

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: P332692-840

Luminaire Tested: **SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332692-840
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-C1195D810U840-4F0-1E-UDD-D1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

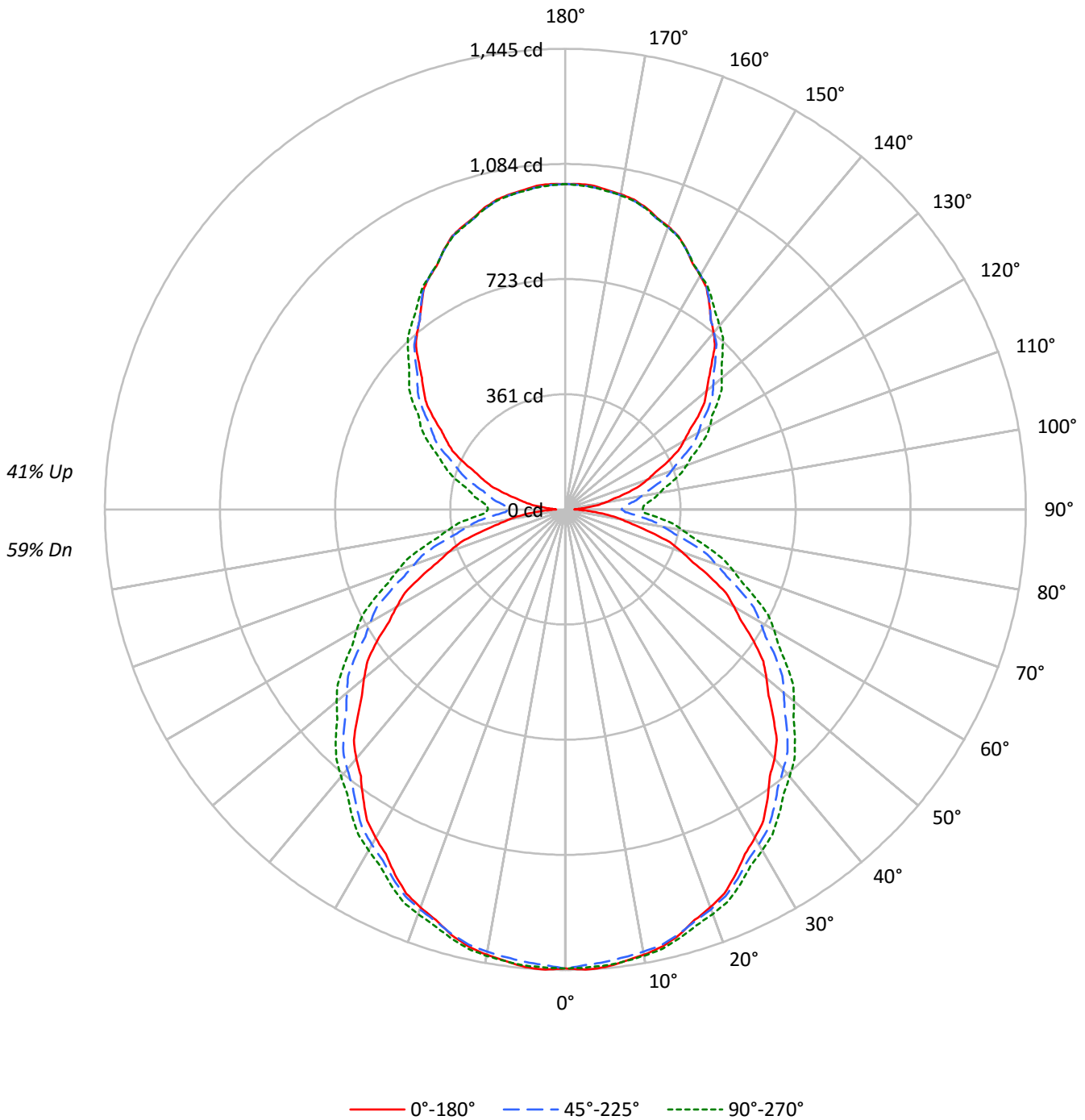
Lumens per Lamp: N/A
Luminaire Lumens: 7744.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 60.7
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: P332692-840
CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332692-840

CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 | | | | |
| 1 | 99 | 94 | 89 | 85 | 92 | 87 | 83 | 80 | 76 | 73 | 70 | 65 | 63 | 61 | 55 | 53 | 52 | 47 | | | | |
| 2 | 89 | 81 | 74 | 69 | 83 | 76 | 70 | 65 | 65 | 61 | 57 | 56 | 53 | 50 | 47 | 45 | 43 | 38 | | | | |
| 3 | 81 | 71 | 63 | 57 | 75 | 66 | 59 | 53 | 57 | 52 | 47 | 49 | 45 | 41 | 42 | 38 | 36 | 32 | | | | |
| 4 | 74 | 62 | 54 | 48 | 69 | 58 | 51 | 45 | 51 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 27 | | | | |
| 5 | 68 | 56 | 47 | 41 | 63 | 52 | 44 | 38 | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 29 | 26 | 23 | | | | |
| 6 | 62 | 50 | 41 | 35 | 58 | 47 | 39 | 33 | 41 | 34 | 30 | 35 | 30 | 26 | 30 | 26 | 23 | 20 | | | | |
| 7 | 58 | 45 | 36 | 31 | 54 | 42 | 35 | 29 | 37 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 18 | | | | |
| 8 | 54 | 41 | 33 | 27 | 50 | 38 | 31 | 26 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 16 | | | | |
| 9 | 50 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 14 | | | | |
| 10 | 47 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 28 | 23 | 19 | 25 | 20 | 17 | 21 | 18 | 15 | 13 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11626 | 11626 | 11626 |
| 5° | 11661 | 11362 | 11394 |
| 10° | 11590 | 11176 | 11167 |
| 15° | 11486 | 10961 | 10900 |
| 20° | 11330 | 10723 | 10641 |
| 25° | 11153 | 10457 | 10356 |
| 30° | 10961 | 10193 | 10063 |
| 35° | 10745 | 9921 | 9805 |
| 40° | 10573 | 9663 | 9538 |
| 45° | 10316 | 9426 | 9309 |
| 50° | 10098 | 9151 | 9066 |
| 55° | 9875 | 8894 | 8781 |
| 60° | 9525 | 8563 | 8521 |
| 65° | 9141 | 8210 | 8201 |
| 70° | 8676 | 7806 | 7830 |
| 75° | 8028 | 7363 | 7494 |
| 80° | 7309 | 6935 | 7163 |
| 85° | 6389 | 6559 | 6968 |



TEST NUMBER: P332692-840

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.4 | 1.8 |
| 10°-20° | 390.7 | 5.0 |
| 20°-30° | 590.8 | 7.6 |
| 30°-40° | 714.8 | 9.2 |
| 40°-50° | 755.7 | 9.8 |
| 50°-60° | 711.2 | 9.2 |
| 60°-70° | 590.1 | 7.6 |
| 70°-80° | 414.5 | 5.4 |
| 80°-90° | 237.4 | 3.1 |
| 90°-100° | 206.5 | 2.7 |
| 100°-110° | 302.5 | 3.9 |
| 110°-120° | 407.7 | 5.3 |
| 120°-130° | 485.4 | 6.3 |
| 130°-140° | 518.2 | 6.7 |
| 140°-150° | 496.0 | 6.4 |
| 150°-160° | 414.4 | 5.4 |
| 160°-170° | 275.7 | 3.6 |
| 170°-180° | 96.5 | 1.2 |
| 0°-30° | 1117.8 | 14.4 |
| 0°-40° | 1832.6 | 23.7 |
| 0°-60° | 3299.5 | 42.6 |
| 0°-90° | 4541.4 | 58.6 |
| 90°-120° | 916.6 | 11.8 |
| 90°-150° | 2416.2 | 31.2 |
| 90°-180° | 3203.0 | 41.4 |
| 0°-180° | 7744.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1440 | 1440 | 1440 | 1440 | 1440 | |
| 5° | 1442 | 1436 | 1426 | 1438 | 1437 | 137 |
| 15° | 1382 | 1383 | 1379 | 1392 | 1392 | 389 |
| 25° | 1264 | 1274 | 1279 | 1296 | 1298 | 582 |
| 35° | 1106 | 1125 | 1142 | 1163 | 1169 | 692 |
| 45° | 922 | 953 | 984 | 1010 | 1019 | 713 |
| 55° | 722 | 757 | 805 | 836 | 847 | 643 |
| 65° | 500 | 552 | 606 | 645 | 660 | 495 |
| 75° | 277 | 338 | 405 | 448 | 464 | 295 |
| 85° | 85 | 153 | 226 | 272 | 290 | 91 |
| 90° | 28 | 102 | 177 | 226 | 243 | 20 |
| 95° | 68 | 129 | 200 | 244 | 261 | 69 |
| 105° | 198 | 233 | 294 | 335 | 352 | 212 |
| 115° | 354 | 370 | 418 | 452 | 464 | 350 |
| 125° | 508 | 508 | 546 | 574 | 583 | 453 |
| 135° | 650 | 655 | 666 | 689 | 697 | 503 |
| 145° | 787 | 789 | 790 | 798 | 802 | 493 |
| 155° | 900 | 900 | 899 | 902 | 899 | 414 |
| 165° | 980 | 977 | 976 | 980 | 977 | 276 |
| 175° | 1019 | 1015 | 1014 | 1020 | 1014 | 97 |
| 180° | 1021 | 1021 | 1021 | 1021 | 1021 | |



TEST NUMBER: P332692-840

CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 |
| 2.5° | 1445.2 | 1444.3 | 1443.5 | 1442.6 | 1441.8 | 1440.2 | 1437.8 | 1435.6 | 1433.3 | 1431.0 | 1433.0 |
| 5° | 1441.6 | 1440.6 | 1439.5 | 1438.5 | 1437.3 | 1435.5 | 1433.0 | 1430.5 | 1428.1 | 1425.5 | 1428.4 |
| 7.5° | 1429.4 | 1428.8 | 1428.1 | 1427.4 | 1426.8 | 1425.4 | 1423.4 | 1421.3 | 1419.2 | 1417.1 | 1420.4 |
| 10° | 1419.1 | 1418.7 | 1418.4 | 1418.0 | 1417.6 | 1416.5 | 1414.7 | 1413.0 | 1411.2 | 1409.4 | 1412.6 |
| 12.5° | 1404.8 | 1404.8 | 1404.7 | 1404.6 | 1404.6 | 1403.9 | 1402.7 | 1401.5 | 1400.3 | 1399.1 | 1402.0 |
| 15° | 1382.0 | 1382.3 | 1382.7 | 1383.0 | 1383.4 | 1383.0 | 1382.0 | 1380.9 | 1379.8 | 1378.8 | 1382.0 |
| 17.5° | 1350.7 | 1351.8 | 1352.8 | 1353.9 | 1354.9 | 1355.4 | 1355.2 | 1354.9 | 1354.7 | 1354.5 | 1357.9 |
| 20° | 1328.8 | 1329.8 | 1330.9 | 1332.0 | 1333.0 | 1333.7 | 1334.1 | 1334.5 | 1334.8 | 1335.2 | 1338.8 |
| 22.5° | 1304.2 | 1305.6 | 1307.0 | 1308.3 | 1309.7 | 1310.7 | 1311.3 | 1312.0 | 1312.6 | 1313.2 | 1316.9 |
| 25° | 1264.3 | 1266.4 | 1268.6 | 1270.7 | 1272.8 | 1274.4 | 1275.6 | 1276.6 | 1277.7 | 1278.8 | 1282.7 |
| 27.5° | 1219.7 | 1222.9 | 1226.1 | 1229.2 | 1232.3 | 1234.8 | 1236.4 | 1238.1 | 1239.7 | 1241.3 | 1245.0 |
| 30° | 1190.0 | 1193.0 | 1195.8 | 1198.7 | 1201.5 | 1204.3 | 1206.7 | 1209.2 | 1211.7 | 1214.3 | 1218.2 |
| 32.5° | 1157.8 | 1161.2 | 1164.7 | 1168.1 | 1171.5 | 1174.7 | 1177.5 | 1180.3 | 1183.1 | 1185.9 | 1190.4 |
| 35° | 1106.2 | 1110.5 | 1114.8 | 1119.1 | 1123.4 | 1127.3 | 1130.9 | 1134.5 | 1138.1 | 1141.7 | 1146.7 |
| 37.5° | 1054.3 | 1059.2 | 1064.2 | 1069.1 | 1074.1 | 1078.7 | 1083.2 | 1087.6 | 1092.1 | 1096.5 | 1101.7 |
| 40° | 1020.8 | 1025.4 | 1030.1 | 1034.7 | 1039.4 | 1044.2 | 1049.2 | 1054.3 | 1059.2 | 1064.3 | 1069.6 |
| 42.5° | 982.1 | 987.2 | 992.5 | 997.7 | 1003.0 | 1008.6 | 1014.4 | 1020.3 | 1026.1 | 1032.1 | 1038.0 |
| 45° | 922.4 | 929.2 | 936.0 | 942.8 | 949.6 | 956.4 | 963.2 | 970.1 | 976.8 | 983.7 | 989.8 |
| 47.5° | 865.3 | 872.3 | 879.4 | 886.4 | 893.4 | 900.9 | 908.8 | 916.7 | 924.5 | 932.4 | 938.7 |
| 50° | 824.0 | 831.9 | 839.8 | 847.7 | 855.6 | 863.4 | 871.3 | 879.2 | 887.1 | 894.9 | 902.1 |
| 52.5° | 782.7 | 790.6 | 798.5 | 806.4 | 814.3 | 822.7 | 831.7 | 840.8 | 849.8 | 858.9 | 866.1 |
| 55° | 722.5 | 729.9 | 737.5 | 745.0 | 752.6 | 761.6 | 772.4 | 783.2 | 794.0 | 804.7 | 811.8 |
| 57.5° | 655.0 | 664.4 | 673.7 | 683.0 | 692.3 | 702.3 | 713.0 | 723.7 | 734.4 | 745.0 | 753.6 |
| 60° | 611.2 | 620.5 | 629.8 | 639.1 | 648.4 | 659.0 | 670.9 | 682.7 | 694.5 | 706.3 | 714.6 |
| 62.5° | 568.6 | 578.8 | 589.0 | 599.2 | 609.3 | 620.3 | 632.2 | 644.0 | 655.8 | 667.6 | 675.8 |
| 65° | 499.9 | 511.4 | 522.8 | 534.3 | 545.7 | 557.5 | 569.8 | 582.0 | 594.1 | 606.3 | 615.3 |
| 67.5° | 433.7 | 446.0 | 458.2 | 470.3 | 482.5 | 495.1 | 508.2 | 521.2 | 534.2 | 547.3 | 556.4 |
| 70° | 388.6 | 400.8 | 413.0 | 425.2 | 437.4 | 450.3 | 463.8 | 477.5 | 491.1 | 504.7 | 514.4 |
| 72.5° | 344.8 | 357.2 | 369.7 | 382.1 | 394.7 | 408.1 | 422.6 | 437.1 | 451.5 | 466.1 | 475.4 |
| 75° | 277.4 | 290.6 | 303.9 | 317.1 | 330.4 | 344.6 | 359.6 | 374.7 | 389.7 | 404.8 | 414.8 |
| 77.5° | 214.5 | 228.5 | 242.6 | 256.6 | 270.6 | 285.6 | 301.3 | 317.1 | 332.9 | 348.6 | 358.8 |
| 80° | 175.8 | 190.1 | 204.4 | 218.7 | 233.1 | 248.1 | 263.9 | 279.7 | 295.5 | 311.2 | 321.9 |
| 82.5° | 137.0 | 152.0 | 166.9 | 181.8 | 196.7 | 212.1 | 227.8 | 243.6 | 259.3 | 275.1 | 286.1 |
| 85° | 85.4 | 100.5 | 115.5 | 130.6 | 145.6 | 161.3 | 177.3 | 193.5 | 209.6 | 225.8 | 236.5 |
| 87.5° | 48.2 | 63.2 | 78.3 | 93.2 | 108.3 | 123.7 | 139.7 | 155.7 | 171.7 | 187.6 | 198.2 |
| 90° | 28.2 | 44.4 | 60.7 | 77.0 | 93.2 | 109.8 | 126.5 | 143.4 | 160.2 | 177.0 | 188.4 |
| 92.5° | 41.4 | 56.6 | 71.6 | 86.7 | 101.9 | 117.6 | 134.0 | 150.4 | 166.7 | 183.2 | 193.9 |
| 95° | 68.4 | 81.7 | 95.1 | 108.6 | 122.0 | 136.6 | 152.5 | 168.4 | 184.4 | 200.3 | 210.5 |
| 97.5° | 101.8 | 113.2 | 124.6 | 136.1 | 147.5 | 161.3 | 177.2 | 193.2 | 209.2 | 225.2 | 235.2 |
| 100° | 128.3 | 138.3 | 148.3 | 158.3 | 168.3 | 181.2 | 196.7 | 212.3 | 227.8 | 243.4 | 253.4 |
| 102.5° | 157.3 | 165.8 | 174.2 | 182.7 | 191.2 | 202.9 | 218.0 | 233.2 | 248.3 | 263.5 | 273.3 |
| 105° | 198.4 | 205.8 | 213.2 | 220.5 | 227.8 | 238.5 | 252.5 | 266.4 | 280.3 | 294.4 | 303.8 |
| 107.5° | 244.7 | 250.9 | 256.9 | 263.0 | 269.0 | 278.4 | 291.0 | 303.8 | 316.4 | 329.0 | 338.3 |
| 110° | 275.0 | 280.3 | 285.8 | 291.1 | 296.5 | 305.4 | 317.7 | 330.1 | 342.4 | 354.9 | 362.7 |



TEST NUMBER: P332692-840

CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 306.6 | 311.0 | 315.6 | 320.1 | 324.7 | 332.8 | 344.4 | 356.0 | 367.7 | 379.3 | 387.2 |
| 115° | 353.9 | 357.1 | 360.3 | 363.6 | 366.8 | 374.0 | 385.1 | 396.2 | 407.3 | 418.4 | 426.2 |
| 117.5° | 400.0 | 402.0 | 404.1 | 406.3 | 408.3 | 414.5 | 425.0 | 435.5 | 445.9 | 456.3 | 463.1 |
| 120° | 429.7 | 431.4 | 433.2 | 434.9 | 436.8 | 442.6 | 452.4 | 462.3 | 472.2 | 482.0 | 488.4 |
| 122.5° | 461.9 | 462.3 | 462.8 | 463.3 | 463.8 | 468.9 | 478.5 | 488.1 | 497.6 | 507.2 | 513.7 |
| 125° | 507.8 | 507.5 | 507.1 | 506.8 | 506.3 | 510.6 | 519.4 | 528.2 | 536.9 | 545.7 | 552.2 |
| 127.5° | 550.6 | 550.8 | 550.9 | 551.1 | 551.3 | 554.6 | 561.2 | 567.8 | 574.4 | 581.0 | 587.1 |
| 130° | 579.6 | 579.8 | 580.0 | 580.1 | 580.3 | 583.2 | 589.0 | 594.7 | 600.5 | 606.1 | 612.3 |
| 132.5° | 610.6 | 610.6 | 610.6 | 610.7 | 610.7 | 612.9 | 617.3 | 621.8 | 626.2 | 630.7 | 636.5 |
| 135° | 649.8 | 650.9 | 652.0 | 653.0 | 654.0 | 655.8 | 658.3 | 660.9 | 663.4 | 665.8 | 671.3 |
| 137.5° | 694.4 | 694.5 | 694.6 | 694.8 | 694.9 | 695.7 | 697.2 | 698.7 | 700.2 | 701.7 | 706.5 |
| 140° | 724.1 | 724.1 | 724.0 | 724.0 | 724.0 | 724.2 | 724.6 | 724.9 | 725.3 | 725.6 | 730.1 |
| 142.5° | 749.9 | 750.2 | 750.4 | 750.7 | 751.0 | 750.9 | 750.6 | 750.2 | 749.9 | 749.5 | 753.7 |
| 145° | 787.2 | 787.5 | 787.9 | 788.2 | 788.5 | 788.8 | 789.0 | 789.1 | 789.3 | 789.5 | 791.4 |
| 147.5° | 824.5 | 825.0 | 825.4 | 825.9 | 826.4 | 826.6 | 826.4 | 826.3 | 826.1 | 826.0 | 826.1 |
| 150° | 847.2 | 847.5 | 847.9 | 848.2 | 848.6 | 848.7 | 848.7 | 848.7 | 848.7 | 848.7 | 848.7 |
| 152.5° | 867.4 | 867.7 | 868.1 | 868.4 | 868.8 | 869.0 | 869.1 | 869.3 | 869.4 | 869.6 | 870.0 |
| 155° | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 899.9 | 899.8 | 899.6 | 899.4 | 899.3 | 899.9 |
| 157.5° | 927.9 | 927.5 | 927.2 | 926.9 | 926.6 | 926.3 | 926.3 | 926.3 | 926.2 | 926.2 | 926.8 |
| 160° | 944.2 | 944.0 | 943.9 | 943.7 | 943.5 | 943.3 | 943.2 | 943.0 | 942.8 | 942.7 | 943.2 |
| 162.5° | 959.4 | 959.0 | 958.5 | 958.1 | 957.6 | 957.3 | 957.0 | 956.9 | 956.7 | 956.5 | 957.6 |
| 165° | 979.8 | 979.3 | 978.8 | 978.2 | 977.7 | 977.2 | 976.8 | 976.5 | 976.1 | 975.8 | 976.8 |
| 167.5° | 995.4 | 994.6 | 993.9 | 993.2 | 992.5 | 992.1 | 992.1 | 992.2 | 992.2 | 992.2 | 993.3 |
| 170° | 1004.2 | 1003.4 | 1002.5 | 1001.6 | 1000.8 | 1000.4 | 1000.6 | 1000.8 | 1000.9 | 1001.1 | 1002.1 |
| 172.5° | 1010.6 | 1009.9 | 1009.1 | 1008.4 | 1007.6 | 1007.2 | 1007.3 | 1007.3 | 1007.3 | 1007.4 | 1008.6 |
| 175° | 1019.3 | 1018.3 | 1017.4 | 1016.6 | 1015.7 | 1015.2 | 1015.0 | 1014.8 | 1014.7 | 1014.5 | 1015.7 |
| 177.5° | 1022.1 | 1021.4 | 1020.7 | 1020.0 | 1019.3 | 1019.0 | 1019.0 | 1019.0 | 1019.0 | 1019.0 | 1019.9 |
| 180° | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 |



TEST NUMBER: P332692-840
 CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 |
| 2.5° | 1435.0 | 1437.0 | 1439.1 | 1439.9 | 1439.6 | 1439.3 | 1439.1 | 1438.8 |
| 5° | 1431.3 | 1434.1 | 1436.9 | 1438.2 | 1437.8 | 1437.5 | 1437.1 | 1436.8 |
| 7.5° | 1423.6 | 1426.8 | 1430.1 | 1431.5 | 1431.1 | 1430.8 | 1430.4 | 1430.1 |
| 10° | 1415.8 | 1419.1 | 1422.3 | 1423.7 | 1423.4 | 1423.0 | 1422.6 | 1422.3 |
| 12.5° | 1404.9 | 1407.9 | 1410.8 | 1412.3 | 1412.2 | 1412.1 | 1412.0 | 1412.0 |
| 15° | 1385.2 | 1388.5 | 1391.6 | 1393.1 | 1392.7 | 1392.4 | 1392.0 | 1391.6 |
| 17.5° | 1361.2 | 1364.4 | 1367.8 | 1369.3 | 1369.0 | 1368.7 | 1368.4 | 1368.1 |
| 20° | 1342.4 | 1345.9 | 1349.6 | 1351.3 | 1351.3 | 1351.3 | 1351.3 | 1351.3 |
| 22.5° | 1320.4 | 1324.0 | 1327.6 | 1329.7 | 1330.3 | 1330.8 | 1331.4 | 1332.0 |
| 25° | 1286.7 | 1290.6 | 1294.5 | 1296.7 | 1297.1 | 1297.4 | 1297.8 | 1298.1 |
| 27.5° | 1248.7 | 1252.3 | 1256.0 | 1258.0 | 1258.5 | 1258.9 | 1259.3 | 1259.7 |
| 30° | 1222.1 | 1226.1 | 1230.0 | 1232.3 | 1233.0 | 1233.8 | 1234.5 | 1235.3 |
| 32.5° | 1194.9 | 1199.4 | 1204.0 | 1206.6 | 1207.3 | 1208.0 | 1208.7 | 1209.4 |
| 35° | 1151.8 | 1156.7 | 1161.7 | 1164.8 | 1165.9 | 1167.0 | 1168.0 | 1169.1 |
| 37.5° | 1106.7 | 1111.8 | 1116.9 | 1120.0 | 1121.2 | 1122.3 | 1123.5 | 1124.6 |
| 40° | 1075.0 | 1080.5 | 1085.8 | 1089.2 | 1090.7 | 1092.1 | 1093.5 | 1094.9 |
| 42.5° | 1043.9 | 1049.9 | 1055.8 | 1059.3 | 1060.6 | 1061.7 | 1062.8 | 1064.0 |
| 45° | 995.8 | 1002.0 | 1008.0 | 1012.0 | 1013.8 | 1015.5 | 1017.3 | 1019.2 |
| 47.5° | 945.0 | 951.3 | 957.7 | 961.8 | 964.0 | 966.1 | 968.3 | 970.5 |
| 50° | 909.3 | 916.5 | 923.6 | 928.3 | 930.5 | 932.6 | 934.7 | 936.9 |
| 52.5° | 873.2 | 880.4 | 887.5 | 892.2 | 894.3 | 896.5 | 898.6 | 900.8 |
| 55° | 819.0 | 826.2 | 833.3 | 838.0 | 840.1 | 842.3 | 844.4 | 846.6 |
| 57.5° | 762.0 | 770.6 | 779.1 | 784.4 | 786.4 | 788.4 | 790.4 | 792.4 |
| 60° | 722.8 | 731.0 | 739.2 | 744.8 | 747.7 | 750.5 | 753.5 | 756.3 |
| 62.5° | 684.1 | 692.4 | 700.5 | 706.1 | 709.0 | 711.9 | 714.7 | 717.6 |
| 65° | 624.2 | 633.2 | 642.2 | 648.0 | 651.0 | 653.8 | 656.7 | 659.5 |
| 67.5° | 565.5 | 574.6 | 583.7 | 589.7 | 592.5 | 595.2 | 598.0 | 600.9 |
| 70° | 524.1 | 533.7 | 543.4 | 549.6 | 552.0 | 554.5 | 557.0 | 559.6 |
| 72.5° | 484.8 | 494.2 | 503.6 | 509.7 | 512.5 | 515.2 | 518.1 | 520.9 |
| 75° | 424.9 | 434.8 | 444.8 | 451.5 | 454.7 | 458.0 | 461.2 | 464.4 |
| 77.5° | 369.0 | 379.2 | 389.3 | 396.2 | 399.6 | 403.0 | 406.5 | 409.9 |
| 80° | 332.8 | 343.5 | 354.3 | 361.0 | 363.9 | 366.8 | 369.6 | 372.5 |
| 82.5° | 297.2 | 308.2 | 319.2 | 326.4 | 329.5 | 332.6 | 335.8 | 338.9 |
| 85° | 247.2 | 258.0 | 268.7 | 275.9 | 279.5 | 283.1 | 286.7 | 290.2 |
| 87.5° | 208.8 | 219.4 | 230.0 | 236.9 | 240.1 | 243.4 | 246.6 | 249.8 |
| 90° | 199.9 | 211.4 | 222.8 | 230.1 | 233.4 | 236.5 | 239.7 | 243.0 |
| 92.5° | 204.6 | 215.4 | 226.1 | 233.0 | 236.1 | 239.1 | 242.3 | 245.3 |
| 95° | 220.7 | 230.9 | 241.1 | 247.8 | 251.1 | 254.3 | 257.5 | 260.7 |
| 97.5° | 245.2 | 255.3 | 265.3 | 271.9 | 274.9 | 278.0 | 281.0 | 284.2 |
| 100° | 263.4 | 273.5 | 283.5 | 289.7 | 292.3 | 294.8 | 297.2 | 299.7 |
| 102.5° | 283.2 | 293.1 | 303.0 | 309.3 | 312.3 | 315.2 | 318.2 | 321.1 |
| 105° | 313.3 | 322.8 | 332.2 | 338.7 | 342.1 | 345.5 | 348.9 | 352.2 |
| 107.5° | 347.6 | 357.0 | 366.3 | 372.1 | 374.8 | 377.3 | 379.8 | 382.3 |
| 110° | 370.6 | 378.5 | 386.4 | 392.0 | 395.5 | 398.8 | 402.2 | 405.6 |



TEST NUMBER: P332692-840

CATALOG NUMBER: SA4XXDIP-C1195D810U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 395.1 | 402.9 | 410.8 | 416.3 | 419.3 | 422.2 | 425.2 | 428.2 |
| 115° | 433.8 | 441.5 | 449.3 | 454.2 | 456.7 | 459.0 | 461.3 | 463.6 |
| 117.5° | 470.0 | 476.9 | 483.7 | 488.4 | 490.9 | 493.4 | 495.9 | 498.5 |
| 120° | 494.6 | 500.9 | 507.3 | 512.0 | 515.1 | 518.4 | 521.6 | 524.8 |
| 122.5° | 520.3 | 526.8 | 533.4 | 537.8 | 539.7 | 541.6 | 543.6 | 545.5 |
| 125° | 558.7 | 565.0 | 571.5 | 575.6 | 577.4 | 579.3 | 581.1 | 582.9 |
| 127.5° | 593.2 | 599.4 | 605.4 | 609.6 | 611.7 | 613.9 | 616.0 | 618.1 |
| 130° | 618.3 | 624.4 | 630.6 | 634.3 | 635.8 | 637.2 | 638.6 | 640.2 |
| 132.5° | 642.3 | 648.1 | 653.9 | 657.7 | 659.6 | 661.5 | 663.4 | 665.2 |
| 135° | 676.6 | 682.0 | 687.4 | 690.8 | 692.5 | 694.2 | 695.8 | 697.4 |
| 137.5° | 711.2 | 716.0 | 720.8 | 724.2 | 726.0 | 727.9 | 729.8 | 731.7 |
| 140° | 734.6 | 739.0 | 743.6 | 746.6 | 748.2 | 749.8 | 751.4 | 753.1 |
| 142.5° | 757.7 | 761.7 | 765.8 | 768.5 | 770.0 | 771.4 | 773.0 | 774.4 |
| 145° | 793.5 | 795.5 | 797.4 | 798.8 | 799.7 | 800.6 | 801.5 | 802.4 |
| 147.5° | 826.3 | 826.4 | 826.6 | 827.1 | 828.1 | 829.1 | 830.0 | 831.0 |
| 150° | 848.7 | 848.7 | 848.7 | 848.6 | 848.5 | 848.3 | 848.1 | 847.9 |
| 152.5° | 870.4 | 870.8 | 871.2 | 871.2 | 870.8 | 870.3 | 869.9 | 869.4 |
| 155° | 900.6 | 901.3 | 902.0 | 902.0 | 901.3 | 900.6 | 899.9 | 899.3 |
| 157.5° | 927.3 | 927.9 | 928.4 | 928.3 | 927.8 | 927.2 | 926.6 | 925.9 |
| 160° | 943.7 | 944.2 | 944.7 | 944.6 | 943.7 | 942.8 | 942.0 | 941.1 |
| 162.5° | 958.5 | 959.4 | 960.4 | 960.4 | 959.5 | 958.7 | 957.8 | 956.8 |
| 165° | 978.0 | 979.0 | 980.1 | 980.2 | 979.5 | 978.8 | 978.1 | 977.4 |
| 167.5° | 994.3 | 995.4 | 996.4 | 996.4 | 995.3 | 994.2 | 993.2 | 992.1 |
| 170° | 1003.2 | 1004.2 | 1005.3 | 1005.2 | 1004.0 | 1002.8 | 1001.5 | 1000.3 |
| 172.5° | 1009.8 | 1011.0 | 1012.2 | 1012.2 | 1011.0 | 1009.7 | 1008.5 | 1007.2 |
| 175° | 1016.9 | 1018.1 | 1019.5 | 1019.5 | 1018.1 | 1016.9 | 1015.7 | 1014.5 |
| 177.5° | 1020.9 | 1021.9 | 1022.9 | 1022.8 | 1021.7 | 1020.6 | 1019.5 | 1018.2 |
| 180° | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 | 1020.8 |

(END OF REPORT)