010 E3A301WH  
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

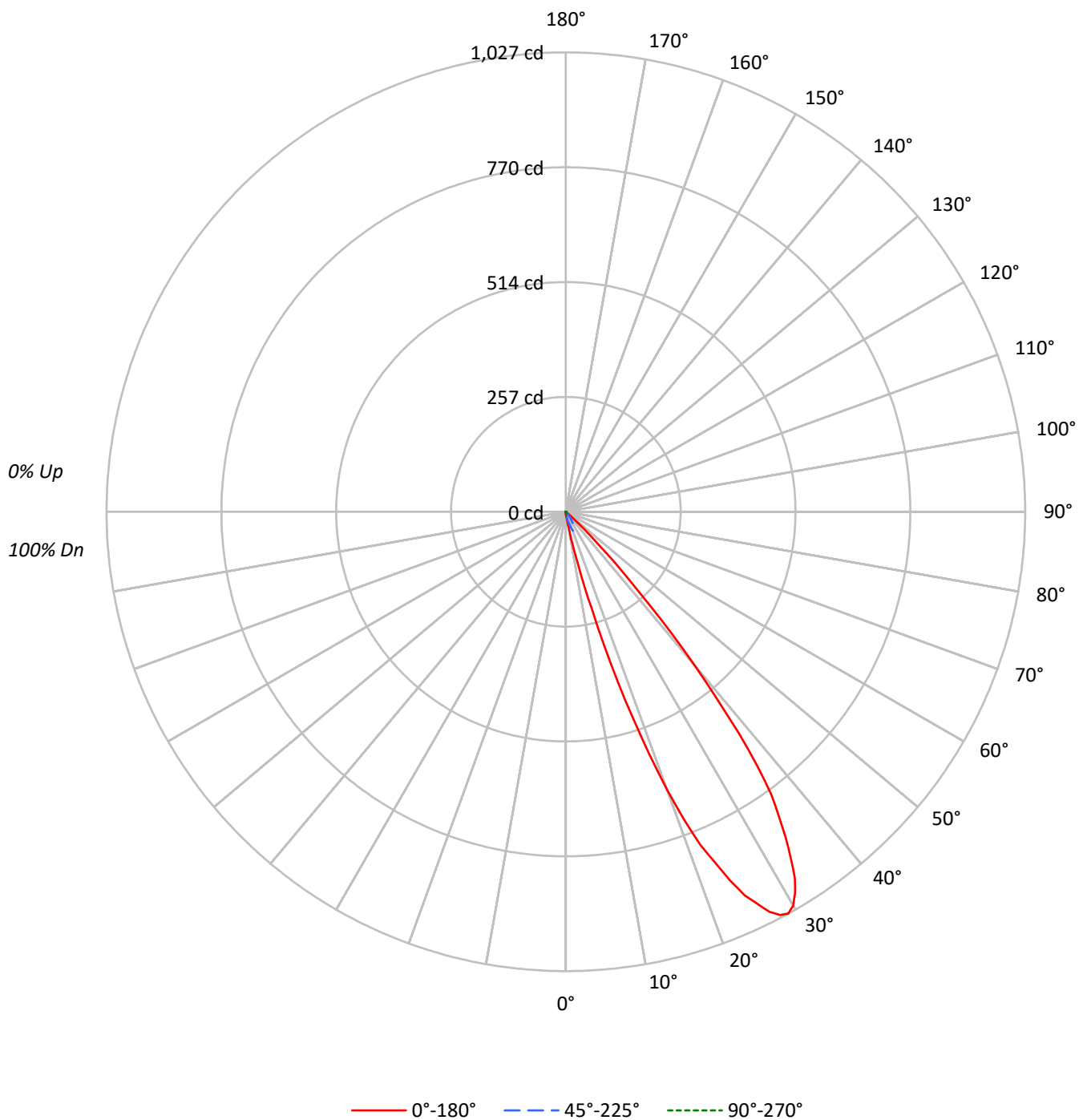
Lumens per Lamp: N/A  
Luminaire Lumens: 144.0 lumens  
Efficiency: N/A  
Efficacy: 40.0 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1334382

CATALOG NUMBER: P3A02R209050DE010 E3A301WH

### Luminous Intensity Polar Plot



TEST NUMBER: P1334382

CATALOG NUMBER: P3A02R209050DE010 E3A301WH

**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 | 100 |    |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1096   | 1096  | 1096 | 1096 | 1096 |
| 5°  | 2509   | 1871  | 1035 | 638  | 550  |
| 10° | 7882   | 3251  | 846  | 356  | 267  |
| 15° | 51079  | 6016  | 613  | 114  | 23   |
| 20° | 154130 | 10314 | 420  | 0    | 0    |
| 25° | 228908 | 10404 | 242  | 0    | 0    |
| 30° | 257432 | 7900  | 101  | 0    | 0    |
| 35° | 222104 | 4711  | 80   | 0    | 0    |
| 40° | 127897 | 1603  | 0    | 0    | 0    |
| 45° | 31197  | 651   | 31   | 0    | 31   |
| 50° | 3753   | 171   | 34   | 34   | 136  |
| 55° | 497    | 0     | 115  | 115  | 191  |
| 60° | 44     | 0     | 175  | 175  | 307  |
| 65° | 52     | 52    | 259  | 259  | 415  |
| 70° | 64     | 64    | 321  | 321  | 449  |
| 75° | 0      | 85    | 424  | 339  | 424  |
| 80° | 0      | 126   | 505  | 379  | 505  |
| 85° | 0      | 252   | 1006 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 31383 cd/sqm

TEST NUMBER: P1334382

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.5       |
| 10°-20°   | 13.3   | 9.3       |
| 20°-30°   | 58.2   | 40.4      |
| 30°-40°   | 58.6   | 40.7      |
| 40°-50°   | 11.7   | 8.2       |
| 50°-60°   | 0.6    | 0.4       |
| 60°-70°   | 0.4    | 0.3       |
| 70°-80°   | 0.3    | 0.2       |
| 80°-90°   | 0.2    | 0.1       |
| 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°    | 72.2   | 50.1      |
| 0°-40°    | 130.8  | 90.8      |
| 0°-60°    | 143.1  | 99.4      |
| 0°-90°    | 144.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 144.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 5   | 5   | 5   | 5    | 5    |      |
| 5°  | 11  | 8   | 5   | 3    | 2    | 2    |
| 15° | 225 | 26  | 3   | 0    | 0    | 88   |
| 25° | 946 | 43  | 1   | 0    | 0    | 427  |
| 35° | 830 | 18  | 0   | 0    | 0    | 494  |
| 45° | 101 | 2   | 0   | 0    | 0    | 110  |
| 55° | 1   | 0   | 0   | 0    | 0    | 2    |
| 65° | 0   | 0   | 0   | 0    | 1    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334382

CATALOG NUMBER: P3A02R209050DE010 E3A301WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 5.0    | 5.0    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0  |
| 2.5°  | 7.4    | 7.4    | 7.3   | 7.3   | 7.2   | 7.3   | 7.1   | 7.2   | 7.2   | 7.1   | 6.4  |
| 5°    | 11.4   | 11.6   | 11.5  | 11.5  | 11.4  | 11.5  | 11.2  | 11.0  | 10.7  | 10.7  | 8.5  |
| 7.5°  | 18.7   | 18.6   | 18.3  | 18.4  | 18.0  | 17.8  | 17.5  | 17.4  | 16.6  | 16.2  | 11.1 |
| 10°   | 35.4   | 36.2   | 35.5  | 35.4  | 33.1  | 32.9  | 31.4  | 29.1  | 27.2  | 26.1  | 14.6 |
| 12.5° | 97.5   | 101.6  | 95.1  | 92.0  | 90.1  | 83.1  | 80.1  | 72.4  | 64.9  | 59.3  | 18.6 |
| 15°   | 225.0  | 235.3  | 222.1 | 223.0 | 212.0 | 191.9 | 174.3 | 159.1 | 141.2 | 123.2 | 26.5 |
| 17.5° | 440.8  | 432.4  | 425.2 | 413.1 | 390.8 | 361.2 | 323.2 | 284.7 | 251.4 | 216.5 | 37.0 |
| 20°   | 660.5  | 653.1  | 636.7 | 610.2 | 581.7 | 538.0 | 492.8 | 434.9 | 378.9 | 326.3 | 44.2 |
| 21°   | 736.2  | 733.7  | 706.9 | 690.6 | 646.7 | 604.9 | 552.7 | 490.8 | 427.7 | 365.5 | 45.3 |
| 22°   | 803.7  | 788.8  | 774.4 | 750.3 | 706.6 | 661.2 | 603.2 | 538.0 | 469.5 | 400.4 | 45.5 |
| 23°   | 850.5  | 843.7  | 830.1 | 802.8 | 759.4 | 706.0 | 644.8 | 576.7 | 504.5 | 425.1 | 45.1 |
| 24°   | 902.2  | 893.6  | 873.7 | 841.9 | 798.1 | 745.3 | 675.6 | 607.9 | 529.5 | 445.9 | 44.0 |
| 25°   | 946.1  | 932.7  | 909.1 | 874.8 | 827.0 | 772.5 | 702.3 | 628.0 | 546.9 | 459.9 | 43.0 |
| 26°   | 974.6  | 967.3  | 937.1 | 899.7 | 848.5 | 792.3 | 720.8 | 643.4 | 558.1 | 466.3 | 41.3 |
| 27°   | 1004.2 | 990.8  | 961.1 | 918.2 | 862.6 | 805.3 | 731.2 | 650.9 | 562.0 | 466.5 | 39.2 |
| 28°   | 1021.2 | 1006.6 | 973.0 | 927.8 | 871.8 | 812.5 | 737.2 | 653.2 | 561.2 | 462.5 | 36.7 |
| 29°   | 1026.6 | 1008.2 | 975.4 | 929.4 | 874.0 | 813.0 | 736.3 | 649.8 | 554.3 | 452.5 | 33.8 |
| 30°   | 1016.7 | 997.8  | 966.8 | 921.9 | 866.9 | 806.5 | 727.8 | 638.6 | 542.0 | 438.3 | 31.2 |
| 31°   | 995.0  | 979.0  | 949.0 | 904.0 | 851.3 | 791.2 | 708.6 | 620.2 | 521.1 | 419.2 | 28.2 |
| 32°   | 966.4  | 950.7  | 921.2 | 880.5 | 826.8 | 766.2 | 682.3 | 591.4 | 496.6 | 390.8 | 25.2 |
| 33°   | 923.4  | 914.4  | 887.8 | 849.0 | 795.3 | 730.6 | 647.1 | 557.1 | 461.6 | 359.1 | 22.6 |
| 34°   | 879.9  | 868.5  | 850.0 | 807.5 | 749.8 | 685.1 | 601.1 | 509.6 | 418.8 | 323.7 | 20.1 |
| 35°   | 829.7  | 822.9  | 793.8 | 759.8 | 701.8 | 635.7 | 552.2 | 463.5 | 369.1 | 284.3 | 17.6 |
| 36°   | 781.1  | 770.7  | 737.5 | 701.5 | 645.2 | 573.8 | 491.3 | 408.0 | 326.1 | 247.3 | 15.0 |
| 37°   | 710.6  | 694.6  | 671.0 | 633.1 | 567.2 | 506.4 | 431.1 | 353.8 | 273.2 | 207.3 | 12.1 |
| 38°   | 627.6  | 620.2  | 587.4 | 549.2 | 494.7 | 437.0 | 362.5 | 296.9 | 225.4 | 173.1 | 9.3  |
| 39°   | 529.8  | 529.6  | 498.3 | 470.7 | 417.4 | 365.4 | 298.3 | 241.0 | 186.0 | 139.4 | 7.2  |
| 40°   | 446.8  | 431.4  | 412.0 | 377.4 | 336.5 | 292.4 | 233.6 | 188.6 | 144.4 | 112.4 | 5.6  |
| 42.5° | 234.2  | 232.9  | 221.6 | 195.6 | 172.7 | 146.7 | 116.7 | 97.2  | 76.0  | 61.9  | 3.5  |
| 45°   | 100.6  | 101.2  | 93.4  | 89.5  | 80.6  | 69.8  | 58.9  | 49.1  | 42.1  | 34.1  | 2.1  |
| 47.5° | 25.5   | 24.4   | 24.2  | 25.1  | 25.1  | 24.3  | 21.8  | 20.5  | 18.9  | 17.4  | 1.2  |
| 50°   | 11.0   | 10.7   | 10.5  | 10.5  | 9.8   | 9.4   | 8.8   | 8.0   | 7.3   | 6.5   | 0.5  |
| 52.5° | 4.0    | 4.2    | 4.3   | 4.2   | 4.2   | 4.0   | 4.0   | 3.9   | 3.5   | 3.1   | 0.3  |
| 55°   | 1.3    | 1.3    | 1.3   | 1.4   | 1.4   | 1.6   | 1.6   | 1.6   | 1.6   | 1.4   | 0.0  |
| 57.5° | 0.3    | 0.3    | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5   | 0.5   | 0.0  |
| 60°   | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0  |
| 62.5° | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 65°   | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 67.5° | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 70°   | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 72.5° | 0.1    | 0.0    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 75°   | 0.0    | 0.0    | 0.0   | 0.1   | 0.0   | 0.1   | 0.1   | 0.0   | 0.1   | 0.1   | 0.1  |
| 77.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1  |
| 80°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P1334382

CATALOG NUMBER: P3A02R209050DE010 E3A301WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 5.0   | 5.0 | 5.0    | 5.0  | 5.0    | 5.0  |
| 2.5°  | 5.7   | 5.1 | 4.3    | 3.7  | 3.5    | 3.4  |
| 5°    | 6.4   | 4.7 | 3.5    | 2.9  | 2.6    | 2.5  |
| 7.5°  | 6.9   | 4.3 | 2.9    | 2.1  | 1.8    | 1.7  |
| 10°   | 7.2   | 3.8 | 2.4    | 1.6  | 1.2    | 1.2  |
| 12.5° | 7.3   | 3.3 | 1.7    | 1.0  | 0.7    | 0.7  |
| 15°   | 7.2   | 2.7 | 1.3    | 0.5  | 0.1    | 0.1  |
| 17.5° | 6.5   | 2.2 | 0.8    | 0.1  | 0.0    | 0.0  |
| 20°   | 5.6   | 1.8 | 0.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 5.4   | 1.6 | 0.4    | 0.0  | 0.0    | 0.0  |
| 22°   | 5.0   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 23°   | 4.6   | 1.3 | 0.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 4.2   | 1.2 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.9   | 1.0 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.7   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 3.3   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 3.0   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.6   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.2   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.0   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.8   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.7   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.4   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.4   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.1   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.1  |
| 47.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.3  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.3    | 0.4  |
| 52.5° | 0.0   | 0.3 | 0.1    | 0.1  | 0.4    | 0.4  |
| 55°   | 0.1   | 0.3 | 0.1    | 0.3  | 0.5    | 0.5  |
| 57.5° | 0.1   | 0.3 | 0.3    | 0.4  | 0.5    | 0.7  |
| 60°   | 0.3   | 0.4 | 0.4    | 0.4  | 0.7    | 0.7  |
| 62.5° | 0.3   | 0.4 | 0.5    | 0.5  | 0.7    | 0.8  |
| 65°   | 0.3   | 0.5 | 0.5    | 0.5  | 0.7    | 0.8  |
| 67.5° | 0.4   | 0.5 | 0.5    | 0.5  | 0.7    | 0.8  |
| 70°   | 0.4   | 0.5 | 0.5    | 0.5  | 0.7    | 0.7  |
| 72.5° | 0.4   | 0.5 | 0.4    | 0.5  | 0.5    | 0.7  |
| 75°   | 0.4   | 0.5 | 0.4    | 0.4  | 0.5    | 0.5  |
| 77.5° | 0.3   | 0.4 | 0.4    | 0.3  | 0.4    | 0.4  |
| 80°   | 0.3   | 0.4 | 0.3    | 0.3  | 0.4    | 0.4  |



TEST NUMBER: P1334382

CATALOG NUMBER: P3A02R209050DE010 E3A301WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.3   | 0.4 | 0.3    | 0.1  | 0.3    | 0.3  |
| 85°   | 0.3   | 0.4 | 0.3    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.3   | 0.4 | 0.3    | 0.1  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)