

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: P1343454

Luminaire Tested: P3A13R159040DE010 E3A451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R159040DE010 E3A451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

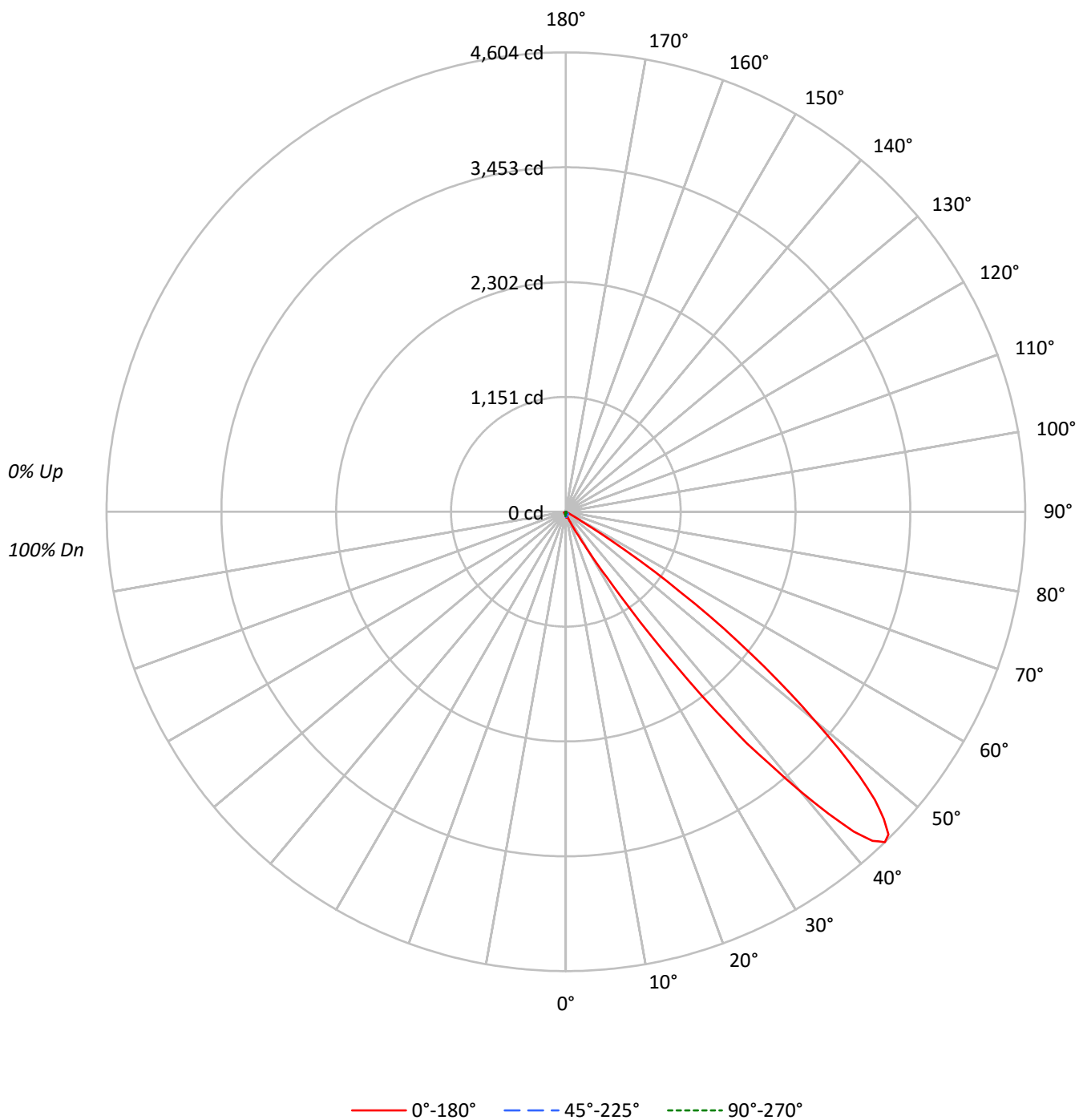
Lumens per Lamp: N/A  
Luminaire Lumens: 514.0 lumens  
Efficiency: N/A  
Efficacy: 35.2 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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

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CATALOG NUMBER: P3A13R159040DE010 E3A451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1343454

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  |  | 49  | 42  | 37  |  | 48  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 37  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  |  | 34  | 27  | 22  |  | 33  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  |  | 31  | 24  | 19  |  | 30  |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 9999    | 9999  | 9999 | 9999 | 9999  |
| 5°  | 12415   | 11050 | 9025 | 7902 | 7792  |
| 10° | 12202   | 9463  | 6969 | 6168 | 6279  |
| 15° | 10125   | 6742  | 4994 | 5131 | 5471  |
| 20° | 17572   | 5390  | 3827 | 4434 | 5017  |
| 25° | 39196   | 6460  | 3097 | 4089 | 4718  |
| 30° | 117183  | 7925  | 2735 | 4026 | 4937  |
| 35° | 451088  | 8914  | 2463 | 4122 | 5220  |
| 40° | 1047047 | 7786  | 2347 | 4265 | 5582  |
| 45° | 1418163 | 5892  | 2078 | 4621 | 6047  |
| 50° | 1111946 | 3514  | 2115 | 4912 | 6652  |
| 55° | 533735  | 1567  | 1950 | 5276 | 7264  |
| 60° | 48768   | 219   | 1798 | 5614 | 8113  |
| 65° | 5344    | 0     | 1608 | 5863 | 8769  |
| 70° | 1346    | 0     | 1988 | 6219 | 9553  |
| 75° | 1271    | 424   | 2626 | 6947 | 10845 |
| 80° | 1263    | 1263  | 3283 | 7072 | 11618 |
| 85° | 1258    | 1258  | 5284 | 6542 | 12831 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1418163 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.9    | 0.8       |
| 10°-20°   | 8.1    | 1.6       |
| 20°-30°   | 19.4   | 3.8       |
| 30°-40°   | 106.3  | 20.7      |
| 40°-50°   | 257.5  | 50.1      |
| 50°-60°   | 102.7  | 20.0      |
| 60°-70°   | 8.9    | 1.7       |
| 70°-80°   | 5.0    | 1.0       |
| 80°-90°   | 2.2    | 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°    | 31.4   | 6.1       |
| 0°-40°    | 137.8  | 26.8      |
| 0°-60°    | 497.9  | 96.9      |
| 0°-90°    | 514.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 514.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 46   | 46  | 46  | 46   | 46   |      |
| 5°  | 56   | 50  | 41  | 36   | 35   | 5    |
| 15° | 45   | 30  | 22  | 23   | 24   | 16   |
| 25° | 162  | 27  | 13  | 17   | 20   | 98   |
| 35° | 1685 | 33  | 9   | 15   | 20   | 1191 |
| 45° | 4573 | 19  | 7   | 15   | 20   | 3226 |
| 55° | 1396 | 4   | 5   | 14   | 19   | 1301 |
| 65° | 10   | 0   | 3   | 11   | 17   | 26   |
| 75° | 2    | 0   | 3   | 8    | 13   | 1    |
| 85° | 0    | 0   | 2   | 3    | 5    | 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°    | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6  | 45.6  | 45.6 |
| 2.5°  | 51.3   | 51.3   | 51.8   | 51.3   | 51.3   | 51.3   | 51.3   | 50.7   | 50.7  | 50.7  | 49.2 |
| 5°    | 56.4   | 56.4   | 56.4   | 56.4   | 55.9   | 55.9   | 55.9   | 55.4   | 55.4  | 54.8  | 50.2 |
| 7.5°  | 58.4   | 58.4   | 57.9   | 57.9   | 57.4   | 57.4   | 56.9   | 56.4   | 55.9  | 55.4  | 48.2 |
| 10°   | 54.8   | 54.8   | 54.8   | 54.3   | 54.3   | 53.8   | 53.3   | 52.8   | 52.3  | 51.3  | 42.5 |
| 12.5° | 48.7   | 48.7   | 49.2   | 48.7   | 48.2   | 47.7   | 46.6   | 46.1   | 45.6  | 44.6  | 35.4 |
| 15°   | 44.6   | 44.6   | 44.6   | 44.1   | 43.6   | 42.5   | 42.0   | 41.0   | 40.5  | 39.0  | 29.7 |
| 17.5° | 56.9   | 56.9   | 56.4   | 55.4   | 53.3   | 51.8   | 49.2   | 47.2   | 44.6  | 41.5  | 25.6 |
| 20°   | 75.3   | 75.3   | 74.3   | 73.3   | 70.7   | 68.2   | 64.1   | 60.5   | 56.4  | 52.8  | 23.1 |
| 22.5° | 109.2  | 110.7  | 107.6  | 104.0  | 100.5  | 94.3   | 88.7   | 83.0   | 75.9  | 69.7  | 23.6 |
| 25°   | 162.0  | 163.5  | 162.0  | 153.8  | 147.1  | 138.9  | 128.1  | 116.9  | 104.6 | 93.3  | 26.7 |
| 27.5° | 262.4  | 263.4  | 260.9  | 240.9  | 230.1  | 208.6  | 189.6  | 171.2  | 150.7 | 130.2 | 29.2 |
| 30°   | 462.8  | 463.3  | 446.9  | 406.9  | 371.6  | 324.4  | 284.4  | 246.0  | 213.7 | 180.9 | 31.3 |
| 31°   | 609.4  | 595.0  | 560.2  | 512.0  | 455.6  | 392.1  | 337.2  | 287.5  | 239.3 | 204.0 | 31.8 |
| 32°   | 773.9  | 771.8  | 713.9  | 630.4  | 555.0  | 475.6  | 393.1  | 329.5  | 274.2 | 226.0 | 32.3 |
| 33°   | 991.7  | 992.7  | 901.5  | 803.1  | 679.6  | 573.0  | 464.8  | 377.7  | 311.1 | 252.2 | 33.3 |
| 34°   | 1332.0 | 1252.1 | 1144.9 | 1011.7 | 843.6  | 683.2  | 542.7  | 433.6  | 344.4 | 277.3 | 33.3 |
| 35°   | 1685.1 | 1604.7 | 1486.8 | 1284.9 | 1054.2 | 829.7  | 635.5  | 493.5  | 384.4 | 304.4 | 33.3 |
| 36°   | 2080.8 | 2012.6 | 1834.3 | 1576.5 | 1282.3 | 968.1  | 733.9  | 562.7  | 423.8 | 329.0 | 32.8 |
| 37°   | 2508.2 | 2408.3 | 2210.4 | 1929.1 | 1535.5 | 1162.9 | 853.8  | 631.4  | 463.3 | 355.7 | 31.8 |
| 38°   | 2942.3 | 2852.1 | 2602.5 | 2261.7 | 1837.8 | 1368.4 | 973.8  | 697.5  | 499.7 | 375.7 | 30.2 |
| 39°   | 3271.3 | 3222.1 | 2974.6 | 2593.8 | 2079.2 | 1563.1 | 1097.3 | 768.2  | 538.1 | 395.7 | 28.7 |
| 40°   | 3657.8 | 3578.3 | 3343.6 | 2872.6 | 2364.7 | 1761.5 | 1218.2 | 830.8  | 569.9 | 411.5 | 27.2 |
| 41°   | 4010.4 | 3909.9 | 3613.7 | 3158.6 | 2593.3 | 1939.8 | 1333.0 | 895.3  | 595.5 | 420.8 | 26.1 |
| 42°   | 4312.7 | 4195.9 | 3886.3 | 3403.6 | 2784.4 | 2082.3 | 1424.8 | 941.5  | 619.6 | 428.5 | 24.6 |
| 43°   | 4508.5 | 4407.6 | 4103.1 | 3587.5 | 2947.9 | 2213.0 | 1510.4 | 989.6  | 634.5 | 433.6 | 22.6 |
| 44°   | 4603.8 | 4501.9 | 4207.2 | 3702.9 | 3048.4 | 2291.4 | 1565.7 | 1023.0 | 650.9 | 440.2 | 21.0 |
| 45°   | 4573.1 | 4469.6 | 4184.6 | 3704.9 | 3079.7 | 2319.6 | 1589.3 | 1037.8 | 659.6 | 446.4 | 19.0 |
| 46°   | 4432.2 | 4359.4 | 4072.4 | 3608.6 | 3020.2 | 2289.4 | 1576.0 | 1026.6 | 656.5 | 446.4 | 16.9 |
| 47°   | 4234.3 | 4151.3 | 3878.1 | 3443.0 | 2876.2 | 2211.5 | 1522.1 | 992.2  | 637.6 | 436.1 | 14.9 |
| 48°   | 3964.7 | 3894.0 | 3607.0 | 3180.1 | 2655.3 | 2041.8 | 1400.7 | 936.3  | 607.8 | 416.2 | 12.8 |
| 49°   | 3626.5 | 3528.1 | 3261.1 | 2843.9 | 2367.3 | 1800.9 | 1241.3 | 842.0  | 560.2 | 388.0 | 11.3 |
| 50°   | 3259.5 | 3138.1 | 2932.0 | 2507.2 | 2069.5 | 1544.2 | 1031.7 | 711.9  | 493.0 | 351.1 | 10.3 |
| 51°   | 2900.3 | 2776.8 | 2580.5 | 2219.2 | 1751.7 | 1281.3 | 832.3  | 568.4  | 405.9 | 300.3 | 8.7  |
| 52°   | 2527.7 | 2424.2 | 2204.3 | 1920.4 | 1499.6 | 1038.3 | 693.4  | 480.7  | 337.2 | 252.2 | 7.2  |
| 53°   | 2156.6 | 2085.9 | 1876.8 | 1589.3 | 1204.9 | 848.2  | 566.3  | 411.5  | 294.2 | 215.8 | 5.6  |
| 54°   | 1785.1 | 1707.7 | 1548.8 | 1292.5 | 971.2  | 669.3  | 480.2  | 344.4  | 255.2 | 188.1 | 5.1  |
| 55°   | 1396.1 | 1356.1 | 1209.5 | 985.5  | 736.0  | 534.0  | 389.5  | 296.2  | 213.7 | 157.3 | 4.1  |
| 56°   | 1075.2 | 1030.1 | 896.4  | 714.9  | 546.8  | 418.2  | 315.2  | 241.9  | 180.9 | 131.7 | 3.1  |
| 57°   | 704.2  | 658.1  | 569.4  | 499.2  | 398.2  | 304.9  | 240.9  | 190.7  | 147.1 | 109.2 | 2.6  |
| 58°   | 416.2  | 374.1  | 360.3  | 307.5  | 265.5  | 207.1  | 177.8  | 142.0  | 108.7 | 86.1  | 1.5  |
| 59°   | 191.2  | 194.2  | 172.7  | 162.0  | 147.1  | 131.7  | 108.1  | 94.8   | 74.3  | 62.0  | 1.0  |
| 60°   | 111.2  | 105.1  | 102.5  | 91.7   | 81.5   | 72.3   | 65.1   | 57.4   | 46.6  | 40.0  | 0.5  |
| 62.5° | 37.9   | 36.4   | 37.4   | 33.8   | 31.8   | 30.8   | 28.2   | 24.1   | 20.0  | 16.4  | 0.0  |
| 65°   | 10.3   | 10.3   | 9.7    | 9.2    | 8.7    | 8.2    | 7.7    | 6.7    | 6.2   | 5.1   | 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° | 3.6 | 3.6  | 3.1 | 3.1  | 2.6 | 2.6   | 2.1 | 2.1   | 1.5 | 1.5   | 0.0 |
| 70°   | 2.1 | 2.1  | 2.1 | 1.5  | 1.5 | 1.5   | 1.0 | 1.0   | 1.0 | 0.5   | 0.0 |
| 72.5° | 1.5 | 1.5  | 1.5 | 1.5  | 1.5 | 1.5   | 1.0 | 1.0   | 1.0 | 0.5   | 0.5 |
| 75°   | 1.5 | 1.5  | 1.5 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 0.5 |
| 77.5° | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 80°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 0.5   | 1.0 |
| 82.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 1.0 |
| 85°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 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°    | 45.6  | 45.6 | 45.6   | 45.6 | 45.6   | 45.6 |
| 2.5°  | 47.2  | 45.1 | 42.5   | 41.0 | 40.5   | 40.0 |
| 5°    | 45.1  | 41.0 | 37.9   | 35.9 | 35.4   | 35.4 |
| 7.5°  | 40.5  | 35.9 | 32.8   | 31.8 | 31.3   | 31.3 |
| 10°   | 35.4  | 31.3 | 28.7   | 27.7 | 28.2   | 28.2 |
| 12.5° | 29.7  | 26.1 | 25.1   | 25.1 | 25.6   | 26.1 |
| 15°   | 24.1  | 22.0 | 22.0   | 22.6 | 23.6   | 24.1 |
| 17.5° | 20.0  | 19.0 | 19.5   | 20.5 | 21.5   | 22.6 |
| 20°   | 16.4  | 16.4 | 17.4   | 19.0 | 20.5   | 21.5 |
| 22.5° | 13.8  | 14.4 | 15.9   | 17.4 | 19.5   | 20.5 |
| 25°   | 11.8  | 12.8 | 14.4   | 16.9 | 19.0   | 19.5 |
| 27.5° | 10.3  | 11.8 | 13.8   | 16.4 | 18.5   | 19.5 |
| 30°   | 8.7   | 10.8 | 13.3   | 15.9 | 18.5   | 19.5 |
| 31°   | 8.2   | 10.3 | 12.8   | 15.9 | 18.5   | 19.5 |
| 32°   | 7.7   | 10.3 | 12.8   | 15.9 | 18.5   | 19.5 |
| 33°   | 7.2   | 9.7  | 12.8   | 15.4 | 18.5   | 19.5 |
| 34°   | 6.7   | 9.7  | 12.8   | 15.9 | 18.5   | 19.5 |
| 35°   | 6.2   | 9.2  | 12.3   | 15.4 | 17.9   | 19.5 |
| 36°   | 5.6   | 9.2  | 12.3   | 15.4 | 18.5   | 19.5 |
| 37°   | 5.1   | 9.2  | 12.3   | 15.4 | 17.9   | 19.5 |
| 38°   | 5.1   | 8.7  | 11.8   | 15.4 | 17.9   | 19.5 |
| 39°   | 4.6   | 8.2  | 11.8   | 15.4 | 17.9   | 19.5 |
| 40°   | 4.1   | 8.2  | 11.3   | 14.9 | 17.9   | 19.5 |
| 41°   | 3.6   | 7.7  | 11.3   | 14.9 | 17.9   | 19.5 |
| 42°   | 3.1   | 7.7  | 11.3   | 14.9 | 17.9   | 19.5 |
| 43°   | 2.6   | 7.2  | 10.8   | 14.9 | 17.9   | 19.5 |
| 44°   | 2.6   | 7.2  | 10.8   | 14.9 | 17.9   | 19.5 |
| 45°   | 2.1   | 6.7  | 10.3   | 14.9 | 17.9   | 19.5 |
| 46°   | 2.1   | 6.7  | 10.3   | 14.4 | 17.9   | 19.5 |
| 47°   | 1.5   | 6.7  | 10.3   | 14.4 | 17.9   | 19.5 |
| 48°   | 1.5   | 6.2  | 10.3   | 14.4 | 17.9   | 19.5 |
| 49°   | 1.0   | 6.2  | 10.3   | 14.4 | 17.9   | 19.5 |
| 50°   | 1.0   | 6.2  | 9.7    | 14.4 | 17.9   | 19.5 |
| 51°   | 1.0   | 6.2  | 9.7    | 14.4 | 17.9   | 19.5 |
| 52°   | 1.0   | 5.6  | 9.7    | 14.4 | 17.9   | 19.5 |
| 53°   | 1.0   | 5.6  | 9.7    | 14.4 | 17.9   | 19.5 |
| 54°   | 1.0   | 5.6  | 9.2    | 14.4 | 17.9   | 19.5 |
| 55°   | 1.0   | 5.1  | 9.2    | 13.8 | 17.9   | 19.0 |
| 56°   | 1.0   | 5.1  | 9.2    | 13.8 | 17.9   | 19.0 |
| 57°   | 1.0   | 5.1  | 8.7    | 13.8 | 17.9   | 19.0 |
| 58°   | 1.0   | 4.6  | 8.7    | 13.3 | 17.4   | 19.0 |
| 59°   | 1.0   | 4.6  | 8.2    | 13.3 | 17.4   | 18.5 |
| 60°   | 1.0   | 4.1  | 8.2    | 12.8 | 16.9   | 18.5 |
| 62.5° | 1.0   | 3.6  | 7.2    | 12.3 | 16.4   | 17.4 |
| 65°   | 1.0   | 3.1  | 6.7    | 11.3 | 15.9   | 16.9 |



TEST NUMBER: P1343454

CATALOG NUMBER: P3A13R159040DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.0   | 3.1 | 6.2    | 10.8 | 14.9   | 16.4 |
| 70°   | 1.0   | 3.1 | 5.6    | 9.7  | 14.4   | 14.9 |
| 72.5° | 1.5   | 3.1 | 5.1    | 9.2  | 13.3   | 13.8 |
| 75°   | 2.1   | 3.1 | 4.6    | 8.2  | 12.3   | 12.8 |
| 77.5° | 2.1   | 3.1 | 4.1    | 7.2  | 10.8   | 11.3 |
| 80°   | 2.1   | 2.6 | 3.6    | 5.6  | 8.7    | 9.2  |
| 82.5° | 2.1   | 2.6 | 2.6    | 4.6  | 6.7    | 7.2  |
| 85°   | 1.5   | 2.1 | 2.1    | 2.6  | 4.6    | 5.1  |
| 87.5° | 1.5   | 2.1 | 1.0    | 1.5  | 2.1    | 2.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)