

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: P332683-830

Luminaire Tested: **SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332683-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6512.1 lumens
Efficiency: N/A
Efficacy: 118.2 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: Semi-Direct

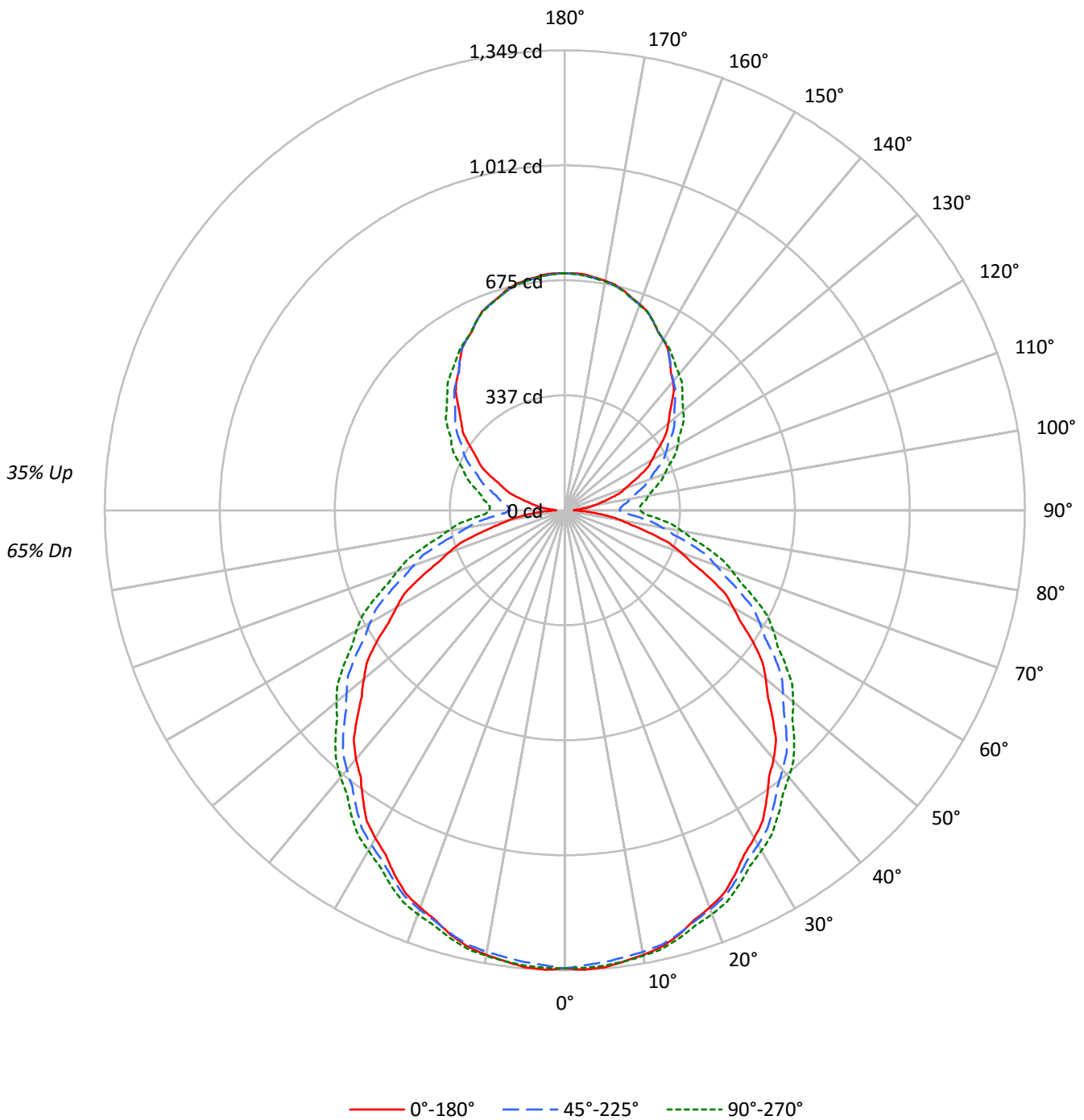
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 100 | 95 | 90 | 86 | 94 | 89 | 85 | 82 | 79 | 76 | 73 | 69 | 66 | 64 | 60 | 58 | 57 | 52 |
| 2 | 90 | 82 | 75 | 69 | 84 | 77 | 71 | 66 | 68 | 63 | 59 | 60 | 56 | 53 | 52 | 49 | 47 | 43 |
| 3 | 82 | 72 | 64 | 57 | 77 | 68 | 60 | 54 | 60 | 54 | 49 | 52 | 48 | 44 | 45 | 42 | 39 | 35 |
| 4 | 75 | 63 | 55 | 48 | 70 | 60 | 52 | 46 | 53 | 46 | 42 | 46 | 41 | 37 | 40 | 36 | 33 | 30 |
| 5 | 69 | 56 | 47 | 41 | 64 | 53 | 45 | 39 | 47 | 41 | 36 | 41 | 36 | 32 | 36 | 32 | 29 | 26 |
| 6 | 63 | 50 | 42 | 35 | 59 | 48 | 40 | 34 | 42 | 36 | 31 | 37 | 32 | 28 | 33 | 28 | 25 | 22 |
| 7 | 59 | 45 | 37 | 31 | 55 | 43 | 35 | 30 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 26 | 22 | 20 |
| 8 | 54 | 41 | 33 | 27 | 51 | 39 | 32 | 26 | 35 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 9 | 51 | 38 | 30 | 24 | 47 | 36 | 28 | 23 | 32 | 26 | 22 | 29 | 23 | 20 | 25 | 21 | 18 | 16 |
| 10 | 47 | 35 | 27 | 22 | 44 | 33 | 26 | 21 | 30 | 24 | 19 | 26 | 21 | 18 | 23 | 19 | 16 | 14 |

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: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.3 | 2.0 |
| 10°-20° | 364.7 | 5.6 |
| 20°-30° | 551.4 | 8.5 |
| 30°-40° | 667.1 | 10.2 |
| 40°-50° | 705.3 | 10.8 |
| 50°-60° | 663.8 | 10.2 |
| 60°-70° | 550.7 | 8.5 |
| 70°-80° | 386.8 | 5.9 |
| 80°-90° | 220.8 | 3.4 |
| 90°-100° | 175.7 | 2.7 |
| 100°-110° | 231.9 | 3.6 |
| 110°-120° | 295.0 | 4.5 |
| 120°-130° | 340.3 | 5.2 |
| 130°-140° | 357.1 | 5.5 |
| 140°-150° | 338.6 | 5.2 |
| 150°-160° | 282.1 | 4.3 |
| 160°-170° | 187.7 | 2.9 |
| 170°-180° | 65.7 | 1.0 |
| 0°-30° | 1043.3 | 16.0 |
| 0°-40° | 1710.5 | 26.3 |
| 0°-60° | 3079.5 | 47.3 |
| 0°-90° | 4237.9 | 65.1 |
| 90°-120° | 702.7 | 10.8 |
| 90°-150° | 1738.7 | 26.7 |
| 90°-180° | 2274.0 | 34.9 |
| 0°-180° | 6512.1 | 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° | 26 | 92 | 161 | 206 | 221 | 18 |
| 95° | 52 | 107 | 172 | 212 | 228 | 51 |
| 105° | 139 | 171 | 227 | 265 | 280 | 148 |
| 115° | 244 | 259 | 304 | 335 | 347 | 241 |
| 125° | 347 | 348 | 383 | 409 | 418 | 310 |
| 135° | 443 | 447 | 457 | 479 | 488 | 343 |
| 145° | 536 | 537 | 538 | 546 | 550 | 336 |
| 155° | 613 | 613 | 612 | 614 | 612 | 282 |
| 165° | 667 | 666 | 664 | 667 | 666 | 188 |
| 175° | 694 | 691 | 691 | 694 | 691 | 66 |
| 180° | 695 | 695 | 695 | 695 | 695 | |



TEST NUMBER: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

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° | 44.9 | 58.8 | 72.7 | 86.6 | 100.5 | 114.9 | 129.7 | 144.6 | 159.4 | 174.3 | 184.1 |
| 90° | 25.7 | 40.3 | 55.0 | 69.7 | 84.5 | 99.4 | 114.8 | 130.2 | 145.5 | 160.8 | 171.3 |
| 92.5° | 34.4 | 47.9 | 61.5 | 75.0 | 88.6 | 102.8 | 117.9 | 133.0 | 148.0 | 163.1 | 173.0 |
| 95° | 51.8 | 63.9 | 76.1 | 88.1 | 100.3 | 113.6 | 128.2 | 142.7 | 157.2 | 171.8 | 181.2 |
| 97.5° | 74.1 | 84.5 | 94.8 | 105.2 | 115.6 | 128.0 | 142.5 | 157.1 | 171.6 | 186.2 | 195.4 |
| 100° | 91.8 | 100.9 | 110.2 | 119.3 | 128.5 | 140.2 | 154.3 | 168.4 | 182.5 | 196.6 | 205.9 |
| 102.5° | 111.6 | 119.4 | 127.2 | 135.1 | 142.9 | 153.6 | 167.4 | 181.2 | 194.9 | 208.7 | 217.7 |
| 105° | 138.8 | 145.6 | 152.4 | 159.2 | 166.1 | 175.9 | 188.7 | 201.6 | 214.4 | 227.2 | 236.0 |
| 107.5° | 170.2 | 175.9 | 181.4 | 187.1 | 192.7 | 201.4 | 213.2 | 225.0 | 236.8 | 248.5 | 257.1 |
| 110° | 190.5 | 195.5 | 200.4 | 205.3 | 210.2 | 218.5 | 230.1 | 241.7 | 253.3 | 264.8 | 272.3 |



TEST NUMBER: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 211.7 | 215.8 | 220.1 | 224.2 | 228.5 | 236.0 | 246.9 | 258.0 | 268.9 | 279.8 | 287.2 |
| 115° | 243.5 | 246.4 | 249.4 | 252.4 | 255.4 | 262.2 | 272.7 | 283.1 | 293.6 | 304.1 | 311.3 |
| 117.5° | 274.8 | 276.6 | 278.5 | 280.4 | 282.3 | 288.1 | 297.9 | 307.7 | 317.5 | 327.3 | 333.9 |
| 120° | 294.6 | 296.1 | 297.6 | 299.1 | 300.5 | 305.9 | 315.3 | 324.6 | 333.9 | 343.3 | 349.4 |
| 122.5° | 316.5 | 316.9 | 317.4 | 317.7 | 318.1 | 322.8 | 331.8 | 340.8 | 349.8 | 358.7 | 365.0 |
| 125° | 347.4 | 347.0 | 346.7 | 346.4 | 346.0 | 350.0 | 358.3 | 366.5 | 374.8 | 383.0 | 389.1 |
| 127.5° | 376.5 | 376.5 | 376.5 | 376.5 | 376.5 | 379.7 | 385.9 | 392.1 | 398.3 | 404.5 | 410.4 |
| 130° | 395.9 | 395.9 | 396.0 | 396.0 | 396.0 | 398.7 | 404.0 | 409.3 | 414.7 | 420.1 | 425.8 |
| 132.5° | 417.0 | 416.9 | 416.8 | 416.7 | 416.7 | 418.7 | 422.9 | 427.1 | 431.3 | 435.5 | 441.0 |
| 135° | 443.3 | 444.0 | 444.7 | 445.4 | 446.2 | 447.7 | 450.1 | 452.3 | 454.7 | 457.0 | 462.1 |
| 137.5° | 473.6 | 473.6 | 473.6 | 473.6 | 473.6 | 474.3 | 475.6 | 476.9 | 478.2 | 479.6 | 484.2 |
| 140° | 493.8 | 493.7 | 493.6 | 493.5 | 493.4 | 493.5 | 493.9 | 494.3 | 494.6 | 494.9 | 499.1 |
| 142.5° | 511.1 | 511.2 | 511.4 | 511.6 | 511.8 | 511.7 | 511.4 | 511.1 | 510.9 | 510.6 | 514.3 |
| 145° | 536.4 | 536.5 | 536.7 | 536.9 | 537.0 | 537.1 | 537.2 | 537.3 | 537.4 | 537.5 | 539.5 |
| 147.5° | 561.8 | 562.0 | 562.2 | 562.5 | 562.7 | 562.8 | 562.7 | 562.6 | 562.5 | 562.4 | 562.6 |
| 150° | 577.2 | 577.4 | 577.5 | 577.7 | 577.8 | 577.9 | 577.9 | 577.9 | 577.9 | 577.9 | 577.9 |
| 152.5° | 590.7 | 590.9 | 591.1 | 591.4 | 591.5 | 591.7 | 591.8 | 591.9 | 592.0 | 592.1 | 592.4 |
| 155° | 612.8 | 612.8 | 612.8 | 612.8 | 612.8 | 612.7 | 612.7 | 612.6 | 612.5 | 612.3 | 612.7 |
| 157.5° | 631.8 | 631.5 | 631.3 | 631.1 | 630.9 | 630.7 | 630.7 | 630.7 | 630.7 | 630.7 | 631.0 |
| 160° | 642.9 | 642.8 | 642.7 | 642.6 | 642.4 | 642.3 | 642.2 | 642.2 | 642.0 | 641.9 | 642.2 |
| 162.5° | 653.3 | 653.0 | 652.6 | 652.3 | 652.1 | 651.8 | 651.7 | 651.6 | 651.5 | 651.3 | 652.0 |
| 165° | 667.1 | 666.8 | 666.4 | 666.1 | 665.7 | 665.4 | 665.2 | 665.0 | 664.7 | 664.5 | 665.2 |
| 167.5° | 677.8 | 677.3 | 676.7 | 676.3 | 675.8 | 675.5 | 675.5 | 675.6 | 675.6 | 675.6 | 676.4 |
| 170° | 683.8 | 683.2 | 682.6 | 682.0 | 681.4 | 681.2 | 681.3 | 681.4 | 681.6 | 681.6 | 682.4 |
| 172.5° | 688.1 | 687.6 | 687.1 | 686.6 | 686.1 | 685.9 | 685.9 | 685.9 | 685.9 | 686.0 | 686.7 |
| 175° | 694.0 | 693.4 | 692.9 | 692.2 | 691.6 | 691.3 | 691.2 | 691.1 | 690.9 | 690.8 | 691.6 |
| 177.5° | 696.0 | 695.5 | 695.0 | 694.6 | 694.0 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 694.5 |
| 180° | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |



TEST NUMBER: P332683-830
 CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

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° | 194.0 | 203.8 | 213.6 | 220.0 | 223.0 | 226.0 | 229.0 | 232.0 |
| 90° | 181.6 | 192.1 | 202.5 | 209.2 | 212.1 | 215.0 | 217.9 | 220.8 |
| 92.5° | 182.8 | 192.7 | 202.6 | 208.9 | 211.7 | 214.5 | 217.4 | 220.1 |
| 95° | 190.6 | 200.0 | 209.3 | 215.6 | 218.6 | 221.6 | 224.6 | 227.6 |
| 97.5° | 204.6 | 213.8 | 223.0 | 229.0 | 231.9 | 234.8 | 237.6 | 240.5 |
| 100° | 215.2 | 224.4 | 233.8 | 239.5 | 241.9 | 244.2 | 246.6 | 248.9 |
| 102.5° | 226.9 | 236.0 | 245.1 | 251.0 | 253.6 | 256.4 | 259.1 | 261.7 |
| 105° | 244.7 | 253.4 | 262.1 | 268.1 | 271.1 | 274.1 | 277.1 | 280.1 |
| 107.5° | 265.7 | 274.2 | 282.8 | 288.2 | 290.7 | 293.0 | 295.4 | 297.8 |
| 110° | 279.7 | 287.2 | 294.6 | 299.8 | 302.9 | 305.9 | 309.0 | 312.0 |



TEST NUMBER: P332683-830

CATALOG NUMBER: SA4XXDIP-C1195D590U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 294.6 | 302.0 | 309.3 | 314.4 | 317.2 | 319.9 | 322.6 | 325.5 |
| 115° | 318.5 | 325.7 | 333.0 | 337.7 | 340.0 | 342.1 | 344.4 | 346.6 |
| 117.5° | 340.4 | 347.0 | 353.5 | 358.1 | 360.5 | 363.0 | 365.4 | 367.8 |
| 120° | 355.4 | 361.6 | 367.7 | 372.1 | 375.0 | 378.0 | 380.9 | 383.8 |
| 122.5° | 371.4 | 377.6 | 383.9 | 388.0 | 390.0 | 392.0 | 394.0 | 396.0 |
| 125° | 395.2 | 401.3 | 407.5 | 411.3 | 413.1 | 414.9 | 416.7 | 418.5 |
| 127.5° | 416.1 | 421.9 | 427.7 | 431.6 | 433.8 | 435.8 | 437.9 | 440.0 |
| 130° | 431.6 | 437.4 | 443.2 | 446.9 | 448.4 | 449.9 | 451.4 | 453.0 |
| 132.5° | 446.5 | 452.0 | 457.5 | 461.2 | 463.0 | 464.8 | 466.7 | 468.4 |
| 135° | 467.3 | 472.4 | 477.5 | 480.9 | 482.5 | 484.2 | 485.8 | 487.5 |
| 137.5° | 488.7 | 493.3 | 497.9 | 501.1 | 502.8 | 504.5 | 506.2 | 508.0 |
| 140° | 503.3 | 507.6 | 511.8 | 514.7 | 516.2 | 517.8 | 519.3 | 520.9 |
| 142.5° | 518.1 | 521.9 | 525.8 | 528.3 | 529.7 | 531.0 | 532.4 | 533.9 |
| 145° | 541.4 | 543.3 | 545.2 | 546.6 | 547.5 | 548.6 | 549.5 | 550.4 |
| 147.5° | 562.8 | 562.9 | 563.1 | 563.6 | 564.6 | 565.5 | 566.6 | 567.5 |
| 150° | 577.9 | 577.9 | 577.9 | 577.9 | 577.7 | 577.6 | 577.5 | 577.4 |
| 152.5° | 592.7 | 593.0 | 593.2 | 593.2 | 593.0 | 592.6 | 592.3 | 592.0 |
| 155° | 613.2 | 613.7 | 614.3 | 614.3 | 613.7 | 613.2 | 612.7 | 612.3 |
| 157.5° | 631.4 | 631.8 | 632.2 | 632.1 | 631.7 | 631.3 | 630.8 | 630.5 |
| 160° | 642.6 | 642.9 | 643.3 | 643.2 | 642.6 | 642.0 | 641.4 | 640.8 |
| 162.5° | 652.6 | 653.3 | 653.9 | 653.9 | 653.4 | 652.7 | 652.1 | 651.6 |
| 165° | 665.9 | 666.6 | 667.3 | 667.4 | 666.9 | 666.5 | 666.0 | 665.5 |
| 167.5° | 677.0 | 677.8 | 678.5 | 678.4 | 677.8 | 677.0 | 676.3 | 675.5 |
| 170° | 683.1 | 683.8 | 684.5 | 684.5 | 683.6 | 682.8 | 681.9 | 681.1 |
| 172.5° | 687.6 | 688.4 | 689.2 | 689.2 | 688.3 | 687.5 | 686.6 | 685.9 |
| 175° | 692.5 | 693.3 | 694.1 | 694.1 | 693.3 | 692.5 | 691.6 | 690.8 |
| 177.5° | 695.1 | 695.8 | 696.4 | 696.4 | 695.7 | 694.9 | 694.1 | 693.3 |
| 180° | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |

(END OF REPORT)