

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: NEO-RAY

Report Number: P332700-830

Luminaire Tested: **SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332700-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

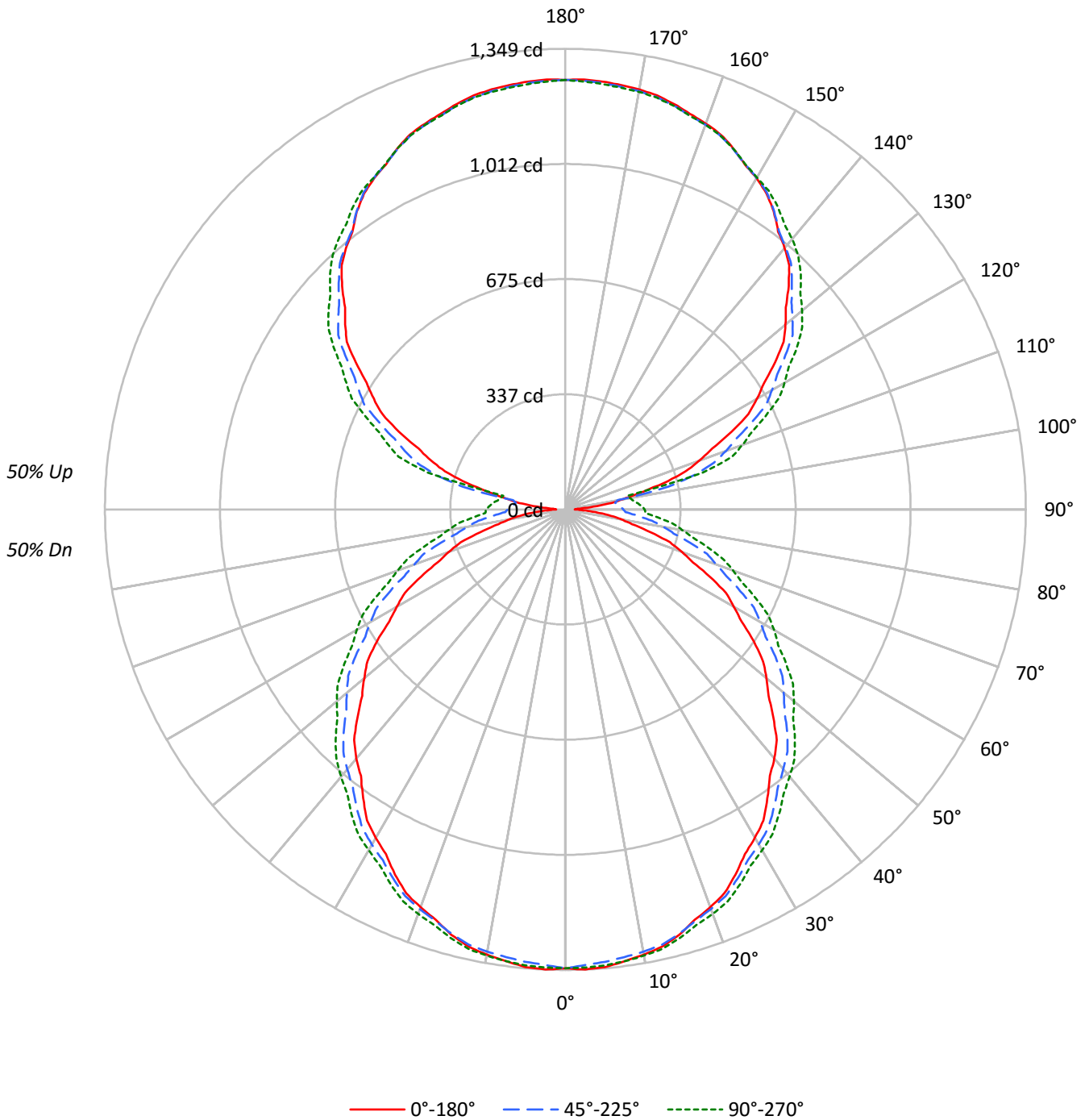
Lumens per Lamp: N/A
Luminaire Lumens: 8476.6 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 66.8
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: P332700-830
CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332700-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 97 | 92 | 88 | 84 | 89 | 85 | 81 | 78 | 72 | 69 | 66 | 59 | 57 | 56 | 48 | 47 | 45 | 40 |
| 2 | 88 | 80 | 73 | 68 | 80 | 74 | 68 | 63 | 62 | 58 | 54 | 51 | 48 | 46 | 42 | 39 | 37 | 33 |
| 3 | 80 | 70 | 62 | 56 | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 37 | 34 | 31 | 27 |
| 4 | 73 | 61 | 53 | 47 | 67 | 57 | 50 | 44 | 48 | 42 | 38 | 40 | 36 | 32 | 32 | 29 | 27 | 23 |
| 5 | 67 | 55 | 46 | 40 | 61 | 51 | 43 | 37 | 43 | 37 | 33 | 36 | 31 | 28 | 29 | 26 | 23 | 20 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 38 | 32 | 39 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 | 17 |
| 7 | 57 | 44 | 36 | 30 | 52 | 41 | 34 | 28 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 20 | 18 | 15 |
| 8 | 53 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 29 | 24 | 45 | 34 | 27 | 22 | 29 | 23 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10 | 46 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 27 | 21 | 18 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10851 | 10851 | 10851 |
| 5° | 10884 | 10604 | 10635 |
| 10° | 10818 | 10431 | 10423 |
| 15° | 10721 | 10231 | 10174 |
| 20° | 10574 | 10009 | 9931 |
| 25° | 10410 | 9760 | 9665 |
| 30° | 10231 | 9513 | 9392 |
| 35° | 10029 | 9259 | 9152 |
| 40° | 9868 | 9019 | 8902 |
| 45° | 9628 | 8797 | 8688 |
| 50° | 9425 | 8541 | 8461 |
| 55° | 9216 | 8300 | 8195 |
| 60° | 8889 | 7992 | 7953 |
| 65° | 8532 | 7663 | 7655 |
| 70° | 8098 | 7286 | 7308 |
| 75° | 7493 | 6872 | 6995 |
| 80° | 6823 | 6474 | 6686 |
| 85° | 5963 | 6123 | 6505 |



TEST NUMBER: P332700-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.3 | 1.5 |
| 10°-20° | 364.7 | 4.3 |
| 20°-30° | 551.4 | 6.5 |
| 30°-40° | 667.1 | 7.9 |
| 40°-50° | 705.3 | 8.3 |
| 50°-60° | 663.8 | 7.8 |
| 60°-70° | 550.7 | 6.5 |
| 70°-80° | 386.8 | 4.6 |
| 80°-90° | 222.3 | 2.6 |
| 90°-100° | 172.9 | 2.0 |
| 100°-110° | 370.5 | 4.4 |
| 110°-120° | 589.3 | 7.0 |
| 120°-130° | 702.6 | 8.3 |
| 130°-140° | 728.5 | 8.6 |
| 140°-150° | 669.7 | 7.9 |
| 150°-160° | 537.5 | 6.3 |
| 160°-170° | 346.7 | 4.1 |
| 170°-180° | 119.5 | 1.4 |
| 0°-30° | 1043.3 | 12.3 |
| 0°-40° | 1710.5 | 20.2 |
| 0°-60° | 3079.5 | 36.3 |
| 0°-90° | 4239.4 | 50.0 |
| 90°-120° | 1132.7 | 13.4 |
| 90°-150° | 3233.5 | 38.1 |
| 90°-180° | 4237.0 | 50.0 |
| 0°-180° | 8476.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1344 | 1344 | 1344 | 1344 | 1344 | |
| 5° | 1346 | 1341 | 1330 | 1342 | 1341 | 128 |
| 15° | 1290 | 1291 | 1287 | 1300 | 1299 | 363 |
| 25° | 1180 | 1189 | 1194 | 1209 | 1212 | 543 |
| 35° | 1032 | 1050 | 1066 | 1086 | 1091 | 646 |
| 45° | 861 | 890 | 918 | 943 | 951 | 665 |
| 55° | 674 | 707 | 751 | 780 | 790 | 601 |
| 65° | 467 | 515 | 566 | 602 | 616 | 462 |
| 75° | 259 | 315 | 378 | 418 | 434 | 275 |
| 85° | 80 | 143 | 211 | 254 | 271 | 85 |
| 90° | 27 | 98 | 170 | 217 | 233 | 18 |
| 95° | 71 | 92 | 152 | 196 | 212 | 82 |
| 105° | 297 | 334 | 393 | 435 | 417 | 312 |
| 115° | 538 | 556 | 601 | 635 | 647 | 530 |
| 125° | 749 | 753 | 787 | 818 | 829 | 669 |
| 135° | 925 | 925 | 938 | 964 | 975 | 713 |
| 145° | 1065 | 1066 | 1066 | 1076 | 1084 | 665 |
| 155° | 1166 | 1166 | 1164 | 1167 | 1165 | 537 |
| 165° | 1230 | 1225 | 1225 | 1232 | 1224 | 347 |
| 175° | 1258 | 1253 | 1253 | 1261 | 1250 | 120 |
| 180° | 1258 | 1258 | 1258 | 1258 | 1258 | |



TEST NUMBER: P332700-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5° | 1348.9 | 1348.0 | 1347.3 | 1346.4 | 1345.7 | 1344.2 | 1342.0 | 1339.9 | 1337.8 | 1335.6 | 1337.5 |
| 5° | 1345.5 | 1344.5 | 1343.5 | 1342.6 | 1341.5 | 1339.8 | 1337.5 | 1335.1 | 1332.8 | 1330.5 | 1333.1 |
| 7.5° | 1334.1 | 1333.5 | 1332.8 | 1332.3 | 1331.7 | 1330.4 | 1328.5 | 1326.5 | 1324.6 | 1322.7 | 1325.7 |
| 10° | 1324.5 | 1324.1 | 1323.8 | 1323.4 | 1323.1 | 1322.1 | 1320.4 | 1318.8 | 1317.1 | 1315.4 | 1318.4 |
| 12.5° | 1311.2 | 1311.2 | 1311.1 | 1311.0 | 1311.0 | 1310.3 | 1309.2 | 1308.1 | 1306.9 | 1305.8 | 1308.5 |
| 15° | 1289.9 | 1290.2 | 1290.5 | 1290.8 | 1291.2 | 1290.8 | 1289.9 | 1288.8 | 1287.8 | 1286.9 | 1289.9 |
| 17.5° | 1260.7 | 1261.7 | 1262.6 | 1263.7 | 1264.6 | 1265.1 | 1264.9 | 1264.6 | 1264.4 | 1264.2 | 1267.3 |
| 20° | 1240.2 | 1241.1 | 1242.2 | 1243.2 | 1244.2 | 1244.8 | 1245.2 | 1245.6 | 1245.9 | 1246.2 | 1249.5 |
| 22.5° | 1217.3 | 1218.5 | 1219.8 | 1221.1 | 1222.4 | 1223.3 | 1223.9 | 1224.6 | 1225.1 | 1225.7 | 1229.1 |
| 25° | 1180.0 | 1181.9 | 1184.0 | 1186.0 | 1188.0 | 1189.5 | 1190.5 | 1191.5 | 1192.5 | 1193.5 | 1197.2 |
| 27.5° | 1138.4 | 1141.4 | 1144.3 | 1147.3 | 1150.2 | 1152.4 | 1154.0 | 1155.6 | 1157.1 | 1158.6 | 1162.0 |
| 30° | 1110.7 | 1113.4 | 1116.1 | 1118.8 | 1121.4 | 1124.0 | 1126.2 | 1128.6 | 1131.0 | 1133.3 | 1137.0 |
| 32.5° | 1080.6 | 1083.8 | 1087.0 | 1090.2 | 1093.4 | 1096.4 | 1099.0 | 1101.6 | 1104.2 | 1106.8 | 1111.1 |
| 35° | 1032.5 | 1036.5 | 1040.5 | 1044.5 | 1048.5 | 1052.2 | 1055.6 | 1058.9 | 1062.2 | 1065.5 | 1070.3 |
| 37.5° | 984.0 | 988.6 | 993.3 | 997.9 | 1002.5 | 1006.8 | 1011.0 | 1015.1 | 1019.3 | 1023.4 | 1028.2 |
| 40° | 952.7 | 957.1 | 961.4 | 965.7 | 970.1 | 974.6 | 979.3 | 984.0 | 988.6 | 993.3 | 998.3 |
| 42.5° | 916.6 | 921.4 | 926.3 | 931.2 | 936.1 | 941.3 | 946.8 | 952.3 | 957.7 | 963.3 | 968.8 |
| 45° | 860.9 | 867.2 | 873.6 | 880.0 | 886.3 | 892.7 | 899.0 | 905.4 | 911.7 | 918.1 | 923.8 |
| 47.5° | 807.6 | 814.2 | 820.8 | 827.3 | 833.9 | 840.8 | 848.2 | 855.5 | 862.9 | 870.2 | 876.1 |
| 50° | 769.1 | 776.5 | 783.8 | 791.2 | 798.5 | 805.9 | 813.2 | 820.6 | 827.9 | 835.3 | 842.0 |
| 52.5° | 730.6 | 737.9 | 745.3 | 752.6 | 760.0 | 767.9 | 776.3 | 784.8 | 793.1 | 801.6 | 808.3 |
| 55° | 674.3 | 681.3 | 688.3 | 695.3 | 702.4 | 710.9 | 721.0 | 730.9 | 741.0 | 751.0 | 757.7 |
| 57.5° | 611.3 | 620.1 | 628.8 | 637.4 | 646.1 | 655.4 | 665.4 | 675.4 | 685.4 | 695.3 | 703.3 |
| 60° | 570.4 | 579.1 | 587.8 | 596.5 | 605.2 | 615.1 | 626.1 | 637.2 | 648.2 | 659.2 | 666.9 |
| 62.5° | 530.7 | 540.2 | 549.7 | 559.2 | 568.6 | 578.9 | 590.0 | 601.1 | 612.1 | 623.1 | 630.7 |
| 65° | 466.6 | 477.3 | 488.0 | 498.7 | 509.3 | 520.4 | 531.8 | 543.2 | 554.5 | 565.9 | 574.3 |
| 67.5° | 404.8 | 416.2 | 427.6 | 438.9 | 450.3 | 462.1 | 474.3 | 486.4 | 498.6 | 510.9 | 519.3 |
| 70° | 362.7 | 374.1 | 385.5 | 396.8 | 408.2 | 420.3 | 432.9 | 445.6 | 458.4 | 471.1 | 480.1 |
| 72.5° | 321.8 | 333.4 | 345.1 | 356.7 | 368.3 | 380.9 | 394.5 | 407.9 | 421.4 | 435.0 | 443.7 |
| 75° | 258.9 | 271.3 | 283.6 | 296.0 | 308.4 | 321.6 | 335.6 | 349.7 | 363.7 | 377.8 | 387.1 |
| 77.5° | 200.2 | 213.3 | 226.4 | 239.5 | 252.6 | 266.6 | 281.3 | 296.0 | 310.7 | 325.4 | 334.9 |
| 80° | 164.1 | 177.4 | 190.8 | 204.2 | 217.5 | 231.6 | 246.3 | 261.1 | 275.8 | 290.5 | 300.5 |
| 82.5° | 127.9 | 141.9 | 155.8 | 169.7 | 183.6 | 197.9 | 212.6 | 227.3 | 242.0 | 256.7 | 267.0 |
| 85° | 79.7 | 93.8 | 107.8 | 121.9 | 135.9 | 150.5 | 165.5 | 180.6 | 195.7 | 210.8 | 220.7 |
| 87.5° | 45.1 | 59.2 | 73.3 | 87.5 | 101.5 | 116.1 | 131.1 | 146.1 | 161.1 | 176.0 | 186.0 |
| 90° | 26.9 | 42.6 | 58.2 | 73.9 | 89.6 | 105.5 | 121.5 | 137.6 | 153.6 | 169.7 | 180.7 |
| 92.5° | 34.7 | 46.9 | 59.1 | 71.3 | 83.4 | 97.6 | 113.6 | 129.6 | 145.6 | 161.7 | 172.4 |
| 95° | 71.4 | 75.2 | 79.2 | 83.1 | 87.0 | 96.0 | 109.9 | 123.8 | 137.7 | 151.7 | 161.9 |
| 97.5° | 127.6 | 141.6 | 155.5 | 169.5 | 183.4 | 185.5 | 175.7 | 166.0 | 156.2 | 146.5 | 155.3 |
| 100° | 170.9 | 183.3 | 195.8 | 208.2 | 220.7 | 219.0 | 203.2 | 187.4 | 171.6 | 155.8 | 161.3 |
| 102.5° | 220.6 | 230.9 | 241.3 | 251.7 | 262.1 | 271.8 | 280.8 | 289.8 | 298.8 | 307.8 | 278.2 |
| 105° | 296.8 | 304.7 | 312.6 | 320.6 | 328.6 | 339.2 | 352.6 | 366.1 | 379.5 | 392.9 | 403.1 |
| 107.5° | 370.0 | 376.2 | 382.3 | 388.4 | 394.5 | 404.1 | 417.3 | 430.4 | 443.5 | 456.7 | 465.8 |
| 110° | 418.5 | 423.9 | 429.1 | 434.4 | 439.8 | 448.9 | 461.8 | 474.9 | 487.8 | 500.8 | 508.9 |



TEST NUMBER: P332700-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 465.5 | 470.8 | 476.1 | 481.4 | 486.6 | 495.1 | 506.9 | 518.6 | 530.4 | 542.2 | 549.5 |
| 115° | 537.8 | 541.5 | 545.1 | 548.7 | 552.3 | 559.4 | 570.0 | 580.4 | 590.9 | 601.4 | 609.2 |
| 117.5° | 604.4 | 607.0 | 609.6 | 612.3 | 614.9 | 621.4 | 631.9 | 642.2 | 652.7 | 663.2 | 670.1 |
| 120° | 648.3 | 650.2 | 652.0 | 653.8 | 655.6 | 661.3 | 670.8 | 680.3 | 689.8 | 699.3 | 706.3 |
| 122.5° | 690.4 | 691.2 | 691.8 | 692.6 | 693.2 | 698.3 | 707.8 | 717.3 | 726.7 | 736.1 | 743.1 |
| 125° | 749.3 | 749.9 | 750.4 | 750.8 | 751.4 | 755.5 | 763.6 | 771.5 | 779.4 | 787.3 | 794.3 |
| 127.5° | 806.3 | 806.2 | 806.0 | 805.9 | 805.8 | 809.4 | 816.7 | 824.2 | 831.5 | 838.9 | 844.8 |
| 130° | 842.0 | 841.8 | 841.7 | 841.6 | 841.4 | 844.3 | 850.4 | 856.3 | 862.3 | 868.3 | 874.5 |
| 132.5° | 875.8 | 875.8 | 875.9 | 875.9 | 876.0 | 878.5 | 883.6 | 888.7 | 893.7 | 898.8 | 904.7 |
| 135° | 925.1 | 924.9 | 924.7 | 924.4 | 924.3 | 925.8 | 929.0 | 932.1 | 935.3 | 938.5 | 944.2 |
| 137.5° | 970.1 | 969.8 | 969.6 | 969.3 | 969.1 | 970.0 | 972.0 | 974.1 | 976.2 | 978.2 | 983.5 |
| 140° | 999.5 | 999.6 | 999.6 | 999.7 | 999.8 | 1000.2 | 1001.0 | 1001.7 | 1002.5 | 1003.2 | 1008.1 |
| 142.5° | 1024.5 | 1025.3 | 1026.0 | 1026.6 | 1027.3 | 1027.7 | 1027.7 | 1027.7 | 1027.8 | 1027.8 | 1032.2 |
| 145° | 1064.7 | 1065.1 | 1065.4 | 1065.6 | 1065.9 | 1066.0 | 1066.0 | 1066.0 | 1066.0 | 1066.0 | 1068.3 |
| 147.5° | 1096.9 | 1097.8 | 1098.6 | 1099.4 | 1100.2 | 1100.6 | 1100.3 | 1100.1 | 1099.9 | 1099.8 | 1100.1 |
| 150° | 1120.2 | 1120.8 | 1121.2 | 1121.7 | 1122.3 | 1122.4 | 1122.2 | 1122.0 | 1121.8 | 1121.5 | 1121.5 |
| 152.5° | 1138.6 | 1139.3 | 1139.8 | 1140.4 | 1141.0 | 1141.1 | 1140.8 | 1140.4 | 1140.0 | 1139.6 | 1140.0 |
| 155° | 1165.8 | 1166.0 | 1166.2 | 1166.4 | 1166.6 | 1166.4 | 1165.8 | 1165.2 | 1164.5 | 1163.9 | 1164.7 |
| 157.5° | 1188.9 | 1188.8 | 1188.6 | 1188.5 | 1188.5 | 1188.0 | 1187.3 | 1186.6 | 1185.9 | 1185.2 | 1186.3 |
| 160° | 1202.5 | 1201.8 | 1201.3 | 1200.6 | 1200.0 | 1199.6 | 1199.4 | 1199.1 | 1198.9 | 1198.7 | 1200.0 |
| 162.5° | 1214.6 | 1213.7 | 1213.0 | 1212.1 | 1211.4 | 1210.9 | 1210.6 | 1210.4 | 1210.2 | 1210.0 | 1211.3 |
| 165° | 1229.7 | 1228.7 | 1227.7 | 1226.6 | 1225.6 | 1225.0 | 1225.0 | 1225.0 | 1225.0 | 1225.0 | 1226.7 |
| 167.5° | 1241.8 | 1240.8 | 1239.6 | 1238.6 | 1237.5 | 1236.9 | 1236.7 | 1236.6 | 1236.5 | 1236.3 | 1238.2 |
| 170° | 1248.6 | 1247.4 | 1246.0 | 1244.8 | 1243.6 | 1243.0 | 1243.2 | 1243.5 | 1243.7 | 1243.9 | 1245.6 |
| 172.5° | 1253.1 | 1251.9 | 1250.6 | 1249.3 | 1248.1 | 1247.5 | 1247.7 | 1248.0 | 1248.2 | 1248.4 | 1250.1 |
| 175° | 1258.0 | 1256.8 | 1255.5 | 1254.2 | 1253.0 | 1252.5 | 1252.6 | 1252.9 | 1253.1 | 1253.3 | 1255.2 |
| 177.5° | 1260.3 | 1259.0 | 1257.9 | 1256.8 | 1255.6 | 1255.2 | 1255.5 | 1255.8 | 1256.1 | 1256.5 | 1257.8 |
| 180° | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 |



TEST NUMBER: P332700-830
 CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5° | 1339.4 | 1341.2 | 1343.1 | 1343.9 | 1343.6 | 1343.3 | 1343.1 | 1342.8 |
| 5° | 1335.9 | 1338.5 | 1341.1 | 1342.4 | 1342.0 | 1341.7 | 1341.3 | 1341.0 |
| 7.5° | 1328.7 | 1331.7 | 1334.7 | 1336.1 | 1335.7 | 1335.4 | 1335.0 | 1334.7 |
| 10° | 1321.4 | 1324.5 | 1327.5 | 1328.8 | 1328.5 | 1328.1 | 1327.8 | 1327.5 |
| 12.5° | 1311.3 | 1314.0 | 1316.7 | 1318.1 | 1318.1 | 1318.0 | 1317.9 | 1317.9 |
| 15° | 1292.9 | 1295.9 | 1298.8 | 1300.2 | 1299.9 | 1299.6 | 1299.2 | 1298.8 |
| 17.5° | 1270.5 | 1273.5 | 1276.6 | 1278.0 | 1277.7 | 1277.4 | 1277.1 | 1276.9 |
| 20° | 1252.9 | 1256.2 | 1259.6 | 1261.2 | 1261.2 | 1261.2 | 1261.2 | 1261.2 |
| 22.5° | 1232.4 | 1235.8 | 1239.1 | 1241.0 | 1241.6 | 1242.1 | 1242.6 | 1243.2 |
| 25° | 1200.9 | 1204.6 | 1208.2 | 1210.2 | 1210.6 | 1210.9 | 1211.3 | 1211.5 |
| 27.5° | 1165.5 | 1168.8 | 1172.2 | 1174.1 | 1174.6 | 1175.0 | 1175.4 | 1175.7 |
| 30° | 1140.7 | 1144.3 | 1148.0 | 1150.2 | 1150.8 | 1151.5 | 1152.2 | 1152.9 |
| 32.5° | 1115.2 | 1119.5 | 1123.7 | 1126.1 | 1126.8 | 1127.5 | 1128.1 | 1128.8 |
| 35° | 1075.0 | 1079.6 | 1084.3 | 1087.1 | 1088.2 | 1089.2 | 1090.1 | 1091.2 |
| 37.5° | 1032.9 | 1037.6 | 1042.5 | 1045.4 | 1046.4 | 1047.4 | 1048.6 | 1049.6 |
| 40° | 1003.3 | 1008.4 | 1013.4 | 1016.6 | 1017.9 | 1019.3 | 1020.6 | 1021.9 |
| 42.5° | 974.3 | 979.9 | 985.4 | 988.7 | 989.9 | 990.9 | 991.9 | 993.1 |
| 45° | 929.4 | 935.2 | 940.8 | 944.5 | 946.2 | 947.8 | 949.5 | 951.2 |
| 47.5° | 882.0 | 887.9 | 893.8 | 897.7 | 899.8 | 901.7 | 903.7 | 905.8 |
| 50° | 848.7 | 855.4 | 862.0 | 866.4 | 868.5 | 870.4 | 872.4 | 874.4 |
| 52.5° | 815.0 | 821.7 | 828.3 | 832.7 | 834.7 | 836.7 | 838.7 | 840.7 |
| 55° | 764.4 | 771.1 | 777.8 | 782.1 | 784.1 | 786.2 | 788.2 | 790.1 |
| 57.5° | 711.2 | 719.3 | 727.2 | 732.1 | 734.0 | 735.8 | 737.7 | 739.6 |
| 60° | 674.6 | 682.3 | 689.9 | 695.1 | 697.9 | 700.5 | 703.2 | 705.9 |
| 62.5° | 638.5 | 646.2 | 653.8 | 659.0 | 661.8 | 664.4 | 667.0 | 669.8 |
| 65° | 582.6 | 591.0 | 599.4 | 604.8 | 607.6 | 610.2 | 612.9 | 615.6 |
| 67.5° | 527.8 | 536.3 | 544.8 | 550.4 | 553.0 | 555.5 | 558.2 | 560.8 |
| 70° | 489.2 | 498.1 | 507.2 | 512.9 | 515.2 | 517.6 | 519.9 | 522.3 |
| 72.5° | 452.5 | 461.3 | 470.0 | 475.7 | 478.3 | 480.9 | 483.5 | 486.2 |
| 75° | 396.5 | 405.9 | 415.2 | 421.4 | 424.4 | 427.4 | 430.5 | 433.5 |
| 77.5° | 344.4 | 353.9 | 363.4 | 369.8 | 373.0 | 376.2 | 379.4 | 382.6 |
| 80° | 310.6 | 320.6 | 330.6 | 337.0 | 339.6 | 342.3 | 345.0 | 347.7 |
| 82.5° | 277.4 | 287.7 | 297.9 | 304.6 | 307.6 | 310.5 | 313.4 | 316.3 |
| 85° | 230.7 | 240.8 | 250.8 | 257.5 | 260.9 | 264.2 | 267.6 | 270.9 |
| 87.5° | 196.0 | 205.9 | 215.8 | 222.3 | 225.4 | 228.4 | 231.4 | 234.4 |
| 90° | 191.6 | 202.6 | 213.5 | 220.6 | 223.7 | 226.7 | 229.8 | 232.9 |
| 92.5° | 183.1 | 193.8 | 204.4 | 211.2 | 214.0 | 216.7 | 219.4 | 222.3 |
| 95° | 172.2 | 182.5 | 192.7 | 199.5 | 202.7 | 205.9 | 209.2 | 212.4 |
| 97.5° | 164.2 | 173.1 | 182.0 | 187.9 | 191.1 | 194.2 | 197.3 | 200.3 |
| 100° | 166.7 | 172.2 | 177.7 | 181.7 | 184.3 | 186.8 | 189.4 | 191.9 |
| 102.5° | 248.6 | 219.0 | 189.5 | 176.1 | 178.7 | 181.3 | 184.0 | 186.6 |
| 105° | 413.4 | 423.7 | 433.9 | 436.6 | 431.7 | 426.9 | 422.0 | 417.2 |
| 107.5° | 474.9 | 484.1 | 493.2 | 499.4 | 502.6 | 505.8 | 509.0 | 512.2 |
| 110° | 517.0 | 525.1 | 533.2 | 538.9 | 542.2 | 545.4 | 548.7 | 552.0 |



TEST NUMBER: P332700-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 556.9 | 564.1 | 571.5 | 576.9 | 580.4 | 583.8 | 587.3 | 590.8 |
| 115° | 617.0 | 624.7 | 632.5 | 637.5 | 639.9 | 642.2 | 644.6 | 647.0 |
| 117.5° | 676.8 | 683.7 | 690.6 | 695.4 | 698.0 | 700.6 | 703.1 | 705.8 |
| 120° | 713.5 | 720.6 | 727.7 | 732.4 | 734.6 | 736.9 | 739.1 | 741.4 |
| 122.5° | 750.1 | 757.0 | 763.9 | 768.4 | 770.3 | 772.3 | 774.4 | 776.4 |
| 125° | 801.3 | 808.3 | 815.3 | 819.9 | 822.1 | 824.3 | 826.5 | 828.8 |
| 127.5° | 850.7 | 856.6 | 862.5 | 866.5 | 868.6 | 870.7 | 872.8 | 875.0 |
| 130° | 880.7 | 886.9 | 893.2 | 897.3 | 899.3 | 901.4 | 903.3 | 905.3 |
| 132.5° | 910.8 | 916.7 | 922.7 | 926.6 | 928.4 | 930.3 | 932.1 | 934.0 |
| 135° | 950.0 | 955.7 | 961.6 | 965.6 | 968.1 | 970.4 | 972.9 | 975.3 |
| 137.5° | 988.9 | 994.2 | 999.6 | 1003.1 | 1004.6 | 1006.2 | 1007.7 | 1009.2 |
| 140° | 1013.1 | 1018.1 | 1023.1 | 1026.5 | 1028.4 | 1030.3 | 1032.2 | 1034.1 |
| 142.5° | 1036.4 | 1040.7 | 1045.0 | 1047.8 | 1049.3 | 1050.7 | 1052.2 | 1053.7 |
| 145° | 1070.4 | 1072.7 | 1074.9 | 1076.9 | 1078.6 | 1080.4 | 1082.1 | 1083.9 |
| 147.5° | 1100.6 | 1101.1 | 1101.5 | 1102.3 | 1103.6 | 1104.8 | 1106.2 | 1107.5 |
| 150° | 1121.5 | 1121.5 | 1121.5 | 1121.6 | 1121.9 | 1122.1 | 1122.3 | 1122.5 |
| 152.5° | 1140.3 | 1140.7 | 1140.9 | 1141.0 | 1140.9 | 1140.9 | 1140.7 | 1140.6 |
| 155° | 1165.5 | 1166.4 | 1167.2 | 1167.3 | 1166.8 | 1166.1 | 1165.5 | 1164.9 |
| 157.5° | 1187.3 | 1188.5 | 1189.5 | 1189.5 | 1188.5 | 1187.3 | 1186.3 | 1185.2 |
| 160° | 1201.3 | 1202.5 | 1203.7 | 1203.7 | 1202.5 | 1201.3 | 1200.0 | 1198.7 |
| 162.5° | 1212.5 | 1213.8 | 1215.0 | 1214.9 | 1213.5 | 1212.1 | 1210.7 | 1209.3 |
| 165° | 1228.4 | 1230.1 | 1231.7 | 1231.6 | 1229.7 | 1227.9 | 1226.0 | 1224.1 |
| 167.5° | 1240.0 | 1241.9 | 1243.7 | 1243.6 | 1241.5 | 1239.4 | 1237.3 | 1235.2 |
| 170° | 1247.3 | 1248.9 | 1250.6 | 1250.4 | 1248.3 | 1246.2 | 1244.1 | 1242.0 |
| 172.5° | 1251.8 | 1253.4 | 1255.1 | 1254.8 | 1252.5 | 1250.3 | 1248.0 | 1245.8 |
| 175° | 1257.1 | 1259.0 | 1260.8 | 1260.5 | 1258.0 | 1255.5 | 1253.0 | 1250.5 |
| 177.5° | 1259.1 | 1260.5 | 1261.9 | 1261.5 | 1259.5 | 1257.5 | 1255.5 | 1253.5 |
| 180° | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 |

(END OF REPORT)