

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: P709121

Luminaire Tested: **4APN-35L840-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-35L840-X-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

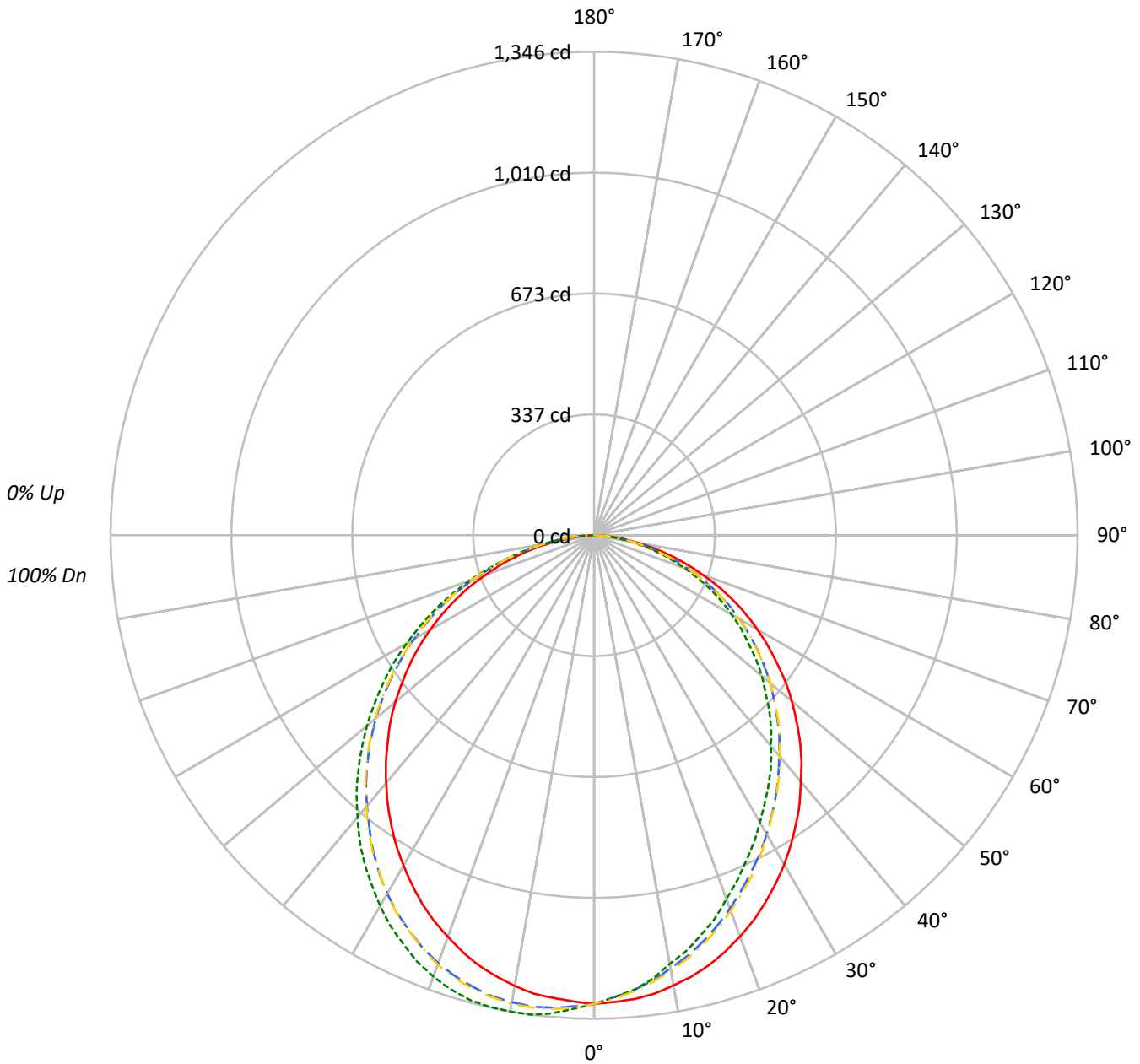
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3499.7 lumens
Efficiency: N/A
Efficacy: 86.6 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): 40.4
Input Voltage (V): 120
Input Current (Ain): 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: P709121
CATALOG NUMBER: 4APN-35L840-X-UNV

Luminous Intensity Polar Plot



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



TEST NUMBER: P709121
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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 | 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° | 12039 | 12039 | 12039 | 12039 |
| 5° | 12004 | 11771 | 11976 | 12372 |
| 10° | 11921 | 11354 | 11935 | 12613 |
| 15° | 11830 | 10998 | 11844 | 12789 |
| 20° | 11667 | 10580 | 11682 | 12841 |
| 25° | 11481 | 10188 | 11526 | 12788 |
| 30° | 11276 | 9829 | 11308 | 12692 |
| 35° | 11040 | 9543 | 11090 | 12553 |
| 40° | 10775 | 9227 | 10846 | 12339 |
| 45° | 10574 | 8995 | 10594 | 12115 |
| 50° | 10319 | 8751 | 10360 | 11844 |
| 55° | 9997 | 8429 | 10068 | 11516 |
| 60° | 9697 | 8173 | 9724 | 11114 |
| 65° | 9313 | 7831 | 9313 | 10634 |
| 70° | 8681 | 7248 | 8640 | 9916 |
| 75° | 7892 | 6577 | 7789 | 8894 |
| 80° | 6822 | 5648 | 6588 | 7608 |
| 85° | 5314 | 4224 | 4997 | 6246 |



TEST NUMBER: P709121
 CATALOG NUMBER: 4APN-35L840-X-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.3 | 3.5 |
| 10°-20° | 349.9 | 10.0 |
| 20°-30° | 520.2 | 14.9 |
| 30°-40° | 613.2 | 17.5 |
| 40°-50° | 624.3 | 17.8 |
| 50°-60° | 556.2 | 15.9 |
| 60°-70° | 419.0 | 12.0 |
| 70°-80° | 233.0 | 6.7 |
| 80°-90° | 60.5 | 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° | 993.5 | 28.4 |
| 0°-40° | 1606.6 | 45.9 |
| 0°-60° | 2787.2 | 79.6 |
| 0°-90° | 3499.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3499.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1305 | 1305 | 1305 | 1305 | 1305 | |
| 5° | 1296 | 1271 | 1293 | 1336 | 1296 | 123 |
| 15° | 1238 | 1151 | 1240 | 1339 | 1238 | 349 |
| 25° | 1128 | 1001 | 1132 | 1256 | 1128 | 520 |
| 35° | 980 | 847 | 985 | 1114 | 980 | 613 |
| 45° | 810 | 689 | 812 | 928 | 810 | 624 |
| 55° | 622 | 524 | 626 | 716 | 622 | 557 |
| 65° | 427 | 359 | 427 | 487 | 427 | 421 |
| 75° | 221 | 184 | 218 | 250 | 221 | 235 |
| 85° | 50 | 40 | 47 | 59 | 50 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P709121

CATALOG NUMBER: 4APN-35L840-X-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1300.5 | 1300.5 | 1302.0 | 1296.1 | 1288.7 | 1285.7 | 1284.3 | 1282.8 | 1285.7 | 1287.2 | 1285.7 |
| 5° | 1296.1 | 1293.1 | 1290.2 | 1282.8 | 1273.9 | 1268.0 | 1265.1 | 1263.6 | 1266.6 | 1271.0 | 1266.6 |
| 7.5° | 1287.2 | 1281.3 | 1275.4 | 1265.1 | 1254.7 | 1245.9 | 1241.5 | 1238.5 | 1241.5 | 1245.9 | 1242.9 |
| 10° | 1272.5 | 1265.1 | 1256.2 | 1244.4 | 1229.6 | 1219.3 | 1214.9 | 1210.5 | 1211.9 | 1211.9 | 1211.9 |
| 12.5° | 1257.7 | 1247.4 | 1237.0 | 1222.3 | 1206.0 | 1194.2 | 1186.8 | 1180.9 | 1183.9 | 1185.4 | 1185.4 |
| 15° | 1238.5 | 1225.2 | 1210.5 | 1194.2 | 1178.0 | 1164.7 | 1155.8 | 1149.9 | 1151.4 | 1151.4 | 1152.9 |
| 17.5° | 1214.9 | 1200.1 | 1185.4 | 1166.2 | 1147.0 | 1132.2 | 1121.9 | 1114.5 | 1117.5 | 1118.9 | 1120.4 |
| 20° | 1188.3 | 1172.1 | 1155.8 | 1135.2 | 1114.5 | 1098.3 | 1087.9 | 1079.1 | 1077.6 | 1077.6 | 1079.1 |
| 22.5° | 1160.3 | 1142.6 | 1123.4 | 1101.2 | 1079.1 | 1061.4 | 1051.0 | 1042.2 | 1040.7 | 1040.7 | 1042.2 |
| 25° | 1127.8 | 1108.6 | 1089.4 | 1067.3 | 1043.7 | 1025.9 | 1012.7 | 1003.8 | 1002.3 | 1000.8 | 1003.8 |
| 27.5° | 1093.8 | 1074.7 | 1055.5 | 1033.3 | 1008.2 | 990.5 | 977.2 | 968.4 | 965.4 | 963.9 | 966.9 |
| 30° | 1058.4 | 1036.3 | 1015.6 | 992.0 | 969.8 | 952.1 | 938.8 | 928.5 | 925.6 | 922.6 | 925.6 |
| 32.5° | 1020.0 | 997.9 | 975.7 | 952.1 | 930.0 | 912.3 | 899.0 | 888.7 | 885.7 | 884.2 | 887.2 |
| 35° | 980.2 | 958.0 | 937.4 | 913.7 | 891.6 | 873.9 | 860.6 | 851.8 | 848.8 | 847.3 | 848.8 |
| 37.5° | 940.3 | 918.2 | 897.5 | 873.9 | 851.8 | 834.0 | 820.8 | 811.9 | 810.4 | 808.9 | 810.4 |
| 40° | 894.6 | 875.4 | 854.7 | 832.6 | 810.4 | 792.7 | 782.4 | 772.0 | 769.1 | 766.1 | 770.6 |
| 42.5° | 854.7 | 835.5 | 814.8 | 794.2 | 772.0 | 754.3 | 742.5 | 733.7 | 730.7 | 729.2 | 730.7 |
| 45° | 810.4 | 789.8 | 769.1 | 749.9 | 729.2 | 713.0 | 701.2 | 692.3 | 690.8 | 689.4 | 690.8 |
| 47.5° | 763.2 | 745.5 | 727.8 | 708.6 | 687.9 | 671.7 | 661.3 | 652.5 | 649.5 | 646.6 | 649.5 |
| 50° | 718.9 | 701.2 | 683.5 | 665.8 | 646.6 | 631.8 | 621.5 | 612.6 | 611.1 | 609.7 | 611.1 |
| 52.5° | 671.7 | 653.9 | 637.7 | 620.0 | 603.8 | 589.0 | 578.7 | 571.3 | 569.8 | 568.3 | 569.8 |
| 55° | 621.5 | 606.7 | 591.9 | 577.2 | 560.9 | 547.7 | 538.8 | 529.9 | 527.0 | 524.0 | 527.0 |
| 57.5° | 574.2 | 560.9 | 546.2 | 531.4 | 516.7 | 504.9 | 496.0 | 488.6 | 487.1 | 485.7 | 487.1 |
| 60° | 525.5 | 513.7 | 500.4 | 487.1 | 472.4 | 460.6 | 453.2 | 447.3 | 444.3 | 442.9 | 444.3 |
| 62.5° | 476.8 | 465.0 | 454.7 | 441.4 | 428.1 | 419.2 | 411.9 | 405.9 | 403.0 | 401.5 | 403.0 |
| 65° | 426.6 | 416.3 | 405.9 | 394.1 | 383.8 | 374.9 | 367.6 | 361.7 | 360.2 | 358.7 | 358.7 |
| 67.5° | 374.9 | 366.1 | 357.2 | 346.9 | 335.1 | 326.2 | 318.9 | 314.4 | 312.9 | 311.5 | 312.9 |
| 70° | 321.8 | 314.4 | 305.6 | 296.7 | 287.9 | 280.5 | 276.0 | 271.6 | 270.1 | 268.7 | 268.7 |
| 72.5° | 271.6 | 265.7 | 258.3 | 250.9 | 243.6 | 236.2 | 231.8 | 228.8 | 227.3 | 225.9 | 225.9 |
| 75° | 221.4 | 215.5 | 211.1 | 205.2 | 197.8 | 193.4 | 188.9 | 186.0 | 184.5 | 184.5 | 184.5 |
| 77.5° | 174.2 | 169.8 | 165.3 | 159.4 | 155.0 | 150.6 | 147.6 | 146.1 | 144.7 | 144.7 | 144.7 |
| 80° | 128.4 | 125.5 | 122.5 | 119.6 | 115.1 | 110.7 | 109.2 | 107.8 | 106.3 | 106.3 | 106.3 |
| 82.5° | 87.1 | 85.6 | 82.7 | 79.7 | 76.8 | 75.3 | 73.8 | 72.3 | 72.3 | 72.3 | 72.3 |
| 85° | 50.2 | 48.7 | 47.2 | 45.8 | 44.3 | 44.3 | 42.8 | 41.3 | 39.9 | 39.9 | 39.9 |
| 87.5° | 20.7 | 20.7 | 20.7 | 19.2 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 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: P709121

CATALOG NUMBER: 4APN-35L840-X-UNV

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1282.8 | 1285.7 | 1288.7 | 1293.1 | 1297.6 | 1302.0 | 1300.5 | 1299.0 | 1304.9 | 1312.3 | 1313.8 |
| 5° | 1263.6 | 1266.6 | 1271.0 | 1278.4 | 1285.7 | 1291.6 | 1293.1 | 1293.1 | 1304.9 | 1315.3 | 1318.2 |
| 7.5° | 1240.0 | 1244.4 | 1250.3 | 1257.7 | 1268.0 | 1276.9 | 1281.3 | 1287.2 | 1299.0 | 1312.3 | 1318.2 |
| 10° | 1210.5 | 1217.8 | 1226.7 | 1237.0 | 1247.4 | 1257.7 | 1266.6 | 1273.9 | 1288.7 | 1303.5 | 1312.3 |
| 12.5° | 1183.9 | 1191.3 | 1200.1 | 1211.9 | 1225.2 | 1238.5 | 1247.4 | 1257.7 | 1275.4 | 1293.1 | 1303.5 |
| 15° | 1154.4 | 1161.7 | 1172.1 | 1183.9 | 1198.7 | 1213.4 | 1226.7 | 1240.0 | 1257.7 | 1276.9 | 1288.7 |
| 17.5° | 1121.9 | 1129.3 | 1139.6 | 1154.4 | 1170.6 | 1186.8 | 1201.6 | 1216.4 | 1237.0 | 1257.7 | 1271.0 |
| 20° | 1082.0 | 1092.4 | 1105.7 | 1120.4 | 1139.6 | 1158.8 | 1173.6 | 1189.8 | 1211.9 | 1234.1 | 1248.8 |
| 22.5° | 1043.7 | 1054.0 | 1068.7 | 1086.5 | 1107.1 | 1127.8 | 1145.5 | 1163.2 | 1186.8 | 1209.0 | 1225.2 |
| 25° | 1006.7 | 1018.6 | 1033.3 | 1051.0 | 1070.2 | 1090.9 | 1111.6 | 1132.2 | 1155.8 | 1179.5 | 1195.7 |
| 27.5° | 969.8 | 980.2 | 994.9 | 1012.7 | 1034.8 | 1055.5 | 1076.1 | 1096.8 | 1121.9 | 1147.0 | 1164.7 |
| 30° | 928.5 | 940.3 | 953.6 | 971.3 | 994.9 | 1018.6 | 1039.2 | 1061.4 | 1086.5 | 1111.6 | 1129.3 |
| 32.5° | 890.1 | 900.5 | 913.7 | 931.5 | 955.1 | 978.7 | 1000.8 | 1024.5 | 1048.1 | 1073.2 | 1090.9 |
| 35° | 851.8 | 862.1 | 875.4 | 893.1 | 916.7 | 940.3 | 962.5 | 984.6 | 1008.2 | 1031.8 | 1049.6 |
| 37.5° | 813.4 | 823.7 | 837.0 | 854.7 | 876.8 | 900.5 | 921.1 | 943.3 | 966.9 | 990.5 | 1006.7 |
| 40° | 773.5 | 783.8 | 794.2 | 811.9 | 834.0 | 857.7 | 878.3 | 900.5 | 924.1 | 947.7 | 963.9 |
| 42.5° | 733.7 | 744.0 | 757.3 | 775.0 | 795.7 | 816.3 | 837.0 | 857.7 | 879.8 | 901.9 | 918.2 |
| 45° | 693.8 | 702.7 | 715.9 | 732.2 | 752.8 | 772.0 | 792.7 | 811.9 | 834.0 | 854.7 | 870.9 |
| 47.5° | 652.5 | 661.3 | 671.7 | 687.9 | 708.6 | 729.2 | 749.9 | 769.1 | 788.3 | 808.9 | 823.7 |
| 50° | 612.6 | 621.5 | 633.3 | 648.0 | 667.2 | 686.4 | 704.1 | 721.8 | 741.0 | 760.2 | 773.5 |
| 52.5° | 571.3 | 580.1 | 590.5 | 605.2 | 621.5 | 639.2 | 655.4 | 673.1 | 690.8 | 708.6 | 721.8 |
| 55° | 529.9 | 535.8 | 544.7 | 558.0 | 575.7 | 593.4 | 609.7 | 625.9 | 642.1 | 656.9 | 670.2 |
| 57.5° | 488.6 | 496.0 | 506.3 | 518.1 | 532.9 | 547.7 | 562.4 | 577.2 | 591.9 | 606.7 | 618.5 |
| 60° | 447.3 | 453.2 | 460.6 | 470.9 | 485.7 | 498.9 | 513.7 | 527.0 | 540.3 | 553.6 | 563.9 |
| 62.5° | 404.5 | 410.4 | 417.8 | 428.1 | 439.9 | 451.7 | 465.0 | 476.8 | 488.6 | 500.4 | 510.8 |
| 65° | 360.2 | 366.1 | 373.5 | 382.3 | 392.7 | 403.0 | 414.8 | 426.6 | 435.5 | 444.3 | 454.7 |
| 67.5° | 314.4 | 320.3 | 327.7 | 335.1 | 343.9 | 354.3 | 364.6 | 374.9 | 383.8 | 392.7 | 400.0 |
| 70° | 270.1 | 274.6 | 281.9 | 287.9 | 295.2 | 302.6 | 311.5 | 320.3 | 326.2 | 333.6 | 342.5 |
| 72.5° | 227.3 | 231.8 | 237.7 | 243.6 | 248.0 | 253.9 | 262.8 | 270.1 | 277.5 | 286.4 | 290.8 |
| 75° | 186.0 | 188.9 | 193.4 | 197.8 | 202.2 | 206.7 | 212.6 | 218.5 | 224.4 | 228.8 | 234.7 |
| 77.5° | 144.7 | 147.6 | 152.0 | 155.0 | 158.0 | 160.9 | 165.3 | 169.8 | 174.2 | 177.1 | 183.0 |
| 80° | 106.3 | 109.2 | 112.2 | 115.1 | 118.1 | 121.0 | 122.5 | 124.0 | 129.9 | 134.3 | 137.3 |
| 82.5° | 72.3 | 73.8 | 75.3 | 78.2 | 79.7 | 81.2 | 82.7 | 82.7 | 85.6 | 88.6 | 93.0 |
| 85° | 41.3 | 42.8 | 44.3 | 44.3 | 44.3 | 44.3 | 45.8 | 47.2 | 48.7 | 51.7 | 54.6 |
| 87.5° | 16.2 | 16.2 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 19.2 | 22.1 | 23.6 |
| 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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CATALOG NUMBER: 4APN-35L840-X-UNV

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1312.3 | 1313.8 | 1316.7 | 1318.2 | 1319.7 | 1319.7 | 1321.2 | 1322.6 | 1319.7 | 1316.7 | 1315.3 |
| 5° | 1319.7 | 1321.2 | 1325.6 | 1330.0 | 1333.0 | 1335.9 | 1334.5 | 1333.0 | 1330.0 | 1325.6 | 1322.6 |
| 7.5° | 1321.2 | 1325.6 | 1330.0 | 1335.9 | 1340.4 | 1346.3 | 1343.3 | 1340.4 | 1334.5 | 1328.6 | 1324.1 |
| 10° | 1316.7 | 1322.6 | 1330.0 | 1337.4 | 1341.8 | 1346.3 | 1343.3 | 1340.4 | 1334.5 | 1327.1 | 1321.2 |
| 12.5° | 1310.8 | 1318.2 | 1327.1 | 1334.5 | 1338.9 | 1344.8 | 1340.4 | 1335.9 | 1328.6 | 1321.2 | 1313.8 |
| 15° | 1297.6 | 1306.4 | 1316.7 | 1325.6 | 1333.0 | 1338.9 | 1334.5 | 1331.5 | 1322.6 | 1312.3 | 1302.0 |
| 17.5° | 1281.3 | 1293.1 | 1303.5 | 1313.8 | 1319.7 | 1325.6 | 1322.6 | 1319.7 | 1309.4 | 1297.6 | 1285.7 |
| 20° | 1262.1 | 1273.9 | 1284.3 | 1294.6 | 1302.0 | 1307.9 | 1303.5 | 1299.0 | 1288.7 | 1278.4 | 1266.6 |
| 22.5° | 1238.5 | 1250.3 | 1262.1 | 1272.5 | 1279.8 | 1285.7 | 1279.8 | 1272.5 | 1262.1 | 1251.8 | 1240.0 |
| 25° | 1209.0 | 1222.3 | 1235.6 | 1245.9 | 1250.3 | 1256.2 | 1250.3 | 1244.4 | 1234.1 | 1223.7 | 1210.5 |
| 27.5° | 1179.5 | 1192.7 | 1206.0 | 1216.4 | 1220.8 | 1226.7 | 1220.8 | 1214.9 | 1204.6 | 1194.2 | 1180.9 |
| 30° | 1145.5 | 1158.8 | 1172.1 | 1182.4 | 1186.8 | 1191.3 | 1185.4 | 1179.5 | 1170.6 | 1160.3 | 1147.0 |
| 32.5° | 1107.1 | 1120.4 | 1130.7 | 1141.1 | 1147.0 | 1152.9 | 1147.0 | 1142.6 | 1132.2 | 1118.9 | 1105.7 |
| 35° | 1065.8 | 1079.1 | 1092.4 | 1102.7 | 1108.6 | 1114.5 | 1107.1 | 1099.7 | 1090.9 | 1080.6 | 1068.7 |
| 37.5° | 1020.0 | 1034.8 | 1049.6 | 1061.4 | 1065.8 | 1071.7 | 1065.8 | 1058.4 | 1049.6 | 1039.2 | 1025.9 |
| 40° | 977.2 | 990.5 | 1003.8 | 1015.6 | 1020.0 | 1024.5 | 1018.6 | 1012.7 | 1002.3 | 992.0 | 978.7 |
| 42.5° | 932.9 | 946.2 | 958.0 | 968.4 | 972.8 | 978.7 | 972.8 | 965.4 | 958.0 | 949.2 | 937.4 |
| 45° | 885.7 | 899.0 | 909.3 | 919.7 | 924.1 | 928.5 | 922.6 | 915.2 | 907.8 | 900.5 | 888.7 |
| 47.5° | 837.0 | 848.8 | 859.1 | 869.5 | 872.4 | 876.8 | 870.9 | 866.5 | 859.1 | 851.8 | 841.4 |
| 50° | 786.8 | 798.6 | 808.9 | 817.8 | 820.8 | 825.2 | 819.3 | 813.4 | 807.5 | 801.6 | 792.7 |
| 52.5° | 735.1 | 745.5 | 755.8 | 764.7 | 767.6 | 770.6 | 764.7 | 758.8 | 752.8 | 746.9 | 738.1 |
| 55° | 682.0 | 692.3 | 702.7 | 710.0 | 713.0 | 715.9 | 710.0 | 705.6 | 699.7 | 695.3 | 686.4 |
| 57.5° | 628.8 | 639.2 | 648.0 | 655.4 | 658.4 | 661.3 | 655.4 | 649.5 | 645.1 | 640.7 | 633.3 |
| 60° | 574.2 | 584.6 | 591.9 | 597.8 | 600.8 | 602.3 | 596.4 | 591.9 | 589.0 | 586.0 | 578.7 |
| 62.5° | 521.1 | 528.5 | 535.8 | 540.3 | 543.2 | 544.7 | 540.3 | 537.3 | 534.4 | 531.4 | 525.5 |
| 65° | 465.0 | 473.9 | 479.8 | 484.2 | 485.7 | 487.1 | 482.7 | 479.8 | 476.8 | 473.9 | 469.4 |
| 67.5° | 408.9 | 416.3 | 420.7 | 425.1 | 426.6 | 426.6 | 426.6 | 425.1 | 422.2 | 417.8 | 413.3 |
| 70° | 352.8 | 358.7 | 363.1 | 366.1 | 367.6 | 367.6 | 364.6 | 361.7 | 361.7 | 360.2 | 357.2 |
| 72.5° | 295.2 | 299.7 | 302.6 | 305.6 | 305.6 | 305.6 | 305.6 | 307.0 | 305.6 | 302.6 | 298.2 |
| 75° | 240.6 | 245.0 | 248.0 | 249.5 | 249.5 | 249.5 | 249.5 | 250.9 | 249.5 | 248.0 | 245.0 |
| 77.5° | 188.9 | 191.9 | 193.4 | 194.9 | 194.9 | 194.9 | 196.3 | 197.8 | 196.3 | 194.9 | 193.4 |
| 80° | 140.2 | 141.7 | 143.2 | 144.7 | 143.2 | 143.2 | 144.7 | 147.6 | 146.1 | 144.7 | 143.2 |
| 82.5° | 96.0 | 97.4 | 98.9 | 98.9 | 100.4 | 101.9 | 101.9 | 101.9 | 101.9 | 100.4 | 98.9 |
| 85° | 57.6 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 60.5 | 62.0 | 62.0 | 60.5 | 60.5 |
| 87.5° | 26.6 | 28.0 | 26.6 | 25.1 | 23.6 | 23.6 | 26.6 | 29.5 | 29.5 | 28.0 | 28.0 |
| 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: P709121
 CATALOG NUMBER: 4APN-35L840-X-UNV

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1316.7 | 1315.3 | 1307.9 | 1300.5 |
| 5° | 1321.2 | 1316.7 | 1306.4 | 1296.1 |
| 7.5° | 1321.2 | 1315.3 | 1300.5 | 1287.2 |
| 10° | 1313.8 | 1304.9 | 1288.7 | 1272.5 |
| 12.5° | 1304.9 | 1294.6 | 1275.4 | 1257.7 |
| 15° | 1291.6 | 1279.8 | 1259.2 | 1238.5 |
| 17.5° | 1272.5 | 1257.7 | 1237.0 | 1214.9 |
| 20° | 1253.3 | 1237.0 | 1211.9 | 1188.3 |
| 22.5° | 1226.7 | 1211.9 | 1185.4 | 1160.3 |
| 25° | 1197.2 | 1180.9 | 1154.4 | 1127.8 |
| 27.5° | 1166.2 | 1147.0 | 1120.4 | 1093.8 |
| 30° | 1130.7 | 1111.6 | 1085.0 | 1058.4 |
| 32.5° | 1092.4 | 1074.7 | 1048.1 | 1020.0 |
| 35° | 1054.0 | 1034.8 | 1008.2 | 980.2 |
| 37.5° | 1011.2 | 993.5 | 966.9 | 940.3 |
| 40° | 965.4 | 947.7 | 921.1 | 894.6 |
| 42.5° | 922.6 | 906.4 | 879.8 | 854.7 |
| 45° | 875.4 | 859.1 | 834.0 | 810.4 |
| 47.5° | 826.7 | 810.4 | 786.8 | 763.2 |
| 50° | 779.4 | 763.2 | 741.0 | 718.9 |
| 52.5° | 726.3 | 713.0 | 692.3 | 671.7 |
| 55° | 674.6 | 661.3 | 640.7 | 621.5 |
| 57.5° | 622.9 | 611.1 | 591.9 | 574.2 |
| 60° | 568.3 | 556.5 | 541.8 | 525.5 |
| 62.5° | 516.7 | 506.3 | 491.6 | 476.8 |
| 65° | 462.0 | 453.2 | 439.9 | 426.6 |
| 67.5° | 405.9 | 398.6 | 386.8 | 374.9 |
| 70° | 349.9 | 341.0 | 332.1 | 321.8 |
| 72.5° | 293.8 | 289.3 | 280.5 | 271.6 |
| 75° | 240.6 | 236.2 | 228.8 | 221.4 |
| 77.5° | 190.4 | 186.0 | 180.1 | 174.2 |
| 80° | 140.2 | 137.3 | 132.9 | 128.4 |
| 82.5° | 97.4 | 94.5 | 91.5 | 87.1 |
| 85° | 59.0 | 56.1 | 53.1 | 50.2 |
| 87.5° | 26.6 | 25.1 | 22.1 | 20.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)