

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-39L850-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-39L850-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

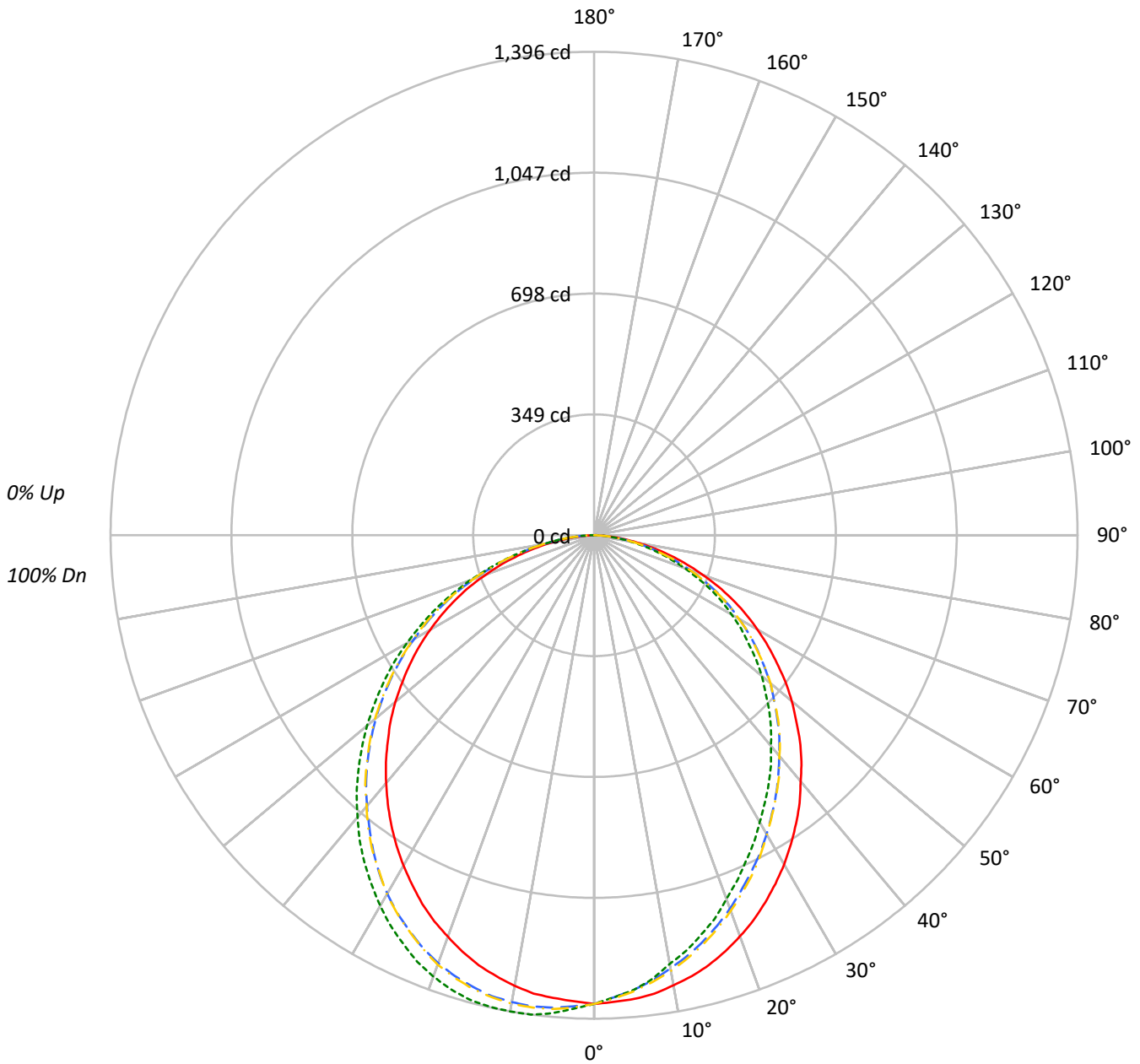
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3629.2 lumens  
Efficiency: N/A  
Efficacy: 79.2 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): 45.8  
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-39L850-X-UNV-NP

### Luminous Intensity Polar Plot



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



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**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°  | 12485 | 12485 | 12485 | 12485 |
| 5°  | 12447 | 12207 | 12420 | 12830 |
| 10° | 12362 | 11774 | 12376 | 13079 |
| 15° | 12267 | 11405 | 12282 | 13262 |
| 20° | 12099 | 10972 | 12114 | 13317 |
| 25° | 11905 | 10566 | 11952 | 13261 |
| 30° | 11692 | 10193 | 11725 | 13160 |
| 35° | 11448 | 9897  | 11500 | 13017 |
| 40° | 11172 | 9569  | 11247 | 12794 |
| 45° | 10965 | 9327  | 10985 | 12562 |
| 50° | 10699 | 9074  | 10745 | 12282 |
| 55° | 10367 | 8741  | 10439 | 11942 |
| 60° | 10057 | 8473  | 10084 | 11525 |
| 65° | 9658  | 8119  | 9658  | 11029 |
| 70° | 9002  | 7515  | 8961  | 10283 |
| 75° | 8185  | 6819  | 8074  | 9222  |
| 80° | 7072  | 5855  | 6833  | 7885  |
| 85° | 5505  | 4372  | 5187  | 6479  |



TEST NUMBER: P  
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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.9  | 3.5       |
| 10°-20°   | 362.9  | 10.0      |
| 20°-30°   | 539.5  | 14.9      |
| 30°-40°   | 635.8  | 17.5      |
| 40°-50°   | 647.4  | 17.8      |
| 50°-60°   | 576.8  | 15.9      |
| 60°-70°   | 434.5  | 12.0      |
| 70°-80°   | 241.6  | 6.7       |
| 80°-90°   | 62.8   | 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°    | 1030.2 | 28.4      |
| 0°-40°    | 1666.0 | 45.9      |
| 0°-60°    | 2890.2 | 79.6      |
| 0°-90°    | 3629.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3629.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1353 | 1353 | 1353 | 1353 | 1353 |      |
| 5°  | 1344 | 1318 | 1341 | 1385 | 1344 | 128  |
| 15° | 1284 | 1194 | 1286 | 1388 | 1284 | 362  |
| 25° | 1170 | 1038 | 1174 | 1303 | 1170 | 539  |
| 35° | 1016 | 879  | 1021 | 1156 | 1016 | 636  |
| 45° | 840  | 715  | 842  | 963  | 840  | 648  |
| 55° | 644  | 543  | 649  | 742  | 644  | 577  |
| 65° | 442  | 372  | 442  | 505  | 442  | 437  |
| 75° | 230  | 191  | 226  | 259  | 230  | 244  |
| 85° | 52   | 41   | 49   | 61   | 52   | 63   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P

CATALOG NUMBER: 4APN-39L850-X-UNV-NP

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°  | 1348.6 | 1348.6 | 1350.1 | 1344.0 | 1336.3 | 1333.3 | 1331.7 | 1330.3 | 1333.3 | 1334.8 | 1333.3 |
| 5°    | 1344.0 | 1341.0 | 1337.9 | 1330.3 | 1321.0 | 1315.0 | 1311.8 | 1310.3 | 1313.4 | 1318.0 | 1313.4 |
| 7.5°  | 1334.8 | 1328.7 | 1322.6 | 1311.8 | 1301.1 | 1292.0 | 1287.4 | 1284.3 | 1287.4 | 1292.0 | 1288.9 |
| 10°   | 1319.5 | 1311.8 | 1302.7 | 1290.4 | 1275.1 | 1264.4 | 1259.8 | 1255.2 | 1256.8 | 1256.8 | 1256.8 |
| 12.5° | 1304.2 | 1293.5 | 1282.8 | 1267.5 | 1250.6 | 1238.3 | 1230.7 | 1224.6 | 1227.6 | 1229.2 | 1229.2 |
| 15°   | 1284.3 | 1270.5 | 1255.2 | 1238.3 | 1221.6 | 1207.7 | 1198.6 | 1192.4 | 1194.0 | 1194.0 | 1195.6 |
| 17.5° | 1259.8 | 1244.5 | 1229.2 | 1209.3 | 1189.4 | 1174.1 | 1163.4 | 1155.7 | 1158.8 | 1160.3 | 1161.8 |
| 20°   | 1232.3 | 1215.4 | 1198.6 | 1177.1 | 1155.7 | 1138.9 | 1128.2 | 1118.9 | 1117.5 | 1117.5 | 1118.9 |
| 22.5° | 1203.2 | 1184.8 | 1164.9 | 1142.0 | 1118.9 | 1100.6 | 1089.9 | 1080.7 | 1079.2 | 1079.2 | 1080.7 |
| 25°   | 1169.5 | 1149.6 | 1129.7 | 1106.8 | 1082.2 | 1063.9 | 1050.1 | 1040.9 | 1039.4 | 1037.9 | 1040.9 |
| 27.5° | 1134.2 | 1114.4 | 1094.5 | 1071.5 | 1045.5 | 1027.1 | 1013.4 | 1004.2 | 1001.1 | 999.5  | 1002.7 |
| 30°   | 1097.5 | 1074.6 | 1053.2 | 1028.7 | 1005.7 | 987.4  | 973.5  | 962.8  | 959.8  | 956.8  | 959.8  |
| 32.5° | 1057.7 | 1034.8 | 1011.8 | 987.4  | 964.4  | 946.0  | 932.2  | 921.5  | 918.5  | 916.9  | 920.0  |
| 35°   | 1016.4 | 993.5  | 972.1  | 947.5  | 924.6  | 906.2  | 892.4  | 883.3  | 880.1  | 878.7  | 880.1  |
| 37.5° | 975.1  | 952.1  | 930.7  | 906.2  | 883.3  | 864.8  | 851.1  | 841.9  | 840.4  | 838.8  | 840.4  |
| 40°   | 927.6  | 907.7  | 886.3  | 863.4  | 840.4  | 822.1  | 811.3  | 800.6  | 797.5  | 794.5  | 799.1  |
| 42.5° | 886.3  | 866.4  | 845.0  | 823.5  | 800.6  | 782.2  | 770.0  | 760.7  | 757.7  | 756.2  | 757.7  |
| 45°   | 840.4  | 818.9  | 797.5  | 777.6  | 756.2  | 739.4  | 727.1  | 718.0  | 716.4  | 714.8  | 716.4  |
| 47.5° | 791.4  | 773.0  | 754.7  | 734.7  | 713.4  | 696.5  | 685.8  | 676.6  | 673.5  | 670.5  | 673.5  |
| 50°   | 745.4  | 727.1  | 708.7  | 690.4  | 670.5  | 655.2  | 644.5  | 635.3  | 633.7  | 632.2  | 633.7  |
| 52.5° | 696.5  | 678.1  | 661.3  | 642.9  | 626.0  | 610.7  | 600.0  | 592.4  | 590.9  | 589.3  | 590.9  |
| 55°   | 644.5  | 629.2  | 613.9  | 598.6  | 581.7  | 568.0  | 558.7  | 549.5  | 546.5  | 543.4  | 546.5  |
| 57.5° | 595.4  | 581.7  | 566.4  | 551.1  | 535.8  | 523.5  | 514.3  | 506.6  | 505.2  | 503.6  | 505.2  |
| 60°   | 545.0  | 532.7  | 518.9  | 505.2  | 489.9  | 477.6  | 469.9  | 463.9  | 460.7  | 459.2  | 460.7  |
| 62.5° | 494.5  | 482.2  | 471.5  | 457.7  | 443.9  | 434.7  | 427.1  | 421.0  | 417.9  | 416.4  | 417.9  |
| 65°   | 442.4  | 431.7  | 421.0  | 408.7  | 398.0  | 388.8  | 381.2  | 375.1  | 373.5  | 371.9  | 371.9  |
| 67.5° | 388.8  | 379.6  | 370.5  | 359.8  | 347.5  | 338.3  | 330.6  | 326.0  | 324.5  | 323.0  | 324.5  |
| 70°   | 333.7  | 326.0  | 316.9  | 307.7  | 298.5  | 290.8  | 286.3  | 281.7  | 280.1  | 278.6  | 278.6  |
| 72.5° | 281.7  | 275.5  | 267.8  | 260.2  | 252.5  | 244.9  | 240.4  | 237.2  | 235.8  | 234.2  | 234.2  |
| 75°   | 229.6  | 223.5  | 218.9  | 212.8  | 205.1  | 200.5  | 195.9  | 192.9  | 191.3  | 191.3  | 191.3  |
| 77.5° | 180.6  | 176.0  | 171.4  | 165.3  | 160.7  | 156.1  | 153.1  | 151.6  | 150.0  | 150.0  | 150.0  |
| 80°   | 133.1  | 130.1  | 127.1  | 124.0  | 119.4  | 114.8  | 113.3  | 111.7  | 110.2  | 110.2  | 110.2  |
| 82.5° | 90.4   | 88.8   | 85.7   | 82.7   | 79.6   | 78.1   | 76.5   | 75.1   | 75.1   | 75.1   | 75.1   |
| 85°   | 52.0   | 50.5   | 49.0   | 47.5   | 45.9   | 45.9   | 44.3   | 42.9   | 41.3   | 41.3   | 41.3   |
| 87.5° | 21.4   | 21.4   | 21.4   | 19.9   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   | 190°   | 200°   | 210°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°  | 1330.3 | 1333.3 | 1336.3 | 1341.0 | 1345.6 | 1350.1 | 1348.6 | 1347.0 | 1353.2 | 1360.9 | 1362.3 |
| 5°    | 1310.3 | 1313.4 | 1318.0 | 1325.7 | 1333.3 | 1339.4 | 1341.0 | 1341.0 | 1353.2 | 1363.9 | 1367.0 |
| 7.5°  | 1285.8 | 1290.4 | 1296.5 | 1304.2 | 1315.0 | 1324.1 | 1328.7 | 1334.8 | 1347.0 | 1360.9 | 1367.0 |
| 10°   | 1255.2 | 1262.9 | 1272.1 | 1282.8 | 1293.5 | 1304.2 | 1313.4 | 1321.0 | 1336.3 | 1351.7 | 1360.9 |
| 12.5° | 1227.6 | 1235.3 | 1244.5 | 1256.8 | 1270.5 | 1284.3 | 1293.5 | 1304.2 | 1322.6 | 1341.0 | 1351.7 |
| 15°   | 1197.0 | 1204.7 | 1215.4 | 1227.6 | 1242.9 | 1258.3 | 1272.1 | 1285.8 | 1304.2 | 1324.1 | 1336.3 |
| 17.5° | 1163.4 | 1171.0 | 1181.7 | 1197.0 | 1213.9 | 1230.7 | 1246.0 | 1261.3 | 1282.8 | 1304.2 | 1318.0 |
| 20°   | 1122.1 | 1132.8 | 1146.5 | 1161.8 | 1181.7 | 1201.6 | 1216.9 | 1233.8 | 1256.8 | 1279.7 | 1295.0 |
| 22.5° | 1082.2 | 1092.9 | 1108.2 | 1126.6 | 1148.1 | 1169.5 | 1187.9 | 1206.3 | 1230.7 | 1253.6 | 1270.5 |
| 25°   | 1044.0 | 1056.2 | 1071.5 | 1089.9 | 1109.8 | 1131.2 | 1152.7 | 1174.1 | 1198.6 | 1223.0 | 1239.9 |
| 27.5° | 1005.7 | 1016.4 | 1031.7 | 1050.1 | 1073.0 | 1094.5 | 1115.9 | 1137.4 | 1163.4 | 1189.4 | 1207.7 |
| 30°   | 962.8  | 975.1  | 988.8  | 1007.2 | 1031.7 | 1056.2 | 1077.6 | 1100.6 | 1126.6 | 1152.7 | 1171.0 |
| 32.5° | 923.0  | 933.8  | 947.5  | 965.9  | 990.4  | 1014.8 | 1037.9 | 1062.3 | 1086.9 | 1112.9 | 1131.2 |
| 35°   | 883.3  | 894.0  | 907.7  | 926.1  | 950.6  | 975.1  | 998.1  | 1021.0 | 1045.5 | 1070.0 | 1088.3 |
| 37.5° | 843.4  | 854.1  | 868.0  | 886.3  | 909.3  | 933.8  | 955.2  | 978.1  | 1002.7 | 1027.1 | 1044.0 |
| 40°   | 802.1  | 812.8  | 823.5  | 841.9  | 864.8  | 889.4  | 910.8  | 933.8  | 958.2  | 982.8  | 999.5  |
| 42.5° | 760.7  | 771.5  | 785.3  | 803.6  | 825.1  | 846.5  | 868.0  | 889.4  | 912.3  | 935.3  | 952.1  |
| 45°   | 719.4  | 728.7  | 742.4  | 759.3  | 780.7  | 800.6  | 822.1  | 841.9  | 864.8  | 886.3  | 903.2  |
| 47.5° | 676.6  | 685.8  | 696.5  | 713.4  | 734.7  | 756.2  | 777.6  | 797.5  | 817.4  | 838.8  | 854.1  |
| 50°   | 635.3  | 644.5  | 656.6  | 672.0  | 691.9  | 711.8  | 730.1  | 748.6  | 768.4  | 788.3  | 802.1  |
| 52.5° | 592.4  | 601.6  | 612.3  | 627.6  | 644.5  | 662.8  | 679.7  | 698.0  | 716.4  | 734.7  | 748.6  |
| 55°   | 549.5  | 555.7  | 564.8  | 578.6  | 597.0  | 615.3  | 632.2  | 649.0  | 665.9  | 681.2  | 695.0  |
| 57.5° | 506.6  | 514.3  | 525.1  | 537.2  | 552.6  | 568.0  | 583.3  | 598.6  | 613.9  | 629.2  | 641.3  |
| 60°   | 463.9  | 469.9  | 477.6  | 488.3  | 503.6  | 517.4  | 532.7  | 546.5  | 560.3  | 574.0  | 584.7  |
| 62.5° | 419.4  | 425.6  | 433.2  | 443.9  | 456.2  | 468.4  | 482.2  | 494.5  | 506.6  | 518.9  | 529.6  |
| 65°   | 373.5  | 379.6  | 387.2  | 396.5  | 407.2  | 417.9  | 430.1  | 442.4  | 451.6  | 460.7  | 471.5  |
| 67.5° | 326.0  | 332.2  | 339.8  | 347.5  | 356.6  | 367.4  | 378.1  | 388.8  | 398.0  | 407.2  | 414.8  |
| 70°   | 280.1  | 284.7  | 292.4  | 298.5  | 306.2  | 313.8  | 323.0  | 332.2  | 338.3  | 345.9  | 355.2  |
| 72.5° | 235.8  | 240.4  | 246.5  | 252.5  | 257.1  | 263.3  | 272.5  | 280.1  | 287.8  | 297.0  | 301.6  |
| 75°   | 192.9  | 195.9  | 200.5  | 205.1  | 209.8  | 214.3  | 220.5  | 226.5  | 232.7  | 237.2  | 243.4  |
| 77.5° | 150.0  | 153.1  | 157.7  | 160.7  | 163.7  | 166.9  | 171.4  | 176.0  | 180.6  | 183.7  | 189.8  |
| 80°   | 110.2  | 113.3  | 116.4  | 119.4  | 122.4  | 125.5  | 127.1  | 128.6  | 134.7  | 139.3  | 142.4  |
| 82.5° | 75.1   | 76.5   | 78.1   | 81.1   | 82.7   | 84.2   | 85.7   | 85.7   | 88.8   | 91.8   | 96.4   |
| 85°   | 42.9   | 44.3   | 45.9   | 45.9   | 45.9   | 45.9   | 47.5   | 49.0   | 50.5   | 53.6   | 56.6   |
| 87.5° | 16.9   | 16.9   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 19.9   | 23.0   | 24.5   |
| 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-39L850-X-UNV-NP

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 230°   | 240°   | 250°   | 260°   | 270°   | 280°   | 290°   | 300°   | 310°   | 320°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°  | 1360.9 | 1362.3 | 1365.4 | 1367.0 | 1368.5 | 1368.5 | 1370.0 | 1371.6 | 1368.5 | 1365.4 | 1363.9 |
| 5°    | 1368.5 | 1370.0 | 1374.6 | 1379.2 | 1382.3 | 1385.3 | 1383.8 | 1382.3 | 1379.2 | 1374.6 | 1371.6 |
| 7.5°  | 1370.0 | 1374.6 | 1379.2 | 1385.3 | 1389.9 | 1396.1 | 1393.0 | 1389.9 | 1383.8 | 1377.7 | 1373.0 |
| 10°   | 1365.4 | 1371.6 | 1379.2 | 1386.9 | 1391.5 | 1396.1 | 1393.0 | 1389.9 | 1383.8 | 1376.2 | 1370.0 |
| 12.5° | 1359.3 | 1367.0 | 1376.2 | 1383.8 | 1388.4 | 1394.5 | 1389.9 | 1385.3 | 1377.7 | 1370.0 | 1362.3 |
| 15°   | 1345.6 | 1354.7 | 1365.4 | 1374.6 | 1382.3 | 1388.4 | 1383.8 | 1380.7 | 1371.6 | 1360.9 | 1350.1 |
| 17.5° | 1328.7 | 1341.0 | 1351.7 | 1362.3 | 1368.5 | 1374.6 | 1371.6 | 1368.5 | 1357.7 | 1345.6 | 1333.3 |
| 20°   | 1308.8 | 1321.0 | 1331.7 | 1342.4 | 1350.1 | 1356.3 | 1351.7 | 1347.0 | 1336.3 | 1325.7 | 1313.4 |
| 22.5° | 1284.3 | 1296.5 | 1308.8 | 1319.5 | 1327.1 | 1333.3 | 1327.1 | 1319.5 | 1308.8 | 1298.1 | 1285.8 |
| 25°   | 1253.6 | 1267.5 | 1281.2 | 1292.0 | 1296.5 | 1302.7 | 1296.5 | 1290.4 | 1279.7 | 1269.0 | 1255.2 |
| 27.5° | 1223.0 | 1236.9 | 1250.6 | 1261.3 | 1265.9 | 1272.1 | 1265.9 | 1259.8 | 1249.1 | 1238.3 | 1224.6 |
| 30°   | 1187.9 | 1201.6 | 1215.4 | 1226.2 | 1230.7 | 1235.3 | 1229.2 | 1223.0 | 1213.9 | 1203.2 | 1189.4 |
| 32.5° | 1148.1 | 1161.8 | 1172.6 | 1183.3 | 1189.4 | 1195.6 | 1189.4 | 1184.8 | 1174.1 | 1160.3 | 1146.5 |
| 35°   | 1105.2 | 1118.9 | 1132.8 | 1143.5 | 1149.6 | 1155.7 | 1148.1 | 1140.4 | 1131.2 | 1120.5 | 1108.2 |
| 37.5° | 1057.7 | 1073.0 | 1088.3 | 1100.6 | 1105.2 | 1111.3 | 1105.2 | 1097.5 | 1088.3 | 1077.6 | 1063.9 |
| 40°   | 1013.4 | 1027.1 | 1040.9 | 1053.2 | 1057.7 | 1062.3 | 1056.2 | 1050.1 | 1039.4 | 1028.7 | 1014.8 |
| 42.5° | 967.5  | 981.2  | 993.5  | 1004.2 | 1008.8 | 1014.8 | 1008.8 | 1001.1 | 993.5  | 984.2  | 972.1  |
| 45°   | 918.5  | 932.2  | 942.9  | 953.6  | 958.2  | 962.8  | 956.8  | 949.1  | 941.5  | 933.8  | 921.5  |
| 47.5° | 868.0  | 880.1  | 890.9  | 901.6  | 904.7  | 909.3  | 903.2  | 898.6  | 890.9  | 883.3  | 872.5  |
| 50°   | 815.9  | 828.1  | 838.8  | 848.1  | 851.1  | 855.7  | 849.5  | 843.4  | 837.4  | 831.2  | 822.1  |
| 52.5° | 762.3  | 773.0  | 783.8  | 792.9  | 796.0  | 799.1  | 792.9  | 786.8  | 780.7  | 774.6  | 765.4  |
| 55°   | 707.2  | 718.0  | 728.7  | 736.3  | 739.4  | 742.4  | 736.3  | 731.7  | 725.6  | 721.0  | 711.8  |
| 57.5° | 652.1  | 662.8  | 672.0  | 679.7  | 682.7  | 685.8  | 679.7  | 673.5  | 668.9  | 664.4  | 656.6  |
| 60°   | 595.4  | 606.2  | 613.9  | 620.0  | 623.0  | 624.6  | 618.4  | 613.9  | 610.7  | 607.7  | 600.0  |
| 62.5° | 540.4  | 548.0  | 555.7  | 560.3  | 563.3  | 564.8  | 560.3  | 557.2  | 554.1  | 551.1  | 545.0  |
| 65°   | 482.2  | 491.3  | 497.5  | 502.1  | 503.6  | 505.2  | 500.6  | 497.5  | 494.5  | 491.3  | 486.8  |
| 67.5° | 424.0  | 431.7  | 436.3  | 440.9  | 442.4  | 442.4  | 442.4  | 440.9  | 437.8  | 433.2  | 428.6  |
| 70°   | 365.8  | 371.9  | 376.5  | 379.6  | 381.2  | 381.2  | 378.1  | 375.1  | 375.1  | 373.5  | 370.5  |
| 72.5° | 306.2  | 310.7  | 313.8  | 316.9  | 316.9  | 316.9  | 316.9  | 318.4  | 316.9  | 313.8  | 309.2  |
| 75°   | 249.5  | 254.1  | 257.1  | 258.7  | 258.7  | 258.7  | 258.7  | 260.2  | 258.7  | 257.1  | 254.1  |
| 77.5° | 195.9  | 199.0  | 200.5  | 202.1  | 202.1  | 202.1  | 203.6  | 205.1  | 203.6  | 202.1  | 200.5  |
| 80°   | 145.4  | 147.0  | 148.4  | 150.0  | 148.4  | 148.4  | 150.0  | 153.1  | 151.6  | 150.0  | 148.4  |
| 82.5° | 99.5   | 101.1  | 102.5  | 102.5  | 104.1  | 105.7  | 105.7  | 105.7  | 105.7  | 104.1  | 102.5  |
| 85°   | 59.7   | 61.2   | 61.2   | 61.2   | 61.2   | 61.2   | 62.8   | 64.3   | 64.3   | 62.8   | 62.8   |
| 87.5° | 27.6   | 29.0   | 27.6   | 26.0   | 24.5   | 24.5   | 27.6   | 30.6   | 30.6   | 29.0   | 29.0   |
| 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-39L850-X-UNV-NP

**CANDELA DISTRIBUTION (continued):**

|       | 330°   | 340°   | 350°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°  | 1365.4 | 1363.9 | 1356.3 | 1348.6 |
| 5°    | 1370.0 | 1365.4 | 1354.7 | 1344.0 |
| 7.5°  | 1370.0 | 1363.9 | 1348.6 | 1334.8 |
| 10°   | 1362.3 | 1353.2 | 1336.3 | 1319.5 |
| 12.5° | 1353.2 | 1342.4 | 1322.6 | 1304.2 |
| 15°   | 1339.4 | 1327.1 | 1305.7 | 1284.3 |
| 17.5° | 1319.5 | 1304.2 | 1282.8 | 1259.8 |
| 20°   | 1299.7 | 1282.8 | 1256.8 | 1232.3 |
| 22.5° | 1272.1 | 1256.8 | 1229.2 | 1203.2 |
| 25°   | 1241.5 | 1224.6 | 1197.0 | 1169.5 |
| 27.5° | 1209.3 | 1189.4 | 1161.8 | 1134.2 |
| 30°   | 1172.6 | 1152.7 | 1125.1 | 1097.5 |
| 32.5° | 1132.8 | 1114.4 | 1086.9 | 1057.7 |
| 35°   | 1092.9 | 1073.0 | 1045.5 | 1016.4 |
| 37.5° | 1048.6 | 1030.2 | 1002.7 | 975.1  |
| 40°   | 1001.1 | 982.8  | 955.2  | 927.6  |
| 42.5° | 956.8  | 939.9  | 912.3  | 886.3  |
| 45°   | 907.7  | 890.9  | 864.8  | 840.4  |
| 47.5° | 857.2  | 840.4  | 815.9  | 791.4  |
| 50°   | 808.2  | 791.4  | 768.4  | 745.4  |
| 52.5° | 753.1  | 739.4  | 718.0  | 696.5  |
| 55°   | 699.5  | 685.8  | 664.4  | 644.5  |
| 57.5° | 646.0  | 633.7  | 613.9  | 595.4  |
| 60°   | 589.3  | 577.1  | 561.8  | 545.0  |
| 62.5° | 535.8  | 525.1  | 509.8  | 494.5  |
| 65°   | 479.2  | 469.9  | 456.2  | 442.4  |
| 67.5° | 421.0  | 413.3  | 401.1  | 388.8  |
| 70°   | 362.8  | 353.6  | 344.5  | 333.7  |
| 72.5° | 304.6  | 300.0  | 290.8  | 281.7  |
| 75°   | 249.5  | 244.9  | 237.2  | 229.6  |
| 77.5° | 197.5  | 192.9  | 186.8  | 180.6  |
| 80°   | 145.4  | 142.4  | 137.7  | 133.1  |
| 82.5° | 101.1  | 98.0   | 94.9   | 90.4   |
| 85°   | 61.2   | 58.2   | 55.1   | 52.0   |
| 87.5° | 27.6   | 26.0   | 23.0   | 21.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)