

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: P1336937

Luminaire Tested: P3A05R209740DE010 E3A451GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R209740DE010 E3A451GPH  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

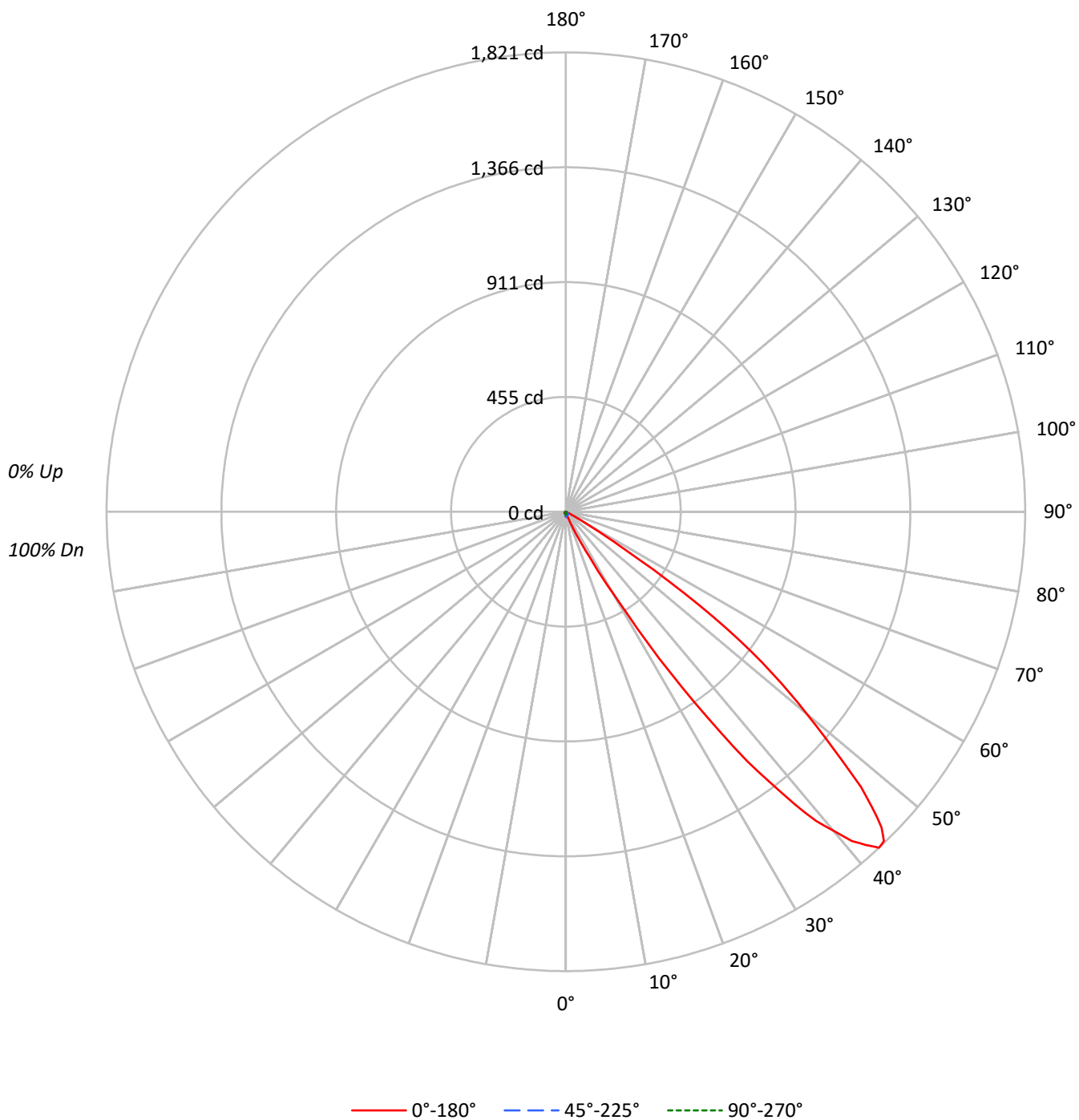
Lumens per Lamp: N/A  
Luminaire Lumens: 253.0 lumens  
Efficiency: N/A  
Efficacy: 35.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1336937

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### Luminous Intensity Polar Plot



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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3859   | 3859 | 3859 | 3859 | 3859 |
| 5°  | 4490   | 4182 | 3610 | 3148 | 3038 |
| 10° | 4453   | 3808 | 2850 | 2427 | 2382 |
| 15° | 3882   | 2906 | 2111 | 1952 | 2043 |
| 20° | 5764   | 2450 | 1563 | 1657 | 1820 |
| 25° | 24848  | 2540 | 1210 | 1500 | 1790 |
| 30° | 93964  | 3064 | 1013 | 1443 | 1747 |
| 35° | 284878 | 3694 | 964  | 1472 | 1847 |
| 40° | 472399 | 3664 | 830  | 1574 | 1975 |
| 45° | 549080 | 2512 | 744  | 1613 | 2140 |
| 50° | 426221 | 1365 | 716  | 1706 | 2422 |
| 55° | 246701 | 918  | 726  | 1912 | 2638 |
| 60° | 41707  | 219  | 614  | 1974 | 2938 |
| 65° | 3217   | 0    | 726  | 2231 | 3321 |
| 70° | 449    | 0    | 898  | 2436 | 3783 |
| 75° | 424    | 169  | 1017 | 2796 | 4406 |
| 80° | 253    | 253  | 1515 | 3031 | 5051 |
| 85° | 503    | 503  | 2516 | 3019 | 5284 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 549080 cd/sqm

TEST NUMBER: P1336937

CATALOG NUMBER: P3A05R209740DE010 E3A451GPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.5    | 0.6       |
| 10°-20°   | 3.2    | 1.3       |
| 20°-30°   | 10.1   | 4.0       |
| 30°-40°   | 64.5   | 25.5      |
| 40°-50°   | 118.1  | 46.7      |
| 50°-60°   | 48.5   | 19.2      |
| 60°-70°   | 4.1    | 1.6       |
| 70°-80°   | 2.0    | 0.8       |
| 80°-90°   | 1.0    | 0.4       |
| 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°    | 14.8   | 5.8       |
| 0°-40°    | 79.3   | 31.3      |
| 0°-60°    | 245.9  | 97.2      |
| 0°-90°    | 253.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 253.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 20   | 19  | 16  | 14   | 14   | 2    |
| 15° | 17   | 13  | 9   | 9    | 9    | 5    |
| 25° | 103  | 10  | 5   | 6    | 7    | 68   |
| 35° | 1064 | 14  | 4   | 6    | 7    | 674  |
| 45° | 1771 | 8   | 2   | 5    | 7    | 1271 |
| 55° | 645  | 2   | 2   | 5    | 7    | 564  |
| 65° | 6    | 0   | 1   | 4    | 6    | 20   |
| 75° | 0    | 0   | 1   | 3    | 5    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1336937

CATALOG NUMBER: P3A05R209740DE010 E3A451GPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 17.6   | 17.6   | 17.6   | 17.6   | 17.6   | 17.6   | 17.6  | 17.6  | 17.6  | 17.6  | 17.6 |
| 2.5°  | 19.3   | 19.3   | 19.3   | 19.0   | 19.0   | 19.3   | 19.0  | 19.0  | 19.0  | 19.0  | 18.8 |
| 5°    | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4  | 20.2  | 20.2  | 20.0  | 19.0 |
| 7.5°  | 20.9   | 20.9   | 20.9   | 20.9   | 20.7   | 20.7   | 20.7  | 20.7  | 20.4  | 20.2  | 18.5 |
| 10°   | 20.0   | 20.0   | 20.0   | 19.7   | 19.7   | 19.7   | 19.5  | 19.5  | 19.3  | 19.0  | 17.1 |
| 12.5° | 18.1   | 18.1   | 18.1   | 18.1   | 17.8   | 17.8   | 17.6  | 17.6  | 17.4  | 17.1  | 15.0 |
| 15°   | 17.1   | 17.1   | 17.1   | 16.9   | 16.9   | 16.6   | 16.4  | 16.2  | 15.9  | 15.5  | 12.8 |
| 17.5° | 18.5   | 18.5   | 18.3   | 18.3   | 17.8   | 17.4   | 17.1  | 16.4  | 15.9  | 15.2  | 11.4 |
| 20°   | 24.7   | 25.0   | 24.0   | 23.3   | 22.8   | 21.4   | 20.7  | 19.5  | 18.5  | 17.4  | 10.5 |
| 22.5° | 49.9   | 49.0   | 47.3   | 44.7   | 41.6   | 39.0   | 34.2  | 30.4  | 27.8  | 24.3  | 10.2 |
| 25°   | 102.7  | 101.8  | 97.2   | 93.4   | 83.9   | 76.6   | 66.3  | 58.0  | 49.5  | 41.1  | 10.5 |
| 27.5° | 195.2  | 188.8  | 187.6  | 170.2  | 156.9  | 137.9  | 118.2 | 101.5 | 86.3  | 69.4  | 11.2 |
| 30°   | 371.1  | 363.8  | 337.9  | 311.7  | 275.8  | 235.1  | 196.4 | 160.3 | 130.1 | 102.7 | 12.1 |
| 31°   | 471.0  | 478.1  | 447.7  | 395.2  | 342.1  | 290.1  | 237.0 | 191.2 | 152.2 | 118.2 | 12.6 |
| 32°   | 619.1  | 588.0  | 555.9  | 501.9  | 424.9  | 358.3  | 291.7 | 225.6 | 174.3 | 134.8 | 13.1 |
| 33°   | 759.2  | 740.9  | 691.9  | 624.6  | 532.1  | 438.7  | 352.4 | 266.3 | 201.4 | 155.0 | 13.3 |
| 34°   | 908.5  | 888.3  | 848.6  | 752.0  | 650.5  | 528.1  | 413.0 | 313.1 | 233.7 | 174.8 | 13.6 |
| 35°   | 1064.2 | 1055.7 | 979.1  | 895.4  | 770.6  | 622.9  | 486.0 | 364.5 | 265.3 | 192.8 | 13.8 |
| 36°   | 1220.9 | 1193.3 | 1133.4 | 1011.2 | 880.9  | 710.7  | 562.5 | 412.3 | 297.4 | 214.2 | 13.8 |
| 37°   | 1338.8 | 1332.6 | 1253.2 | 1134.1 | 981.0  | 804.3  | 628.6 | 465.3 | 329.8 | 232.5 | 13.8 |
| 38°   | 1468.9 | 1444.4 | 1363.8 | 1242.5 | 1075.2 | 890.2  | 697.8 | 511.4 | 360.4 | 249.2 | 13.6 |
| 39°   | 1578.5 | 1542.1 | 1460.8 | 1341.0 | 1157.4 | 955.3  | 752.8 | 556.1 | 387.5 | 263.0 | 13.3 |
| 40°   | 1650.3 | 1625.1 | 1540.2 | 1405.4 | 1232.1 | 1016.9 | 808.4 | 593.0 | 407.8 | 273.4 | 12.8 |
| 41°   | 1729.5 | 1687.6 | 1603.7 | 1468.2 | 1286.3 | 1071.1 | 843.3 | 617.2 | 423.5 | 280.3 | 12.4 |
| 42°   | 1776.8 | 1742.5 | 1642.9 | 1510.3 | 1325.0 | 1102.0 | 871.9 | 635.8 | 433.0 | 283.9 | 11.4 |
| 43°   | 1821.0 | 1774.4 | 1677.4 | 1534.7 | 1350.7 | 1123.9 | 884.9 | 644.3 | 435.1 | 283.9 | 10.2 |
| 44°   | 1815.1 | 1770.8 | 1670.3 | 1538.1 | 1356.4 | 1130.3 | 890.4 | 644.6 | 431.8 | 280.3 | 9.0  |
| 45°   | 1770.6 | 1726.6 | 1636.0 | 1509.1 | 1336.0 | 1117.7 | 879.5 | 635.1 | 422.5 | 274.1 | 8.1  |
| 46°   | 1689.1 | 1645.3 | 1575.9 | 1460.6 | 1297.9 | 1089.2 | 854.0 | 614.4 | 407.0 | 264.2 | 7.1  |
| 47°   | 1600.4 | 1557.8 | 1486.7 | 1382.3 | 1233.0 | 1038.3 | 817.2 | 585.4 | 385.4 | 249.6 | 6.4  |
| 48°   | 1471.7 | 1445.1 | 1373.8 | 1284.6 | 1142.9 | 958.7  | 752.5 | 538.1 | 356.4 | 230.9 | 5.5  |
| 49°   | 1358.1 | 1330.0 | 1267.5 | 1171.7 | 1025.5 | 865.9  | 675.2 | 480.5 | 318.6 | 209.9 | 4.8  |
| 50°   | 1249.4 | 1224.9 | 1167.2 | 1059.0 | 919.4  | 753.9  | 570.9 | 408.0 | 271.0 | 184.0 | 4.0  |
| 51°   | 1143.2 | 1124.8 | 1065.9 | 966.5  | 824.8  | 667.9  | 494.5 | 339.8 | 224.0 | 152.6 | 3.8  |
| 52°   | 1036.4 | 1034.3 | 970.3  | 869.7  | 732.8  | 582.0  | 420.4 | 286.7 | 190.0 | 128.2 | 3.6  |
| 53°   | 921.6  | 907.8  | 851.9  | 761.5  | 630.1  | 492.6  | 356.4 | 241.8 | 163.6 | 109.1 | 3.1  |
| 54°   | 790.8  | 775.3  | 715.4  | 633.9  | 514.8  | 403.5  | 287.2 | 195.4 | 136.2 | 92.3  | 2.9  |
| 55°   | 645.3  | 618.9  | 575.4  | 491.7  | 402.1  | 307.9  | 221.8 | 154.8 | 108.9 | 76.8  | 2.4  |
| 56°   | 489.5  | 463.2  | 438.7  | 377.1  | 295.1  | 229.7  | 165.2 | 118.6 | 85.1  | 60.6  | 2.1  |
| 57°   | 340.5  | 339.0  | 298.9  | 251.6  | 197.3  | 156.4  | 113.2 | 83.7  | 60.2  | 47.1  | 1.7  |
| 58°   | 220.9  | 213.5  | 187.8  | 160.5  | 129.1  | 97.7   | 72.8  | 56.8  | 40.9  | 32.1  | 1.4  |
| 59°   | 154.8  | 140.0  | 126.3  | 107.0  | 81.3   | 61.6   | 46.8  | 36.4  | 28.3  | 22.3  | 1.0  |
| 60°   | 95.1   | 92.0   | 82.7   | 65.1   | 52.8   | 43.5   | 35.0  | 26.9  | 20.7  | 15.9  | 0.5  |
| 62.5° | 27.1   | 27.6   | 25.0   | 22.1   | 19.0   | 16.4   | 14.7  | 12.6  | 10.5  | 8.3   | 0.0  |
| 65°   | 6.2    | 5.9    | 6.4    | 5.9    | 5.5    | 5.5    | 4.8   | 4.3   | 3.8   | 3.6   | 0.0  |



TEST NUMBER: P1336937

CATALOG NUMBER: P3A05R209740DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 1.9 | 1.9  | 1.7 | 1.7  | 1.7 | 1.4   | 1.4 | 1.2   | 1.2 | 1.0   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.2   | 0.5 | 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   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 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 |

TEST NUMBER: P1336937

CATALOG NUMBER: P3A05R209740DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 17.6  | 17.6 | 17.6   | 17.6 | 17.6   | 17.6 |
| 2.5°  | 18.3  | 17.4 | 16.6   | 15.9 | 15.7   | 15.7 |
| 5°    | 17.8  | 16.4 | 15.0   | 14.3 | 13.8   | 13.8 |
| 7.5°  | 16.4  | 14.7 | 13.3   | 12.6 | 12.4   | 12.4 |
| 10°   | 14.7  | 12.8 | 11.4   | 10.9 | 10.9   | 10.7 |
| 12.5° | 12.8  | 10.9 | 10.0   | 9.7  | 9.7    | 9.7  |
| 15°   | 10.7  | 9.3  | 8.6    | 8.6  | 8.8    | 9.0  |
| 17.5° | 9.0   | 7.6  | 7.4    | 7.8  | 8.3    | 8.3  |
| 20°   | 7.6   | 6.7  | 6.7    | 7.1  | 7.6    | 7.8  |
| 22.5° | 6.4   | 5.7  | 5.9    | 6.7  | 7.4    | 7.6  |
| 25°   | 5.7   | 5.0  | 5.5    | 6.2  | 6.9    | 7.4  |
| 27.5° | 4.8   | 4.5  | 5.0    | 5.9  | 6.9    | 7.1  |
| 30°   | 4.0   | 4.0  | 4.8    | 5.7  | 6.7    | 6.9  |
| 31°   | 3.8   | 3.8  | 4.8    | 5.7  | 6.7    | 6.9  |
| 32°   | 3.6   | 3.8  | 4.5    | 5.7  | 6.7    | 6.9  |
| 33°   | 3.3   | 3.6  | 4.5    | 5.5  | 6.7    | 6.9  |
| 34°   | 3.1   | 3.6  | 4.5    | 5.5  | 6.7    | 6.9  |
| 35°   | 2.9   | 3.6  | 4.5    | 5.5  | 6.7    | 6.9  |
| 36°   | 2.6   | 3.3  | 4.3    | 5.5  | 6.7    | 6.9  |
| 37°   | 2.4   | 3.3  | 4.3    | 5.5  | 6.7    | 6.9  |
| 38°   | 2.1   | 3.1  | 4.3    | 5.5  | 6.7    | 6.9  |
| 39°   | 2.1   | 3.1  | 4.0    | 5.5  | 6.4    | 6.9  |
| 40°   | 1.9   | 2.9  | 4.0    | 5.5  | 6.4    | 6.9  |
| 41°   | 1.7   | 2.9  | 4.0    | 5.2  | 6.4    | 6.9  |
| 42°   | 1.4   | 2.6  | 3.8    | 5.2  | 6.4    | 6.9  |
| 43°   | 1.2   | 2.6  | 3.8    | 5.2  | 6.4    | 6.9  |
| 44°   | 1.2   | 2.4  | 3.8    | 5.2  | 6.4    | 6.9  |
| 45°   | 1.0   | 2.4  | 3.8    | 5.2  | 6.4    | 6.9  |
| 46°   | 0.7   | 2.4  | 3.8    | 5.2  | 6.4    | 6.9  |
| 47°   | 0.7   | 2.1  | 3.6    | 5.2  | 6.4    | 6.9  |
| 48°   | 0.5   | 2.1  | 3.6    | 5.2  | 6.4    | 6.9  |
| 49°   | 0.5   | 2.1  | 3.6    | 5.2  | 6.4    | 7.1  |
| 50°   | 0.5   | 2.1  | 3.6    | 5.0  | 6.4    | 7.1  |
| 51°   | 0.2   | 2.1  | 3.6    | 5.0  | 6.4    | 7.1  |
| 52°   | 0.2   | 2.1  | 3.3    | 5.0  | 6.7    | 7.1  |
| 53°   | 0.2   | 1.9  | 3.3    | 5.0  | 6.7    | 7.1  |
| 54°   | 0.2   | 1.9  | 3.3    | 5.0  | 6.7    | 6.9  |
| 55°   | 0.2   | 1.9  | 3.3    | 5.0  | 6.4    | 6.9  |
| 56°   | 0.2   | 1.7  | 3.3    | 5.0  | 6.4    | 6.9  |
| 57°   | 0.2   | 1.7  | 3.1    | 4.8  | 6.4    | 6.7  |
| 58°   | 0.2   | 1.7  | 3.1    | 4.8  | 6.4    | 6.7  |
| 59°   | 0.2   | 1.7  | 3.1    | 4.8  | 6.2    | 6.7  |
| 60°   | 0.5   | 1.4  | 2.9    | 4.5  | 6.2    | 6.7  |
| 62.5° | 0.5   | 1.4  | 2.9    | 4.5  | 5.9    | 6.4  |
| 65°   | 0.5   | 1.4  | 2.6    | 4.3  | 5.9    | 6.4  |



TEST NUMBER: P1336937

CATALOG NUMBER: P3A05R209740DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.2 | 2.4    | 4.0  | 5.7    | 6.2  |
| 70°   | 0.5   | 1.4 | 2.4    | 3.8  | 5.5    | 5.9  |
| 72.5° | 0.7   | 1.2 | 2.1    | 3.6  | 5.2    | 5.7  |
| 75°   | 0.7   | 1.2 | 2.1    | 3.3  | 5.0    | 5.2  |
| 77.5° | 1.0   | 1.2 | 1.9    | 2.9  | 4.5    | 4.8  |
| 80°   | 1.0   | 1.2 | 1.7    | 2.4  | 3.8    | 4.0  |
| 82.5° | 1.0   | 1.2 | 1.2    | 1.9  | 2.9    | 3.1  |
| 85°   | 0.7   | 1.0 | 1.0    | 1.2  | 1.9    | 2.1  |
| 87.5° | 0.7   | 1.0 | 0.7    | 0.5  | 1.0    | 1.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)