

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-22L840-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-22L840-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

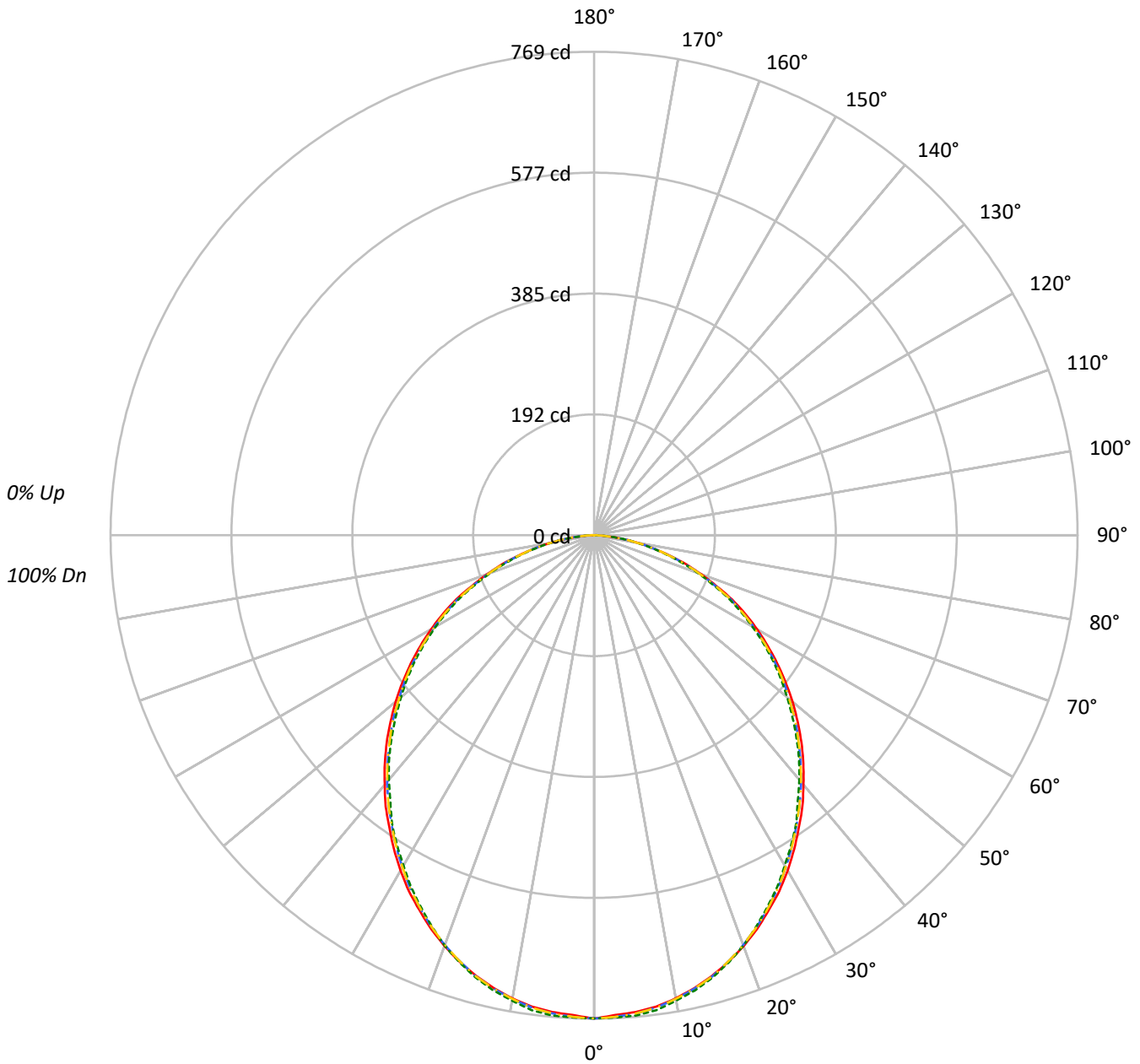
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1999.6 lumens
Efficiency: N/A
Efficacy: 83.3 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_{in}): 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-22L840-UNV-NP

Luminous Intensity Polar Plot



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



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-22L840-UNV-NP

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 7091 | 7091 | 7091 | 7091 |
| 5° | 7049 | 7101 | 7049 | 7101 |
| 10° | 7007 | 7042 | 7007 | 7042 |
| 15° | 6929 | 6956 | 6929 | 6956 |
| 20° | 6828 | 6819 | 6828 | 6819 |
| 25° | 6696 | 6639 | 6696 | 6639 |
| 30° | 6558 | 6458 | 6558 | 6458 |
| 35° | 6395 | 6310 | 6395 | 6310 |
| 40° | 6239 | 6115 | 6239 | 6115 |
| 45° | 6086 | 5938 | 6086 | 5938 |
| 50° | 5912 | 5751 | 5912 | 5751 |
| 55° | 5722 | 5585 | 5722 | 5585 |
| 60° | 5525 | 5368 | 5525 | 5368 |
| 65° | 5285 | 5122 | 5285 | 5122 |
| 70° | 4885 | 4734 | 4885 | 4734 |
| 75° | 4417 | 4281 | 4417 | 4281 |
| 80° | 3794 | 3687 | 3794 | 3687 |
| 85° | 2879 | 2879 | 2879 | 2879 |



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-22L840-UNV-NP

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.5 | 3.6 |
| 10°-20° | 204.9 | 10.2 |
| 20°-30° | 301.9 | 15.1 |
| 30°-40° | 352.5 | 17.6 |
| 40°-50° | 355.4 | 17.8 |
| 50°-60° | 314.1 | 15.7 |
| 60°-70° | 234.9 | 11.7 |
| 70°-80° | 130.2 | 6.5 |
| 80°-90° | 33.4 | 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° | 579.3 | 29.0 |
| 0°-40° | 931.8 | 46.6 |
| 0°-60° | 1601.2 | 80.1 |
| 0°-90° | 1999.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1999.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 769 | 769 | 769 | 769 | 769 | |
| 5° | 761 | 767 | 761 | 767 | 761 | 72 |
| 15° | 725 | 728 | 725 | 728 | 725 | 204 |
| 25° | 658 | 652 | 658 | 652 | 658 | 303 |
| 35° | 568 | 560 | 568 | 560 | 568 | 355 |
| 45° | 466 | 455 | 466 | 455 | 466 | 360 |
| 55° | 356 | 347 | 356 | 347 | 356 | 318 |
| 65° | 242 | 235 | 242 | 235 | 242 | 238 |
| 75° | 124 | 120 | 124 | 120 | 124 | 132 |
| 85° | 27 | 27 | 27 | 27 | 27 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-22L840-UNV-NP

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 |
| 2.5° | 763.9 | 767.7 | 771.4 | 770.4 | 767.7 | 765.8 | 766.7 | 766.7 | 767.7 | 767.7 | 767.7 |
| 5° | 761.1 | 764.8 | 767.7 | 766.7 | 763.9 | 763.0 | 763.0 | 763.0 | 764.8 | 766.7 | 764.8 |
| 7.5° | 756.4 | 759.2 | 762.0 | 761.1 | 758.3 | 757.3 | 757.3 | 758.3 | 760.1 | 762.0 | 760.1 |
| 10° | 747.9 | 751.7 | 754.5 | 752.6 | 749.8 | 747.9 | 747.9 | 747.9 | 749.8 | 751.7 | 749.8 |
| 12.5° | 737.6 | 740.5 | 743.2 | 742.3 | 739.5 | 737.6 | 737.6 | 737.6 | 739.5 | 741.4 | 739.5 |
| 15° | 725.4 | 728.2 | 731.1 | 730.1 | 727.3 | 725.4 | 725.4 | 725.4 | 727.3 | 728.2 | 727.3 |
| 17.5° | 711.3 | 714.2 | 716.9 | 715.1 | 711.3 | 709.5 | 709.5 | 709.5 | 711.3 | 712.2 | 711.3 |
| 20° | 695.4 | 698.2 | 700.1 | 698.2 | 694.5 | 692.6 | 691.6 | 691.6 | 693.5 | 694.5 | 693.5 |
| 22.5° | 677.6 | 679.4 | 681.3 | 679.4 | 675.6 | 673.8 | 672.9 | 672.0 | 672.9 | 673.8 | 672.9 |
| 25° | 657.8 | 659.7 | 661.6 | 659.7 | 656.0 | 653.1 | 652.2 | 651.3 | 652.2 | 652.2 | 652.2 |
| 27.5° | 638.1 | 639.0 | 641.0 | 638.1 | 634.4 | 631.6 | 630.6 | 629.7 | 630.6 | 630.6 | 630.6 |
| 30° | 615.6 | 616.5 | 618.5 | 615.6 | 610.9 | 608.2 | 607.1 | 606.2 | 606.2 | 606.2 | 606.2 |
| 32.5° | 592.2 | 594.0 | 595.9 | 592.2 | 587.5 | 584.6 | 583.7 | 582.8 | 583.7 | 583.7 | 583.7 |
| 35° | 567.8 | 568.7 | 570.5 | 567.8 | 563.1 | 560.2 | 558.4 | 557.4 | 559.3 | 560.2 | 559.3 |
| 37.5° | 544.3 | 545.3 | 546.2 | 543.3 | 538.6 | 535.9 | 533.9 | 533.0 | 532.1 | 532.1 | 532.1 |
| 40° | 518.0 | 519.0 | 520.8 | 518.0 | 513.4 | 510.5 | 508.7 | 507.7 | 507.7 | 507.7 | 507.7 |
| 42.5° | 492.7 | 493.6 | 494.6 | 491.7 | 487.1 | 484.2 | 482.4 | 481.4 | 482.4 | 482.4 | 482.4 |
| 45° | 466.4 | 466.4 | 467.4 | 464.5 | 460.8 | 458.0 | 456.1 | 455.1 | 455.1 | 455.1 | 455.1 |
| 47.5° | 439.1 | 440.2 | 441.1 | 438.2 | 434.5 | 431.7 | 429.8 | 427.9 | 427.9 | 427.9 | 427.9 |
| 50° | 411.9 | 411.9 | 412.9 | 410.1 | 406.3 | 403.6 | 402.5 | 401.6 | 400.7 | 400.7 | 400.7 |
| 52.5° | 383.8 | 384.8 | 385.7 | 382.9 | 380.0 | 377.3 | 375.3 | 374.4 | 374.4 | 374.4 | 374.4 |
| 55° | 355.7 | 355.7 | 356.6 | 354.7 | 351.9 | 349.1 | 347.2 | 346.3 | 347.2 | 347.2 | 347.2 |
| 57.5° | 327.5 | 328.4 | 329.4 | 326.6 | 323.8 | 320.9 | 320.0 | 319.1 | 319.1 | 319.1 | 319.1 |
| 60° | 299.4 | 299.4 | 300.3 | 298.5 | 295.6 | 292.8 | 291.8 | 290.9 | 290.9 | 290.9 | 290.9 |
| 62.5° | 271.3 | 271.3 | 272.2 | 270.2 | 267.5 | 264.6 | 263.7 | 262.8 | 262.8 | 262.8 | 262.8 |
| 65° | 242.1 | 242.1 | 242.1 | 240.3 | 238.3 | 237.4 | 236.5 | 235.6 | 234.6 | 234.6 | 234.6 |
| 67.5° | 210.2 | 210.2 | 211.1 | 209.3 | 207.4 | 206.4 | 205.5 | 204.6 | 203.7 | 203.7 | 203.7 |
| 70° | 181.1 | 181.1 | 182.1 | 181.1 | 179.2 | 178.3 | 177.4 | 176.5 | 175.5 | 175.5 | 175.5 |
| 72.5° | 153.0 | 153.0 | 153.0 | 152.0 | 151.1 | 150.2 | 149.2 | 148.3 | 147.3 | 147.3 | 147.3 |
| 75° | 123.9 | 123.9 | 124.8 | 123.9 | 122.9 | 122.0 | 121.1 | 121.1 | 120.1 | 120.1 | 120.1 |
| 77.5° | 96.6 | 97.6 | 98.6 | 97.6 | 96.6 | 95.7 | 94.8 | 94.8 | 93.9 | 93.9 | 93.9 |
| 80° | 71.4 | 72.3 | 73.2 | 72.3 | 71.4 | 70.3 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 |
| 82.5° | 47.9 | 48.8 | 49.7 | 48.8 | 47.9 | 47.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 |
| 85° | 27.2 | 28.1 | 29.1 | 29.1 | 28.1 | 28.1 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| 87.5° | 10.3 | 11.2 | 12.2 | 12.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 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: P
 CATALOG NUMBER: 4APN-X-22L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 |
| 2.5° | 766.7 | 766.7 | 765.8 | 767.7 | 770.4 | 771.4 | 767.7 | 763.9 | 767.7 | 771.4 | 770.4 |
| 5° | 763.0 | 763.0 | 763.0 | 763.9 | 766.7 | 767.7 | 764.8 | 761.1 | 764.8 | 767.7 | 766.7 |
| 7.5° | 758.3 | 757.3 | 757.3 | 758.3 | 761.1 | 762.0 | 759.2 | 756.4 | 759.2 | 762.0 | 761.1 |
| 10° | 747.9 | 747.9 | 747.9 | 749.8 | 752.6 | 754.5 | 751.7 | 747.9 | 751.7 | 754.5 | 752.6 |
| 12.5° | 737.6 | 737.6 | 737.6 | 739.5 | 742.3 | 743.2 | 740.5 | 737.6 | 740.5 | 743.2 | 742.3 |
| 15° | 725.4 | 725.4 | 725.4 | 727.3 | 730.1 | 731.1 | 728.2 | 725.4 | 728.2 | 731.1 | 730.1 |
| 17.5° | 709.5 | 709.5 | 709.5 | 711.3 | 715.1 | 716.9 | 714.2 | 711.3 | 714.2 | 716.9 | 715.1 |
| 20° | 691.6 | 691.6 | 692.6 | 694.5 | 698.2 | 700.1 | 698.2 | 695.4 | 698.2 | 700.1 | 698.2 |
| 22.5° | 672.0 | 672.9 | 673.8 | 675.6 | 679.4 | 681.3 | 679.4 | 677.6 | 679.4 | 681.3 | 679.4 |
| 25° | 651.3 | 652.2 | 653.1 | 656.0 | 659.7 | 661.6 | 659.7 | 657.8 | 659.7 | 661.6 | 659.7 |
| 27.5° | 629.7 | 630.6 | 631.6 | 634.4 | 638.1 | 641.0 | 639.0 | 638.1 | 639.0 | 641.0 | 638.1 |
| 30° | 606.2 | 607.1 | 608.2 | 610.9 | 615.6 | 618.5 | 616.5 | 615.6 | 616.5 | 618.5 | 615.6 |
| 32.5° | 582.8 | 583.7 | 584.6 | 587.5 | 592.2 | 595.9 | 594.0 | 592.2 | 594.0 | 595.9 | 592.2 |
| 35° | 557.4 | 558.4 | 560.2 | 563.1 | 567.8 | 570.5 | 568.7 | 567.8 | 568.7 | 570.5 | 567.8 |
| 37.5° | 533.0 | 533.9 | 535.9 | 538.6 | 543.3 | 546.2 | 545.3 | 544.3 | 545.3 | 546.2 | 543.3 |
| 40° | 507.7 | 508.7 | 510.5 | 513.4 | 518.0 | 520.8 | 519.0 | 518.0 | 519.0 | 520.8 | 518.0 |
| 42.5° | 481.4 | 482.4 | 484.2 | 487.1 | 491.7 | 494.6 | 493.6 | 492.7 | 493.6 | 494.6 | 491.7 |
| 45° | 455.1 | 456.1 | 458.0 | 460.8 | 464.5 | 467.4 | 466.4 | 466.4 | 466.4 | 467.4 | 464.5 |
| 47.5° | 427.9 | 429.8 | 431.7 | 434.5 | 438.2 | 441.1 | 440.2 | 439.1 | 440.2 | 441.1 | 438.2 |
| 50° | 401.6 | 402.5 | 403.6 | 406.3 | 410.1 | 412.9 | 411.9 | 411.9 | 411.9 | 412.9 | 410.1 |
| 52.5° | 374.4 | 375.3 | 377.3 | 380.0 | 382.9 | 385.7 | 384.8 | 383.8 | 384.8 | 385.7 | 382.9 |
| 55° | 346.3 | 347.2 | 349.1 | 351.9 | 354.7 | 356.6 | 355.7 | 355.7 | 355.7 | 356.6 | 354.7 |
| 57.5° | 319.1 | 320.0 | 320.9 | 323.8 | 326.6 | 329.4 | 328.4 | 327.5 | 328.4 | 329.4 | 326.6 |
| 60° | 290.9 | 291.8 | 292.8 | 295.6 | 298.5 | 300.3 | 299.4 | 299.4 | 299.4 | 300.3 | 298.5 |
| 62.5° | 262.8 | 263.7 | 264.6 | 267.5 | 270.2 | 272.2 | 271.3 | 271.3 | 271.3 | 272.2 | 270.2 |
| 65° | 235.6 | 236.5 | 237.4 | 238.3 | 240.3 | 242.1 | 242.1 | 242.1 | 242.1 | 242.1 | 240.3 |
| 67.5° | 204.6 | 205.5 | 206.4 | 207.4 | 209.3 | 211.1 | 210.2 | 210.2 | 210.2 | 211.1 | 209.3 |
| 70° | 176.5 | 177.4 | 178.3 | 179.2 | 181.1 | 182.1 | 181.1 | 181.1 | 181.1 | 182.1 | 181.1 |
| 72.5° | 148.3 | 149.2 | 150.2 | 151.1 | 152.0 | 153.0 | 153.0 | 153.0 | 153.0 | 153.0 | 152.0 |
| 75° | 121.1 | 121.1 | 122.0 | 122.9 | 123.9 | 124.8 | 123.9 | 123.9 | 123.9 | 124.8 | 123.9 |
| 77.5° | 94.8 | 94.8 | 95.7 | 96.6 | 97.6 | 98.6 | 97.6 | 96.6 | 97.6 | 98.6 | 97.6 |
| 80° | 69.4 | 69.4 | 70.3 | 71.4 | 72.3 | 73.2 | 72.3 | 71.4 | 72.3 | 73.2 | 72.3 |
| 82.5° | 46.9 | 46.9 | 47.9 | 47.9 | 48.8 | 49.7 | 48.8 | 47.9 | 48.8 | 49.7 | 48.8 |
| 85° | 27.2 | 27.2 | 28.1 | 28.1 | 29.1 | 29.1 | 28.1 | 27.2 | 28.1 | 29.1 | 29.1 |
| 87.5° | 11.2 | 11.2 | 11.2 | 11.2 | 12.2 | 12.2 | 11.2 | 10.3 | 11.2 | 12.2 | 12.2 |
| 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: P
 CATALOG NUMBER: 4APN-X-22L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 |
| 2.5° | 767.7 | 765.8 | 766.7 | 766.7 | 767.7 | 767.7 | 767.7 | 766.7 | 766.7 | 765.8 | 767.7 |
| 5° | 763.9 | 763.0 | 763.0 | 763.0 | 764.8 | 766.7 | 764.8 | 763.0 | 763.0 | 763.0 | 763.9 |
| 7.5° | 758.3 | 757.3 | 757.3 | 758.3 | 760.1 | 762.0 | 760.1 | 758.3 | 757.3 | 757.3 | 758.3 |
| 10° | 749.8 | 747.9 | 747.9 | 747.9 | 749.8 | 751.7 | 749.8 | 747.9 | 747.9 | 747.9 | 749.8 |
| 12.5° | 739.5 | 737.6 | 737.6 | 737.6 | 739.5 | 741.4 | 739.5 | 737.6 | 737.6 | 737.6 | 739.5 |
| 15° | 727.3 | 725.4 | 725.4 | 725.4 | 727.3 | 728.2 | 727.3 | 725.4 | 725.4 | 725.4 | 727.3 |
| 17.5° | 711.3 | 709.5 | 709.5 | 709.5 | 711.3 | 712.2 | 711.3 | 709.5 | 709.5 | 709.5 | 711.3 |
| 20° | 694.5 | 692.6 | 691.6 | 691.6 | 693.5 | 694.5 | 693.5 | 691.6 | 691.6 | 692.6 | 694.5 |
| 22.5° | 675.6 | 673.8 | 672.9 | 672.0 | 672.9 | 673.8 | 672.9 | 672.0 | 672.9 | 673.8 | 675.6 |
| 25° | 656.0 | 653.1 | 652.2 | 651.3 | 652.2 | 652.2 | 652.2 | 651.3 | 652.2 | 653.1 | 656.0 |
| 27.5° | 634.4 | 631.6 | 630.6 | 629.7 | 630.6 | 630.6 | 630.6 | 629.7 | 630.6 | 631.6 | 634.4 |
| 30° | 610.9 | 608.2 | 607.1 | 606.2 | 606.2 | 606.2 | 606.2 | 606.2 | 607.1 | 608.2 | 610.9 |
| 32.5° | 587.5 | 584.6 | 583.7 | 582.8 | 583.7 | 583.7 | 583.7 | 582.8 | 583.7 | 584.6 | 587.5 |
| 35° | 563.1 | 560.2 | 558.4 | 557.4 | 559.3 | 560.2 | 559.3 | 557.4 | 558.4 | 560.2 | 563.1 |
| 37.5° | 538.6 | 535.9 | 533.9 | 533.0 | 532.1 | 532.1 | 532.1 | 533.0 | 533.9 | 535.9 | 538.6 |
| 40° | 513.4 | 510.5 | 508.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 508.7 | 510.5 | 513.4 |
| 42.5° | 487.1 | 484.2 | 482.4 | 481.4 | 482.4 | 482.4 | 482.4 | 481.4 | 482.4 | 484.2 | 487.1 |
| 45° | 460.8 | 458.0 | 456.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 456.1 | 458.0 | 460.8 |
| 47.5° | 434.5 | 431.7 | 429.8 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 429.8 | 431.7 | 434.5 |
| 50° | 406.3 | 403.6 | 402.5 | 401.6 | 400.7 | 400.7 | 400.7 | 401.6 | 402.5 | 403.6 | 406.3 |
| 52.5° | 380.0 | 377.3 | 375.3 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 375.3 | 377.3 | 380.0 |
| 55° | 351.9 | 349.1 | 347.2 | 346.3 | 347.2 | 347.2 | 347.2 | 346.3 | 347.2 | 349.1 | 351.9 |
| 57.5° | 323.8 | 320.9 | 320.0 | 319.1 | 319.1 | 319.1 | 319.1 | 319.1 | 320.0 | 320.9 | 323.8 |
| 60° | 295.6 | 292.8 | 291.8 | 290.9 | 290.9 | 290.9 | 290.9 | 290.9 | 291.8 | 292.8 | 295.6 |
| 62.5° | 267.5 | 264.6 | 263.7 | 262.8 | 262.8 | 262.8 | 262.8 | 262.8 | 263.7 | 264.6 | 267.5 |
| 65° | 238.3 | 237.4 | 236.5 | 235.6 | 234.6 | 234.6 | 234.6 | 235.6 | 236.5 | 237.4 | 238.3 |
| 67.5° | 207.4 | 206.4 | 205.5 | 204.6 | 203.7 | 203.7 | 203.7 | 204.6 | 205.5 | 206.4 | 207.4 |
| 70° | 179.2 | 178.3 | 177.4 | 176.5 | 175.5 | 175.5 | 175.5 | 176.5 | 177.4 | 178.3 | 179.2 |
| 72.5° | 151.1 | 150.2 | 149.2 | 148.3 | 147.3 | 147.3 | 147.3 | 148.3 | 149.2 | 150.2 | 151.1 |
| 75° | 122.9 | 122.0 | 121.1 | 121.1 | 120.1 | 120.1 | 120.1 | 121.1 | 121.1 | 122.0 | 122.9 |
| 77.5° | 96.6 | 95.7 | 94.8 | 94.8 | 93.9 | 93.9 | 93.9 | 94.8 | 94.8 | 95.7 | 96.6 |
| 80° | 71.4 | 70.3 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 | 70.3 | 71.4 |
| 82.5° | 47.9 | 47.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 47.9 | 47.9 |
| 85° | 28.1 | 28.1 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 28.1 | 28.1 |
| 87.5° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 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: P
 CATALOG NUMBER: 4APN-X-22L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|-------|-------|-------|-------|
| 0° | 768.6 | 768.6 | 768.6 | 768.6 |
| 2.5° | 770.4 | 771.4 | 767.7 | 763.9 |
| 5° | 766.7 | 767.7 | 764.8 | 761.1 |
| 7.5° | 761.1 | 762.0 | 759.2 | 756.4 |
| 10° | 752.6 | 754.5 | 751.7 | 747.9 |
| 12.5° | 742.3 | 743.2 | 740.5 | 737.6 |
| 15° | 730.1 | 731.1 | 728.2 | 725.4 |
| 17.5° | 715.1 | 716.9 | 714.2 | 711.3 |
| 20° | 698.2 | 700.1 | 698.2 | 695.4 |
| 22.5° | 679.4 | 681.3 | 679.4 | 677.6 |
| 25° | 659.7 | 661.6 | 659.7 | 657.8 |
| 27.5° | 638.1 | 641.0 | 639.0 | 638.1 |
| 30° | 615.6 | 618.5 | 616.5 | 615.6 |
| 32.5° | 592.2 | 595.9 | 594.0 | 592.2 |
| 35° | 567.8 | 570.5 | 568.7 | 567.8 |
| 37.5° | 543.3 | 546.2 | 545.3 | 544.3 |
| 40° | 518.0 | 520.8 | 519.0 | 518.0 |
| 42.5° | 491.7 | 494.6 | 493.6 | 492.7 |
| 45° | 464.5 | 467.4 | 466.4 | 466.4 |
| 47.5° | 438.2 | 441.1 | 440.2 | 439.1 |
| 50° | 410.1 | 412.9 | 411.9 | 411.9 |
| 52.5° | 382.9 | 385.7 | 384.8 | 383.8 |
| 55° | 354.7 | 356.6 | 355.7 | 355.7 |
| 57.5° | 326.6 | 329.4 | 328.4 | 327.5 |
| 60° | 298.5 | 300.3 | 299.4 | 299.4 |
| 62.5° | 270.2 | 272.2 | 271.3 | 271.3 |
| 65° | 240.3 | 242.1 | 242.1 | 242.1 |
| 67.5° | 209.3 | 211.1 | 210.2 | 210.2 |
| 70° | 181.1 | 182.1 | 181.1 | 181.1 |
| 72.5° | 152.0 | 153.0 | 153.0 | 153.0 |
| 75° | 123.9 | 124.8 | 123.9 | 123.9 |
| 77.5° | 97.6 | 98.6 | 97.6 | 96.6 |
| 80° | 72.3 | 73.2 | 72.3 | 71.4 |
| 82.5° | 48.8 | 49.7 | 48.8 | 47.9 |
| 85° | 29.1 | 29.1 | 28.1 | 27.2 |
| 87.5° | 12.2 | 12.2 | 11.2 | 10.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)