

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-20-22L935-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-20-22L935-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient and Exam Light
w/ Nature Pattern Lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

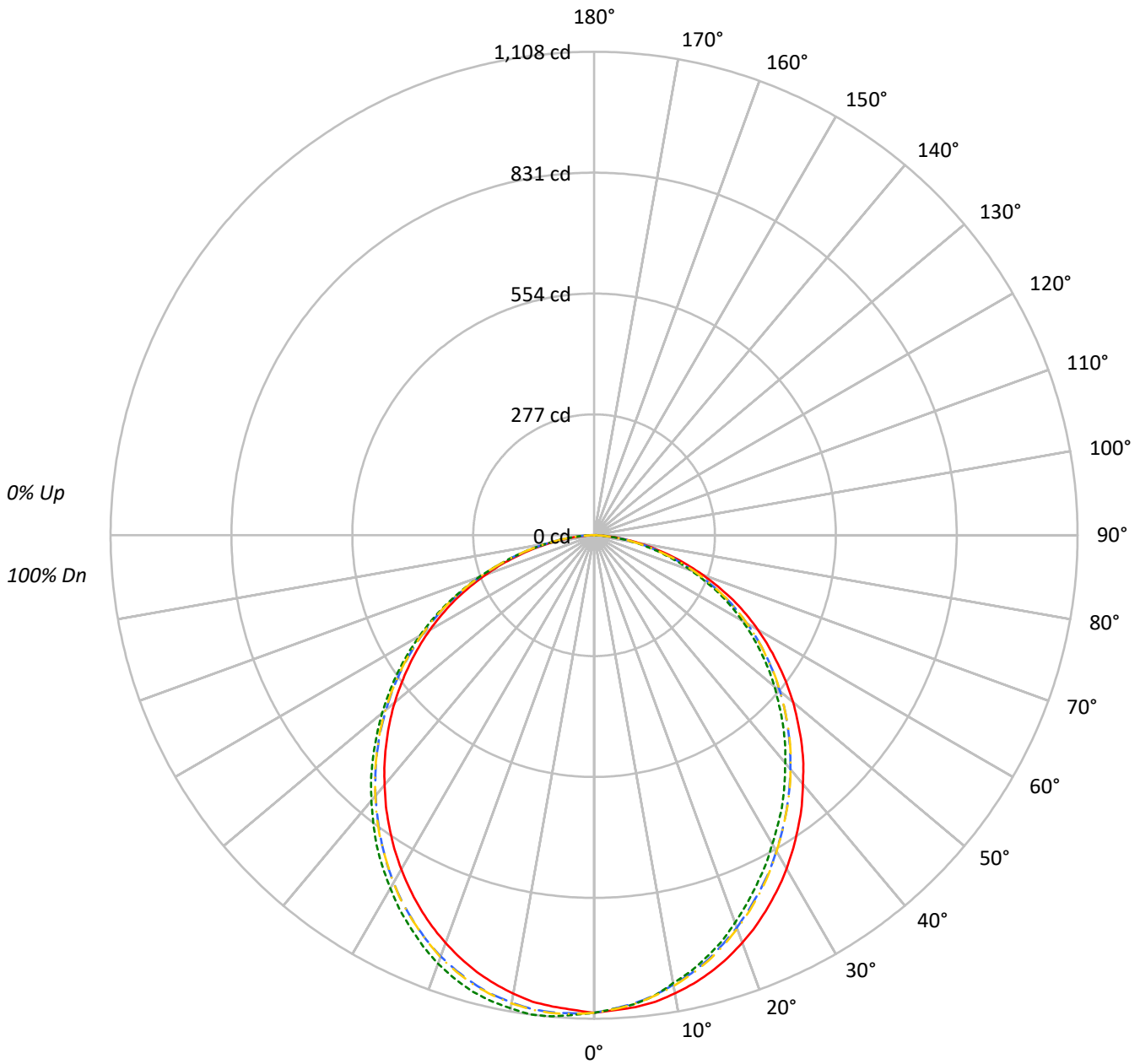
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893.2 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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-20-22L935-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 | 72 | 72 | 72 | 72 | 70 |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 62 | 62 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 46 | 46 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 41 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 36 | 36 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 33 | 33 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 29 | 29 | 29 | 28 |
| 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° | 10098 | 10098 | 10098 | 10098 |
| 5° | 10053 | 9988 | 10041 | 10250 |
| 10° | 9989 | 9766 | 9994 | 10315 |
| 15° | 9896 | 9552 | 9902 | 10332 |
| 20° | 9755 | 9276 | 9762 | 10260 |
| 25° | 9584 | 8983 | 9605 | 10115 |
| 30° | 9401 | 8703 | 9414 | 9948 |
| 35° | 9186 | 8477 | 9208 | 9787 |
| 40° | 8963 | 8206 | 8994 | 9559 |
| 45° | 8771 | 7983 | 8780 | 9341 |
| 50° | 8543 | 7748 | 8560 | 9096 |
| 55° | 8271 | 7496 | 8300 | 8839 |
| 60° | 8005 | 7233 | 8016 | 8516 |
| 65° | 7676 | 6918 | 7676 | 8139 |
| 70° | 7127 | 6396 | 7108 | 7559 |
| 75° | 6463 | 5796 | 6417 | 6805 |
| 80° | 5563 | 4989 | 5462 | 5839 |
| 85° | 4287 | 3811 | 4150 | 4690 |



TEST NUMBER: P
 CATALOG NUMBER: 4APN-20-22L935-UNV-NP

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.4 | 3.6 |
| 10°-20° | 292.6 | 10.1 |
| 20°-30° | 433.3 | 15.0 |
| 30°-40° | 508.3 | 17.6 |
| 40°-50° | 515.2 | 17.8 |
| 50°-60° | 457.2 | 15.8 |
| 60°-70° | 343.3 | 11.9 |
| 70°-80° | 190.6 | 6.6 |
| 80°-90° | 49.2 | 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° | 829.3 | 28.7 |
| 0°-40° | 1337.6 | 46.2 |
| 0°-60° | 2310.1 | 79.8 |
| 0°-90° | 2893.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2893.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1094 | 1094 | 1094 | 1094 | 1094 | |
| 5° | 1086 | 1078 | 1084 | 1107 | 1086 | 103 |
| 15° | 1036 | 1000 | 1037 | 1082 | 1036 | 292 |
| 25° | 942 | 882 | 944 | 994 | 942 | 434 |
| 35° | 816 | 753 | 818 | 869 | 816 | 510 |
| 45° | 672 | 612 | 673 | 716 | 672 | 518 |
| 55° | 514 | 466 | 516 | 550 | 514 | 460 |
| 65° | 352 | 317 | 352 | 373 | 352 | 347 |
| 75° | 181 | 163 | 180 | 191 | 181 | 193 |
| 85° | 40 | 36 | 39 | 44 | 40 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P

CATALOG NUMBER: 4APN-20-22L935-UNV-NP

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 |
| 2.5° | 1089.3 | 1091.9 | 1095.2 | 1091.9 | 1086.8 | 1084.2 | 1084.2 | 1083.6 | 1085.5 | 1086.1 | 1085.5 |
| 5° | 1085.5 | 1086.8 | 1087.4 | 1083.6 | 1077.8 | 1074.6 | 1073.3 | 1072.7 | 1075.2 | 1078.5 | 1075.2 |
| 7.5° | 1078.5 | 1077.8 | 1077.2 | 1072.0 | 1065.6 | 1061.1 | 1059.2 | 1058.5 | 1061.1 | 1064.3 | 1061.8 |
| 10° | 1066.2 | 1065.6 | 1063.6 | 1057.3 | 1048.9 | 1043.1 | 1041.1 | 1039.3 | 1041.1 | 1042.4 | 1041.1 |
| 12.5° | 1052.7 | 1050.2 | 1047.6 | 1040.5 | 1031.5 | 1025.1 | 1021.9 | 1019.3 | 1021.9 | 1023.8 | 1022.5 |
| 15° | 1036.1 | 1032.2 | 1027.7 | 1019.9 | 1011.0 | 1003.9 | 1000.0 | 997.4 | 999.4 | 1000.0 | 1000.0 |
| 17.5° | 1016.1 | 1011.6 | 1007.1 | 997.4 | 986.5 | 978.8 | 974.4 | 971.1 | 973.7 | 974.9 | 974.9 |
| 20° | 993.6 | 988.5 | 982.7 | 972.4 | 960.8 | 952.5 | 947.4 | 943.5 | 944.1 | 944.8 | 944.8 |
| 22.5° | 969.2 | 962.8 | 955.7 | 944.8 | 932.5 | 923.6 | 918.4 | 913.9 | 913.9 | 914.5 | 914.5 |
| 25° | 941.5 | 934.4 | 927.4 | 916.5 | 903.7 | 894.0 | 887.5 | 883.1 | 883.1 | 882.4 | 883.7 |
| 27.5° | 913.2 | 905.6 | 898.5 | 887.0 | 873.4 | 863.8 | 857.4 | 852.9 | 852.2 | 851.6 | 852.9 |
| 30° | 882.4 | 873.4 | 865.7 | 853.5 | 840.7 | 831.0 | 824.5 | 819.5 | 818.2 | 816.9 | 818.2 |
| 32.5° | 849.6 | 841.3 | 832.9 | 820.1 | 807.2 | 797.6 | 791.2 | 786.0 | 785.4 | 784.7 | 786.0 |
| 35° | 815.6 | 806.6 | 798.9 | 786.7 | 773.8 | 764.2 | 757.1 | 752.6 | 752.6 | 752.6 | 752.6 |
| 37.5° | 782.1 | 773.2 | 764.8 | 752.6 | 739.7 | 730.1 | 723.0 | 718.5 | 717.2 | 716.6 | 717.2 |
| 40° | 744.2 | 736.5 | 728.8 | 717.2 | 704.4 | 694.7 | 689.0 | 683.8 | 682.6 | 681.3 | 683.2 |
| 42.5° | 709.6 | 701.8 | 693.4 | 682.6 | 669.6 | 660.1 | 653.6 | 649.1 | 648.4 | 647.8 | 648.4 |
| 45° | 672.2 | 663.3 | 654.9 | 644.7 | 633.0 | 624.1 | 617.6 | 613.1 | 612.5 | 611.8 | 612.5 |
| 47.5° | 633.0 | 625.9 | 618.9 | 608.6 | 597.1 | 588.1 | 582.2 | 577.2 | 575.9 | 574.6 | 575.9 |
| 50° | 595.2 | 587.4 | 580.4 | 570.7 | 559.7 | 551.4 | 546.3 | 541.8 | 540.5 | 539.8 | 540.5 |
| 52.5° | 555.3 | 548.2 | 541.8 | 532.2 | 523.1 | 514.8 | 509.0 | 505.2 | 504.5 | 503.9 | 504.5 |
| 55° | 514.2 | 507.7 | 501.9 | 494.2 | 485.2 | 477.5 | 472.3 | 467.9 | 467.3 | 466.0 | 467.3 |
| 57.5° | 474.3 | 469.2 | 463.4 | 455.0 | 446.7 | 439.6 | 435.1 | 431.2 | 430.6 | 429.9 | 430.6 |
| 60° | 433.8 | 428.6 | 423.6 | 416.5 | 408.1 | 401.1 | 397.2 | 394.0 | 392.7 | 392.0 | 392.7 |
| 62.5° | 393.3 | 388.2 | 384.3 | 377.3 | 369.5 | 363.7 | 359.9 | 356.7 | 355.4 | 354.8 | 355.4 |
| 65° | 351.6 | 347.0 | 342.5 | 336.2 | 330.4 | 325.8 | 322.0 | 318.7 | 317.5 | 316.9 | 316.9 |
| 67.5° | 307.2 | 303.3 | 300.1 | 294.4 | 287.9 | 283.4 | 279.6 | 277.0 | 275.7 | 275.0 | 275.7 |
| 70° | 264.2 | 260.9 | 257.7 | 253.2 | 248.1 | 244.2 | 241.7 | 239.1 | 237.8 | 237.1 | 237.1 |
| 72.5° | 223.0 | 220.5 | 217.2 | 213.4 | 209.5 | 205.7 | 203.1 | 201.2 | 199.9 | 199.2 | 199.2 |
| 75° | 181.3 | 178.7 | 177.4 | 174.2 | 170.3 | 167.7 | 165.1 | 163.9 | 162.6 | 162.6 | 162.6 |
| 77.5° | 142.1 | 140.8 | 139.5 | 136.3 | 133.7 | 131.1 | 129.2 | 128.5 | 127.2 | 127.2 | 127.2 |
| 80° | 104.7 | 104.1 | 103.4 | 101.5 | 98.9 | 96.4 | 95.2 | 94.5 | 93.9 | 93.9 | 93.9 |
| 82.5° | 70.7 | 70.7 | 70.1 | 68.1 | 66.2 | 65.6 | 64.3 | 63.6 | 63.6 | 63.6 | 63.6 |
| 85° | 40.5 | 40.5 | 40.5 | 39.8 | 38.5 | 38.5 | 37.2 | 36.6 | 36.0 | 36.0 | 36.0 |
| 87.5° | 16.0 | 16.7 | 17.3 | 16.7 | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 | 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-20-22L935-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 |
| 2.5° | 1083.6 | 1084.8 | 1085.5 | 1088.7 | 1092.6 | 1095.2 | 1091.9 | 1088.7 | 1093.9 | 1099.7 | 1099.7 |
| 5° | 1072.7 | 1073.9 | 1075.9 | 1079.8 | 1084.8 | 1088.1 | 1086.8 | 1084.2 | 1091.9 | 1098.4 | 1099.0 |
| 7.5° | 1059.2 | 1060.5 | 1063.0 | 1066.8 | 1073.3 | 1077.8 | 1077.8 | 1078.5 | 1085.5 | 1093.2 | 1095.2 |
| 10° | 1039.3 | 1042.4 | 1046.3 | 1052.1 | 1058.5 | 1064.3 | 1066.2 | 1066.8 | 1075.9 | 1084.2 | 1086.8 |
| 12.5° | 1020.6 | 1023.8 | 1027.7 | 1034.1 | 1041.8 | 1048.2 | 1050.2 | 1052.7 | 1062.3 | 1072.0 | 1075.9 |
| 15° | 999.4 | 1002.6 | 1007.1 | 1013.6 | 1021.9 | 1029.0 | 1032.8 | 1036.7 | 1046.3 | 1056.6 | 1061.1 |
| 17.5° | 974.4 | 977.5 | 982.0 | 989.8 | 999.4 | 1007.7 | 1012.3 | 1016.8 | 1027.7 | 1038.6 | 1043.1 |
| 20° | 944.8 | 949.3 | 955.7 | 963.4 | 974.4 | 984.0 | 989.1 | 994.3 | 1005.8 | 1016.8 | 1021.9 |
| 22.5° | 914.5 | 919.7 | 926.8 | 935.7 | 947.4 | 957.6 | 964.0 | 970.5 | 982.0 | 993.0 | 998.7 |
| 25° | 884.4 | 890.1 | 897.2 | 906.9 | 917.8 | 928.1 | 935.7 | 943.5 | 955.0 | 966.6 | 972.4 |
| 27.5° | 853.5 | 858.7 | 865.7 | 875.3 | 887.5 | 898.5 | 906.2 | 914.5 | 926.1 | 938.3 | 944.1 |
| 30° | 819.5 | 825.2 | 831.6 | 841.3 | 854.8 | 867.0 | 874.7 | 883.7 | 895.3 | 907.5 | 913.2 |
| 32.5° | 786.7 | 791.8 | 798.3 | 807.9 | 821.3 | 834.2 | 842.6 | 851.6 | 863.2 | 875.3 | 880.5 |
| 35° | 752.6 | 757.7 | 764.8 | 774.5 | 787.9 | 800.1 | 808.5 | 817.5 | 828.4 | 840.0 | 845.8 |
| 37.5° | 719.2 | 724.3 | 731.4 | 741.0 | 753.9 | 766.1 | 774.5 | 783.4 | 794.4 | 805.3 | 810.4 |
| 40° | 684.5 | 689.7 | 695.4 | 705.1 | 717.9 | 730.1 | 737.8 | 746.8 | 757.7 | 769.3 | 774.5 |
| 42.5° | 649.1 | 654.3 | 661.4 | 670.9 | 683.2 | 694.1 | 702.5 | 710.9 | 721.1 | 731.4 | 736.5 |
| 45° | 613.8 | 618.3 | 625.3 | 634.3 | 646.0 | 656.2 | 664.6 | 672.9 | 682.6 | 692.1 | 697.3 |
| 47.5° | 577.2 | 582.2 | 588.1 | 597.1 | 608.6 | 619.6 | 627.9 | 635.6 | 644.7 | 654.3 | 658.8 |
| 50° | 541.8 | 546.3 | 552.1 | 560.4 | 571.4 | 581.6 | 588.7 | 596.4 | 604.7 | 613.8 | 617.6 |
| 52.5° | 505.2 | 509.7 | 515.4 | 523.8 | 532.8 | 542.4 | 548.9 | 556.0 | 564.3 | 572.7 | 576.5 |
| 55° | 467.9 | 471.0 | 476.2 | 484.0 | 493.5 | 502.6 | 509.0 | 516.0 | 523.1 | 530.2 | 534.8 |
| 57.5° | 431.2 | 435.1 | 440.3 | 447.4 | 455.7 | 464.0 | 469.9 | 475.6 | 482.7 | 489.8 | 492.9 |
| 60° | 394.0 | 397.2 | 401.1 | 407.4 | 415.8 | 422.9 | 428.6 | 434.4 | 440.3 | 446.7 | 449.8 |
| 62.5° | 356.1 | 359.3 | 363.1 | 369.5 | 376.6 | 383.1 | 388.2 | 393.3 | 398.5 | 404.3 | 407.4 |
| 65° | 318.1 | 321.3 | 325.2 | 329.7 | 335.5 | 341.2 | 346.4 | 351.6 | 355.4 | 359.3 | 362.4 |
| 67.5° | 277.0 | 280.2 | 284.1 | 287.9 | 293.1 | 298.8 | 302.7 | 307.2 | 311.1 | 315.6 | 317.5 |
| 70° | 238.4 | 241.0 | 244.9 | 248.1 | 252.5 | 256.4 | 259.6 | 263.5 | 266.1 | 270.0 | 273.2 |
| 72.5° | 200.5 | 203.1 | 206.3 | 209.5 | 212.1 | 215.3 | 219.2 | 222.4 | 225.6 | 229.5 | 230.7 |
| 75° | 163.9 | 165.1 | 167.7 | 170.3 | 172.9 | 175.5 | 177.4 | 180.0 | 182.6 | 185.1 | 187.0 |
| 77.5° | 127.9 | 129.2 | 131.8 | 133.7 | 135.6 | 137.6 | 138.9 | 140.1 | 142.6 | 144.6 | 146.5 |
| 80° | 93.9 | 95.2 | 97.1 | 98.9 | 100.9 | 102.8 | 102.8 | 102.8 | 106.0 | 108.6 | 109.3 |
| 82.5° | 63.6 | 64.3 | 65.6 | 66.8 | 68.1 | 69.4 | 69.4 | 68.8 | 70.7 | 72.7 | 73.9 |
| 85° | 36.6 | 37.2 | 38.5 | 38.5 | 39.2 | 39.2 | 39.2 | 39.2 | 40.5 | 42.4 | 43.7 |
| 87.5° | 14.8 | 14.8 | 15.4 | 15.4 | 16.0 | 16.0 | 15.4 | 14.8 | 16.0 | 18.0 | 18.6 |
| 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-20-22L935-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 | 1094.5 |
| 2.5° | 1097.1 | 1096.4 | 1098.4 | 1099.0 | 1100.3 | 1100.3 | 1101.0 | 1101.0 | 1099.7 | 1097.7 | 1098.4 |
| 5° | 1097.7 | 1097.7 | 1099.7 | 1101.6 | 1104.2 | 1106.7 | 1104.8 | 1102.9 | 1101.6 | 1099.7 | 1099.0 |
| 7.5° | 1094.5 | 1095.8 | 1097.7 | 1101.0 | 1104.2 | 1108.0 | 1105.5 | 1102.9 | 1099.7 | 1097.1 | 1095.8 |
| 10° | 1086.8 | 1088.1 | 1091.3 | 1094.5 | 1097.7 | 1101.0 | 1098.4 | 1095.8 | 1093.2 | 1090.0 | 1088.7 |
| 12.5° | 1077.2 | 1079.1 | 1083.0 | 1086.1 | 1089.3 | 1093.2 | 1090.0 | 1086.8 | 1083.6 | 1080.4 | 1078.5 |
| 15° | 1063.0 | 1065.6 | 1070.1 | 1073.9 | 1078.5 | 1081.7 | 1079.1 | 1076.5 | 1072.7 | 1068.1 | 1064.9 |
| 17.5° | 1045.0 | 1048.9 | 1053.4 | 1057.9 | 1061.8 | 1064.9 | 1063.0 | 1060.5 | 1056.0 | 1050.8 | 1046.9 |
| 20° | 1025.1 | 1029.0 | 1032.8 | 1037.3 | 1041.8 | 1045.0 | 1042.4 | 1039.3 | 1034.8 | 1030.9 | 1027.0 |
| 22.5° | 1001.9 | 1005.8 | 1010.3 | 1014.2 | 1018.1 | 1021.2 | 1018.1 | 1014.2 | 1010.3 | 1006.5 | 1002.6 |
| 25° | 975.6 | 979.4 | 984.6 | 988.5 | 991.1 | 993.6 | 991.1 | 987.8 | 984.0 | 980.1 | 976.2 |
| 27.5° | 948.0 | 951.9 | 956.9 | 960.8 | 963.4 | 966.0 | 963.4 | 960.2 | 956.3 | 952.5 | 948.6 |
| 30° | 917.1 | 921.0 | 926.1 | 930.0 | 931.9 | 933.8 | 931.2 | 928.7 | 925.5 | 921.6 | 917.8 |
| 32.5° | 884.4 | 888.2 | 892.0 | 895.9 | 899.1 | 901.7 | 899.1 | 896.6 | 892.7 | 887.5 | 883.7 |
| 35° | 849.6 | 853.5 | 858.0 | 861.9 | 865.7 | 868.9 | 865.1 | 860.6 | 857.4 | 854.1 | 850.9 |
| 37.5° | 813.0 | 817.5 | 822.6 | 827.1 | 828.4 | 831.0 | 828.4 | 825.8 | 822.6 | 819.5 | 815.6 |
| 40° | 777.1 | 780.8 | 785.4 | 789.9 | 791.8 | 793.7 | 791.2 | 788.6 | 784.7 | 781.5 | 777.6 |
| 42.5° | 739.7 | 743.6 | 747.5 | 751.3 | 753.9 | 756.4 | 753.9 | 750.0 | 747.5 | 744.9 | 741.7 |
| 45° | 701.2 | 705.1 | 708.3 | 712.1 | 714.0 | 715.9 | 713.4 | 710.2 | 707.6 | 705.7 | 702.5 |
| 47.5° | 662.0 | 665.2 | 668.4 | 671.6 | 672.9 | 674.8 | 672.2 | 670.3 | 668.4 | 666.5 | 663.9 |
| 50° | 620.9 | 624.1 | 627.9 | 631.1 | 631.8 | 633.7 | 631.1 | 629.2 | 627.2 | 625.3 | 623.5 |
| 52.5° | 580.4 | 582.9 | 586.1 | 589.3 | 590.6 | 591.9 | 589.3 | 586.8 | 584.8 | 583.5 | 581.6 |
| 55° | 537.9 | 540.5 | 543.7 | 546.3 | 548.2 | 549.5 | 546.9 | 544.3 | 542.4 | 541.8 | 539.8 |
| 57.5° | 495.5 | 498.1 | 501.3 | 503.9 | 505.2 | 506.5 | 503.9 | 501.3 | 500.0 | 498.7 | 497.4 |
| 60° | 452.4 | 455.0 | 457.6 | 459.5 | 460.8 | 461.5 | 458.9 | 456.9 | 456.3 | 455.7 | 454.4 |
| 62.5° | 410.0 | 411.3 | 413.9 | 415.2 | 416.5 | 417.1 | 415.2 | 413.9 | 413.2 | 412.6 | 411.9 |
| 65° | 365.7 | 368.9 | 370.8 | 372.1 | 372.1 | 372.8 | 370.8 | 370.2 | 369.5 | 368.9 | 367.6 |
| 67.5° | 320.0 | 322.6 | 323.9 | 325.2 | 325.2 | 325.2 | 325.2 | 325.2 | 324.5 | 323.3 | 322.0 |
| 70° | 276.3 | 278.3 | 279.6 | 280.2 | 280.2 | 280.2 | 278.9 | 278.3 | 278.9 | 278.9 | 278.3 |
| 72.5° | 232.0 | 233.3 | 233.9 | 234.6 | 233.9 | 233.9 | 233.9 | 235.2 | 235.2 | 234.6 | 233.3 |
| 75° | 188.9 | 190.2 | 190.9 | 191.5 | 190.9 | 190.9 | 190.9 | 192.1 | 191.5 | 191.5 | 190.9 |
| 77.5° | 148.4 | 149.1 | 149.1 | 149.7 | 149.1 | 149.1 | 149.7 | 151.0 | 150.4 | 150.4 | 150.4 |
| 80° | 109.9 | 109.9 | 109.9 | 110.5 | 109.9 | 109.9 | 110.5 | 111.8 | 111.2 | 111.2 | 111.2 |
| 82.5° | 74.6 | 75.2 | 75.2 | 75.2 | 75.9 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 75.9 |
| 85° | 44.3 | 45.0 | 44.3 | 44.3 | 44.3 | 44.3 | 45.0 | 45.6 | 45.6 | 45.6 | 45.6 |
| 87.5° | 19.3 | 19.9 | 19.3 | 18.6 | 18.0 | 18.0 | 19.3 | 20.6 | 20.6 | 19.9 | 19.9 |
| 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-20-22L935-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 1094.5 | 1094.5 | 1094.5 | 1094.5 |
| 2.5° | 1101.0 | 1101.0 | 1095.2 | 1089.3 |
| 5° | 1100.3 | 1099.0 | 1092.6 | 1085.5 |
| 7.5° | 1096.4 | 1094.5 | 1086.1 | 1078.5 |
| 10° | 1087.4 | 1084.8 | 1075.9 | 1066.2 |
| 12.5° | 1076.5 | 1072.7 | 1062.3 | 1052.7 |
| 15° | 1062.3 | 1057.9 | 1046.9 | 1036.1 |
| 17.5° | 1043.7 | 1038.6 | 1027.7 | 1016.1 |
| 20° | 1023.8 | 1018.1 | 1005.8 | 993.6 |
| 22.5° | 999.4 | 994.3 | 981.4 | 969.2 |
| 25° | 973.1 | 967.3 | 954.4 | 941.5 |
| 27.5° | 944.8 | 938.3 | 925.5 | 913.2 |
| 30° | 913.9 | 907.5 | 894.6 | 882.4 |
| 32.5° | 881.2 | 876.0 | 863.2 | 849.6 |
| 35° | 847.7 | 841.3 | 828.4 | 815.6 |
| 37.5° | 812.4 | 806.6 | 794.4 | 782.1 |
| 40° | 775.1 | 769.3 | 756.4 | 744.2 |
| 42.5° | 738.4 | 733.4 | 721.1 | 709.6 |
| 45° | 699.2 | 694.1 | 682.6 | 672.2 |
| 47.5° | 660.1 | 654.9 | 644.0 | 633.0 |
| 50° | 620.2 | 615.1 | 604.7 | 595.2 |
| 52.5° | 578.5 | 574.6 | 564.9 | 555.3 |
| 55° | 536.6 | 532.2 | 522.5 | 514.2 |
| 57.5° | 494.8 | 491.7 | 482.7 | 474.3 |
| 60° | 451.8 | 448.0 | 440.9 | 433.8 |
| 62.5° | 410.0 | 406.8 | 399.8 | 393.3 |
| 65° | 365.7 | 363.1 | 357.4 | 351.6 |
| 67.5° | 320.0 | 318.1 | 312.4 | 307.2 |
| 70° | 276.3 | 273.2 | 268.7 | 264.2 |
| 72.5° | 232.0 | 230.7 | 226.9 | 223.0 |
| 75° | 189.6 | 188.3 | 184.5 | 181.3 |
| 77.5° | 149.7 | 148.4 | 145.2 | 142.1 |
| 80° | 110.5 | 109.9 | 107.3 | 104.7 |
| 82.5° | 75.9 | 75.2 | 73.3 | 70.7 |
| 85° | 45.6 | 44.3 | 42.4 | 40.5 |
| 87.5° | 19.9 | 19.3 | 17.3 | 16.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)