

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: P1344354

Luminaire Tested: P3A13R20W2N902765DE010 E3CA301MW\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344354  
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: P3A13R20W2N902765DE010 E3CA301MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

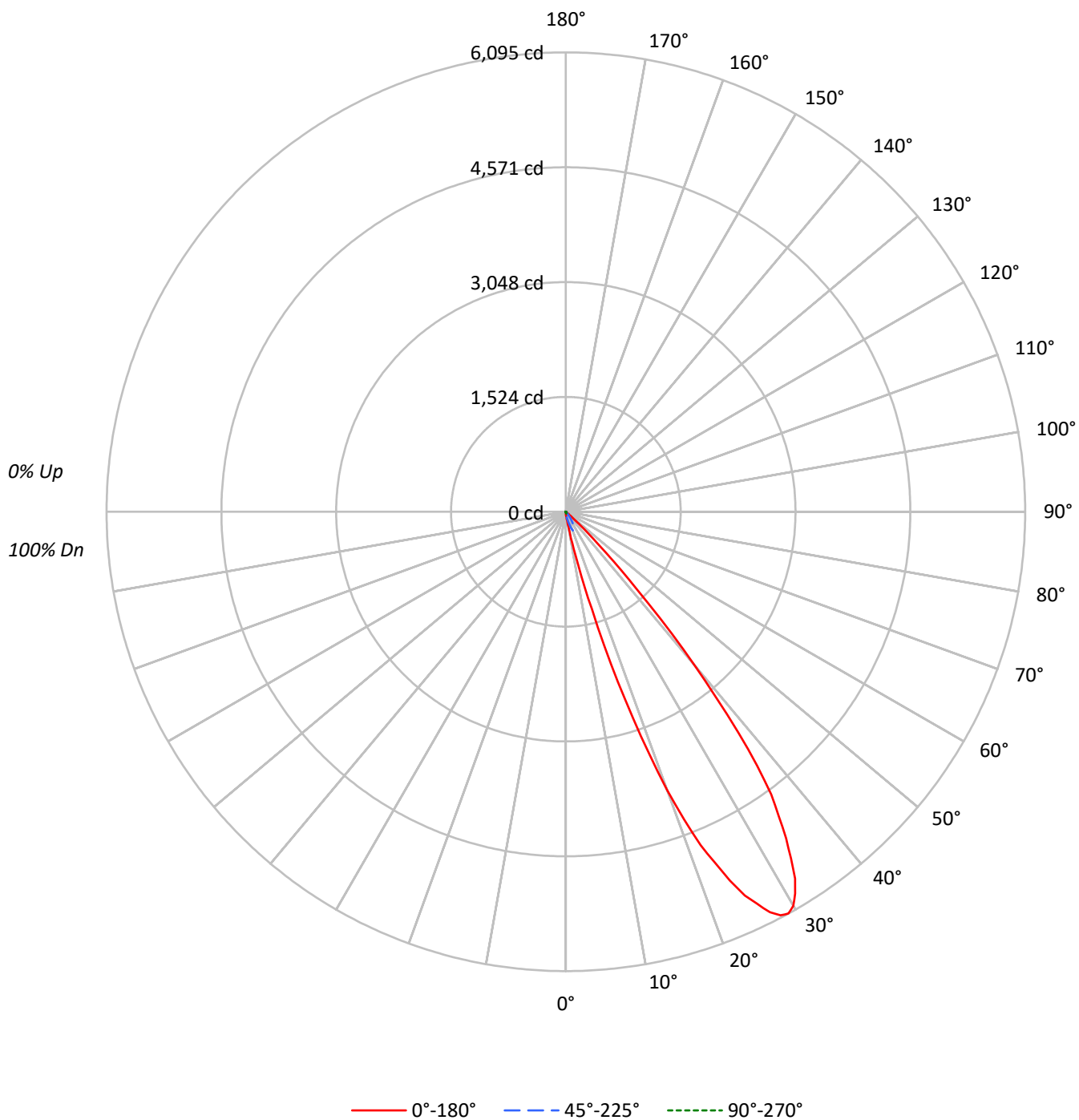
Lumens per Lamp: N/A  
Luminaire Lumens: 855.1 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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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### 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°  | 6469    | 6469  | 6469 | 6469 | 6469 |
| 5°  | 14858   | 11094 | 6141 | 3764 | 3236 |
| 10° | 46804   | 19349 | 5010 | 2071 | 1559 |
| 15° | 303225  | 35755 | 3700 | 704  | 182  |
| 20° | 915190  | 61185 | 2544 | 0    | 0    |
| 25° | 1359151 | 61746 | 1500 | 0    | 0    |
| 30° | 1528438 | 46944 | 582  | 0    | 0    |
| 35° | 1318759 | 28027 | 428  | 0    | 0    |
| 40° | 759394  | 9561  | 0    | 0    | 0    |
| 45° | 185229  | 3845  | 248  | 0    | 248  |
| 50° | 22242   | 1058  | 273  | 273  | 785  |
| 55° | 2982    | 0     | 612  | 612  | 1185 |
| 60° | 351     | 0     | 1009 | 1009 | 1710 |
| 65° | 415     | 415   | 1608 | 1608 | 2439 |
| 70° | 513     | 513   | 1988 | 1988 | 2500 |
| 75° | 0       | 678   | 2626 | 1949 | 2626 |
| 80° | 0       | 1010  | 2904 | 2020 | 2904 |
| 85° | 0       | 2013  | 5787 | 2013 | 2013 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 186438 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.9    | 0.5       |
| 10°-20°   | 79.2   | 9.3       |
| 20°-30°   | 345.4  | 40.4      |
| 30°-40°   | 347.8  | 40.7      |
| 40°-50°   | 69.8   | 8.2       |
| 50°-60°   | 3.5    | 0.4       |
| 60°-70°   | 2.3    | 0.3       |
| 70°-80°   | 2.0    | 0.2       |
| 80°-90°   | 1.1    | 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°    | 428.6  | 50.1      |
| 0°-40°    | 776.4  | 90.8      |
| 0°-60°    | 849.6  | 99.4      |
| 0°-90°    | 855.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 855.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 30   | 30  | 30  | 30   | 30   |      |
| 5°  | 68   | 50  | 28  | 17   | 15   | 11   |
| 15° | 1336 | 158 | 16  | 3    | 1    | 523  |
| 25° | 5618 | 255 | 6   | 0    | 0    | 2533 |
| 35° | 4926 | 105 | 2   | 0    | 0    | 2931 |
| 45° | 597  | 12  | 1   | 0    | 1    | 650  |
| 55° | 8    | 0   | 2   | 2    | 3    | 14   |
| 65° | 1    | 1   | 3   | 3    | 5    | 1    |
| 75° | 0    | 1   | 3   | 2    | 3    | 0    |
| 85° | 0    | 1   | 2   | 1    | 1    | 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°    | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5  |
| 2.5°  | 44.2   | 44.2   | 43.4   | 43.4   | 42.7   | 43.4   | 41.9   | 42.7   | 42.7   | 41.9   | 38.0  |
| 5°    | 67.5   | 69.0   | 68.3   | 68.3   | 67.5   | 68.3   | 66.7   | 65.2   | 63.6   | 63.6   | 50.4  |
| 7.5°  | 110.9  | 110.1  | 108.6  | 109.4  | 107.0  | 105.5  | 103.9  | 103.2  | 98.5   | 96.2   | 65.9  |
| 10°   | 210.2  | 214.9  | 211.0  | 210.2  | 196.2  | 195.5  | 186.2  | 173.0  | 161.3  | 155.1  | 86.9  |
| 12.5° | 578.7  | 603.5  | 564.7  | 546.1  | 535.2  | 493.3  | 475.5  | 429.7  | 385.5  | 352.2  | 110.1 |
| 15°   | 1335.7 | 1397.0 | 1318.7 | 1324.1 | 1258.9 | 1139.5 | 1034.8 | 944.8  | 838.5  | 731.5  | 157.5 |
| 17.5° | 2617.2 | 2567.5 | 2524.9 | 2452.7 | 2320.1 | 2144.8 | 1919.1 | 1690.2 | 1492.4 | 1285.3 | 219.5 |
| 20°   | 3921.9 | 3877.7 | 3780.7 | 3623.2 | 3454.1 | 3194.3 | 2925.9 | 2582.3 | 2249.5 | 1937.7 | 262.2 |
| 21°   | 4371.0 | 4356.3 | 4197.2 | 4100.3 | 3839.7 | 3591.4 | 3281.9 | 2914.3 | 2539.6 | 2170.4 | 269.2 |
| 22°   | 4772.0 | 4683.6 | 4598.3 | 4454.8 | 4195.7 | 3925.8 | 3581.3 | 3194.3 | 2787.8 | 2377.5 | 269.9 |
| 23°   | 5049.7 | 5009.4 | 4928.7 | 4766.6 | 4509.1 | 4191.8 | 3828.8 | 3423.9 | 2995.7 | 2524.1 | 267.6 |
| 24°   | 5356.9 | 5305.7 | 5187.8 | 4998.5 | 4738.7 | 4425.3 | 4011.1 | 3609.3 | 3143.9 | 2647.4 | 261.4 |
| 25°   | 5617.5 | 5537.6 | 5398.0 | 5194.0 | 4910.1 | 4586.6 | 4170.1 | 3728.7 | 3247.0 | 2730.4 | 255.2 |
| 26°   | 5786.6 | 5743.2 | 5564.0 | 5342.2 | 5038.1 | 4704.5 | 4279.5 | 3820.3 | 3313.7 | 2768.4 | 245.1 |
| 27°   | 5962.7 | 5882.8 | 5706.7 | 5451.5 | 5121.9 | 4781.3 | 4341.5 | 3864.5 | 3337.0 | 2770.0 | 232.7 |
| 28°   | 6063.6 | 5976.7 | 5777.3 | 5508.9 | 5176.2 | 4824.0 | 4377.2 | 3878.4 | 3332.4 | 2745.9 | 218.0 |
| 29°   | 6095.4 | 5986.0 | 5791.3 | 5518.2 | 5189.4 | 4827.1 | 4371.8 | 3858.3 | 3291.2 | 2687.0 | 200.9 |
| 30°   | 6036.4 | 5924.7 | 5740.1 | 5474.0 | 5147.5 | 4788.3 | 4321.4 | 3791.6 | 3218.3 | 2602.4 | 185.4 |
| 31°   | 5907.6 | 5813.0 | 5634.6 | 5367.8 | 5054.4 | 4697.6 | 4207.3 | 3682.2 | 3094.2 | 2489.2 | 167.5 |
| 32°   | 5737.8 | 5644.7 | 5469.4 | 5228.1 | 4909.3 | 4549.4 | 4051.4 | 3511.5 | 2948.4 | 2320.1 | 149.7 |
| 33°   | 5482.6 | 5429.0 | 5271.6 | 5041.2 | 4722.4 | 4337.6 | 3842.0 | 3307.5 | 2740.5 | 2132.4 | 134.2 |
| 34°   | 5224.3 | 5156.8 | 5046.6 | 4794.5 | 4451.7 | 4067.7 | 3568.9 | 3026.0 | 2486.9 | 1922.2 | 119.5 |
| 35°   | 4926.4 | 4886.1 | 4713.1 | 4511.4 | 4167.0 | 3774.5 | 3278.8 | 2752.1 | 2191.3 | 1687.9 | 104.7 |
| 36°   | 4637.8 | 4575.8 | 4378.8 | 4165.4 | 3831.1 | 3406.8 | 2917.4 | 2422.5 | 1936.1 | 1468.4 | 89.2  |
| 37°   | 4219.0 | 4124.3 | 3983.9 | 3759.0 | 3368.0 | 3006.6 | 2559.8 | 2100.6 | 1622.0 | 1231.0 | 72.1  |
| 38°   | 3726.4 | 3682.2 | 3487.5 | 3261.0 | 2937.5 | 2594.7 | 2152.5 | 1763.1 | 1338.1 | 1027.8 | 55.1  |
| 39°   | 3145.4 | 3144.6 | 2958.5 | 2794.8 | 2478.3 | 2169.6 | 1770.9 | 1431.1 | 1104.6 | 827.7  | 42.7  |
| 40°   | 2652.9 | 2561.3 | 2446.5 | 2241.0 | 1998.2 | 1736.0 | 1386.9 | 1120.1 | 857.1  | 667.1  | 33.4  |
| 42.5° | 1390.8 | 1383.1 | 1315.6 | 1161.2 | 1025.5 | 871.1  | 692.7  | 577.1  | 451.5  | 367.7  | 20.9  |
| 45°   | 597.3  | 601.2  | 554.6  | 531.3  | 478.6  | 414.2  | 349.8  | 291.7  | 249.8  | 202.5  | 12.4  |
| 47.5° | 151.3  | 145.1  | 143.5  | 148.9  | 148.9  | 144.3  | 129.5  | 121.8  | 112.5  | 103.2  | 7.0   |
| 50°   | 65.2   | 63.6   | 62.1   | 62.1   | 58.2   | 55.8   | 52.0   | 47.3   | 43.4   | 38.8   | 3.1   |
| 52.5° | 24.0   | 24.8   | 25.6   | 24.8   | 24.8   | 24.0   | 24.0   | 23.3   | 20.9   | 18.6   | 1.6   |
| 55°   | 7.8    | 7.8    | 7.8    | 8.5    | 8.5    | 9.3    | 9.3    | 9.3    | 9.3    | 8.5    | 0.0   |
| 57.5° | 1.6    | 1.6    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.1    | 3.1    | 0.0   |
| 60°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 72.5° | 0.8    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.8    | 0.0    | 0.8    | 0.8    | 0.0    | 0.8    | 0.8    | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   |



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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   | 0.8 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.8 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.8 |
| 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°    | 29.5  | 29.5 | 29.5   | 29.5 | 29.5   | 29.5 |
| 2.5°  | 34.1  | 30.3 | 25.6   | 21.7 | 20.9   | 20.2 |
| 5°    | 38.0  | 27.9 | 20.9   | 17.1 | 15.5   | 14.7 |
| 7.5°  | 41.1  | 25.6 | 17.1   | 12.4 | 10.9   | 10.1 |
| 10°   | 42.7  | 22.5 | 14.0   | 9.3  | 7.0    | 7.0  |
| 12.5° | 43.4  | 19.4 | 10.1   | 6.2  | 3.9    | 3.9  |
| 15°   | 42.7  | 16.3 | 7.8    | 3.1  | 0.8    | 0.8  |
| 17.5° | 38.8  | 13.2 | 4.7    | 0.8  | 0.0    | 0.0  |
| 20°   | 33.4  | 10.9 | 3.1    | 0.0  | 0.0    | 0.0  |
| 21°   | 31.8  | 9.3  | 2.3    | 0.0  | 0.0    | 0.0  |
| 22°   | 29.5  | 8.5  | 1.6    | 0.0  | 0.0    | 0.0  |
| 23°   | 27.1  | 7.8  | 1.6    | 0.0  | 0.0    | 0.0  |
| 24°   | 24.8  | 7.0  | 0.8    | 0.0  | 0.0    | 0.0  |
| 25°   | 23.3  | 6.2  | 0.8    | 0.0  | 0.0    | 0.0  |
| 26°   | 21.7  | 5.4  | 0.8    | 0.0  | 0.0    | 0.0  |
| 27°   | 19.4  | 4.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 17.8  | 3.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 15.5  | 3.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 13.2  | 2.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 10.9  | 2.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 9.3   | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 7.8   | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 7.0   | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 6.2   | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 4.7   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 3.9   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 3.1   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 2.3   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 2.3   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.8   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.8  | 0.0    | 0.0  | 0.8    | 0.8  |
| 47.5° | 0.0   | 0.8  | 0.0    | 0.0  | 0.8    | 1.6  |
| 50°   | 0.0   | 0.8  | 0.8    | 0.8  | 1.6    | 2.3  |
| 52.5° | 0.0   | 1.6  | 0.8    | 0.8  | 2.3    | 2.3  |
| 55°   | 0.8   | 1.6  | 0.8    | 1.6  | 3.1    | 3.1  |
| 57.5° | 0.8   | 1.6  | 1.6    | 2.3  | 3.1    | 3.9  |
| 60°   | 1.6   | 2.3  | 2.3    | 2.3  | 3.9    | 3.9  |
| 62.5° | 1.6   | 2.3  | 3.1    | 3.1  | 3.9    | 4.7  |
| 65°   | 1.6   | 3.1  | 3.1    | 3.1  | 3.9    | 4.7  |
| 67.5° | 2.3   | 3.1  | 3.1    | 3.1  | 3.9    | 4.7  |
| 70°   | 2.3   | 3.1  | 3.1    | 3.1  | 3.9    | 3.9  |
| 72.5° | 2.3   | 3.1  | 2.3    | 3.1  | 3.1    | 3.9  |
| 75°   | 2.3   | 3.1  | 2.3    | 2.3  | 3.1    | 3.1  |
| 77.5° | 1.6   | 2.3  | 2.3    | 1.6  | 2.3    | 2.3  |
| 80°   | 1.6   | 2.3  | 1.6    | 1.6  | 2.3    | 2.3  |



TEST NUMBER: P1344354

CATALOG NUMBER: P3A13R20W2N902765DE010 E3CA301MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.6   | 2.3 | 1.6    | 0.8  | 1.6    | 1.6  |
| 85°   | 1.6   | 2.3 | 1.6    | 0.8  | 0.8    | 0.8  |
| 87.5° | 1.6   | 2.3 | 1.6    | 0.8  | 0.0    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)