

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-24L850-X-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-24L850-X-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient Light w/ Nature Pattern Lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

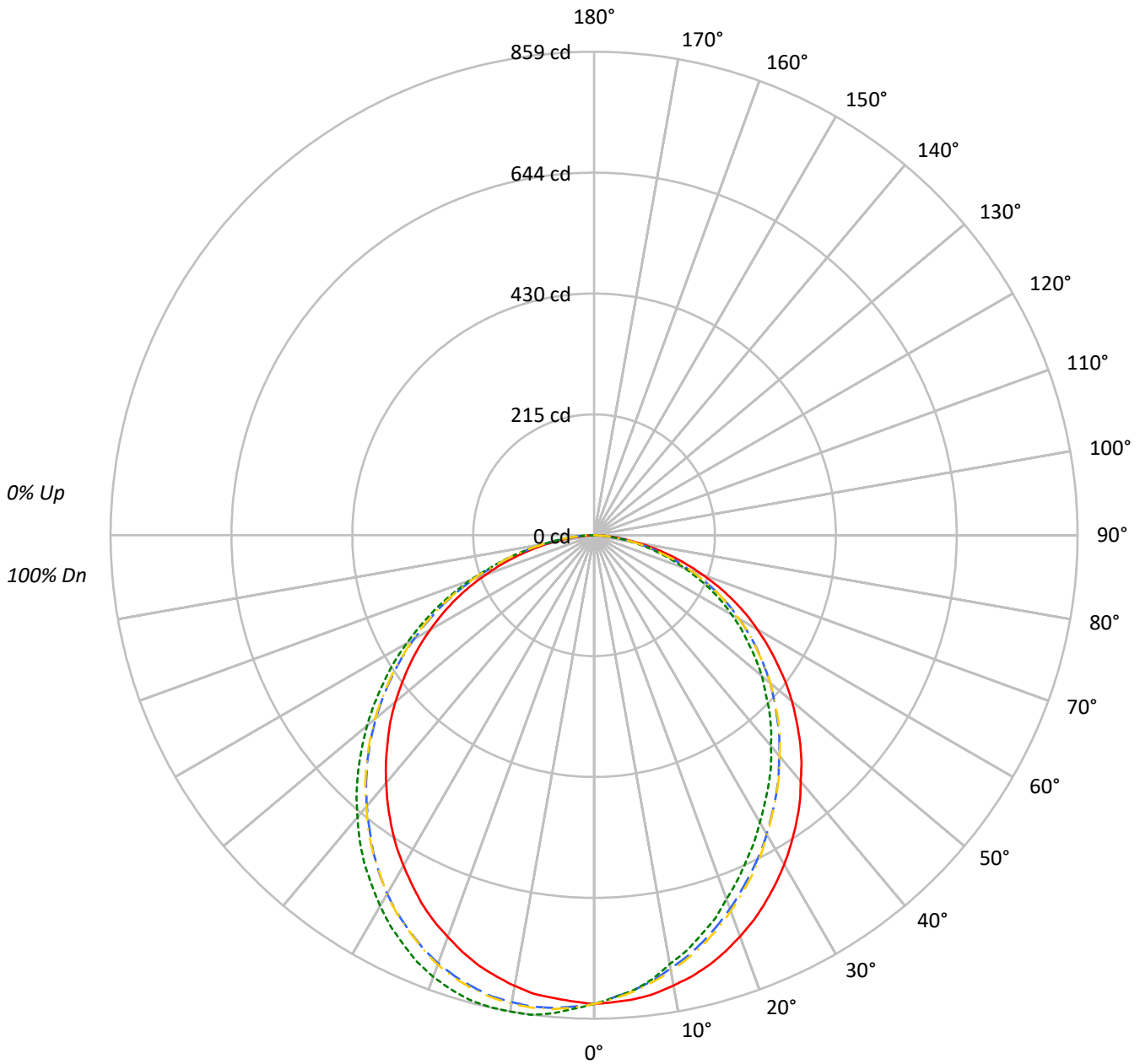
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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-24L850-X-UNV-NP

Luminous Intensity Polar Plot



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



TEST NUMBER: P

CATALOG NUMBER: 4APN-24L850-X-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 | 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 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 86 | 86 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 72 | 72 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 62 | 70 | 65 | 61 | 61 | 61 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 81 | 70 | 61 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 46 | 46 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 41 | 41 | 38 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 36 | 36 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 32 | 32 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 29 | 29 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 27 | 27 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 7685 | 7685 | 7685 | 7685 |
| 5° | 7662 | 7514 | 7645 | 7898 |
| 10° | 7610 | 7248 | 7618 | 8051 |
| 15° | 7551 | 7020 | 7560 | 8163 |
| 20° | 7447 | 6754 | 7457 | 8197 |
| 25° | 7329 | 6504 | 7358 | 8163 |
| 30° | 7198 | 6274 | 7218 | 8101 |
| 35° | 7047 | 6091 | 7079 | 8013 |
| 40° | 6877 | 5889 | 6923 | 7877 |
| 45° | 6750 | 5742 | 6763 | 7733 |
| 50° | 6587 | 5586 | 6614 | 7560 |
| 55° | 6381 | 5381 | 6426 | 7351 |
| 60° | 6189 | 5216 | 6206 | 7095 |
| 65° | 5947 | 4997 | 5947 | 6789 |
| 70° | 5541 | 4626 | 5517 | 6328 |
| 75° | 5037 | 4196 | 4973 | 5675 |
| 80° | 4357 | 3608 | 4203 | 4856 |
| 85° | 3387 | 2689 | 3186 | 3991 |



TEST NUMBER: P
 CATALOG NUMBER: 4APN-24L850-X-UNV-NP

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.7 | 3.5 |
| 10°-20° | 223.4 | 10.0 |
| 20°-30° | 332.1 | 14.9 |
| 30°-40° | 391.4 | 17.5 |
| 40°-50° | 398.5 | 17.8 |
| 50°-60° | 355.0 | 15.9 |
| 60°-70° | 267.5 | 12.0 |
| 70°-80° | 148.7 | 6.7 |
| 80°-90° | 38.6 | 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° | 634.2 | 28.4 |
| 0°-40° | 1025.6 | 45.9 |
| 0°-60° | 1779.1 | 79.6 |
| 0°-90° | 2234.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2234.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 833 | 833 | 833 | 833 | 833 | |
| 5° | 827 | 811 | 826 | 853 | 827 | 79 |
| 15° | 790 | 735 | 792 | 855 | 790 | 223 |
| 25° | 720 | 639 | 723 | 802 | 720 | 332 |
| 35° | 626 | 541 | 628 | 711 | 626 | 391 |
| 45° | 517 | 440 | 518 | 593 | 517 | 399 |
| 55° | 397 | 334 | 400 | 457 | 397 | 355 |
| 65° | 272 | 229 | 272 | 311 | 272 | 269 |
| 75° | 141 | 118 | 140 | 159 | 141 | 150 |
| 85° | 32 | 25 | 30 | 38 | 32 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P
 CATALOG NUMBER: 4APN-24L850-X-UNV-NP

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 |
| 2.5° | 830.2 | 830.2 | 831.1 | 827.3 | 822.6 | 820.8 | 819.8 | 818.8 | 820.8 | 821.7 | 820.8 |
| 5° | 827.3 | 825.5 | 823.5 | 818.8 | 813.2 | 809.4 | 807.5 | 806.6 | 808.5 | 811.3 | 808.5 |
| 7.5° | 821.7 | 817.9 | 814.1 | 807.5 | 800.9 | 795.3 | 792.5 | 790.5 | 792.5 | 795.3 | 793.4 |
| 10° | 812.3 | 807.5 | 801.9 | 794.3 | 784.9 | 778.4 | 775.5 | 772.6 | 773.7 | 773.7 | 773.7 |
| 12.5° | 802.8 | 796.2 | 789.6 | 780.2 | 769.9 | 762.3 | 757.6 | 753.8 | 755.7 | 756.7 | 756.7 |
| 15° | 790.5 | 782.1 | 772.6 | 762.3 | 751.9 | 743.4 | 737.8 | 734.0 | 735.0 | 735.0 | 735.9 |
| 17.5° | 775.5 | 766.1 | 756.7 | 744.4 | 732.2 | 722.8 | 716.1 | 711.4 | 713.3 | 714.3 | 715.2 |
| 20° | 758.5 | 748.2 | 737.8 | 724.6 | 711.4 | 701.1 | 694.5 | 688.8 | 687.9 | 687.9 | 688.8 |
| 22.5° | 740.6 | 729.3 | 717.0 | 702.9 | 688.8 | 677.5 | 670.9 | 665.2 | 664.3 | 664.3 | 665.2 |
| 25° | 719.9 | 707.6 | 695.4 | 681.3 | 666.1 | 654.9 | 646.4 | 640.8 | 639.8 | 638.9 | 640.8 |
| 27.5° | 698.2 | 686.0 | 673.7 | 659.6 | 643.6 | 632.3 | 623.8 | 618.1 | 616.3 | 615.3 | 617.2 |
| 30° | 675.6 | 661.4 | 648.3 | 633.2 | 619.0 | 607.8 | 599.3 | 592.7 | 590.8 | 588.9 | 590.8 |
| 32.5° | 651.1 | 637.0 | 622.8 | 607.8 | 593.7 | 582.3 | 573.9 | 567.2 | 565.4 | 564.4 | 566.3 |
| 35° | 625.7 | 611.6 | 598.4 | 583.3 | 569.2 | 557.8 | 549.3 | 543.7 | 541.8 | 540.8 | 541.8 |
| 37.5° | 600.2 | 586.1 | 572.9 | 557.8 | 543.7 | 532.4 | 523.9 | 518.3 | 517.3 | 516.3 | 517.3 |
| 40° | 571.0 | 558.7 | 545.5 | 531.4 | 517.3 | 506.0 | 499.4 | 492.8 | 491.0 | 489.0 | 491.9 |
| 42.5° | 545.5 | 533.3 | 520.1 | 506.9 | 492.8 | 481.5 | 474.0 | 468.3 | 466.4 | 465.5 | 466.4 |
| 45° | 517.3 | 504.1 | 491.0 | 478.7 | 465.5 | 455.1 | 447.5 | 441.9 | 441.0 | 440.1 | 441.0 |
| 47.5° | 487.2 | 475.8 | 464.5 | 452.3 | 439.1 | 428.7 | 422.2 | 416.5 | 414.6 | 412.7 | 414.6 |
| 50° | 458.9 | 447.5 | 436.3 | 424.9 | 412.7 | 403.3 | 396.7 | 391.0 | 390.1 | 389.2 | 390.1 |
| 52.5° | 428.7 | 417.4 | 407.1 | 395.7 | 385.4 | 376.0 | 369.4 | 364.7 | 363.7 | 362.8 | 363.7 |
| 55° | 396.7 | 387.2 | 377.8 | 368.4 | 358.1 | 349.6 | 343.9 | 338.3 | 336.3 | 334.5 | 336.3 |
| 57.5° | 366.6 | 358.1 | 348.6 | 339.2 | 329.8 | 322.2 | 316.6 | 311.9 | 311.0 | 310.0 | 311.0 |
| 60° | 335.4 | 328.0 | 319.5 | 311.0 | 301.5 | 294.0 | 289.3 | 285.5 | 283.6 | 282.7 | 283.6 |
| 62.5° | 304.4 | 296.8 | 290.2 | 281.8 | 273.3 | 267.6 | 262.9 | 259.1 | 257.2 | 256.3 | 257.2 |
| 65° | 272.4 | 265.7 | 259.1 | 251.6 | 245.0 | 239.4 | 234.6 | 230.9 | 229.9 | 228.9 | 228.9 |
| 67.5° | 239.4 | 233.7 | 228.0 | 221.5 | 213.9 | 208.3 | 203.5 | 200.7 | 199.8 | 198.8 | 199.8 |
| 70° | 205.4 | 200.7 | 195.1 | 189.4 | 183.8 | 179.1 | 176.2 | 173.3 | 172.4 | 171.5 | 171.5 |
| 72.5° | 173.3 | 169.6 | 164.9 | 160.2 | 155.4 | 150.7 | 148.0 | 146.0 | 145.1 | 144.2 | 144.2 |
| 75° | 141.3 | 137.6 | 134.7 | 131.0 | 126.2 | 123.5 | 120.6 | 118.8 | 117.7 | 117.7 | 117.7 |
| 77.5° | 111.2 | 108.3 | 105.6 | 101.8 | 98.9 | 96.1 | 94.2 | 93.3 | 92.4 | 92.4 | 92.4 |
| 80° | 82.0 | 80.1 | 78.2 | 76.3 | 73.5 | 70.6 | 69.7 | 68.8 | 67.9 | 67.9 | 67.9 |
| 82.5° | 55.6 | 54.7 | 52.7 | 50.9 | 49.0 | 48.0 | 47.1 | 46.2 | 46.2 | 46.2 | 46.2 |
| 85° | 32.0 | 31.1 | 30.1 | 29.2 | 28.3 | 28.3 | 27.3 | 26.4 | 25.4 | 25.4 | 25.4 |
| 87.5° | 13.2 | 13.2 | 13.2 | 12.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 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-24L850-X-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 |
| 2.5° | 818.8 | 820.8 | 822.6 | 825.5 | 828.2 | 831.1 | 830.2 | 829.2 | 832.9 | 837.6 | 838.7 |
| 5° | 806.6 | 808.5 | 811.3 | 816.0 | 820.8 | 824.5 | 825.5 | 825.5 | 832.9 | 839.6 | 841.4 |
| 7.5° | 791.5 | 794.3 | 798.1 | 802.8 | 809.4 | 815.0 | 817.9 | 821.7 | 829.2 | 837.6 | 841.4 |
| 10° | 772.6 | 777.3 | 783.1 | 789.6 | 796.2 | 802.8 | 808.5 | 813.2 | 822.6 | 832.0 | 837.6 |
| 12.5° | 755.7 | 760.4 | 766.1 | 773.7 | 782.1 | 790.5 | 796.2 | 802.8 | 814.1 | 825.5 | 832.0 |
| 15° | 736.9 | 741.6 | 748.2 | 755.7 | 765.2 | 774.6 | 783.1 | 791.5 | 802.8 | 815.0 | 822.6 |
| 17.5° | 716.1 | 720.8 | 727.5 | 736.9 | 747.2 | 757.6 | 767.0 | 776.4 | 789.6 | 802.8 | 811.3 |
| 20° | 690.7 | 697.3 | 705.8 | 715.2 | 727.5 | 739.7 | 749.1 | 759.5 | 773.7 | 787.8 | 797.2 |
| 22.5° | 666.1 | 672.8 | 682.2 | 693.5 | 706.7 | 719.9 | 731.2 | 742.5 | 757.6 | 771.7 | 782.1 |
| 25° | 642.6 | 650.2 | 659.6 | 670.9 | 683.1 | 696.3 | 709.6 | 722.8 | 737.8 | 752.9 | 763.2 |
| 27.5° | 619.0 | 625.7 | 635.1 | 646.4 | 660.5 | 673.7 | 686.9 | 700.1 | 716.1 | 732.2 | 743.4 |
| 30° | 592.7 | 600.2 | 608.7 | 620.0 | 635.1 | 650.2 | 663.4 | 677.5 | 693.5 | 709.6 | 720.8 |
| 32.5° | 568.2 | 574.8 | 583.3 | 594.6 | 609.6 | 624.7 | 638.9 | 654.0 | 669.0 | 685.0 | 696.3 |
| 35° | 543.7 | 550.2 | 558.7 | 570.1 | 585.2 | 600.2 | 614.3 | 628.5 | 643.6 | 658.7 | 669.9 |
| 37.5° | 519.2 | 525.8 | 534.3 | 545.5 | 559.7 | 574.8 | 588.0 | 602.2 | 617.2 | 632.3 | 642.6 |
| 40° | 493.7 | 500.4 | 506.9 | 518.3 | 532.4 | 547.5 | 560.7 | 574.8 | 589.9 | 604.9 | 615.3 |
| 42.5° | 468.3 | 474.9 | 483.4 | 494.7 | 507.9 | 521.1 | 534.3 | 547.5 | 561.6 | 575.7 | 586.1 |
| 45° | 442.8 | 448.6 | 457.0 | 467.4 | 480.5 | 492.8 | 506.0 | 518.3 | 532.4 | 545.5 | 556.0 |
| 47.5° | 416.5 | 422.2 | 428.7 | 439.1 | 452.3 | 465.5 | 478.7 | 491.0 | 503.1 | 516.3 | 525.8 |
| 50° | 391.0 | 396.7 | 404.2 | 413.7 | 425.9 | 438.1 | 449.5 | 460.8 | 473.0 | 485.2 | 493.7 |
| 52.5° | 364.7 | 370.3 | 376.9 | 386.3 | 396.7 | 408.0 | 418.4 | 429.7 | 441.0 | 452.3 | 460.8 |
| 55° | 338.3 | 342.1 | 347.7 | 356.2 | 367.5 | 378.8 | 389.2 | 399.5 | 409.9 | 419.3 | 427.8 |
| 57.5° | 311.9 | 316.6 | 323.2 | 330.7 | 340.1 | 349.6 | 359.0 | 368.4 | 377.8 | 387.2 | 394.8 |
| 60° | 285.5 | 289.3 | 294.0 | 300.6 | 310.0 | 318.5 | 328.0 | 336.3 | 344.8 | 353.3 | 359.9 |
| 62.5° | 258.2 | 261.9 | 266.6 | 273.3 | 280.8 | 288.3 | 296.8 | 304.4 | 311.9 | 319.5 | 326.0 |
| 65° | 229.9 | 233.7 | 238.4 | 244.1 | 250.6 | 257.2 | 264.8 | 272.4 | 278.0 | 283.6 | 290.2 |
| 67.5° | 200.7 | 204.5 | 209.2 | 213.9 | 219.5 | 226.2 | 232.7 | 239.4 | 245.0 | 250.6 | 255.4 |
| 70° | 172.4 | 175.3 | 180.0 | 183.8 | 188.5 | 193.2 | 198.8 | 204.5 | 208.3 | 213.0 | 218.6 |
| 72.5° | 145.1 | 148.0 | 151.7 | 155.4 | 158.3 | 162.1 | 167.7 | 172.4 | 177.1 | 182.8 | 185.6 |
| 75° | 118.8 | 120.6 | 123.5 | 126.2 | 129.1 | 131.9 | 135.7 | 139.5 | 143.2 | 146.0 | 149.8 |
| 77.5° | 92.4 | 94.2 | 97.1 | 98.9 | 100.9 | 102.7 | 105.6 | 108.3 | 111.2 | 113.0 | 116.8 |
| 80° | 67.9 | 69.7 | 71.6 | 73.5 | 75.4 | 77.3 | 78.2 | 79.1 | 82.9 | 85.7 | 87.6 |
| 82.5° | 46.2 | 47.1 | 48.0 | 50.0 | 50.9 | 51.8 | 52.7 | 52.7 | 54.7 | 56.5 | 59.4 |
| 85° | 26.4 | 27.3 | 28.3 | 28.3 | 28.3 | 28.3 | 29.2 | 30.1 | 31.1 | 33.0 | 34.9 |
| 87.5° | 10.3 | 10.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 12.3 | 14.1 | 15.1 |
| 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-24L850-X-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 | 832.9 |
| 2.5° | 837.6 | 838.7 | 840.5 | 841.4 | 842.4 | 842.4 | 843.4 | 844.3 | 842.4 | 840.5 | 839.6 |
| 5° | 842.4 | 843.4 | 846.1 | 849.0 | 850.9 | 852.8 | 851.8 | 850.9 | 849.0 | 846.1 | 844.3 |
| 7.5° | 843.4 | 846.1 | 849.0 | 852.8 | 855.6 | 859.4 | 857.5 | 855.6 | 851.8 | 848.1 | 845.2 |
| 10° | 840.5 | 844.3 | 849.0 | 853.7 | 856.5 | 859.4 | 857.5 | 855.6 | 851.8 | 847.1 | 843.4 |
| 12.5° | 836.7 | 841.4 | 847.1 | 851.8 | 854.6 | 858.4 | 855.6 | 852.8 | 848.1 | 843.4 | 838.7 |
| 15° | 828.2 | 833.9 | 840.5 | 846.1 | 850.9 | 854.6 | 851.8 | 849.9 | 844.3 | 837.6 | 831.1 |
| 17.5° | 817.9 | 825.5 | 832.0 | 838.7 | 842.4 | 846.1 | 844.3 | 842.4 | 835.8 | 828.2 | 820.8 |
| 20° | 805.6 | 813.2 | 819.8 | 826.4 | 831.1 | 834.9 | 832.0 | 829.2 | 822.6 | 816.0 | 808.5 |
| 22.5° | 790.5 | 798.1 | 805.6 | 812.3 | 817.0 | 820.8 | 817.0 | 812.3 | 805.6 | 799.0 | 791.5 |
| 25° | 771.7 | 780.2 | 788.7 | 795.3 | 798.1 | 801.9 | 798.1 | 794.3 | 787.8 | 781.1 | 772.6 |
| 27.5° | 752.9 | 761.4 | 769.9 | 776.4 | 779.3 | 783.1 | 779.3 | 775.5 | 768.9 | 762.3 | 753.8 |
| 30° | 731.2 | 739.7 | 748.2 | 754.7 | 757.6 | 760.4 | 756.7 | 752.9 | 747.2 | 740.6 | 732.2 |
| 32.5° | 706.7 | 715.2 | 721.7 | 728.4 | 732.2 | 735.9 | 732.2 | 729.3 | 722.8 | 714.3 | 705.8 |
| 35° | 680.3 | 688.8 | 697.3 | 703.9 | 707.6 | 711.4 | 706.7 | 702.0 | 696.3 | 689.7 | 682.2 |
| 37.5° | 651.1 | 660.5 | 669.9 | 677.5 | 680.3 | 684.1 | 680.3 | 675.6 | 669.9 | 663.4 | 654.9 |
| 40° | 623.8 | 632.3 | 640.8 | 648.3 | 651.1 | 654.0 | 650.2 | 646.4 | 639.8 | 633.2 | 624.7 |
| 42.5° | 595.5 | 604.0 | 611.6 | 618.1 | 621.0 | 624.7 | 621.0 | 616.3 | 611.6 | 605.8 | 598.4 |
| 45° | 565.4 | 573.9 | 580.4 | 587.0 | 589.9 | 592.7 | 588.9 | 584.2 | 579.5 | 574.8 | 567.2 |
| 47.5° | 534.3 | 541.8 | 548.4 | 555.0 | 556.9 | 559.7 | 556.0 | 553.1 | 548.4 | 543.7 | 537.1 |
| 50° | 502.2 | 509.8 | 516.3 | 522.0 | 523.9 | 526.7 | 523.0 | 519.2 | 515.4 | 511.6 | 506.0 |
| 52.5° | 469.3 | 475.8 | 482.5 | 488.1 | 490.0 | 491.9 | 488.1 | 484.3 | 480.5 | 476.8 | 471.1 |
| 55° | 435.4 | 441.9 | 448.6 | 453.3 | 455.1 | 457.0 | 453.3 | 450.4 | 446.6 | 443.9 | 438.1 |
| 57.5° | 401.4 | 408.0 | 413.7 | 418.4 | 420.2 | 422.2 | 418.4 | 414.6 | 411.8 | 408.9 | 404.2 |
| 60° | 366.6 | 373.1 | 377.8 | 381.6 | 383.5 | 384.5 | 380.7 | 377.8 | 376.0 | 374.1 | 369.4 |
| 62.5° | 332.7 | 337.4 | 342.1 | 344.8 | 346.8 | 347.7 | 344.8 | 343.0 | 341.1 | 339.2 | 335.4 |
| 65° | 296.8 | 302.5 | 306.2 | 309.1 | 310.0 | 311.0 | 308.1 | 306.2 | 304.4 | 302.5 | 299.7 |
| 67.5° | 261.0 | 265.7 | 268.6 | 271.3 | 272.4 | 272.4 | 272.4 | 271.3 | 269.5 | 266.6 | 263.9 |
| 70° | 225.2 | 228.9 | 231.8 | 233.7 | 234.6 | 234.6 | 232.7 | 230.9 | 230.9 | 229.9 | 228.0 |
| 72.5° | 188.5 | 191.3 | 193.2 | 195.1 | 195.1 | 195.1 | 195.1 | 196.0 | 195.1 | 193.2 | 190.3 |
| 75° | 153.6 | 156.5 | 158.3 | 159.2 | 159.2 | 159.2 | 159.2 | 160.2 | 159.2 | 158.3 | 156.5 |
| 77.5° | 120.6 | 122.5 | 123.5 | 124.4 | 124.4 | 124.4 | 125.3 | 126.2 | 125.3 | 124.4 | 123.5 |
| 80° | 89.5 | 90.4 | 91.4 | 92.4 | 91.4 | 91.4 | 92.4 | 94.2 | 93.3 | 92.4 | 91.4 |
| 82.5° | 61.2 | 62.2 | 63.2 | 63.2 | 64.1 | 65.0 | 65.0 | 65.0 | 65.0 | 64.1 | 63.2 |
| 85° | 36.8 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 38.6 | 39.6 | 39.6 | 38.6 | 38.6 |
| 87.5° | 17.0 | 17.9 | 17.0 | 16.0 | 15.1 | 15.1 | 17.0 | 18.8 | 18.8 | 17.9 | 17.9 |
| 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-24L850-X-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|-------|-------|-------|-------|
| 0° | 832.9 | 832.9 | 832.9 | 832.9 |
| 2.5° | 840.5 | 839.6 | 834.9 | 830.2 |
| 5° | 843.4 | 840.5 | 833.9 | 827.3 |
| 7.5° | 843.4 | 839.6 | 830.2 | 821.7 |
| 10° | 838.7 | 832.9 | 822.6 | 812.3 |
| 12.5° | 832.9 | 826.4 | 814.1 | 802.8 |
| 15° | 824.5 | 817.0 | 803.8 | 790.5 |
| 17.5° | 812.3 | 802.8 | 789.6 | 775.5 |
| 20° | 800.0 | 789.6 | 773.7 | 758.5 |
| 22.5° | 783.1 | 773.7 | 756.7 | 740.6 |
| 25° | 764.2 | 753.8 | 736.9 | 719.9 |
| 27.5° | 744.4 | 732.2 | 715.2 | 698.2 |
| 30° | 721.7 | 709.6 | 692.6 | 675.6 |
| 32.5° | 697.3 | 686.0 | 669.0 | 651.1 |
| 35° | 672.8 | 660.5 | 643.6 | 625.7 |
| 37.5° | 645.5 | 634.2 | 617.2 | 600.2 |
| 40° | 616.3 | 604.9 | 588.0 | 571.0 |
| 42.5° | 588.9 | 578.6 | 561.6 | 545.5 |
| 45° | 558.7 | 548.4 | 532.4 | 517.3 |
| 47.5° | 527.7 | 517.3 | 502.2 | 487.2 |
| 50° | 497.5 | 487.2 | 473.0 | 458.9 |
| 52.5° | 463.6 | 455.1 | 441.9 | 428.7 |
| 55° | 430.6 | 422.2 | 408.9 | 396.7 |
| 57.5° | 397.7 | 390.1 | 377.8 | 366.6 |
| 60° | 362.8 | 355.2 | 345.8 | 335.4 |
| 62.5° | 329.8 | 323.2 | 313.8 | 304.4 |
| 65° | 294.9 | 289.3 | 280.8 | 272.4 |
| 67.5° | 259.1 | 254.4 | 246.9 | 239.4 |
| 70° | 223.3 | 217.7 | 212.0 | 205.4 |
| 72.5° | 187.5 | 184.7 | 179.1 | 173.3 |
| 75° | 153.6 | 150.7 | 146.0 | 141.3 |
| 77.5° | 121.5 | 118.8 | 115.0 | 111.2 |
| 80° | 89.5 | 87.6 | 84.8 | 82.0 |
| 82.5° | 62.2 | 60.3 | 58.5 | 55.6 |
| 85° | 37.7 | 35.8 | 33.9 | 32.0 |
| 87.5° | 17.0 | 16.0 | 14.1 | 13.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)