

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-37L930-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-37L930-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

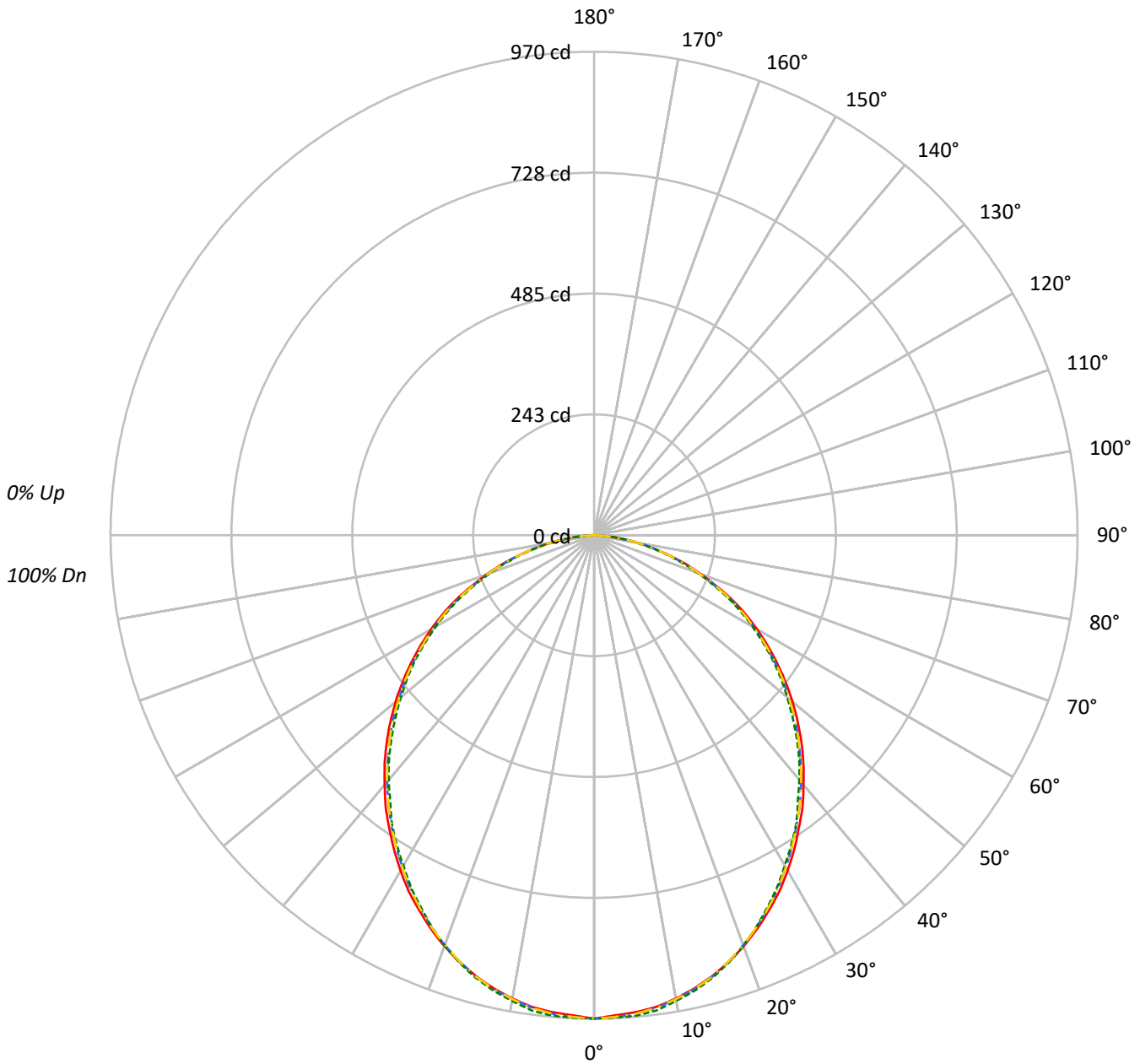
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2523.5 lumens
Efficiency: N/A
Efficacy: 61.9 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): 40.8
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-37L930-UNV-NP

Luminous Intensity Polar Plot



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



TEST NUMBER: P
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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° | 8948 | 8948 | 8948 | 8948 |
| 5° | 8895 | 8960 | 8895 | 8960 |
| 10° | 8843 | 8887 | 8843 | 8887 |
| 15° | 8745 | 8778 | 8745 | 8778 |
| 20° | 8617 | 8605 | 8617 | 8605 |
| 25° | 8451 | 8379 | 8451 | 8379 |
| 30° | 8277 | 8151 | 8277 | 8151 |
| 35° | 8070 | 7963 | 8070 | 7963 |
| 40° | 7873 | 7717 | 7873 | 7717 |
| 45° | 7680 | 7495 | 7680 | 7495 |
| 50° | 7462 | 7259 | 7462 | 7259 |
| 55° | 7219 | 7049 | 7219 | 7049 |
| 60° | 6971 | 6774 | 6971 | 6774 |
| 65° | 6672 | 6464 | 6672 | 6464 |
| 70° | 6167 | 5975 | 6167 | 5975 |
| 75° | 5575 | 5404 | 5575 | 5404 |
| 80° | 4782 | 4660 | 4782 | 4660 |
| 85° | 3642 | 3642 | 3642 | 3642 |



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-37L930-UNV-NP

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.5 | 3.6 |
| 10°-20° | 258.5 | 10.2 |
| 20°-30° | 381.0 | 15.1 |
| 30°-40° | 444.8 | 17.6 |
| 40°-50° | 448.4 | 17.8 |
| 50°-60° | 396.3 | 15.7 |
| 60°-70° | 296.4 | 11.7 |
| 70°-80° | 164.3 | 6.5 |
| 80°-90° | 42.1 | 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° | 731.1 | 29.0 |
| 0°-40° | 1175.9 | 46.6 |
| 0°-60° | 2020.7 | 80.1 |
| 0°-90° | 2523.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2523.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 970 | 970 | 970 | 970 | 970 | |
| 5° | 960 | 968 | 960 | 968 | 960 | 91 |
| 15° | 916 | 919 | 916 | 919 | 916 | 258 |
| 25° | 830 | 823 | 830 | 823 | 830 | 383 |
| 35° | 716 | 707 | 716 | 707 | 716 | 449 |
| 45° | 589 | 574 | 589 | 574 | 589 | 454 |
| 55° | 449 | 438 | 449 | 438 | 449 | 401 |
| 65° | 306 | 296 | 306 | 296 | 306 | 301 |
| 75° | 156 | 152 | 156 | 152 | 156 | 166 |
| 85° | 34 | 34 | 34 | 34 | 34 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-37L930-UNV-NP

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 |
| 2.5° | 964.0 | 968.7 | 973.4 | 972.3 | 968.7 | 966.3 | 967.5 | 967.5 | 968.7 | 968.7 | 968.7 |
| 5° | 960.4 | 965.2 | 968.7 | 967.5 | 964.0 | 962.8 | 962.8 | 962.8 | 965.2 | 967.5 | 965.2 |
| 7.5° | 954.5 | 958.1 | 961.6 | 960.4 | 956.9 | 955.7 | 955.7 | 956.9 | 959.2 | 961.6 | 959.2 |
| 10° | 943.9 | 948.6 | 952.1 | 949.8 | 946.2 | 943.9 | 943.9 | 943.9 | 946.2 | 948.6 | 946.2 |
| 12.5° | 930.9 | 934.4 | 938.0 | 936.8 | 933.2 | 930.9 | 930.9 | 930.9 | 933.2 | 935.6 | 933.2 |
| 15° | 915.5 | 919.0 | 922.6 | 921.4 | 917.9 | 915.5 | 915.5 | 915.5 | 917.9 | 919.0 | 917.9 |
| 17.5° | 897.7 | 901.3 | 904.8 | 902.5 | 897.7 | 895.4 | 895.4 | 895.4 | 897.7 | 898.9 | 897.7 |
| 20° | 877.6 | 881.2 | 883.5 | 881.2 | 876.4 | 874.1 | 872.9 | 872.9 | 875.2 | 876.4 | 875.2 |
| 22.5° | 855.1 | 857.5 | 859.8 | 857.5 | 852.7 | 850.4 | 849.2 | 848.0 | 849.2 | 850.4 | 849.2 |
| 25° | 830.2 | 832.6 | 835.0 | 832.6 | 827.9 | 824.3 | 823.1 | 821.9 | 823.1 | 823.1 | 823.1 |
| 27.5° | 805.4 | 806.5 | 808.9 | 805.4 | 800.6 | 797.1 | 795.9 | 794.7 | 795.9 | 795.9 | 795.9 |
| 30° | 776.9 | 778.1 | 780.5 | 776.9 | 771.0 | 767.4 | 766.3 | 765.1 | 765.1 | 765.1 | 765.1 |
| 32.5° | 747.3 | 749.7 | 752.0 | 747.3 | 741.4 | 737.8 | 736.6 | 735.5 | 736.6 | 736.6 | 736.6 |
| 35° | 716.5 | 717.7 | 720.1 | 716.5 | 710.6 | 707.0 | 704.7 | 703.5 | 705.9 | 707.0 | 705.9 |
| 37.5° | 686.9 | 688.1 | 689.3 | 685.7 | 679.8 | 676.2 | 673.9 | 672.7 | 671.5 | 671.5 | 671.5 |
| 40° | 653.7 | 654.9 | 657.3 | 653.7 | 647.8 | 644.3 | 641.9 | 640.7 | 640.7 | 640.7 | 640.7 |
| 42.5° | 621.8 | 622.9 | 624.1 | 620.6 | 614.6 | 611.1 | 608.7 | 607.5 | 608.7 | 608.7 | 608.7 |
| 45° | 588.6 | 588.6 | 589.8 | 586.2 | 581.5 | 577.9 | 575.6 | 574.4 | 574.4 | 574.4 | 574.4 |
| 47.5° | 554.2 | 555.4 | 556.6 | 553.1 | 548.3 | 544.8 | 542.4 | 540.0 | 540.0 | 540.0 | 540.0 |
| 50° | 519.9 | 519.9 | 521.1 | 517.5 | 512.8 | 509.2 | 508.0 | 506.9 | 505.7 | 505.7 | 505.7 |
| 52.5° | 484.4 | 485.5 | 486.7 | 483.2 | 479.6 | 476.1 | 473.7 | 472.5 | 472.5 | 472.5 | 472.5 |
| 55° | 448.8 | 448.8 | 450.0 | 447.6 | 444.1 | 440.5 | 438.2 | 437.0 | 438.2 | 438.2 | 438.2 |
| 57.5° | 413.3 | 414.5 | 415.7 | 412.1 | 408.5 | 405.0 | 403.8 | 402.6 | 402.6 | 402.6 | 402.6 |
| 60° | 377.8 | 377.8 | 378.9 | 376.6 | 373.0 | 369.5 | 368.3 | 367.1 | 367.1 | 367.1 | 367.1 |
| 62.5° | 342.2 | 342.2 | 343.4 | 341.0 | 337.5 | 333.9 | 332.7 | 331.6 | 331.6 | 331.6 | 331.6 |
| 65° | 305.6 | 305.6 | 305.6 | 303.2 | 300.8 | 299.6 | 298.5 | 297.3 | 296.1 | 296.1 | 296.1 |
| 67.5° | 265.3 | 265.3 | 266.5 | 264.1 | 261.8 | 260.6 | 259.4 | 258.2 | 257.0 | 257.0 | 257.0 |
| 70° | 228.6 | 228.6 | 229.8 | 228.6 | 226.2 | 225.1 | 223.9 | 222.7 | 221.5 | 221.5 | 221.5 |
| 72.5° | 193.1 | 193.1 | 193.1 | 191.9 | 190.7 | 189.5 | 188.3 | 187.1 | 186.0 | 186.0 | 186.0 |
| 75° | 156.4 | 156.4 | 157.5 | 156.4 | 155.2 | 154.0 | 152.8 | 152.8 | 151.6 | 151.6 | 151.6 |
| 77.5° | 122.0 | 123.2 | 124.4 | 123.2 | 122.0 | 120.8 | 119.6 | 119.6 | 118.4 | 118.4 | 118.4 |
| 80° | 90.0 | 91.2 | 92.4 | 91.2 | 90.0 | 88.8 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 |
| 82.5° | 60.4 | 61.6 | 62.8 | 61.6 | 60.4 | 60.4 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 |
| 85° | 34.4 | 35.5 | 36.7 | 36.7 | 35.5 | 35.5 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| 87.5° | 13.0 | 14.2 | 15.4 | 15.4 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 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-37L930-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 |
| 2.5° | 967.5 | 967.5 | 966.3 | 968.7 | 972.3 | 973.4 | 968.7 | 964.0 | 968.7 | 973.4 | 972.3 |
| 5° | 962.8 | 962.8 | 962.8 | 964.0 | 967.5 | 968.7 | 965.2 | 960.4 | 965.2 | 968.7 | 967.5 |
| 7.5° | 956.9 | 955.7 | 955.7 | 956.9 | 960.4 | 961.6 | 958.1 | 954.5 | 958.1 | 961.6 | 960.4 |
| 10° | 943.9 | 943.9 | 943.9 | 946.2 | 949.8 | 952.1 | 948.6 | 943.9 | 948.6 | 952.1 | 949.8 |
| 12.5° | 930.9 | 930.9 | 930.9 | 933.2 | 936.8 | 938.0 | 934.4 | 930.9 | 934.4 | 938.0 | 936.8 |
| 15° | 915.5 | 915.5 | 915.5 | 917.9 | 921.4 | 922.6 | 919.0 | 915.5 | 919.0 | 922.6 | 921.4 |
| 17.5° | 895.4 | 895.4 | 895.4 | 897.7 | 902.5 | 904.8 | 901.3 | 897.7 | 901.3 | 904.8 | 902.5 |
| 20° | 872.9 | 872.9 | 874.1 | 876.4 | 881.2 | 883.5 | 881.2 | 877.6 | 881.2 | 883.5 | 881.2 |
| 22.5° | 848.0 | 849.2 | 850.4 | 852.7 | 857.5 | 859.8 | 857.5 | 855.1 | 857.5 | 859.8 | 857.5 |
| 25° | 821.9 | 823.1 | 824.3 | 827.9 | 832.6 | 835.0 | 832.6 | 830.2 | 832.6 | 835.0 | 832.6 |
| 27.5° | 794.7 | 795.9 | 797.1 | 800.6 | 805.4 | 808.9 | 806.5 | 805.4 | 806.5 | 808.9 | 805.4 |
| 30° | 765.1 | 766.3 | 767.4 | 771.0 | 776.9 | 780.5 | 778.1 | 776.9 | 778.1 | 780.5 | 776.9 |
| 32.5° | 735.5 | 736.6 | 737.8 | 741.4 | 747.3 | 752.0 | 749.7 | 747.3 | 749.7 | 752.0 | 747.3 |
| 35° | 703.5 | 704.7 | 707.0 | 710.6 | 716.5 | 720.1 | 717.7 | 716.5 | 717.7 | 720.1 | 716.5 |
| 37.5° | 672.7 | 673.9 | 676.2 | 679.8 | 685.7 | 689.3 | 688.1 | 686.9 | 688.1 | 689.3 | 685.7 |
| 40° | 640.7 | 641.9 | 644.3 | 647.8 | 653.7 | 657.3 | 654.9 | 653.7 | 654.9 | 657.3 | 653.7 |
| 42.5° | 607.5 | 608.7 | 611.1 | 614.6 | 620.6 | 624.1 | 622.9 | 621.8 | 622.9 | 624.1 | 620.6 |
| 45° | 574.4 | 575.6 | 577.9 | 581.5 | 586.2 | 589.8 | 588.6 | 588.6 | 588.6 | 589.8 | 586.2 |
| 47.5° | 540.0 | 542.4 | 544.8 | 548.3 | 553.1 | 556.6 | 555.4 | 554.2 | 555.4 | 556.6 | 553.1 |
| 50° | 506.9 | 508.0 | 509.2 | 512.8 | 517.5 | 521.1 | 519.9 | 519.9 | 519.9 | 521.1 | 517.5 |
| 52.5° | 472.5 | 473.7 | 476.1 | 479.6 | 483.2 | 486.7 | 485.5 | 484.4 | 485.5 | 486.7 | 483.2 |
| 55° | 437.0 | 438.2 | 440.5 | 444.1 | 447.6 | 450.0 | 448.8 | 448.8 | 448.8 | 450.0 | 447.6 |
| 57.5° | 402.6 | 403.8 | 405.0 | 408.5 | 412.1 | 415.7 | 414.5 | 413.3 | 414.5 | 415.7 | 412.1 |
| 60° | 367.1 | 368.3 | 369.5 | 373.0 | 376.6 | 378.9 | 377.8 | 377.8 | 377.8 | 378.9 | 376.6 |
| 62.5° | 331.6 | 332.7 | 333.9 | 337.5 | 341.0 | 343.4 | 342.2 | 342.2 | 342.2 | 343.4 | 341.0 |
| 65° | 297.3 | 298.5 | 299.6 | 300.8 | 303.2 | 305.6 | 305.6 | 305.6 | 305.6 | 305.6 | 303.2 |
| 67.5° | 258.2 | 259.4 | 260.6 | 261.8 | 264.1 | 266.5 | 265.3 | 265.3 | 265.3 | 266.5 | 264.1 |
| 70° | 222.7 | 223.9 | 225.1 | 226.2 | 228.6 | 229.8 | 228.6 | 228.6 | 228.6 | 229.8 | 228.6 |
| 72.5° | 187.1 | 188.3 | 189.5 | 190.7 | 191.9 | 193.1 | 193.1 | 193.1 | 193.1 | 193.1 | 191.9 |
| 75° | 152.8 | 152.8 | 154.0 | 155.2 | 156.4 | 157.5 | 156.4 | 156.4 | 156.4 | 157.5 | 156.4 |
| 77.5° | 119.6 | 119.6 | 120.8 | 122.0 | 123.2 | 124.4 | 123.2 | 122.0 | 123.2 | 124.4 | 123.2 |
| 80° | 87.7 | 87.7 | 88.8 | 90.0 | 91.2 | 92.4 | 91.2 | 90.0 | 91.2 | 92.4 | 91.2 |
| 82.5° | 59.2 | 59.2 | 60.4 | 60.4 | 61.6 | 62.8 | 61.6 | 60.4 | 61.6 | 62.8 | 61.6 |
| 85° | 34.4 | 34.4 | 35.5 | 35.5 | 36.7 | 36.7 | 35.5 | 34.4 | 35.5 | 36.7 | 36.7 |
| 87.5° | 14.2 | 14.2 | 14.2 | 14.2 | 15.4 | 15.4 | 14.2 | 13.0 | 14.2 | 15.4 | 15.4 |
| 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-37L930-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 |
| 2.5° | 968.7 | 966.3 | 967.5 | 967.5 | 968.7 | 968.7 | 968.7 | 967.5 | 967.5 | 966.3 | 968.7 |
| 5° | 964.0 | 962.8 | 962.8 | 962.8 | 965.2 | 967.5 | 965.2 | 962.8 | 962.8 | 962.8 | 964.0 |
| 7.5° | 956.9 | 955.7 | 955.7 | 956.9 | 959.2 | 961.6 | 959.2 | 956.9 | 955.7 | 955.7 | 956.9 |
| 10° | 946.2 | 943.9 | 943.9 | 943.9 | 946.2 | 948.6 | 946.2 | 943.9 | 943.9 | 943.9 | 946.2 |
| 12.5° | 933.2 | 930.9 | 930.9 | 930.9 | 933.2 | 935.6 | 933.2 | 930.9 | 930.9 | 930.9 | 933.2 |
| 15° | 917.9 | 915.5 | 915.5 | 915.5 | 917.9 | 919.0 | 917.9 | 915.5 | 915.5 | 915.5 | 917.9 |
| 17.5° | 897.7 | 895.4 | 895.4 | 895.4 | 897.7 | 898.9 | 897.7 | 895.4 | 895.4 | 895.4 | 897.7 |
| 20° | 876.4 | 874.1 | 872.9 | 872.9 | 875.2 | 876.4 | 875.2 | 872.9 | 872.9 | 874.1 | 876.4 |
| 22.5° | 852.7 | 850.4 | 849.2 | 848.0 | 849.2 | 850.4 | 849.2 | 848.0 | 849.2 | 850.4 | 852.7 |
| 25° | 827.9 | 824.3 | 823.1 | 821.9 | 823.1 | 823.1 | 823.1 | 821.9 | 823.1 | 824.3 | 827.9 |
| 27.5° | 800.6 | 797.1 | 795.9 | 794.7 | 795.9 | 795.9 | 795.9 | 794.7 | 795.9 | 797.1 | 800.6 |
| 30° | 771.0 | 767.4 | 766.3 | 765.1 | 765.1 | 765.1 | 765.1 | 765.1 | 766.3 | 767.4 | 771.0 |
| 32.5° | 741.4 | 737.8 | 736.6 | 735.5 | 736.6 | 736.6 | 736.6 | 735.5 | 736.6 | 737.8 | 741.4 |
| 35° | 710.6 | 707.0 | 704.7 | 703.5 | 705.9 | 707.0 | 705.9 | 703.5 | 704.7 | 707.0 | 710.6 |
| 37.5° | 679.8 | 676.2 | 673.9 | 672.7 | 671.5 | 671.5 | 671.5 | 672.7 | 673.9 | 676.2 | 679.8 |
| 40° | 647.8 | 644.3 | 641.9 | 640.7 | 640.7 | 640.7 | 640.7 | 640.7 | 641.9 | 644.3 | 647.8 |
| 42.5° | 614.6 | 611.1 | 608.7 | 607.5 | 608.7 | 608.7 | 608.7 | 607.5 | 608.7 | 611.1 | 614.6 |
| 45° | 581.5 | 577.9 | 575.6 | 574.4 | 574.4 | 574.4 | 574.4 | 574.4 | 575.6 | 577.9 | 581.5 |
| 47.5° | 548.3 | 544.8 | 542.4 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 542.4 | 544.8 | 548.3 |
| 50° | 512.8 | 509.2 | 508.0 | 506.9 | 505.7 | 505.7 | 505.7 | 506.9 | 508.0 | 509.2 | 512.8 |
| 52.5° | 479.6 | 476.1 | 473.7 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 473.7 | 476.1 | 479.6 |
| 55° | 444.1 | 440.5 | 438.2 | 437.0 | 438.2 | 438.2 | 438.2 | 437.0 | 438.2 | 440.5 | 444.1 |
| 57.5° | 408.5 | 405.0 | 403.8 | 402.6 | 402.6 | 402.6 | 402.6 | 402.6 | 403.8 | 405.0 | 408.5 |
| 60° | 373.0 | 369.5 | 368.3 | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 | 368.3 | 369.5 | 373.0 |
| 62.5° | 337.5 | 333.9 | 332.7 | 331.6 | 331.6 | 331.6 | 331.6 | 331.6 | 332.7 | 333.9 | 337.5 |
| 65° | 300.8 | 299.6 | 298.5 | 297.3 | 296.1 | 296.1 | 296.1 | 297.3 | 298.5 | 299.6 | 300.8 |
| 67.5° | 261.8 | 260.6 | 259.4 | 258.2 | 257.0 | 257.0 | 257.0 | 258.2 | 259.4 | 260.6 | 261.8 |
| 70° | 226.2 | 225.1 | 223.9 | 222.7 | 221.5 | 221.5 | 221.5 | 222.7 | 223.9 | 225.1 | 226.2 |
| 72.5° | 190.7 | 189.5 | 188.3 | 187.1 | 186.0 | 186.0 | 186.0 | 187.1 | 188.3 | 189.5 | 190.7 |
| 75° | 155.2 | 154.0 | 152.8 | 152.8 | 151.6 | 151.6 | 151.6 | 152.8 | 152.8 | 154.0 | 155.2 |
| 77.5° | 122.0 | 120.8 | 119.6 | 119.6 | 118.4 | 118.4 | 118.4 | 119.6 | 119.6 | 120.8 | 122.0 |
| 80° | 90.0 | 88.8 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 88.8 | 90.0 |
| 82.5° | 60.4 | 60.4 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 60.4 | 60.4 |
| 85° | 35.5 | 35.5 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 35.5 | 35.5 |
| 87.5° | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 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-37L930-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|-------|-------|-------|-------|
| 0° | 969.9 | 969.9 | 969.9 | 969.9 |
| 2.5° | 972.3 | 973.4 | 968.7 | 964.0 |
| 5° | 967.5 | 968.7 | 965.2 | 960.4 |
| 7.5° | 960.4 | 961.6 | 958.1 | 954.5 |
| 10° | 949.8 | 952.1 | 948.6 | 943.9 |
| 12.5° | 936.8 | 938.0 | 934.4 | 930.9 |
| 15° | 921.4 | 922.6 | 919.0 | 915.5 |
| 17.5° | 902.5 | 904.8 | 901.3 | 897.7 |
| 20° | 881.2 | 883.5 | 881.2 | 877.6 |
| 22.5° | 857.5 | 859.8 | 857.5 | 855.1 |
| 25° | 832.6 | 835.0 | 832.6 | 830.2 |
| 27.5° | 805.4 | 808.9 | 806.5 | 805.4 |
| 30° | 776.9 | 780.5 | 778.1 | 776.9 |
| 32.5° | 747.3 | 752.0 | 749.7 | 747.3 |
| 35° | 716.5 | 720.1 | 717.7 | 716.5 |
| 37.5° | 685.7 | 689.3 | 688.1 | 686.9 |
| 40° | 653.7 | 657.3 | 654.9 | 653.7 |
| 42.5° | 620.6 | 624.1 | 622.9 | 621.8 |
| 45° | 586.2 | 589.8 | 588.6 | 588.6 |
| 47.5° | 553.1 | 556.6 | 555.4 | 554.2 |
| 50° | 517.5 | 521.1 | 519.9 | 519.9 |
| 52.5° | 483.2 | 486.7 | 485.5 | 484.4 |
| 55° | 447.6 | 450.0 | 448.8 | 448.8 |
| 57.5° | 412.1 | 415.7 | 414.5 | 413.3 |
| 60° | 376.6 | 378.9 | 377.8 | 377.8 |
| 62.5° | 341.0 | 343.4 | 342.2 | 342.2 |
| 65° | 303.2 | 305.6 | 305.6 | 305.6 |
| 67.5° | 264.1 | 266.5 | 265.3 | 265.3 |
| 70° | 228.6 | 229.8 | 228.6 | 228.6 |
| 72.5° | 191.9 | 193.1 | 193.1 | 193.1 |
| 75° | 156.4 | 157.5 | 156.4 | 156.4 |
| 77.5° | 123.2 | 124.4 | 123.2 | 122.0 |
| 80° | 91.2 | 92.4 | 91.2 | 90.0 |
| 82.5° | 61.6 | 62.8 | 61.6 | 60.4 |
| 85° | 36.7 | 36.7 | 35.5 | 34.4 |
| 87.5° | 15.4 | 15.4 | 14.2 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)