

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P

Luminaire Tested: **4APN-X-22L940-UNV-NP**

Issue Date: 06/06/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 06/06/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN-X-22L940-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

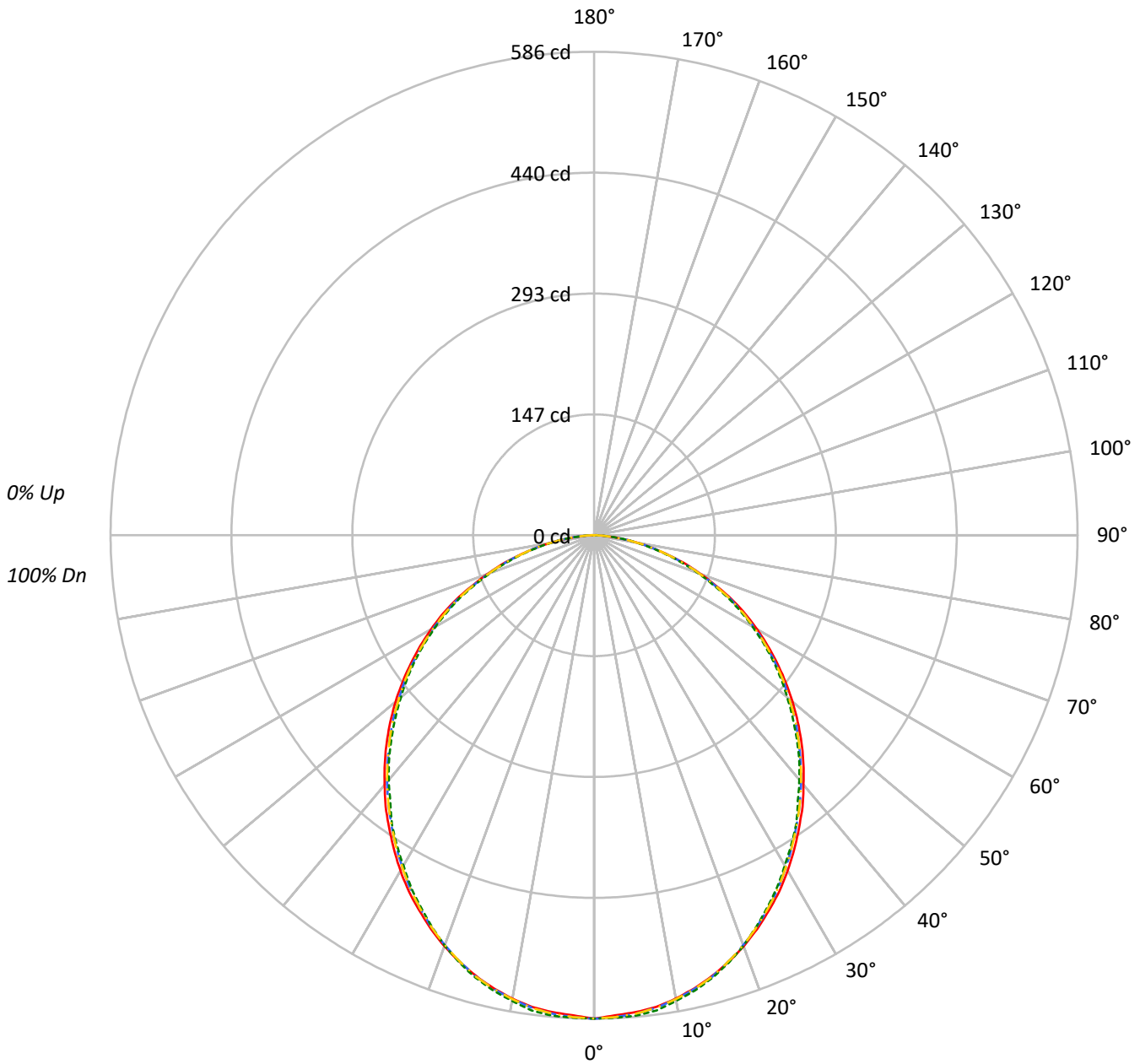
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1524.5 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 25 FT

TEST NUMBER: P  
CATALOG NUMBER: 4APN-X-22L940-UNV-NP

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



TEST NUMBER: P  
 CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 70  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 60  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 59  | 52  | 47  | 57  | 51  | 46  | 44  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5406 | 5406 | 5406 | 5406 |
| 5°  | 5373 | 5413 | 5373 | 5413 |
| 10° | 5343 | 5369 | 5343 | 5369 |
| 15° | 5282 | 5303 | 5282 | 5303 |
| 20° | 5206 | 5198 | 5206 | 5198 |
| 25° | 5106 | 5061 | 5106 | 5061 |
| 30° | 5001 | 4924 | 5001 | 4924 |
| 35° | 4876 | 4812 | 4876 | 4812 |
| 40° | 4756 | 4662 | 4756 | 4662 |
| 45° | 4640 | 4528 | 4640 | 4528 |
| 50° | 4508 | 4385 | 4508 | 4385 |
| 55° | 4362 | 4258 | 4362 | 4258 |
| 60° | 4211 | 4093 | 4211 | 4093 |
| 65° | 4030 | 3906 | 4030 | 3906 |
| 70° | 3725 | 3609 | 3725 | 3609 |
| 75° | 3365 | 3265 | 3365 | 3265 |
| 80° | 2890 | 2811 | 2890 | 2811 |
| 85° | 2191 | 2191 | 2191 | 2191 |



TEST NUMBER: P  
 CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.3   | 3.6       |
| 10°-20°   | 156.2  | 10.2      |
| 20°-30°   | 230.2  | 15.1      |
| 30°-40°   | 268.7  | 17.6      |
| 40°-50°   | 270.9  | 17.8      |
| 50°-60°   | 239.4  | 15.7      |
| 60°-70°   | 179.1  | 11.7      |
| 70°-80°   | 99.3   | 6.5       |
| 80°-90°   | 25.5   | 1.7       |
| 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°    | 441.7  | 29.0      |
| 0°-40°    | 710.4  | 46.6      |
| 0°-60°    | 1220.8 | 80.1      |
| 0°-90°    | 1524.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1524.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 586 | 586 | 586  | 586  | 586  |      |
| 5°  | 580 | 584 | 580  | 584  | 580  | 55   |
| 15° | 553 | 555 | 553  | 555  | 553  | 156  |
| 25° | 502 | 497 | 502  | 497  | 502  | 231  |
| 35° | 433 | 427 | 433  | 427  | 433  | 271  |
| 45° | 356 | 347 | 356  | 347  | 356  | 274  |
| 55° | 271 | 265 | 271  | 265  | 271  | 243  |
| 65° | 185 | 179 | 185  | 179  | 185  | 182  |
| 75° | 94  | 92  | 94   | 92   | 94   | 100  |
| 85° | 21  | 21  | 21   | 21   | 21   | 25   |
| 90° | 0   | 0   | 0    | 0    | 0    |      |



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 100°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 |
| 2.5°  | 582.4 | 585.3 | 588.1 | 587.4 | 585.3 | 583.8 | 584.5 | 584.5 | 585.3 | 585.3 | 585.3 |
| 5°    | 580.2 | 583.1 | 585.3 | 584.5 | 582.4 | 581.7 | 581.7 | 581.7 | 583.1 | 584.5 | 583.1 |
| 7.5°  | 576.7 | 578.8 | 581.0 | 580.2 | 578.1 | 577.4 | 577.4 | 578.1 | 579.6 | 581.0 | 579.6 |
| 10°   | 570.3 | 573.1 | 575.2 | 573.8 | 571.6 | 570.3 | 570.3 | 570.3 | 571.6 | 573.1 | 571.6 |
| 12.5° | 562.3 | 564.5 | 566.7 | 565.9 | 563.8 | 562.3 | 562.3 | 562.3 | 563.8 | 565.2 | 563.8 |
| 15°   | 553.0 | 555.2 | 557.3 | 556.6 | 554.5 | 553.0 | 553.0 | 553.0 | 554.5 | 555.2 | 554.5 |
| 17.5° | 542.3 | 544.4 | 546.7 | 545.2 | 542.3 | 540.9 | 540.9 | 540.9 | 542.3 | 543.1 | 542.3 |
| 20°   | 530.2 | 532.3 | 533.7 | 532.3 | 529.4 | 528.0 | 527.3 | 527.3 | 528.8 | 529.4 | 528.8 |
| 22.5° | 516.6 | 518.0 | 519.5 | 518.0 | 515.1 | 513.7 | 513.0 | 512.3 | 513.0 | 513.7 | 513.0 |
| 25°   | 501.6 | 503.0 | 504.4 | 503.0 | 500.1 | 498.0 | 497.2 | 496.5 | 497.2 | 497.2 | 497.2 |
| 27.5° | 486.5 | 487.3 | 488.7 | 486.5 | 483.7 | 481.5 | 480.8 | 480.1 | 480.8 | 480.8 | 480.8 |
| 30°   | 469.4 | 470.0 | 471.5 | 469.4 | 465.8 | 463.6 | 462.9 | 462.2 | 462.2 | 462.2 | 462.2 |
| 32.5° | 451.5 | 452.9 | 454.4 | 451.5 | 447.9 | 445.7 | 445.0 | 444.3 | 445.0 | 445.0 | 445.0 |
| 35°   | 432.9 | 433.6 | 435.0 | 432.9 | 429.3 | 427.2 | 425.7 | 424.9 | 426.4 | 427.2 | 426.4 |
| 37.5° | 415.0 | 415.7 | 416.4 | 414.3 | 410.7 | 408.5 | 407.1 | 406.4 | 405.7 | 405.7 | 405.7 |
| 40°   | 394.9 | 395.6 | 397.1 | 394.9 | 391.4 | 389.2 | 387.8 | 387.1 | 387.1 | 387.1 | 387.1 |
| 42.5° | 375.6 | 376.4 | 377.0 | 374.9 | 371.3 | 369.2 | 367.8 | 367.0 | 367.8 | 367.8 | 367.8 |
| 45°   | 355.6 | 355.6 | 356.3 | 354.1 | 351.3 | 349.2 | 347.7 | 347.0 | 347.0 | 347.0 | 347.0 |
| 47.5° | 334.9 | 335.5 | 336.3 | 334.1 | 331.3 | 329.2 | 327.7 | 326.3 | 326.3 | 326.3 | 326.3 |
| 50°   | 314.1 | 314.1 | 314.8 | 312.7 | 309.8 | 307.7 | 306.9 | 306.2 | 305.5 | 305.5 | 305.5 |
| 52.5° | 292.6 | 293.4 | 294.0 | 291.9 | 289.8 | 287.7 | 286.2 | 285.5 | 285.5 | 285.5 | 285.5 |
| 55°   | 271.2 | 271.2 | 271.9 | 270.4 | 268.3 | 266.2 | 264.7 | 264.0 | 264.7 | 264.7 | 264.7 |
| 57.5° | 249.7 | 250.4 | 251.2 | 248.9 | 246.8 | 244.7 | 244.0 | 243.2 | 243.2 | 243.2 | 243.2 |
| 60°   | 228.2 | 228.2 | 228.9 | 227.5 | 225.3 | 223.2 | 222.5 | 221.8 | 221.8 | 221.8 | 221.8 |
| 62.5° | 206.8 | 206.8 | 207.5 | 206.1 | 203.9 | 201.7 | 201.1 | 200.4 | 200.4 | 200.4 | 200.4 |
| 65°   | 184.6 | 184.6 | 184.6 | 183.2 | 181.7 | 181.0 | 180.3 | 179.6 | 178.9 | 178.9 | 178.9 |
| 67.5° | 160.2 | 160.2 | 161.0 | 159.5 | 158.1 | 157.4 | 156.6 | 156.0 | 155.3 | 155.3 | 155.3 |
| 70°   | 138.1 | 138.1 | 138.8 | 138.1 | 136.6 | 135.9 | 135.3 | 134.5 | 133.8 | 133.8 | 133.8 |
| 72.5° | 116.6 | 116.6 | 116.6 | 115.9 | 115.2 | 114.5 | 113.8 | 113.0 | 112.3 | 112.3 | 112.3 |
| 75°   | 94.4  | 94.4  | 95.2  | 94.4  | 93.8  | 93.0  | 92.3  | 92.3  | 91.6  | 91.6  | 91.6  |
| 77.5° | 73.7  | 74.4  | 75.1  | 74.4  | 73.7  | 73.0  | 72.3  | 72.3  | 71.5  | 71.5  | 71.5  |
| 80°   | 54.4  | 55.1  | 55.8  | 55.1  | 54.4  | 53.7  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  |
| 82.5° | 36.5  | 37.2  | 37.9  | 37.2  | 36.5  | 36.5  | 35.8  | 35.8  | 35.8  | 35.8  | 35.8  |
| 85°   | 20.7  | 21.5  | 22.2  | 22.2  | 21.5  | 21.5  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  |
| 87.5° | 7.8   | 8.6   | 9.3   | 9.3   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   |
| 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: P

CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  | 170°  | 180°  | 190°  | 200°  | 210°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 |
| 2.5°  | 584.5 | 584.5 | 583.8 | 585.3 | 587.4 | 588.1 | 585.3 | 582.4 | 585.3 | 588.1 | 587.4 |
| 5°    | 581.7 | 581.7 | 581.7 | 582.4 | 584.5 | 585.3 | 583.1 | 580.2 | 583.1 | 585.3 | 584.5 |
| 7.5°  | 578.1 | 577.4 | 577.4 | 578.1 | 580.2 | 581.0 | 578.8 | 576.7 | 578.8 | 581.0 | 580.2 |
| 10°   | 570.3 | 570.3 | 570.3 | 571.6 | 573.8 | 575.2 | 573.1 | 570.3 | 573.1 | 575.2 | 573.8 |
| 12.5° | 562.3 | 562.3 | 562.3 | 563.8 | 565.9 | 566.7 | 564.5 | 562.3 | 564.5 | 566.7 | 565.9 |
| 15°   | 553.0 | 553.0 | 553.0 | 554.5 | 556.6 | 557.3 | 555.2 | 553.0 | 555.2 | 557.3 | 556.6 |
| 17.5° | 540.9 | 540.9 | 540.9 | 542.3 | 545.2 | 546.7 | 544.4 | 542.3 | 544.4 | 546.7 | 545.2 |
| 20°   | 527.3 | 527.3 | 528.0 | 529.4 | 532.3 | 533.7 | 532.3 | 530.2 | 532.3 | 533.7 | 532.3 |
| 22.5° | 512.3 | 513.0 | 513.7 | 515.1 | 518.0 | 519.5 | 518.0 | 516.6 | 518.0 | 519.5 | 518.0 |
| 25°   | 496.5 | 497.2 | 498.0 | 500.1 | 503.0 | 504.4 | 503.0 | 501.6 | 503.0 | 504.4 | 503.0 |
| 27.5° | 480.1 | 480.8 | 481.5 | 483.7 | 486.5 | 488.7 | 487.3 | 486.5 | 487.3 | 488.7 | 486.5 |
| 30°   | 462.2 | 462.9 | 463.6 | 465.8 | 469.4 | 471.5 | 470.0 | 469.4 | 470.0 | 471.5 | 469.4 |
| 32.5° | 444.3 | 445.0 | 445.7 | 447.9 | 451.5 | 454.4 | 452.9 | 451.5 | 452.9 | 454.4 | 451.5 |
| 35°   | 424.9 | 425.7 | 427.2 | 429.3 | 432.9 | 435.0 | 433.6 | 432.9 | 433.6 | 435.0 | 432.9 |
| 37.5° | 406.4 | 407.1 | 408.5 | 410.7 | 414.3 | 416.4 | 415.7 | 415.0 | 415.7 | 416.4 | 414.3 |
| 40°   | 387.1 | 387.8 | 389.2 | 391.4 | 394.9 | 397.1 | 395.6 | 394.9 | 395.6 | 397.1 | 394.9 |
| 42.5° | 367.0 | 367.8 | 369.2 | 371.3 | 374.9 | 377.0 | 376.4 | 375.6 | 376.4 | 377.0 | 374.9 |
| 45°   | 347.0 | 347.7 | 349.2 | 351.3 | 354.1 | 356.3 | 355.6 | 355.6 | 355.6 | 356.3 | 354.1 |
| 47.5° | 326.3 | 327.7 | 329.2 | 331.3 | 334.1 | 336.3 | 335.5 | 334.9 | 335.5 | 336.3 | 334.1 |
| 50°   | 306.2 | 306.9 | 307.7 | 309.8 | 312.7 | 314.8 | 314.1 | 314.1 | 314.1 | 314.8 | 312.7 |
| 52.5° | 285.5 | 286.2 | 287.7 | 289.8 | 291.9 | 294.0 | 293.4 | 292.6 | 293.4 | 294.0 | 291.9 |
| 55°   | 264.0 | 264.7 | 266.2 | 268.3 | 270.4 | 271.9 | 271.2 | 271.2 | 271.2 | 271.9 | 270.4 |
| 57.5° | 243.2 | 244.0 | 244.7 | 246.8 | 248.9 | 251.2 | 250.4 | 249.7 | 250.4 | 251.2 | 248.9 |
| 60°   | 221.8 | 222.5 | 223.2 | 225.3 | 227.5 | 228.9 | 228.2 | 228.2 | 228.2 | 228.9 | 227.5 |
| 62.5° | 200.4 | 201.1 | 201.7 | 203.9 | 206.1 | 207.5 | 206.8 | 206.8 | 206.8 | 207.5 | 206.1 |
| 65°   | 179.6 | 180.3 | 181.0 | 181.7 | 183.2 | 184.6 | 184.6 | 184.6 | 184.6 | 184.6 | 183.2 |
| 67.5° | 156.0 | 156.6 | 157.4 | 158.1 | 159.5 | 161.0 | 160.2 | 160.2 | 160.2 | 161.0 | 159.5 |
| 70°   | 134.5 | 135.3 | 135.9 | 136.6 | 138.1 | 138.8 | 138.1 | 138.1 | 138.1 | 138.8 | 138.1 |
| 72.5° | 113.0 | 113.8 | 114.5 | 115.2 | 115.9 | 116.6 | 116.6 | 116.6 | 116.6 | 116.6 | 115.9 |
| 75°   | 92.3  | 92.3  | 93.0  | 93.8  | 94.4  | 95.2  | 94.4  | 94.4  | 94.4  | 95.2  | 94.4  |
| 77.5° | 72.3  | 72.3  | 73.0  | 73.7  | 74.4  | 75.1  | 74.4  | 73.7  | 74.4  | 75.1  | 74.4  |
| 80°   | 52.9  | 52.9  | 53.7  | 54.4  | 55.1  | 55.8  | 55.1  | 54.4  | 55.1  | 55.8  | 55.1  |
| 82.5° | 35.8  | 35.8  | 36.5  | 36.5  | 37.2  | 37.9  | 37.2  | 36.5  | 37.2  | 37.9  | 37.2  |
| 85°   | 20.7  | 20.7  | 21.5  | 21.5  | 22.2  | 22.2  | 21.5  | 20.7  | 21.5  | 22.2  | 22.2  |
| 87.5° | 8.6   | 8.6   | 8.6   | 8.6   | 9.3   | 9.3   | 8.6   | 7.8   | 8.6   | 9.3   | 9.3   |
| 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: P

CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**CANDELA DISTRIBUTION (continued):**

|       | 220°  | 230°  | 240°  | 250°  | 260°  | 270°  | 280°  | 290°  | 300°  | 310°  | 320°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 | 585.9 |
| 2.5°  | 585.3 | 583.8 | 584.5 | 584.5 | 585.3 | 585.3 | 585.3 | 584.5 | 584.5 | 583.8 | 585.3 |
| 5°    | 582.4 | 581.7 | 581.7 | 581.7 | 583.1 | 584.5 | 583.1 | 581.7 | 581.7 | 581.7 | 582.4 |
| 7.5°  | 578.1 | 577.4 | 577.4 | 578.1 | 579.6 | 581.0 | 579.6 | 578.1 | 577.4 | 577.4 | 578.1 |
| 10°   | 571.6 | 570.3 | 570.3 | 570.3 | 571.6 | 573.1 | 571.6 | 570.3 | 570.3 | 570.3 | 571.6 |
| 12.5° | 563.8 | 562.3 | 562.3 | 562.3 | 563.8 | 565.2 | 563.8 | 562.3 | 562.3 | 562.3 | 563.8 |
| 15°   | 554.5 | 553.0 | 553.0 | 553.0 | 554.5 | 555.2 | 554.5 | 553.0 | 553.0 | 553.0 | 554.5 |
| 17.5° | 542.3 | 540.9 | 540.9 | 540.9 | 542.3 | 543.1 | 542.3 | 540.9 | 540.9 | 540.9 | 542.3 |
| 20°   | 529.4 | 528.0 | 527.3 | 527.3 | 528.8 | 529.4 | 528.8 | 527.3 | 527.3 | 528.0 | 529.4 |
| 22.5° | 515.1 | 513.7 | 513.0 | 512.3 | 513.0 | 513.7 | 513.0 | 512.3 | 513.0 | 513.7 | 515.1 |
| 25°   | 500.1 | 498.0 | 497.2 | 496.5 | 497.2 | 497.2 | 497.2 | 496.5 | 497.2 | 498.0 | 500.1 |
| 27.5° | 483.7 | 481.5 | 480.8 | 480.1 | 480.8 | 480.8 | 480.8 | 480.1 | 480.8 | 481.5 | 483.7 |
| 30°   | 465.8 | 463.6 | 462.9 | 462.2 | 462.2 | 462.2 | 462.2 | 462.2 | 462.9 | 463.6 | 465.8 |
| 32.5° | 447.9 | 445.7 | 445.0 | 444.3 | 445.0 | 445.0 | 445.0 | 444.3 | 445.0 | 445.7 | 447.9 |
| 35°   | 429.3 | 427.2 | 425.7 | 424.9 | 426.4 | 427.2 | 426.4 | 424.9 | 425.7 | 427.2 | 429.3 |
| 37.5° | 410.7 | 408.5 | 407.1 | 406.4 | 405.7 | 405.7 | 405.7 | 406.4 | 407.1 | 408.5 | 410.7 |
| 40°   | 391.4 | 389.2 | 387.8 | 387.1 | 387.1 | 387.1 | 387.1 | 387.1 | 387.8 | 389.2 | 391.4 |
| 42.5° | 371.3 | 369.2 | 367.8 | 367.0 | 367.8 | 367.8 | 367.8 | 367.0 | 367.8 | 369.2 | 371.3 |
| 45°   | 351.3 | 349.2 | 347.7 | 347.0 | 347.0 | 347.0 | 347.0 | 347.0 | 347.7 | 349.2 | 351.3 |
| 47.5° | 331.3 | 329.2 | 327.7 | 326.3 | 326.3 | 326.3 | 326.3 | 326.3 | 327.7 | 329.2 | 331.3 |
| 50°   | 309.8 | 307.7 | 306.9 | 306.2 | 305.5 | 305.5 | 305.5 | 306.2 | 306.9 | 307.7 | 309.8 |
| 52.5° | 289.8 | 287.7 | 286.2 | 285.5 | 285.5 | 285.5 | 285.5 | 285.5 | 286.2 | 287.7 | 289.8 |
| 55°   | 268.3 | 266.2 | 264.7 | 264.0 | 264.7 | 264.7 | 264.7 | 264.0 | 264.7 | 266.2 | 268.3 |
| 57.5° | 246.8 | 244.7 | 244.0 | 243.2 | 243.2 | 243.2 | 243.2 | 243.2 | 244.0 | 244.7 | 246.8 |
| 60°   | 225.3 | 223.2 | 222.5 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 222.5 | 223.2 | 225.3 |
| 62.5° | 203.9 | 201.7 | 201.1 | 200.4 | 200.4 | 200.4 | 200.4 | 200.4 | 201.1 | 201.7 | 203.9 |
| 65°   | 181.7 | 181.0 | 180.3 | 179.6 | 178.9 | 178.9 | 178.9 | 179.6 | 180.3 | 181.0 | 181.7 |
| 67.5° | 158.1 | 157.4 | 156.6 | 156.0 | 155.3 | 155.3 | 155.3 | 156.0 | 156.6 | 157.4 | 158.1 |
| 70°   | 136.6 | 135.9 | 135.3 | 134.5 | 133.8 | 133.8 | 133.8 | 134.5 | 135.3 | 135.9 | 136.6 |
| 72.5° | 115.2 | 114.5 | 113.8 | 113.0 | 112.3 | 112.3 | 112.3 | 113.0 | 113.8 | 114.5 | 115.2 |
| 75°   | 93.8  | 93.0  | 92.3  | 92.3  | 91.6  | 91.6  | 91.6  | 92.3  | 92.3  | 93.0  | 93.8  |
| 77.5° | 73.7  | 73.0  | 72.3  | 72.3  | 71.5  | 71.5  | 71.5  | 72.3  | 72.3  | 73.0  | 73.7  |
| 80°   | 54.4  | 53.7  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 53.7  | 54.4  |
| 82.5° | 36.5  | 36.5  | 35.8  | 35.8  | 35.8  | 35.8  | 35.8  | 35.8  | 35.8  | 36.5  | 36.5  |
| 85°   | 21.5  | 21.5  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 20.7  | 21.5  | 21.5  |
| 87.5° | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   |
| 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: P  
 CATALOG NUMBER: 4APN-X-22L940-UNV-NP

**CANDELA DISTRIBUTION (continued):**

|       | 330°  | 340°  | 350°  | 360°  |
|-------|-------|-------|-------|-------|
| 0°    | 585.9 | 585.9 | 585.9 | 585.9 |
| 2.5°  | 587.4 | 588.1 | 585.3 | 582.4 |
| 5°    | 584.5 | 585.3 | 583.1 | 580.2 |
| 7.5°  | 580.2 | 581.0 | 578.8 | 576.7 |
| 10°   | 573.8 | 575.2 | 573.1 | 570.3 |
| 12.5° | 565.9 | 566.7 | 564.5 | 562.3 |
| 15°   | 556.6 | 557.3 | 555.2 | 553.0 |
| 17.5° | 545.2 | 546.7 | 544.4 | 542.3 |
| 20°   | 532.3 | 533.7 | 532.3 | 530.2 |
| 22.5° | 518.0 | 519.5 | 518.0 | 516.6 |
| 25°   | 503.0 | 504.4 | 503.0 | 501.6 |
| 27.5° | 486.5 | 488.7 | 487.3 | 486.5 |
| 30°   | 469.4 | 471.5 | 470.0 | 469.4 |
| 32.5° | 451.5 | 454.4 | 452.9 | 451.5 |
| 35°   | 432.9 | 435.0 | 433.6 | 432.9 |
| 37.5° | 414.3 | 416.4 | 415.7 | 415.0 |
| 40°   | 394.9 | 397.1 | 395.6 | 394.9 |
| 42.5° | 374.9 | 377.0 | 376.4 | 375.6 |
| 45°   | 354.1 | 356.3 | 355.6 | 355.6 |
| 47.5° | 334.1 | 336.3 | 335.5 | 334.9 |
| 50°   | 312.7 | 314.8 | 314.1 | 314.1 |
| 52.5° | 291.9 | 294.0 | 293.4 | 292.6 |
| 55°   | 270.4 | 271.9 | 271.2 | 271.2 |
| 57.5° | 248.9 | 251.2 | 250.4 | 249.7 |
| 60°   | 227.5 | 228.9 | 228.2 | 228.2 |
| 62.5° | 206.1 | 207.5 | 206.8 | 206.8 |
| 65°   | 183.2 | 184.6 | 184.6 | 184.6 |
| 67.5° | 159.5 | 161.0 | 160.2 | 160.2 |
| 70°   | 138.1 | 138.8 | 138.1 | 138.1 |
| 72.5° | 115.9 | 116.6 | 116.6 | 116.6 |
| 75°   | 94.4  | 95.2  | 94.4  | 94.4  |
| 77.5° | 74.4  | 75.1  | 74.4  | 73.7  |
| 80°   | 55.1  | 55.8  | 55.1  | 54.4  |
| 82.5° | 37.2  | 37.9  | 37.2  | 36.5  |
| 85°   | 22.2  | 22.2  | 21.5  | 20.7  |
| 87.5° | 9.3   | 9.3   | 8.6   | 7.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)