

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: P331435-830

Luminaire Tested: **S122DIP-S1005D530U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331435-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D530U830-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.8 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

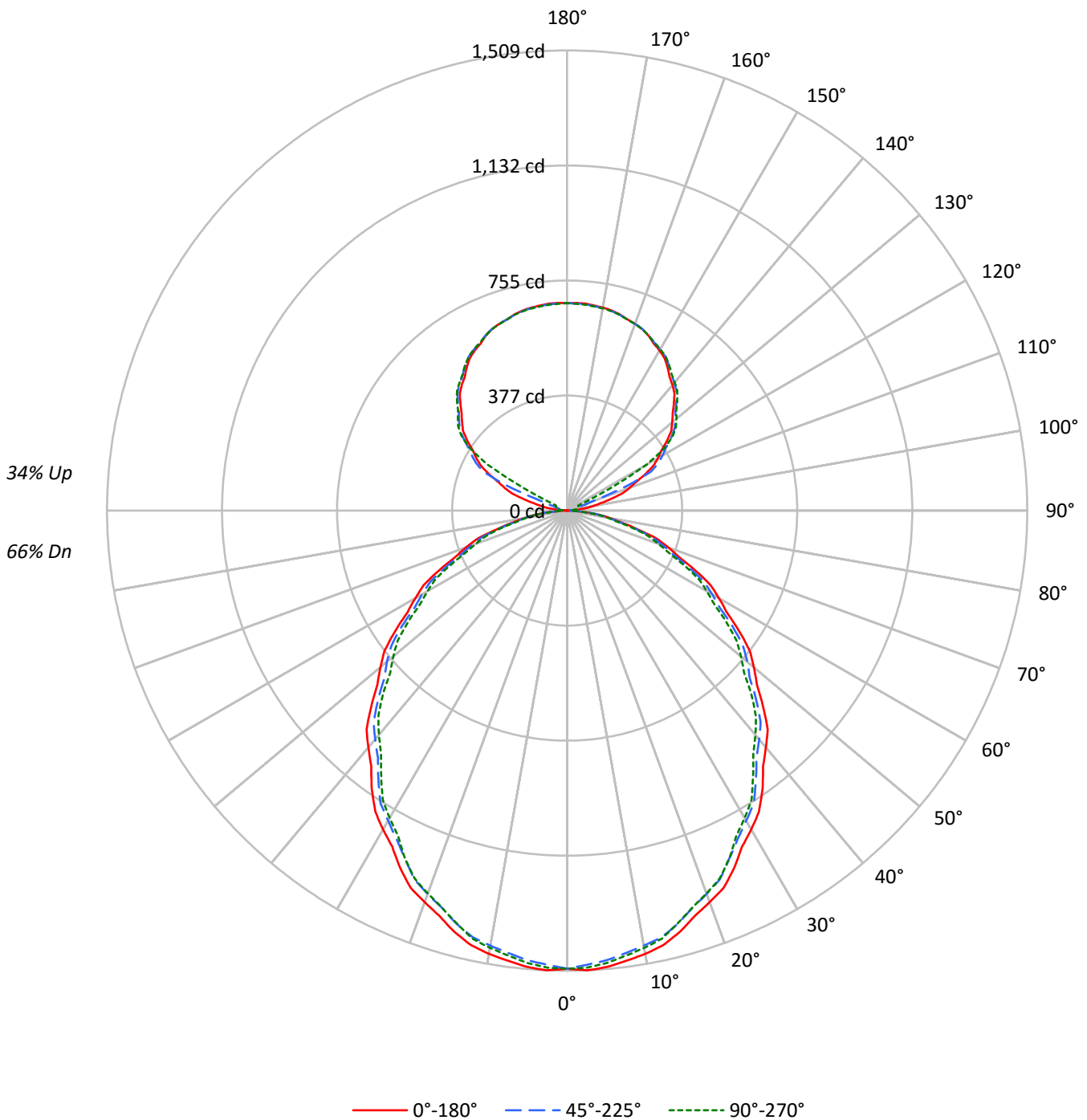
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

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 | 81 | 81 | 81 | 71 | 71 | 71 | 66 |
| 1 | 101 | 97 | 93 | 89 | 95 | 91 | 88 | 85 | 81 | 78 | 76 | 71 | 69 | 67 | 62 | 61 | 60 | 55 |
| 2 | 92 | 85 | 78 | 73 | 87 | 80 | 74 | 70 | 71 | 67 | 63 | 63 | 59 | 56 | 55 | 52 | 50 | 46 |
| 3 | 84 | 74 | 67 | 61 | 79 | 70 | 64 | 58 | 63 | 57 | 53 | 55 | 51 | 48 | 49 | 46 | 43 | 39 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 49 | 56 | 50 | 45 | 49 | 45 | 41 | 44 | 40 | 37 | 34 |
| 5 | 71 | 59 | 51 | 44 | 66 | 56 | 48 | 43 | 50 | 44 | 39 | 44 | 39 | 36 | 39 | 35 | 32 | 29 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 28 | 26 |
| 7 | 61 | 48 | 40 | 34 | 57 | 45 | 38 | 33 | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 28 | 25 | 23 |
| 8 | 56 | 44 | 36 | 30 | 53 | 41 | 34 | 29 | 37 | 31 | 27 | 34 | 28 | 25 | 30 | 26 | 23 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 20 | 18 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 24 | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 24254 | 24254 | 24254 |
| 5° | 24347 | 23995 | 24136 |
| 10° | 24202 | 23753 | 23871 |
| 15° | 23903 | 23445 | 23422 |
| 20° | 23479 | 22983 | 22957 |
| 25° | 23058 | 22413 | 22413 |
| 30° | 22514 | 21893 | 21705 |
| 35° | 22007 | 21268 | 20954 |
| 40° | 21372 | 20643 | 20244 |
| 45° | 20747 | 20021 | 19527 |
| 50° | 20065 | 19376 | 18686 |
| 55° | 19356 | 18624 | 17931 |
| 60° | 18564 | 17725 | 17073 |
| 65° | 17712 | 16829 | 16061 |
| 70° | 16636 | 15753 | 15002 |
| 75° | 15140 | 14504 | 14148 |
| 80° | 13436 | 13036 | 12357 |
| 85° | 10967 | 10448 | 9355 |



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.3 | 2.4 |
| 10°-20° | 397.5 | 6.8 |
| 20°-30° | 584.2 | 10.0 |
| 30°-40° | 678.6 | 11.7 |
| 40°-50° | 677.9 | 11.7 |
| 50°-60° | 591.2 | 10.2 |
| 60°-70° | 437.1 | 7.5 |
| 70°-80° | 247.6 | 4.3 |
| 80°-90° | 68.3 | 1.2 |
| 90°-100° | 22.7 | 0.4 |
| 100°-110° | 83.2 | 1.4 |
| 110°-120° | 222.3 | 3.8 |
| 120°-130° | 366.9 | 6.3 |
| 130°-140° | 390.2 | 6.7 |
| 140°-150° | 362.7 | 6.2 |
| 150°-160° | 291.6 | 5.0 |
| 160°-170° | 187.9 | 3.2 |
| 170°-180° | 64.7 | 1.1 |
| 0°-30° | 1123.0 | 19.3 |
| 0°-40° | 1801.6 | 31.0 |
| 0°-60° | 3070.7 | 52.8 |
| 0°-90° | 3823.6 | 65.7 |
| 90°-120° | 328.1 | 5.6 |
| 90°-150° | 1447.9 | 24.9 |
| 90°-180° | 1992.0 | 34.3 |
| 0°-180° | 5815.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1502 | 1502 | 1502 | 1502 | 1502 | |
| 5° | 1502 | 1496 | 1480 | 1491 | 1489 | 142 |
| 15° | 1430 | 1421 | 1403 | 1408 | 1401 | 402 |
| 25° | 1294 | 1282 | 1258 | 1261 | 1258 | 595 |
| 35° | 1116 | 1102 | 1079 | 1070 | 1063 | 697 |
| 45° | 909 | 898 | 877 | 862 | 855 | 701 |
| 55° | 688 | 678 | 662 | 645 | 637 | 615 |
| 65° | 464 | 455 | 440 | 428 | 420 | 458 |
| 75° | 243 | 240 | 232 | 225 | 227 | 259 |
| 85° | 59 | 58 | 56 | 52 | 50 | 68 |
| 90° | 0 | 6 | 10 | 12 | 13 | 4 |
| 95° | 32 | 17 | 19 | 22 | 21 | 39 |
| 105° | 150 | 156 | 30 | 35 | 37 | 160 |
| 115° | 283 | 291 | 304 | 86 | 40 | 278 |
| 125° | 400 | 406 | 416 | 419 | 421 | 356 |
| 135° | 495 | 502 | 507 | 512 | 511 | 382 |
| 145° | 574 | 574 | 582 | 585 | 583 | 359 |
| 155° | 632 | 628 | 634 | 636 | 632 | 291 |
| 165° | 666 | 663 | 664 | 668 | 664 | 188 |
| 175° | 681 | 678 | 679 | 682 | 677 | 65 |
| 180° | 680 | 680 | 680 | 680 | 680 | |



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 |
| 2.5° | 1509.2 | 1507.9 | 1506.7 | 1505.3 | 1504.0 | 1502.0 | 1499.2 | 1496.4 | 1493.6 | 1490.7 | 1493.3 |
| 5° | 1502.2 | 1501.0 | 1499.7 | 1498.4 | 1497.1 | 1494.7 | 1491.2 | 1487.6 | 1484.1 | 1480.5 | 1483.2 |
| 7.5° | 1488.9 | 1487.0 | 1485.0 | 1483.0 | 1481.0 | 1478.2 | 1474.6 | 1471.0 | 1467.4 | 1463.9 | 1466.4 |
| 10° | 1476.2 | 1474.0 | 1471.8 | 1469.5 | 1467.3 | 1464.2 | 1460.4 | 1456.5 | 1452.6 | 1448.8 | 1451.4 |
| 12.5° | 1459.0 | 1456.9 | 1454.9 | 1452.9 | 1451.0 | 1448.0 | 1444.2 | 1440.3 | 1436.5 | 1432.7 | 1434.5 |
| 15° | 1430.0 | 1428.1 | 1426.2 | 1424.3 | 1422.3 | 1419.3 | 1415.1 | 1410.9 | 1406.7 | 1402.6 | 1403.9 |
| 17.5° | 1393.1 | 1391.1 | 1389.2 | 1387.2 | 1385.3 | 1382.2 | 1378.0 | 1373.8 | 1369.5 | 1365.4 | 1366.8 |
| 20° | 1366.5 | 1364.5 | 1362.6 | 1360.7 | 1358.8 | 1355.6 | 1351.0 | 1346.6 | 1342.1 | 1337.6 | 1338.5 |
| 22.5° | 1339.9 | 1337.2 | 1334.5 | 1331.8 | 1329.1 | 1325.7 | 1321.4 | 1317.2 | 1313.0 | 1308.7 | 1308.9 |
| 25° | 1294.3 | 1291.7 | 1289.1 | 1286.6 | 1284.0 | 1280.0 | 1274.5 | 1269.0 | 1263.6 | 1258.1 | 1258.8 |
| 27.5° | 1242.3 | 1239.9 | 1237.7 | 1235.3 | 1233.0 | 1229.7 | 1225.4 | 1221.1 | 1216.8 | 1212.5 | 1211.5 |
| 30° | 1207.6 | 1205.0 | 1202.4 | 1199.9 | 1197.3 | 1193.6 | 1188.8 | 1184.0 | 1179.2 | 1174.3 | 1173.4 |
| 32.5° | 1170.6 | 1168.6 | 1166.5 | 1164.4 | 1162.3 | 1158.9 | 1153.8 | 1148.7 | 1143.6 | 1138.5 | 1136.8 |
| 35° | 1116.5 | 1113.3 | 1110.1 | 1106.9 | 1103.7 | 1099.6 | 1094.4 | 1089.3 | 1084.2 | 1079.0 | 1077.1 |
| 37.5° | 1055.6 | 1052.8 | 1050.0 | 1047.2 | 1044.3 | 1040.4 | 1035.2 | 1030.1 | 1024.9 | 1019.8 | 1017.4 |
| 40° | 1014.0 | 1011.4 | 1008.9 | 1006.4 | 1003.7 | 999.9 | 994.8 | 989.7 | 984.5 | 979.4 | 976.5 |
| 42.5° | 973.6 | 971.0 | 968.5 | 965.9 | 963.3 | 959.4 | 954.3 | 949.1 | 944.1 | 938.9 | 935.8 |
| 45° | 908.6 | 906.3 | 904.1 | 901.8 | 899.6 | 896.1 | 891.3 | 886.5 | 881.7 | 876.8 | 873.3 |
| 47.5° | 843.9 | 841.8 | 839.6 | 837.5 | 835.4 | 831.8 | 826.8 | 821.8 | 816.8 | 811.8 | 808.0 |
| 50° | 798.8 | 797.2 | 795.6 | 794.0 | 792.4 | 789.3 | 784.9 | 780.3 | 775.8 | 771.4 | 766.9 |
| 52.5° | 754.9 | 752.8 | 750.6 | 748.6 | 746.4 | 743.2 | 739.0 | 734.7 | 730.6 | 726.3 | 722.6 |
| 55° | 687.6 | 685.6 | 683.7 | 681.8 | 679.9 | 676.9 | 673.2 | 669.3 | 665.4 | 661.6 | 657.7 |
| 57.5° | 620.0 | 618.4 | 616.9 | 615.4 | 613.8 | 611.0 | 606.7 | 602.5 | 598.2 | 594.0 | 590.2 |
| 60° | 574.9 | 573.6 | 572.3 | 571.1 | 569.8 | 566.8 | 562.4 | 557.9 | 553.4 | 548.9 | 545.4 |
| 62.5° | 531.0 | 529.0 | 526.9 | 524.8 | 522.7 | 520.0 | 516.5 | 513.1 | 509.6 | 506.1 | 502.8 |
| 65° | 463.6 | 461.8 | 459.9 | 457.9 | 456.0 | 453.4 | 450.2 | 447.0 | 443.7 | 440.5 | 437.7 |
| 67.5° | 395.2 | 393.7 | 392.1 | 390.6 | 389.1 | 386.8 | 383.9 | 381.1 | 378.1 | 375.3 | 373.1 |
| 70° | 352.4 | 351.2 | 349.9 | 348.6 | 347.3 | 345.3 | 342.3 | 339.4 | 336.6 | 333.7 | 331.4 |
| 72.5° | 308.5 | 307.3 | 305.9 | 304.7 | 303.4 | 301.8 | 300.0 | 298.1 | 296.2 | 294.4 | 292.1 |
| 75° | 242.7 | 242.0 | 241.4 | 240.7 | 240.1 | 238.9 | 237.3 | 235.7 | 234.1 | 232.5 | 230.6 |
| 77.5° | 183.7 | 182.7 | 181.5 | 180.5 | 179.4 | 178.5 | 177.9 | 177.2 | 176.5 | 176.0 | 174.9 |
| 80° | 144.5 | 144.1 | 143.8 | 143.5 | 143.2 | 142.7 | 142.0 | 141.4 | 140.7 | 140.2 | 139.1 |
| 82.5° | 107.4 | 107.4 | 107.4 | 107.3 | 107.2 | 107.0 | 106.6 | 106.2 | 105.8 | 105.5 | 104.2 |
| 85° | 59.2 | 58.9 | 58.6 | 58.2 | 58.0 | 57.6 | 57.3 | 56.9 | 56.6 | 56.4 | 55.3 |
| 87.5° | 20.9 | 20.6 | 20.4 | 20.1 | 19.8 | 19.5 | 19.1 | 18.9 | 18.5 | 18.2 | 17.5 |
| 90° | 0.5 | 1.7 | 2.9 | 4.1 | 5.3 | 6.3 | 7.3 | 8.1 | 9.0 | 9.8 | 10.4 |
| 92.5° | 9.9 | 9.8 | 9.7 | 9.6 | 9.5 | 9.7 | 10.1 | 10.6 | 10.9 | 11.4 | 11.7 |
| 95° | 32.0 | 28.4 | 24.8 | 21.1 | 17.5 | 16.1 | 16.9 | 17.6 | 18.4 | 19.2 | 19.7 |
| 97.5° | 63.4 | 53.3 | 43.2 | 33.0 | 22.8 | 18.6 | 20.4 | 22.1 | 23.9 | 25.6 | 26.1 |
| 100° | 87.1 | 72.1 | 57.1 | 42.1 | 27.1 | 20.6 | 22.4 | 24.3 | 26.2 | 28.0 | 28.9 |
| 102.5° | 113.0 | 109.9 | 106.7 | 103.5 | 100.4 | 91.0 | 75.5 | 59.9 | 44.4 | 28.8 | 30.0 |
| 105° | 149.5 | 152.8 | 156.1 | 159.4 | 162.7 | 149.4 | 119.5 | 89.7 | 59.9 | 30.0 | 31.2 |
| 107.5° | 191.1 | 193.8 | 196.4 | 199.1 | 201.7 | 185.1 | 149.4 | 113.6 | 77.8 | 42.0 | 40.8 |
| 110° | 217.9 | 220.2 | 222.5 | 224.8 | 227.1 | 212.4 | 180.9 | 149.3 | 117.6 | 86.1 | 75.1 |



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 243.1 | 245.2 | 247.1 | 249.2 | 251.2 | 248.4 | 240.5 | 232.7 | 224.9 | 217.2 | 177.2 |
| 115° | 282.9 | 284.6 | 286.5 | 288.4 | 290.3 | 292.6 | 295.3 | 298.0 | 300.8 | 303.5 | 252.9 |
| 117.5° | 318.4 | 320.5 | 322.5 | 324.6 | 326.7 | 328.7 | 330.5 | 332.4 | 334.3 | 336.1 | 324.0 |
| 120° | 344.3 | 345.9 | 347.6 | 349.2 | 350.9 | 352.7 | 354.7 | 356.7 | 358.5 | 360.5 | 361.8 |
| 122.5° | 366.4 | 368.1 | 369.9 | 371.6 | 373.2 | 375.2 | 377.3 | 379.5 | 381.6 | 383.8 | 384.6 |
| 125° | 399.9 | 401.3 | 402.7 | 404.2 | 405.6 | 407.4 | 409.4 | 411.5 | 413.6 | 415.7 | 416.4 |
| 127.5° | 430.3 | 431.9 | 433.5 | 435.0 | 436.6 | 438.2 | 439.7 | 441.3 | 442.8 | 444.4 | 445.4 |
| 130° | 449.6 | 451.3 | 453.1 | 454.9 | 456.6 | 458.1 | 459.3 | 460.4 | 461.7 | 462.9 | 464.1 |
| 132.5° | 469.3 | 470.7 | 472.2 | 473.7 | 475.2 | 476.5 | 477.8 | 479.0 | 480.1 | 481.4 | 482.4 |
| 135° | 494.8 | 496.6 | 498.3 | 500.1 | 501.8 | 503.2 | 504.2 | 505.2 | 506.1 | 507.1 | 508.2 |
| 137.5° | 520.8 | 521.9 | 523.1 | 524.3 | 525.6 | 526.8 | 527.9 | 529.0 | 530.1 | 531.2 | 532.3 |
| 140° | 537.6 | 538.5 | 539.4 | 540.3 | 541.1 | 542.2 | 543.4 | 544.6 | 545.7 | 547.0 | 548.0 |
| 142.5° | 551.8 | 552.6 | 553.4 | 554.1 | 555.0 | 556.0 | 557.4 | 558.7 | 560.2 | 561.6 | 562.4 |
| 145° | 574.0 | 573.9 | 573.8 | 573.7 | 573.6 | 574.5 | 576.4 | 578.2 | 580.0 | 581.9 | 582.7 |
| 147.5° | 593.4 | 593.0 | 592.6 | 592.2 | 591.7 | 592.5 | 594.3 | 596.2 | 597.9 | 599.8 | 600.4 |
| 150° | 606.0 | 605.2 | 604.5 | 603.7 | 602.9 | 603.4 | 605.2 | 606.9 | 608.7 | 610.4 | 611.1 |
| 152.5° | 616.6 | 615.8 | 614.9 | 614.1 | 613.2 | 613.6 | 615.3 | 617.0 | 618.6 | 620.3 | 620.9 |
| 155° | 632.1 | 631.1 | 630.1 | 629.1 | 628.1 | 628.3 | 629.6 | 630.9 | 632.3 | 633.6 | 634.2 |
| 157.5° | 644.1 | 643.4 | 642.5 | 641.7 | 640.8 | 640.9 | 641.8 | 642.7 | 643.7 | 644.6 | 645.3 |
| 160° | 651.3 | 650.6 | 650.0 | 649.3 | 648.7 | 648.7 | 649.3 | 650.0 | 650.6 | 651.3 | 652.0 |
| 162.5° | 657.5 | 656.9 | 656.2 | 655.5 | 655.0 | 654.9 | 655.4 | 656.0 | 656.6 | 657.1 | 657.9 |
| 165° | 666.0 | 665.3 | 664.7 | 664.0 | 663.4 | 663.3 | 663.5 | 663.8 | 664.2 | 664.5 | 665.3 |
| 167.5° | 672.3 | 671.7 | 671.0 | 670.3 | 669.7 | 669.5 | 669.8 | 670.1 | 670.4 | 670.7 | 671.5 |
| 170° | 675.8 | 675.2 | 674.6 | 673.9 | 673.3 | 673.0 | 673.3 | 673.4 | 673.6 | 673.9 | 674.7 |
| 172.5° | 678.3 | 677.6 | 676.9 | 676.3 | 675.6 | 675.3 | 675.6 | 675.8 | 676.0 | 676.3 | 677.0 |
| 175° | 681.3 | 680.5 | 679.8 | 679.0 | 678.2 | 678.0 | 678.2 | 678.3 | 678.5 | 678.8 | 679.6 |
| 177.5° | 681.7 | 681.2 | 680.5 | 680.0 | 679.3 | 679.0 | 679.1 | 679.2 | 679.3 | 679.4 | 680.0 |
| 180° | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 |



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 | 1502.2 |
| 2.5° | 1495.8 | 1498.4 | 1501.0 | 1502.0 | 1501.5 | 1501.0 | 1500.4 | 1500.0 |
| 5° | 1485.7 | 1488.3 | 1490.8 | 1491.9 | 1491.2 | 1490.5 | 1489.9 | 1489.2 |
| 7.5° | 1469.0 | 1471.5 | 1474.1 | 1475.1 | 1474.3 | 1473.7 | 1472.9 | 1472.3 |
| 10° | 1454.0 | 1456.5 | 1459.1 | 1459.9 | 1459.0 | 1457.9 | 1457.0 | 1456.0 |
| 12.5° | 1436.2 | 1438.0 | 1439.8 | 1440.4 | 1439.6 | 1439.0 | 1438.2 | 1437.6 |
| 15° | 1405.1 | 1406.5 | 1407.7 | 1407.6 | 1406.0 | 1404.4 | 1402.8 | 1401.2 |
| 17.5° | 1368.3 | 1369.8 | 1371.2 | 1371.2 | 1369.6 | 1368.1 | 1366.6 | 1365.0 |
| 20° | 1339.5 | 1340.5 | 1341.4 | 1341.2 | 1340.0 | 1338.7 | 1337.5 | 1336.1 |
| 22.5° | 1309.1 | 1309.3 | 1309.5 | 1309.2 | 1308.4 | 1307.7 | 1306.8 | 1306.1 |
| 25° | 1259.4 | 1260.1 | 1260.7 | 1260.7 | 1260.1 | 1259.4 | 1258.8 | 1258.1 |
| 27.5° | 1210.6 | 1209.6 | 1208.6 | 1207.4 | 1205.9 | 1204.3 | 1202.8 | 1201.3 |
| 30° | 1172.4 | 1171.5 | 1170.5 | 1169.4 | 1168.1 | 1166.8 | 1165.5 | 1164.2 |
| 32.5° | 1135.1 | 1133.3 | 1131.6 | 1130.1 | 1128.8 | 1127.6 | 1126.2 | 1124.9 |
| 35° | 1075.2 | 1073.3 | 1071.3 | 1069.6 | 1068.0 | 1066.4 | 1064.7 | 1063.1 |
| 37.5° | 1015.0 | 1012.7 | 1010.3 | 1008.3 | 1006.8 | 1005.2 | 1003.7 | 1002.2 |
| 40° | 973.6 | 970.7 | 967.8 | 965.7 | 964.4 | 963.2 | 961.9 | 960.5 |
| 42.5° | 932.6 | 929.4 | 926.3 | 923.9 | 922.1 | 920.3 | 918.5 | 916.6 |
| 45° | 869.8 | 866.2 | 862.7 | 860.3 | 858.9 | 857.7 | 856.4 | 855.2 |
| 47.5° | 804.4 | 800.6 | 796.9 | 794.1 | 792.2 | 790.4 | 788.5 | 786.6 |
| 50° | 762.3 | 757.9 | 753.4 | 750.4 | 748.8 | 747.2 | 745.6 | 743.9 |
| 52.5° | 718.9 | 715.1 | 711.4 | 708.5 | 706.3 | 704.3 | 702.1 | 700.0 |
| 55° | 653.8 | 650.0 | 646.2 | 643.5 | 641.9 | 640.3 | 638.7 | 637.0 |
| 57.5° | 586.4 | 582.6 | 578.8 | 576.3 | 575.1 | 573.9 | 572.7 | 571.5 |
| 60° | 541.9 | 538.3 | 534.8 | 532.5 | 531.6 | 530.7 | 529.6 | 528.7 |
| 62.5° | 499.6 | 496.3 | 493.0 | 490.8 | 489.6 | 488.3 | 487.1 | 485.9 |
| 65° | 434.8 | 431.9 | 429.0 | 426.8 | 425.2 | 423.6 | 422.0 | 420.4 |
| 67.5° | 370.8 | 368.5 | 366.3 | 364.5 | 363.3 | 361.9 | 360.7 | 359.4 |
| 70° | 329.1 | 327.0 | 324.7 | 322.9 | 321.6 | 320.4 | 319.1 | 317.8 |
| 72.5° | 289.9 | 287.7 | 285.4 | 283.8 | 282.8 | 281.7 | 280.7 | 279.7 |
| 75° | 228.8 | 226.8 | 224.9 | 224.2 | 224.9 | 225.5 | 226.1 | 226.8 |
| 77.5° | 174.0 | 173.1 | 172.1 | 171.2 | 170.2 | 169.4 | 168.4 | 167.6 |
| 80° | 138.2 | 137.2 | 136.3 | 135.4 | 134.8 | 134.2 | 133.6 | 132.9 |
| 82.5° | 103.0 | 101.8 | 100.6 | 99.9 | 99.7 | 99.6 | 99.5 | 99.3 |
| 85° | 54.4 | 53.4 | 52.5 | 51.8 | 51.6 | 51.2 | 50.9 | 50.5 |
| 87.5° | 16.8 | 16.1 | 15.5 | 15.1 | 14.9 | 14.6 | 14.4 | 14.2 |
| 90° | 10.9 | 11.5 | 12.1 | 12.4 | 12.6 | 12.8 | 13.1 | 13.3 |
| 92.5° | 12.0 | 12.3 | 12.5 | 12.7 | 12.9 | 13.0 | 13.2 | 13.3 |
| 95° | 20.3 | 20.8 | 21.4 | 21.6 | 21.5 | 21.4 | 21.3 | 21.1 |
| 97.5° | 26.6 | 27.0 | 27.4 | 27.7 | 27.8 | 28.0 | 28.1 | 28.3 |
| 100° | 29.8 | 30.6 | 31.6 | 32.0 | 32.3 | 32.5 | 32.7 | 33.0 |
| 102.5° | 31.1 | 32.2 | 33.4 | 34.1 | 34.4 | 34.7 | 35.0 | 35.3 |
| 105° | 32.4 | 33.6 | 34.8 | 35.6 | 36.1 | 36.5 | 36.9 | 37.4 |
| 107.5° | 39.6 | 38.4 | 37.1 | 36.8 | 37.1 | 37.6 | 38.0 | 38.5 |
| 110° | 64.2 | 53.3 | 42.3 | 37.1 | 37.5 | 38.0 | 38.5 | 38.8 |



TEST NUMBER: P331435-830

CATALOG NUMBER: S122DIP-S1005D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 137.3 | 97.5 | 57.6 | 37.9 | 38.2 | 38.5 | 38.9 | 39.2 |
| 115° | 202.3 | 151.7 | 101.0 | 71.8 | 63.9 | 56.1 | 48.2 | 40.3 |
| 117.5° | 311.7 | 299.4 | 287.2 | 268.2 | 242.2 | 216.4 | 190.6 | 164.7 |
| 120° | 363.2 | 364.5 | 365.8 | 359.1 | 344.3 | 329.6 | 314.8 | 300.0 |
| 122.5° | 385.3 | 386.2 | 386.9 | 385.9 | 383.0 | 380.1 | 377.3 | 374.4 |
| 125° | 417.2 | 417.9 | 418.7 | 419.2 | 419.6 | 419.9 | 420.3 | 420.6 |
| 127.5° | 446.6 | 447.7 | 448.8 | 449.4 | 449.5 | 449.6 | 449.6 | 449.7 |
| 130° | 465.2 | 466.5 | 467.7 | 468.3 | 468.1 | 468.0 | 467.9 | 467.8 |
| 132.5° | 483.4 | 484.5 | 485.5 | 485.9 | 485.8 | 485.7 | 485.6 | 485.5 |
| 135° | 509.3 | 510.4 | 511.5 | 512.0 | 511.7 | 511.5 | 511.3 | 511.0 |
| 137.5° | 533.4 | 534.4 | 535.6 | 535.8 | 535.5 | 535.1 | 534.8 | 534.4 |
| 140° | 548.9 | 549.9 | 550.9 | 551.1 | 550.5 | 550.1 | 549.5 | 548.9 |
| 142.5° | 563.4 | 564.2 | 565.1 | 565.3 | 564.8 | 564.2 | 563.6 | 563.1 |
| 145° | 583.4 | 584.2 | 584.9 | 585.0 | 584.6 | 584.0 | 583.4 | 582.9 |
| 147.5° | 601.0 | 601.5 | 602.1 | 602.1 | 601.7 | 601.2 | 600.8 | 600.3 |
| 150° | 611.7 | 612.4 | 613.0 | 613.1 | 612.6 | 612.0 | 611.4 | 611.0 |
| 152.5° | 621.6 | 622.3 | 622.9 | 622.8 | 622.2 | 621.4 | 620.7 | 620.0 |
| 155° | 634.9 | 635.6 | 636.2 | 636.0 | 635.2 | 634.3 | 633.5 | 632.5 |
| 157.5° | 646.0 | 646.8 | 647.5 | 647.5 | 646.6 | 645.7 | 644.9 | 644.0 |
| 160° | 652.5 | 653.2 | 653.8 | 653.8 | 653.1 | 652.3 | 651.5 | 650.7 |
| 162.5° | 658.6 | 659.4 | 660.2 | 660.1 | 659.1 | 658.2 | 657.2 | 656.3 |
| 165° | 666.1 | 666.8 | 667.6 | 667.6 | 666.8 | 666.1 | 665.3 | 664.5 |
| 167.5° | 672.2 | 673.1 | 673.8 | 673.7 | 672.7 | 671.8 | 670.7 | 669.8 |
| 170° | 675.4 | 676.2 | 676.9 | 676.8 | 675.8 | 674.9 | 673.9 | 672.9 |
| 172.5° | 677.8 | 678.5 | 679.3 | 679.2 | 678.3 | 677.2 | 676.3 | 675.2 |
| 175° | 680.3 | 681.1 | 681.8 | 681.7 | 680.6 | 679.5 | 678.4 | 677.3 |
| 177.5° | 680.6 | 681.3 | 681.8 | 681.7 | 681.0 | 680.1 | 679.4 | 678.6 |
| 180° | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 |

(END OF REPORT)