

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: P1336432

Luminaire Tested: P3A05R159740DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R159740DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

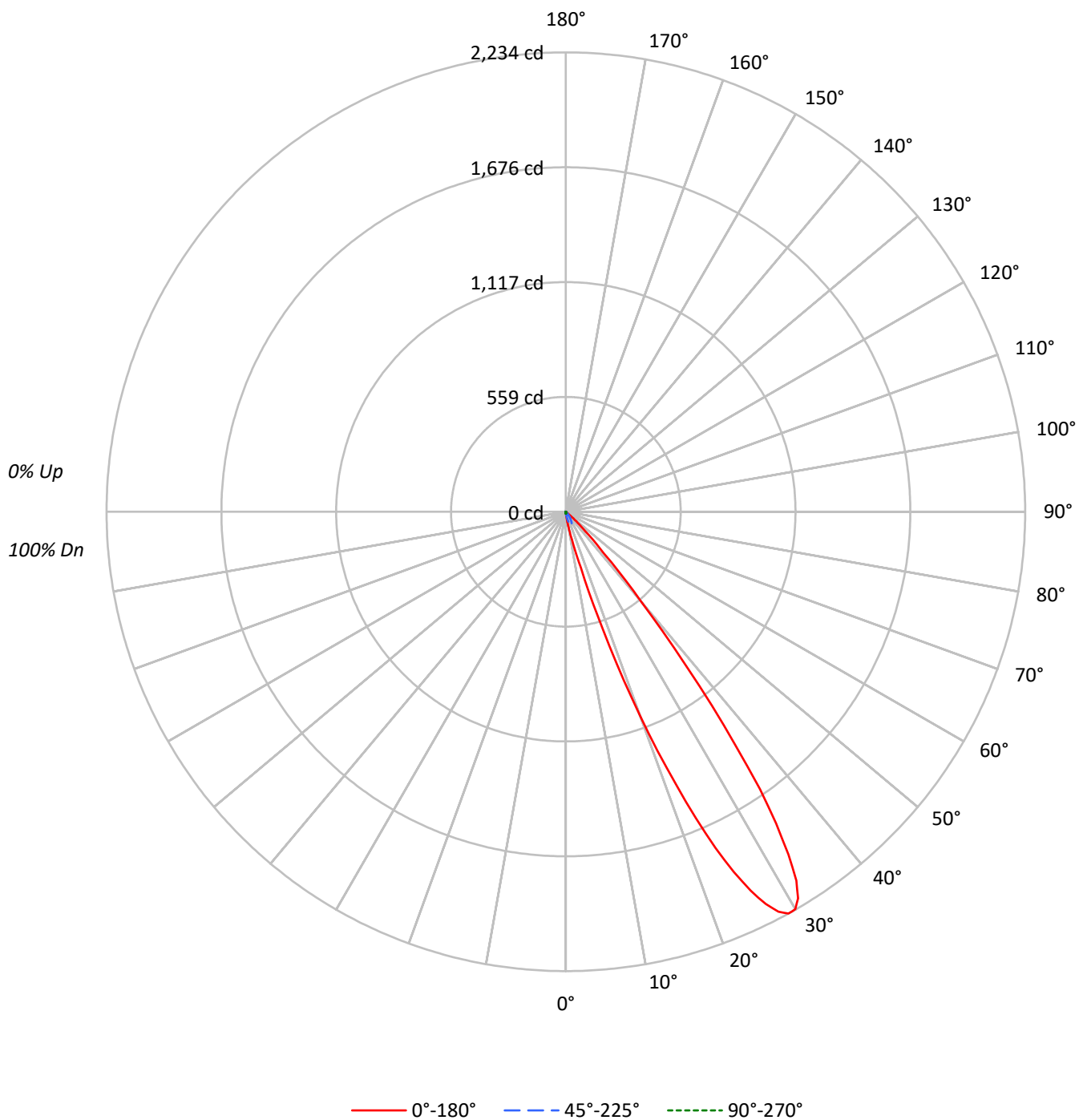
Lumens per Lamp: N/A  
Luminaire Lumens: 243.9 lumens  
Efficiency: N/A  
Efficacy: 33.9 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

### Luminous Intensity Polar Plot



TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**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  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 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  | 42  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1776   | 1776  | 1776 | 1776 | 1776 |
| 5°  | 3808   | 2818  | 1673 | 880  | 726  |
| 10° | 16922  | 5344  | 1314 | 379  | 267  |
| 15° | 63950  | 12350 | 908  | 159  | 114  |
| 20° | 245978 | 17385 | 560  | 47   | 47   |
| 25° | 467737 | 16307 | 290  | 0    | 0    |
| 30° | 565049 | 13167 | 127  | 0    | 0    |
| 35° | 440702 | 8968  | 54   | 0    | 0    |
| 40° | 160816 | 4408  | 57   | 0    | 57   |
| 45° | 41307  | 1333  | 62   | 0    | 155  |
| 50° | 6959   | 171   | 68   | 68   | 239  |
| 55° | 918    | 0     | 191  | 268  | 459  |
| 60° | 88     | 88    | 307  | 395  | 614  |
| 65° | 104    | 104   | 467  | 623  | 726  |
| 70° | 128    | 128   | 577  | 577  | 769  |
| 75° | 169    | 169   | 763  | 593  | 763  |
| 80° | 0      | 253   | 884  | 631  | 884  |
| 85° | 0      | 503   | 1761 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41307 cd/sqm

TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 18.7   | 7.7       |
| 20°-30°   | 103.7  | 42.5      |
| 30°-40°   | 100.2  | 41.1      |
| 40°-50°   | 17.4   | 7.1       |
| 50°-60°   | 1.2    | 0.5       |
| 60°-70°   | 0.7    | 0.3       |
| 70°-80°   | 0.6    | 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       |
| 0°-30°    | 123.5  | 50.6      |
| 0°-40°    | 223.7  | 91.7      |
| 0°-60°    | 242.3  | 99.3      |
| 0°-90°    | 243.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 243.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 17   | 13  | 8   | 4    | 3    | 3    |
| 15° | 282  | 54  | 4   | 1    | 0    | 126  |
| 25° | 1933 | 67  | 1   | 0    | 0    | 864  |
| 35° | 1646 | 34  | 0   | 0    | 0    | 947  |
| 45° | 133  | 4   | 0   | 0    | 0    | 143  |
| 55° | 2    | 0   | 0   | 1    | 1    | 5    |
| 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    |      |

TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1   | 8.1   | 8.1  |
| 2.5°  | 11.9   | 11.4   | 11.6   | 11.6   | 11.6   | 11.6   | 11.6   | 11.2   | 11.2  | 11.4  | 10.2 |
| 5°    | 17.3   | 17.3   | 17.1   | 17.3   | 17.3   | 17.1   | 16.6   | 16.4   | 16.4  | 15.9  | 12.8 |
| 7.5°  | 34.7   | 34.2   | 34.2   | 33.7   | 31.3   | 30.6   | 30.1   | 29.0   | 26.8  | 26.3  | 16.6 |
| 10°   | 76.0   | 76.2   | 74.5   | 72.4   | 72.2   | 68.6   | 67.4   | 65.3   | 61.2  | 57.2  | 24.0 |
| 12.5° | 137.9  | 134.8  | 130.8  | 131.0  | 124.1  | 121.8  | 116.3  | 110.4  | 104.2 | 97.8  | 39.4 |
| 15°   | 281.7  | 273.0  | 278.2  | 265.4  | 250.9  | 234.5  | 217.9  | 197.0  | 179.2 | 160.2 | 54.4 |
| 17.5° | 593.4  | 601.9  | 587.4  | 532.6  | 498.9  | 459.3  | 403.5  | 349.6  | 303.6 | 266.5 | 66.5 |
| 20°   | 1054.1 | 1066.7 | 1017.5 | 969.8  | 887.9  | 798.7  | 705.6  | 600.3  | 499.4 | 412.0 | 74.5 |
| 21°   | 1246.6 | 1239.0 | 1218.8 | 1142.4 | 1047.9 | 944.4  | 830.5  | 714.2  | 592.0 | 478.5 | 75.2 |
| 22°   | 1432.6 | 1436.2 | 1389.2 | 1309.2 | 1211.0 | 1096.3 | 957.2  | 813.6  | 681.9 | 532.6 | 74.1 |
| 23°   | 1618.0 | 1629.4 | 1567.2 | 1492.2 | 1368.6 | 1239.2 | 1078.3 | 923.3  | 760.5 | 594.6 | 71.7 |
| 24°   | 1789.6 | 1781.8 | 1739.8 | 1645.3 | 1513.1 | 1361.7 | 1194.6 | 1006.6 | 825.0 | 647.5 | 69.8 |
| 25°   | 1933.2 | 1932.3 | 1866.3 | 1774.4 | 1623.2 | 1455.4 | 1271.3 | 1074.7 | 880.3 | 683.3 | 67.4 |
| 26°   | 2050.7 | 2031.5 | 1979.5 | 1867.5 | 1718.2 | 1541.1 | 1334.1 | 1124.3 | 911.4 | 701.4 | 65.0 |
| 27°   | 2141.4 | 2127.6 | 2057.8 | 1941.3 | 1785.4 | 1589.5 | 1374.5 | 1149.0 | 925.7 | 707.3 | 61.9 |
| 28°   | 2202.4 | 2187.4 | 2113.1 | 1993.0 | 1822.4 | 1619.9 | 1395.9 | 1159.5 | 925.7 | 701.6 | 59.1 |
| 29°   | 2233.9 | 2213.5 | 2139.5 | 2010.8 | 1830.9 | 1623.5 | 1390.6 | 1149.3 | 911.2 | 684.0 | 55.8 |
| 30°   | 2231.6 | 2206.2 | 2128.6 | 1994.7 | 1805.5 | 1594.3 | 1361.4 | 1112.5 | 878.4 | 657.9 | 52.0 |
| 31°   | 2193.1 | 2164.6 | 2078.0 | 1940.1 | 1753.1 | 1539.2 | 1306.4 | 1063.1 | 833.6 | 624.0 | 48.2 |
| 32°   | 2115.0 | 2079.0 | 1994.5 | 1857.0 | 1672.4 | 1456.9 | 1226.4 | 986.9  | 766.4 | 574.4 | 44.1 |
| 33°   | 1987.8 | 1951.5 | 1860.8 | 1731.9 | 1563.2 | 1352.4 | 1120.3 | 905.0  | 690.0 | 515.3 | 40.8 |
| 34°   | 1828.5 | 1795.3 | 1717.2 | 1587.4 | 1425.5 | 1220.2 | 998.3  | 791.8  | 610.7 | 456.7 | 37.3 |
| 35°   | 1646.3 | 1593.3 | 1522.6 | 1419.8 | 1262.0 | 1055.5 | 866.6  | 686.4  | 529.1 | 395.2 | 33.5 |
| 36°   | 1399.7 | 1409.2 | 1334.1 | 1208.4 | 1077.6 | 915.7  | 734.4  | 572.3  | 442.4 | 336.8 | 30.1 |
| 37°   | 1181.1 | 1166.1 | 1118.4 | 1021.1 | 907.2  | 746.5  | 615.5  | 485.1  | 372.2 | 284.8 | 26.6 |
| 38°   | 952.7  | 956.0  | 909.3  | 834.5  | 721.5  | 613.8  | 495.4  | 398.5  | 311.4 | 242.3 | 23.3 |
| 39°   | 745.8  | 743.1  | 730.6  | 661.3  | 559.0  | 488.2  | 401.4  | 330.4  | 259.4 | 204.4 | 19.7 |
| 40°   | 561.8  | 566.1  | 536.6  | 494.9  | 435.3  | 377.2  | 319.7  | 263.5  | 214.6 | 172.3 | 15.4 |
| 42.5° | 273.2  | 279.8  | 260.4  | 249.7  | 223.3  | 200.6  | 169.2  | 138.1  | 117.5 | 101.6 | 6.9  |
| 45°   | 133.2  | 129.4  | 127.7  | 122.5  | 116.3  | 104.0  | 92.1   | 79.0   | 69.1  | 59.6  | 4.3  |
| 47.5° | 68.1   | 66.2   | 66.2   | 64.1   | 61.9   | 57.9   | 52.0   | 47.7   | 43.0  | 37.0  | 1.7  |
| 50°   | 20.4   | 20.2   | 19.9   | 20.2   | 19.5   | 20.2   | 20.6   | 20.9   | 19.0  | 18.8  | 0.5  |
| 52.5° | 8.1    | 8.3    | 8.1    | 8.8    | 8.8    | 8.5    | 8.8    | 8.5    | 8.3   | 7.4   | 0.0  |
| 55°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.6    | 2.8    | 2.6   | 2.8   | 0.0  |
| 57.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.0   | 0.2  |
| 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    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2   | 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  |



TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**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 |

TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 8.1   | 8.1 | 8.1    | 8.1  | 8.1    | 8.1  |
| 2.5°  | 9.5   | 8.3 | 6.9    | 5.7  | 5.2    | 5.0  |
| 5°    | 10.2  | 7.6 | 5.2    | 4.0  | 3.6    | 3.3  |
| 7.5°  | 10.9  | 6.9 | 4.0    | 2.8  | 2.1    | 1.9  |
| 10°   | 11.4  | 5.9 | 3.1    | 1.7  | 1.2    | 1.2  |
| 12.5° | 11.4  | 4.7 | 2.1    | 0.9  | 0.7    | 0.7  |
| 15°   | 11.2  | 4.0 | 1.4    | 0.7  | 0.5    | 0.5  |
| 17.5° | 10.9  | 3.1 | 0.9    | 0.5  | 0.2    | 0.5  |
| 20°   | 10.2  | 2.4 | 0.5    | 0.2  | 0.2    | 0.2  |
| 21°   | 10.0  | 2.1 | 0.5    | 0.2  | 0.2    | 0.2  |
| 22°   | 9.5   | 1.9 | 0.2    | 0.0  | 0.2    | 0.2  |
| 23°   | 9.0   | 1.4 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 8.3   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 7.8   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 7.4   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 6.6   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 6.2   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 5.5   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 4.7   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 3.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 37°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 38°   | 0.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 39°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 40°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 42.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.5    | 0.5  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.5    | 0.7  |
| 52.5° | 0.0   | 0.5 | 0.2    | 0.5  | 0.7    | 0.9  |
| 55°   | 0.2   | 0.5 | 0.5    | 0.7  | 0.9    | 1.2  |
| 57.5° | 0.2   | 0.7 | 0.7    | 0.9  | 1.2    | 1.2  |
| 60°   | 0.5   | 0.7 | 0.9    | 0.9  | 1.4    | 1.4  |
| 62.5° | 0.5   | 0.9 | 0.9    | 0.9  | 1.4    | 1.4  |
| 65°   | 0.5   | 0.9 | 0.9    | 1.2  | 1.4    | 1.4  |
| 67.5° | 0.5   | 0.9 | 0.9    | 0.9  | 1.2    | 1.4  |
| 70°   | 0.5   | 0.9 | 0.7    | 0.9  | 1.2    | 1.2  |
| 72.5° | 0.5   | 0.9 | 0.7    | 0.7  | 0.9    | 1.2  |
| 75°   | 0.5   | 0.9 | 0.7    | 0.7  | 0.9    | 0.9  |
| 77.5° | 0.5   | 0.7 | 0.7    | 0.5  | 0.7    | 0.7  |
| 80°   | 0.5   | 0.7 | 0.5    | 0.5  | 0.7    | 0.7  |





TEST NUMBER: P1336432

CATALOG NUMBER: P3A05R159740DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.5   | 0.7 | 0.5    | 0.2  | 0.5    | 0.5  |
| 85°   | 0.5   | 0.7 | 0.5    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.5   | 0.7 | 0.2    | 0.0  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)