

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: P1336884

Luminaire Tested: P3A05R209727DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336884  
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: P3A05R209727DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

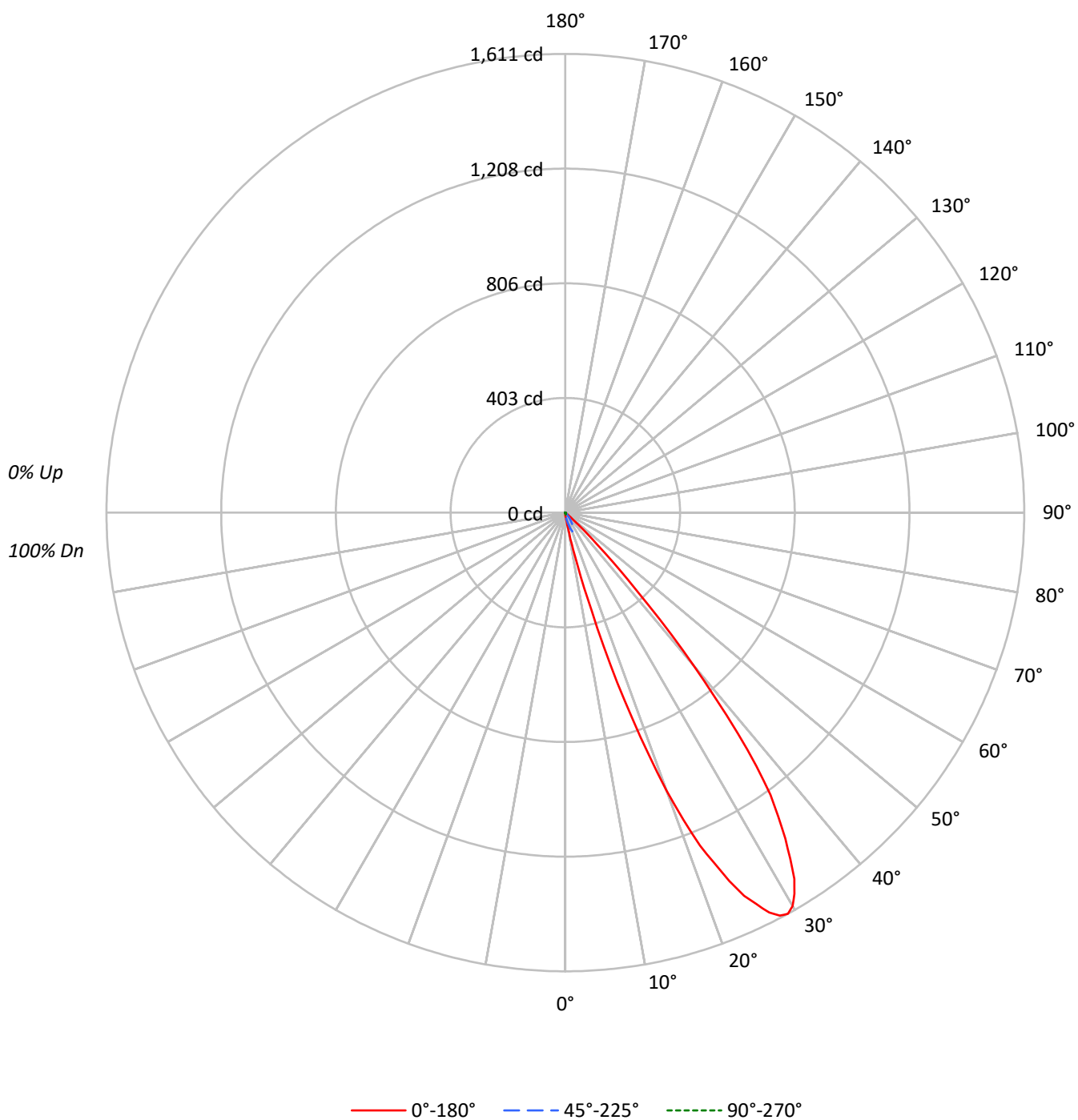
Lumens per Lamp: N/A  
Luminaire Lumens: 226.0 lumens  
Efficiency: N/A  
Efficacy: 31.4 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: P3A05R209727DE010 E3A301H

### 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  | 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°  | 1710   | 1710  | 1710 | 1710 | 1710 |
| 5°  | 3918   | 2928  | 1629 | 991  | 858  |
| 10° | 12380  | 5121  | 1314 | 557  | 401  |
| 15° | 80159  | 9444  | 976  | 182  | 45   |
| 20° | 241918 | 16171 | 677  | 0    | 0    |
| 25° | 359271 | 16332 | 387  | 0    | 0    |
| 30° | 404012 | 12407 | 152  | 0    | 0    |
| 35° | 348589 | 7415  | 107  | 0    | 0    |
| 40° | 200719 | 2519  | 0    | 0    | 0    |
| 45° | 48966  | 1023  | 62   | 0    | 62   |
| 50° | 5868   | 273   | 68   | 68   | 205  |
| 55° | 803    | 0     | 153  | 153  | 306  |
| 60° | 88     | 0     | 263  | 263  | 439  |
| 65° | 104    | 104   | 415  | 415  | 623  |
| 70° | 128    | 128   | 513  | 513  | 641  |
| 75° | 0      | 169   | 678  | 508  | 678  |
| 80° | 0      | 253   | 758  | 505  | 758  |
| 85° | 0      | 503   | 1510 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 49276 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.5       |
| 10°-20°   | 20.9   | 9.3       |
| 20°-30°   | 91.3   | 40.4      |
| 30°-40°   | 91.9   | 40.7      |
| 40°-50°   | 18.4   | 8.2       |
| 50°-60°   | 0.9    | 0.4       |
| 60°-70°   | 0.6    | 0.3       |
| 70°-80°   | 0.5    | 0.2       |
| 80°-90°   | 0.3    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 113.3  | 50.1      |
| 0°-40°    | 205.2  | 90.8      |
| 0°-60°    | 224.6  | 99.4      |
| 0°-90°    | 226.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 226.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 18   | 13  | 7   | 4    | 4    | 3    |
| 15° | 353  | 42  | 4   | 1    | 0    | 138  |
| 25° | 1485 | 68  | 2   | 0    | 0    | 670  |
| 35° | 1302 | 28  | 0   | 0    | 0    | 775  |
| 45° | 158  | 3   | 0   | 0    | 0    | 172  |
| 55° | 2    | 0   | 0   | 0    | 1    | 4    |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 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°    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8   | 7.8   | 7.8  |
| 2.5°  | 11.7   | 11.7   | 11.5   | 11.5   | 11.3   | 11.5   | 11.1   | 11.3   | 11.3  | 11.1  | 10.0 |
| 5°    | 17.8   | 18.2   | 18.0   | 18.0   | 17.8   | 18.0   | 17.6   | 17.2   | 16.8  | 16.8  | 13.3 |
| 7.5°  | 29.3   | 29.1   | 28.7   | 28.9   | 28.3   | 27.9   | 27.5   | 27.3   | 26.0  | 25.4  | 17.4 |
| 10°   | 55.6   | 56.8   | 55.8   | 55.6   | 51.9   | 51.7   | 49.2   | 45.7   | 42.6  | 41.0  | 23.0 |
| 12.5° | 153.0  | 159.5  | 149.3  | 144.3  | 141.5  | 130.4  | 125.7  | 113.6  | 101.9 | 93.1  | 29.1 |
| 15°   | 353.1  | 369.3  | 348.6  | 350.0  | 332.8  | 301.2  | 273.5  | 249.7  | 221.6 | 193.3 | 41.6 |
| 17.5° | 691.8  | 678.7  | 667.4  | 648.3  | 613.3  | 566.9  | 507.3  | 446.8  | 394.5 | 339.7 | 58.0 |
| 20°   | 1036.7 | 1025.0 | 999.3  | 957.7  | 913.0  | 844.3  | 773.4  | 682.6  | 594.6 | 512.2 | 69.3 |
| 21°   | 1155.4 | 1151.5 | 1109.4 | 1083.8 | 1014.9 | 949.3  | 867.5  | 770.3  | 671.3 | 573.7 | 71.1 |
| 22°   | 1261.4 | 1238.0 | 1215.5 | 1177.5 | 1109.0 | 1037.7 | 946.6  | 844.3  | 736.9 | 628.4 | 71.4 |
| 23°   | 1334.8 | 1324.1 | 1302.8 | 1259.9 | 1191.9 | 1108.0 | 1012.1 | 905.0  | 791.8 | 667.2 | 70.7 |
| 24°   | 1416.0 | 1402.4 | 1371.3 | 1321.2 | 1252.6 | 1169.7 | 1060.2 | 954.0  | 831.0 | 699.8 | 69.1 |
| 25°   | 1484.9 | 1463.7 | 1426.8 | 1372.9 | 1297.9 | 1212.4 | 1102.3 | 985.6  | 858.3 | 721.7 | 67.5 |
| 26°   | 1529.6 | 1518.1 | 1470.7 | 1412.1 | 1331.7 | 1243.5 | 1131.2 | 1009.8 | 875.9 | 731.8 | 64.8 |
| 27°   | 1576.1 | 1555.0 | 1508.4 | 1441.0 | 1353.8 | 1263.8 | 1147.6 | 1021.5 | 882.1 | 732.2 | 61.5 |
| 28°   | 1602.8 | 1579.8 | 1527.1 | 1456.2 | 1368.2 | 1275.1 | 1157.0 | 1025.2 | 880.8 | 725.8 | 57.6 |
| 29°   | 1611.2 | 1582.3 | 1530.8 | 1458.6 | 1371.7 | 1275.9 | 1155.6 | 1019.8 | 870.0 | 710.2 | 53.1 |
| 30°   | 1595.6 | 1566.1 | 1517.3 | 1446.9 | 1360.6 | 1265.7 | 1142.3 | 1002.2 | 850.7 | 687.9 | 49.0 |
| 31°   | 1561.6 | 1536.5 | 1489.4 | 1418.8 | 1336.0 | 1241.7 | 1112.1 | 973.3  | 817.9 | 658.0 | 44.3 |
| 32°   | 1516.6 | 1492.0 | 1445.7 | 1381.9 | 1297.7 | 1202.5 | 1070.9 | 928.2  | 779.3 | 613.3 | 39.6 |
| 33°   | 1449.2 | 1435.0 | 1393.4 | 1332.5 | 1248.3 | 1146.6 | 1015.5 | 874.3  | 724.4 | 563.6 | 35.5 |
| 34°   | 1380.9 | 1363.1 | 1334.0 | 1267.3 | 1176.7 | 1075.2 | 943.4  | 799.8  | 657.3 | 508.1 | 31.6 |
| 35°   | 1302.2 | 1291.5 | 1245.8 | 1192.5 | 1101.5 | 997.7  | 866.7  | 727.5  | 579.2 | 446.2 | 27.7 |
| 36°   | 1225.9 | 1209.5 | 1157.4 | 1101.0 | 1012.7 | 900.5  | 771.1  | 640.3  | 511.8 | 388.1 | 23.6 |
| 37°   | 1115.2 | 1090.2 | 1053.1 | 993.6  | 890.3  | 794.7  | 676.6  | 555.2  | 428.7 | 325.4 | 19.1 |
| 38°   | 985.0  | 973.3  | 921.8  | 862.0  | 776.5  | 685.8  | 569.0  | 466.0  | 353.7 | 271.7 | 14.6 |
| 39°   | 831.4  | 831.2  | 782.0  | 738.7  | 655.1  | 573.5  | 468.1  | 378.3  | 292.0 | 218.8 | 11.3 |
| 40°   | 701.2  | 677.0  | 646.7  | 592.3  | 528.2  | 458.9  | 366.6  | 296.1  | 226.6 | 176.3 | 8.8  |
| 42.5° | 367.6  | 365.6  | 347.7  | 306.9  | 271.1  | 230.3  | 183.1  | 152.5  | 119.3 | 97.2  | 5.5  |
| 45°   | 157.9  | 158.9  | 146.6  | 140.4  | 126.5  | 109.5  | 92.5   | 77.1   | 66.0  | 53.5  | 3.3  |
| 47.5° | 40.0   | 38.3   | 37.9   | 39.4   | 39.4   | 38.1   | 34.2   | 32.2   | 29.7  | 27.3  | 1.8  |
| 50°   | 17.2   | 16.8   | 16.4   | 16.4   | 15.4   | 14.8   | 13.7   | 12.5   | 11.5  | 10.3  | 0.8  |
| 52.5° | 6.4    | 6.6    | 6.8    | 6.6    | 6.6    | 6.4    | 6.4    | 6.2    | 5.5   | 4.9   | 0.4  |
| 55°   | 2.1    | 2.1    | 2.1    | 2.3    | 2.3    | 2.5    | 2.5    | 2.5    | 2.5   | 2.3   | 0.0  |
| 57.5° | 0.4    | 0.4    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.8   | 0.8   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.0    | 0.0   | 0.0   | 0.0  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.0    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.2    | 0.0    | 0.2    | 0.2    | 0.0    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2  |



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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   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 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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CATALOG NUMBER: P3A05R209727DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 7.8   | 7.8 | 7.8    | 7.8  | 7.8    | 7.8  |
| 2.5°  | 9.0   | 8.0 | 6.8    | 5.7  | 5.5    | 5.3  |
| 5°    | 10.0  | 7.4 | 5.5    | 4.5  | 4.1    | 3.9  |
| 7.5°  | 10.9  | 6.8 | 4.5    | 3.3  | 2.9    | 2.7  |
| 10°   | 11.3  | 5.9 | 3.7    | 2.5  | 1.8    | 1.8  |
| 12.5° | 11.5  | 5.1 | 2.7    | 1.6  | 1.0    | 1.0  |
| 15°   | 11.3  | 4.3 | 2.1    | 0.8  | 0.2    | 0.2  |
| 17.5° | 10.3  | 3.5 | 1.2    | 0.2  | 0.0    | 0.0  |
| 20°   | 8.8   | 2.9 | 0.8    | 0.0  | 0.0    | 0.0  |
| 21°   | 8.4   | 2.5 | 0.6    | 0.0  | 0.0    | 0.0  |
| 22°   | 7.8   | 2.3 | 0.4    | 0.0  | 0.0    | 0.0  |
| 23°   | 7.2   | 2.1 | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 6.6   | 1.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 6.2   | 1.6 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 5.7   | 1.4 | 0.2    | 0.0  | 0.0    | 0.0  |
| 27°   | 5.1   | 1.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 4.7   | 1.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 4.1   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.5   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 2.9   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.5   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.1   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.6   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.6   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.6   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.2   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.2  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.4  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.4    | 0.6  |
| 52.5° | 0.0   | 0.4 | 0.2    | 0.2  | 0.6    | 0.6  |
| 55°   | 0.2   | 0.4 | 0.2    | 0.4  | 0.8    | 0.8  |
| 57.5° | 0.2   | 0.4 | 0.4    | 0.6  | 0.8    | 1.0  |
| 60°   | 0.4   | 0.6 | 0.6    | 0.6  | 1.0    | 1.0  |
| 62.5° | 0.4   | 0.6 | 0.8    | 0.8  | 1.0    | 1.2  |
| 65°   | 0.4   | 0.8 | 0.8    | 0.8  | 1.0    | 1.2  |
| 67.5° | 0.6   | 0.8 | 0.8    | 0.8  | 1.0    | 1.2  |
| 70°   | 0.6   | 0.8 | 0.8    | 0.8  | 1.0    | 1.0  |
| 72.5° | 0.6   | 0.8 | 0.6    | 0.8  | 0.8    | 1.0  |
| 75°   | 0.6   | 0.8 | 0.6    | 0.6  | 0.8    | 0.8  |
| 77.5° | 0.4   | 0.6 | 0.6    | 0.4  | 0.6    | 0.6  |
| 80°   | 0.4   | 0.6 | 0.4    | 0.4  | 0.6    | 0.6  |





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CATALOG NUMBER: P3A05R209727DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.4   | 0.6 | 0.4    | 0.2  | 0.4    | 0.4  |
| 85°   | 0.4   | 0.6 | 0.4    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.4   | 0.6 | 0.4    | 0.2  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)