

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: P1336923

Luminaire Tested: P3A05R209735DE010 E3A451LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336923  
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: P3A05R209735DE010 E3A451LI  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

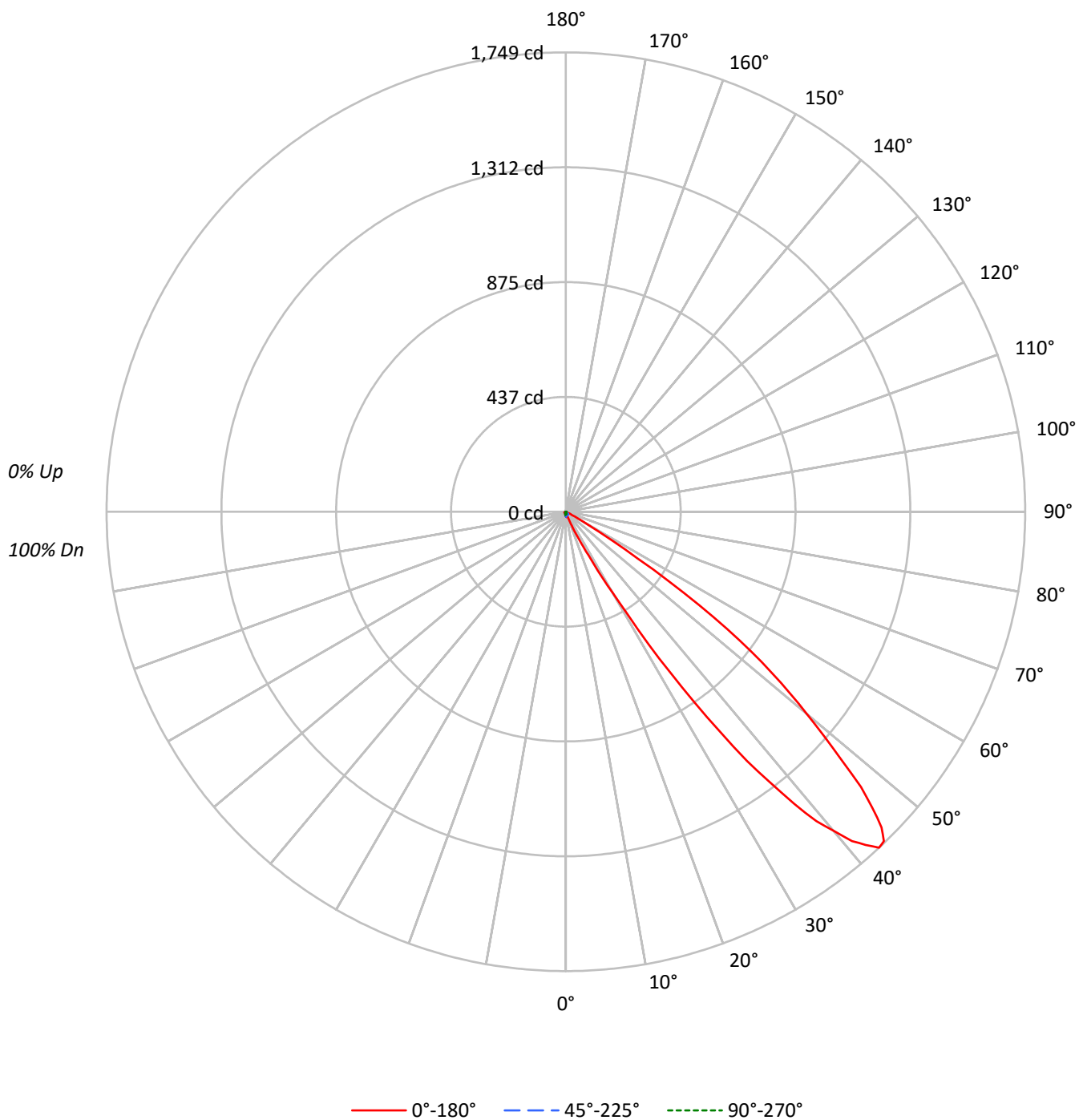
Lumens per Lamp: N/A  
Luminaire Lumens: 243.0 lumens  
Efficiency: N/A  
Efficacy: 33.8 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1336923

CATALOG NUMBER: P3A05R209735DE010 E3A451LI

### 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  |     |    | 0  |
| 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   | 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  | 65  | 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  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 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  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3706   | 3706 | 3706 | 3706 | 3706 |
| 5°  | 4314   | 4028 | 3478 | 3016 | 2906 |
| 10° | 4275   | 3652 | 2739 | 2338 | 2293 |
| 15° | 3723   | 2792 | 2020 | 1862 | 1975 |
| 20° | 5530   | 2334 | 1493 | 1610 | 1750 |
| 25° | 23880  | 2419 | 1161 | 1428 | 1718 |
| 30° | 90267  | 2937 | 987  | 1393 | 1671 |
| 35° | 273635 | 3534 | 910  | 1419 | 1767 |
| 40° | 453736 | 3521 | 773  | 1517 | 1889 |
| 45° | 527373 | 2419 | 713  | 1551 | 2047 |
| 50° | 409368 | 1330 | 716  | 1637 | 2354 |
| 55° | 236952 | 879  | 688  | 1835 | 2523 |
| 60° | 40041  | 219  | 614  | 1886 | 2807 |
| 65° | 3061   | 0    | 726  | 2127 | 3217 |
| 70° | 449    | 0    | 898  | 2372 | 3654 |
| 75° | 424    | 169  | 932  | 2711 | 4236 |
| 80° | 253    | 253  | 1389 | 2904 | 4925 |
| 85° | 503    | 503  | 2264 | 2768 | 5284 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 527373 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.5    | 0.6       |
| 10°-20°   | 3.0    | 1.3       |
| 20°-30°   | 9.7    | 4.0       |
| 30°-40°   | 62.0   | 25.5      |
| 40°-50°   | 113.4  | 46.7      |
| 50°-60°   | 46.6   | 19.2      |
| 60°-70°   | 3.9    | 1.6       |
| 70°-80°   | 2.0    | 0.8       |
| 80°-90°   | 0.9    | 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°    | 14.2   | 5.8       |
| 0°-40°    | 76.2   | 31.3      |
| 0°-60°    | 236.2  | 97.2      |
| 0°-90°    | 243.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 243.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 17   | 17  | 17  | 17   | 17   |      |
| 5°  | 20   | 18  | 16  | 14   | 13   | 2    |
| 15° | 16   | 12  | 9   | 8    | 9    | 5    |
| 25° | 99   | 10  | 5   | 6    | 7    | 65   |
| 35° | 1022 | 13  | 3   | 5    | 7    | 647  |
| 45° | 1701 | 8   | 2   | 5    | 7    | 1221 |
| 55° | 620  | 2   | 2   | 5    | 7    | 542  |
| 65° | 6    | 0   | 1   | 4    | 6    | 19   |
| 75° | 0    | 0   | 1   | 3    | 5    | 1    |
| 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°    | 16.9   | 16.9   | 16.9   | 16.9   | 16.9   | 16.9   | 16.9  | 16.9  | 16.9  | 16.9  | 16.9 |
| 2.5°  | 18.5   | 18.5   | 18.5   | 18.3   | 18.3   | 18.5   | 18.3  | 18.3  | 18.3  | 18.3  | 18.0 |
| 5°    | 19.6   | 19.6   | 19.6   | 19.6   | 19.6   | 19.6   | 19.6  | 19.4  | 19.4  | 19.2  | 18.3 |
| 7.5°  | 20.1   | 20.1   | 20.1   | 20.1   | 19.9   | 19.9   | 19.9  | 19.9  | 19.6  | 19.4  | 17.8 |
| 10°   | 19.2   | 19.2   | 19.2   | 19.0   | 19.0   | 19.0   | 18.7  | 18.7  | 18.5  | 18.3  | 16.4 |
| 12.5° | 17.4   | 17.4   | 17.4   | 17.4   | 17.1   | 17.1   | 16.9  | 16.9  | 16.7  | 16.4  | 14.4 |
| 15°   | 16.4   | 16.4   | 16.4   | 16.2   | 16.2   | 16.0   | 15.8  | 15.5  | 15.3  | 14.8  | 12.3 |
| 17.5° | 17.8   | 17.8   | 17.6   | 17.6   | 17.1   | 16.7   | 16.4  | 15.8  | 15.3  | 14.6  | 11.0 |
| 20°   | 23.7   | 24.0   | 23.1   | 22.4   | 21.9   | 20.6   | 19.9  | 18.7  | 17.8  | 16.7  | 10.0 |
| 22.5° | 48.0   | 47.0   | 45.4   | 42.9   | 40.0   | 37.5   | 32.9  | 29.2  | 26.7  | 23.3  | 9.8  |
| 25°   | 98.7   | 97.7   | 93.4   | 89.7   | 80.6   | 73.5   | 63.7  | 55.7  | 47.5  | 39.5  | 10.0 |
| 27.5° | 187.5  | 181.3  | 180.2  | 163.5  | 150.7  | 132.5  | 113.5 | 97.5  | 82.9  | 66.7  | 10.7 |
| 30°   | 356.5  | 349.4  | 324.5  | 299.4  | 264.9  | 225.9  | 188.6 | 153.9 | 124.9 | 98.7  | 11.6 |
| 31°   | 452.4  | 459.2  | 430.0  | 379.5  | 328.6  | 278.6  | 227.7 | 183.6 | 146.2 | 113.5 | 12.1 |
| 32°   | 594.7  | 564.7  | 533.9  | 482.1  | 408.1  | 344.1  | 280.2 | 216.7 | 167.4 | 129.5 | 12.6 |
| 33°   | 729.2  | 711.6  | 664.5  | 599.9  | 511.1  | 421.3  | 338.4 | 255.8 | 193.4 | 148.9 | 12.8 |
| 34°   | 872.6  | 853.2  | 815.0  | 722.3  | 624.8  | 507.2  | 396.7 | 300.8 | 224.5 | 167.8 | 13.0 |
| 35°   | 1022.2 | 1013.9 | 940.4  | 860.0  | 740.1  | 598.3  | 466.8 | 350.1 | 254.9 | 185.2 | 13.2 |
| 36°   | 1172.6 | 1146.2 | 1088.6 | 971.2  | 846.1  | 682.6  | 540.3 | 396.0 | 285.7 | 205.8 | 13.2 |
| 37°   | 1285.9 | 1280.0 | 1203.7 | 1089.3 | 942.2  | 772.6  | 603.8 | 446.9 | 316.7 | 223.3 | 13.2 |
| 38°   | 1410.8 | 1387.3 | 1309.9 | 1193.4 | 1032.7 | 855.0  | 670.2 | 491.2 | 346.2 | 239.3 | 13.0 |
| 39°   | 1516.1 | 1481.2 | 1403.1 | 1288.0 | 1111.7 | 917.6  | 723.0 | 534.1 | 372.2 | 252.6 | 12.8 |
| 40°   | 1585.1 | 1560.9 | 1479.3 | 1349.9 | 1183.4 | 976.7  | 776.4 | 569.5 | 391.6 | 262.6 | 12.3 |
| 41°   | 1661.1 | 1620.9 | 1540.3 | 1410.1 | 1235.4 | 1028.8 | 810.0 | 592.8 | 406.7 | 269.2 | 11.9 |
| 42°   | 1706.6 | 1673.7 | 1578.0 | 1450.6 | 1272.7 | 1058.5 | 837.4 | 610.6 | 415.8 | 272.7 | 11.0 |
| 43°   | 1749.0 | 1704.3 | 1611.1 | 1474.1 | 1297.3 | 1079.5 | 850.0 | 618.9 | 417.9 | 272.7 | 9.8  |
| 44°   | 1743.3 | 1700.8 | 1604.2 | 1477.3 | 1302.8 | 1085.6 | 855.2 | 619.1 | 414.7 | 269.2 | 8.7  |
| 45°   | 1700.6 | 1658.4 | 1571.4 | 1449.4 | 1283.2 | 1073.5 | 844.7 | 610.0 | 405.8 | 263.3 | 7.8  |
| 46°   | 1622.3 | 1580.3 | 1513.6 | 1402.8 | 1246.6 | 1046.1 | 820.3 | 590.1 | 391.0 | 253.7 | 6.9  |
| 47°   | 1537.1 | 1496.2 | 1428.0 | 1327.7 | 1184.3 | 997.3  | 784.9 | 562.2 | 370.2 | 239.8 | 6.2  |
| 48°   | 1413.6 | 1388.0 | 1319.5 | 1233.8 | 1097.7 | 920.8  | 722.8 | 516.8 | 342.3 | 221.7 | 5.3  |
| 49°   | 1304.4 | 1277.5 | 1217.4 | 1125.4 | 984.9  | 831.7  | 648.6 | 461.5 | 306.0 | 201.6 | 4.6  |
| 50°   | 1200.0 | 1176.5 | 1121.0 | 1017.1 | 883.1  | 724.1  | 548.3 | 391.9 | 260.3 | 176.8 | 3.9  |
| 51°   | 1098.0 | 1080.4 | 1023.8 | 928.3  | 792.2  | 641.5  | 475.0 | 326.3 | 215.1 | 146.6 | 3.7  |
| 52°   | 995.4  | 993.4  | 931.9  | 835.4  | 703.8  | 559.0  | 403.7 | 275.4 | 182.5 | 123.1 | 3.4  |
| 53°   | 885.1  | 871.9  | 818.2  | 731.4  | 605.2  | 473.2  | 342.3 | 232.2 | 157.1 | 104.8 | 3.0  |
| 54°   | 759.5  | 744.7  | 687.1  | 608.8  | 494.4  | 387.5  | 275.9 | 187.7 | 130.9 | 88.6  | 2.7  |
| 55°   | 619.8  | 594.4  | 552.6  | 472.3  | 386.2  | 295.7  | 213.1 | 148.7 | 104.6 | 73.8  | 2.3  |
| 56°   | 470.2  | 444.9  | 421.3  | 362.2  | 283.4  | 220.6  | 158.7 | 114.0 | 81.8  | 58.2  | 2.1  |
| 57°   | 327.0  | 325.6  | 287.1  | 241.6  | 189.5  | 150.3  | 108.7 | 80.4  | 57.8  | 45.2  | 1.6  |
| 58°   | 212.1  | 205.1  | 180.4  | 154.1  | 124.0  | 93.9   | 69.9  | 54.6  | 39.3  | 30.8  | 1.4  |
| 59°   | 148.7  | 134.5  | 121.3  | 102.8  | 78.1   | 59.1   | 45.0  | 34.9  | 27.2  | 21.5  | 0.9  |
| 60°   | 91.3   | 88.4   | 79.5   | 62.6   | 50.7   | 41.8   | 33.6  | 25.8  | 19.9  | 15.3  | 0.5  |
| 62.5° | 26.0   | 26.5   | 24.0   | 21.2   | 18.3   | 15.8   | 14.2  | 12.1  | 10.0  | 8.0   | 0.0  |
| 65°   | 5.9    | 5.7    | 6.2    | 5.7    | 5.3    | 5.3    | 4.6   | 4.1   | 3.7   | 3.4   | 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° | 1.8 | 1.8  | 1.6 | 1.6  | 1.6 | 1.4   | 1.4 | 1.1   | 1.1 | 0.9   | 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 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 16.9  | 16.9 | 16.9   | 16.9 | 16.9   | 16.9 |
| 2.5°  | 17.6  | 16.7 | 16.0   | 15.3 | 15.1   | 15.1 |
| 5°    | 17.1  | 15.8 | 14.4   | 13.7 | 13.2   | 13.2 |
| 7.5°  | 15.8  | 14.2 | 12.8   | 12.1 | 11.9   | 11.9 |
| 10°   | 14.2  | 12.3 | 11.0   | 10.5 | 10.5   | 10.3 |
| 12.5° | 12.3  | 10.5 | 9.6    | 9.4  | 9.4    | 9.4  |
| 15°   | 10.3  | 8.9  | 8.2    | 8.2  | 8.4    | 8.7  |
| 17.5° | 8.7   | 7.3  | 7.1    | 7.5  | 8.0    | 8.0  |
| 20°   | 7.3   | 6.4  | 6.4    | 6.9  | 7.3    | 7.5  |
| 22.5° | 6.2   | 5.5  | 5.7    | 6.4  | 7.1    | 7.3  |
| 25°   | 5.5   | 4.8  | 5.3    | 5.9  | 6.6    | 7.1  |
| 27.5° | 4.6   | 4.3  | 4.8    | 5.7  | 6.6    | 6.9  |
| 30°   | 3.9   | 3.9  | 4.6    | 5.5  | 6.4    | 6.6  |
| 31°   | 3.7   | 3.7  | 4.6    | 5.5  | 6.4    | 6.6  |
| 32°   | 3.4   | 3.7  | 4.3    | 5.5  | 6.4    | 6.6  |
| 33°   | 3.2   | 3.4  | 4.3    | 5.3  | 6.4    | 6.6  |
| 34°   | 3.0   | 3.4  | 4.3    | 5.3  | 6.4    | 6.6  |
| 35°   | 2.7   | 3.4  | 4.3    | 5.3  | 6.4    | 6.6  |
| 36°   | 2.5   | 3.2  | 4.1    | 5.3  | 6.4    | 6.6  |
| 37°   | 2.3   | 3.2  | 4.1    | 5.3  | 6.4    | 6.6  |
| 38°   | 2.1   | 3.0  | 4.1    | 5.3  | 6.4    | 6.6  |
| 39°   | 2.1   | 3.0  | 3.9    | 5.3  | 6.2    | 6.6  |
| 40°   | 1.8   | 2.7  | 3.9    | 5.3  | 6.2    | 6.6  |
| 41°   | 1.6   | 2.7  | 3.9    | 5.0  | 6.2    | 6.6  |
| 42°   | 1.4   | 2.5  | 3.7    | 5.0  | 6.2    | 6.6  |
| 43°   | 1.1   | 2.5  | 3.7    | 5.0  | 6.2    | 6.6  |
| 44°   | 1.1   | 2.3  | 3.7    | 5.0  | 6.2    | 6.6  |
| 45°   | 0.9   | 2.3  | 3.7    | 5.0  | 6.2    | 6.6  |
| 46°   | 0.7   | 2.3  | 3.7    | 5.0  | 6.2    | 6.6  |
| 47°   | 0.7   | 2.1  | 3.4    | 5.0  | 6.2    | 6.6  |
| 48°   | 0.5   | 2.1  | 3.4    | 5.0  | 6.2    | 6.6  |
| 49°   | 0.5   | 2.1  | 3.4    | 5.0  | 6.2    | 6.9  |
| 50°   | 0.5   | 2.1  | 3.4    | 4.8  | 6.2    | 6.9  |
| 51°   | 0.2   | 2.1  | 3.4    | 4.8  | 6.2    | 6.9  |
| 52°   | 0.2   | 2.1  | 3.2    | 4.8  | 6.4    | 6.9  |
| 53°   | 0.2   | 1.8  | 3.2    | 4.8  | 6.4    | 6.9  |
| 54°   | 0.2   | 1.8  | 3.2    | 4.8  | 6.4    | 6.6  |
| 55°   | 0.2   | 1.8  | 3.2    | 4.8  | 6.2    | 6.6  |
| 56°   | 0.2   | 1.6  | 3.2    | 4.8  | 6.2    | 6.6  |
| 57°   | 0.2   | 1.6  | 3.0    | 4.6  | 6.2    | 6.4  |
| 58°   | 0.2   | 1.6  | 3.0    | 4.6  | 6.2    | 6.4  |
| 59°   | 0.2   | 1.6  | 3.0    | 4.6  | 5.9    | 6.4  |
| 60°   | 0.5   | 1.4  | 2.7    | 4.3  | 5.9    | 6.4  |
| 62.5° | 0.5   | 1.4  | 2.7    | 4.3  | 5.7    | 6.2  |
| 65°   | 0.5   | 1.4  | 2.5    | 4.1  | 5.7    | 6.2  |



TEST NUMBER: P1336923

CATALOG NUMBER: P3A05R209735DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.1 | 2.3    | 3.9  | 5.5    | 5.9  |
| 70°   | 0.5   | 1.4 | 2.3    | 3.7  | 5.3    | 5.7  |
| 72.5° | 0.7   | 1.1 | 2.1    | 3.4  | 5.0    | 5.5  |
| 75°   | 0.7   | 1.1 | 2.1    | 3.2  | 4.8    | 5.0  |
| 77.5° | 0.9   | 1.1 | 1.8    | 2.7  | 4.3    | 4.6  |
| 80°   | 0.9   | 1.1 | 1.6    | 2.3  | 3.7    | 3.9  |
| 82.5° | 0.9   | 1.1 | 1.1    | 1.8  | 2.7    | 3.0  |
| 85°   | 0.7   | 0.9 | 0.9    | 1.1  | 1.8    | 2.1  |
| 87.5° | 0.7   | 0.9 | 0.7    | 0.5  | 0.9    | 0.9  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)