

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: P331463-930

Luminaire Tested: **SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331463-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

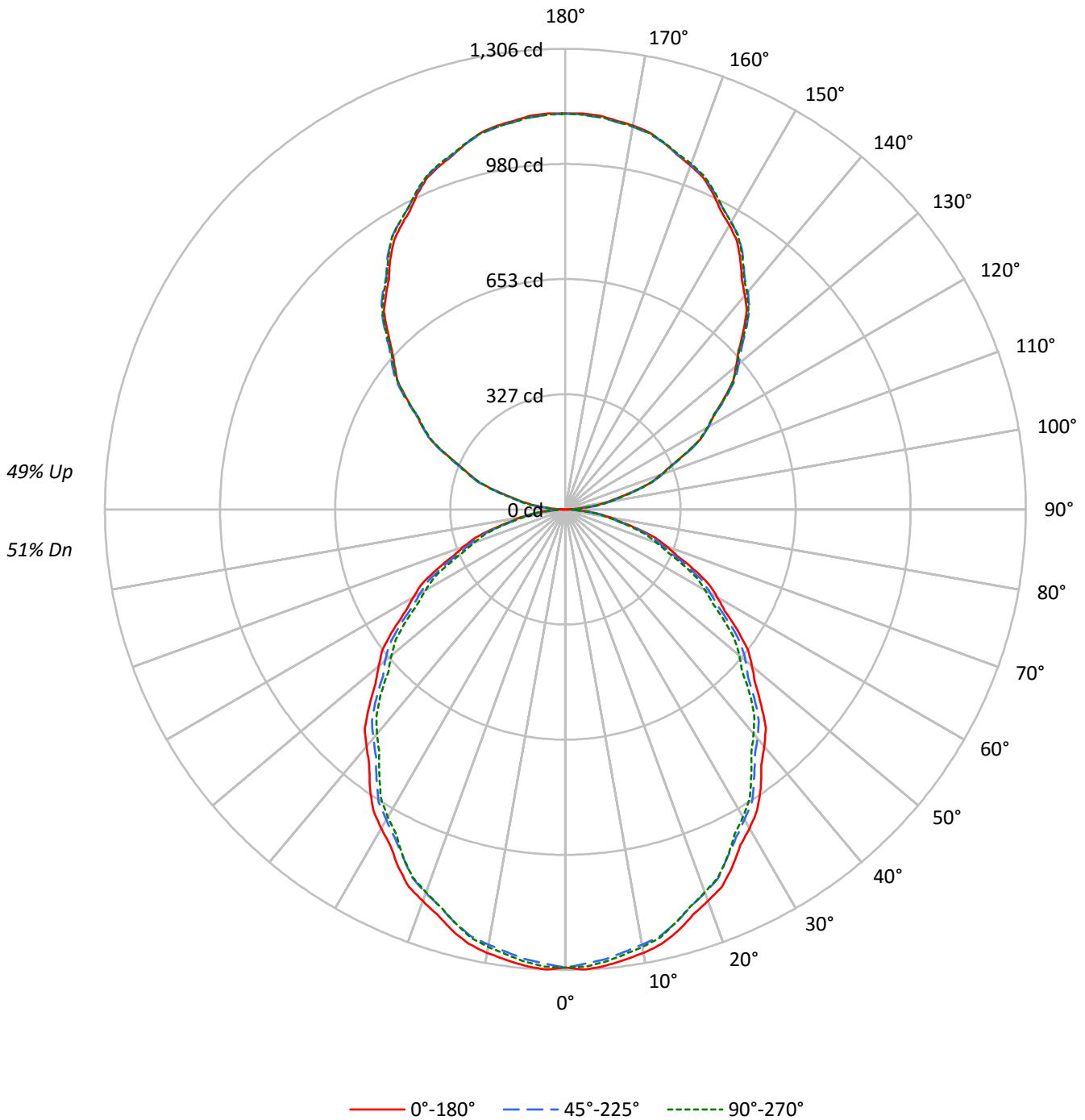
Lumens per Lamp: N/A
Luminaire Lumens: 6448.4 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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: P331463-930
CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

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 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 49 | 48 | 43 |
| 2 | 89 | 82 | 76 | 70 | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 45 | 43 | 41 | 36 |
| 3 | 81 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 40 | 37 | 35 | 31 |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 | 26 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 | 23 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 | 20 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 32 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9 | 50 | 38 | 31 | 26 | 47 | 36 | 29 | 24 | 31 | 25 | 22 | 27 | 22 | 19 | 22 | 19 | 17 | 14 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 20 | 25 | 20 | 17 | 21 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20980 | 20980 | 20980 |
| 5° | 21060 | 20757 | 20879 |
| 10° | 20935 | 20546 | 20649 |
| 15° | 20677 | 20279 | 20259 |
| 20° | 20309 | 19880 | 19859 |
| 25° | 19946 | 19388 | 19388 |
| 30° | 19475 | 18938 | 18776 |
| 35° | 19036 | 18398 | 18126 |
| 40° | 18487 | 17856 | 17513 |
| 45° | 17945 | 17317 | 16890 |
| 50° | 17357 | 16759 | 16164 |
| 55° | 16743 | 16110 | 15510 |
| 60° | 16059 | 15332 | 14767 |
| 65° | 15320 | 14560 | 13891 |
| 70° | 14389 | 13624 | 12977 |
| 75° | 13094 | 12545 | 12239 |
| 80° | 11623 | 11269 | 10693 |
| 85° | 9485 | 9040 | 8096 |



TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.2 | 1.9 |
| 10°-20° | 343.8 | 5.3 |
| 20°-30° | 505.4 | 7.8 |
| 30°-40° | 587.0 | 9.1 |
| 40°-50° | 586.4 | 9.1 |
| 50°-60° | 511.4 | 7.9 |
| 60°-70° | 378.1 | 5.9 |
| 70°-80° | 214.2 | 3.3 |
| 80°-90° | 62.1 | 1.0 |
| 90°-100° | 71.1 | 1.1 |
| 100°-110° | 220.9 | 3.4 |
| 110°-120° | 377.5 | 5.9 |
| 120°-130° | 496.5 | 7.7 |
| 130°-140° | 557.2 | 8.6 |
| 140°-150° | 546.4 | 8.5 |
| 150°-160° | 458.3 | 7.1 |
| 160°-170° | 304.0 | 4.7 |
| 170°-180° | 106.2 | 1.6 |
| 0°-30° | 971.4 | 15.1 |
| 0°-40° | 1558.4 | 24.2 |
| 0°-60° | 2656.1 | 41.2 |
| 0°-90° | 3310.5 | 51.3 |
| 90°-120° | 669.5 | 10.4 |
| 90°-150° | 2269.5 | 35.2 |
| 90°-180° | 3138.0 | 48.7 |
| 0°-180° | 6448.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1299 | 1299 | 1299 | 1299 | 1299 | |
| 5° | 1299 | 1294 | 1281 | 1290 | 1288 | 123 |
| 15° | 1237 | 1229 | 1213 | 1218 | 1212 | 348 |
| 25° | 1120 | 1109 | 1088 | 1090 | 1088 | 515 |
| 35° | 966 | 953 | 933 | 926 | 920 | 603 |
| 45° | 786 | 777 | 758 | 745 | 740 | 606 |
| 55° | 595 | 587 | 572 | 558 | 551 | 532 |
| 65° | 401 | 393 | 381 | 370 | 364 | 397 |
| 75° | 210 | 207 | 201 | 194 | 196 | 224 |
| 85° | 51 | 50 | 49 | 45 | 44 | 59 |
| 90° | 1 | 13 | 33 | 31 | 32 | 5 |
| 95° | 49 | 58 | 61 | 60 | 59 | 56 |
| 105° | 204 | 206 | 208 | 210 | 210 | 215 |
| 115° | 379 | 384 | 383 | 382 | 379 | 375 |
| 125° | 551 | 559 | 557 | 554 | 553 | 492 |
| 135° | 713 | 723 | 726 | 724 | 722 | 551 |
| 145° | 866 | 872 | 878 | 879 | 875 | 541 |
| 155° | 990 | 992 | 995 | 1000 | 997 | 455 |
| 165° | 1077 | 1076 | 1076 | 1082 | 1078 | 304 |
| 175° | 1120 | 1118 | 1116 | 1122 | 1117 | 106 |
| 180° | 1122 | 1122 | 1122 | 1122 | 1122 | |



TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 |
| 2.5° | 1305.5 | 1304.3 | 1303.3 | 1302.1 | 1301.0 | 1299.3 | 1296.8 | 1294.4 | 1291.9 | 1289.5 | 1291.7 |
| 5° | 1299.4 | 1298.4 | 1297.2 | 1296.1 | 1295.0 | 1292.9 | 1289.9 | 1286.8 | 1283.8 | 1280.7 | 1283.0 |
| 7.5° | 1287.9 | 1286.2 | 1284.5 | 1282.8 | 1281.1 | 1278.6 | 1275.5 | 1272.4 | 1269.3 | 1266.2 | 1268.4 |
| 10° | 1276.9 | 1275.0 | 1273.1 | 1271.1 | 1269.2 | 1266.6 | 1263.2 | 1259.9 | 1256.5 | 1253.2 | 1255.5 |
| 12.5° | 1262.0 | 1260.2 | 1258.5 | 1256.8 | 1255.1 | 1252.5 | 1249.2 | 1245.9 | 1242.6 | 1239.3 | 1240.8 |
| 15° | 1237.0 | 1235.3 | 1233.6 | 1232.0 | 1230.3 | 1227.7 | 1224.1 | 1220.4 | 1216.8 | 1213.2 | 1214.4 |
| 17.5° | 1205.0 | 1203.3 | 1201.7 | 1200.0 | 1198.3 | 1195.6 | 1192.0 | 1188.3 | 1184.6 | 1181.0 | 1182.3 |
| 20° | 1182.0 | 1180.3 | 1178.7 | 1177.0 | 1175.3 | 1172.6 | 1168.7 | 1164.8 | 1160.9 | 1157.0 | 1157.8 |
| 22.5° | 1159.0 | 1156.7 | 1154.4 | 1152.0 | 1149.7 | 1146.7 | 1143.0 | 1139.4 | 1135.7 | 1132.0 | 1132.2 |
| 25° | 1119.6 | 1117.3 | 1115.1 | 1112.9 | 1110.7 | 1107.2 | 1102.4 | 1097.7 | 1093.0 | 1088.3 | 1088.8 |
| 27.5° | 1074.6 | 1072.5 | 1070.6 | 1068.5 | 1066.6 | 1063.7 | 1060.0 | 1056.2 | 1052.6 | 1048.8 | 1048.0 |
| 30° | 1044.6 | 1042.4 | 1040.1 | 1037.9 | 1035.7 | 1032.5 | 1028.3 | 1024.2 | 1020.0 | 1015.8 | 1015.0 |
| 32.5° | 1012.6 | 1010.8 | 1009.0 | 1007.2 | 1005.4 | 1002.4 | 998.0 | 993.6 | 989.2 | 984.8 | 983.3 |
| 35° | 965.8 | 963.0 | 960.3 | 957.5 | 954.7 | 951.1 | 946.6 | 942.2 | 937.8 | 933.4 | 931.7 |
| 37.5° | 913.1 | 910.7 | 908.2 | 905.8 | 903.4 | 899.9 | 895.4 | 891.0 | 886.6 | 882.2 | 880.0 |
| 40° | 877.1 | 874.9 | 872.7 | 870.5 | 868.2 | 865.0 | 860.5 | 856.1 | 851.6 | 847.2 | 844.7 |
| 42.5° | 842.1 | 839.9 | 837.7 | 835.5 | 833.2 | 829.9 | 825.5 | 821.0 | 816.6 | 812.1 | 809.4 |
| 45° | 785.9 | 784.0 | 782.0 | 780.1 | 778.1 | 775.1 | 770.9 | 766.8 | 762.6 | 758.4 | 755.4 |
| 47.5° | 729.9 | 728.1 | 726.3 | 724.5 | 722.6 | 719.5 | 715.2 | 710.9 | 706.5 | 702.2 | 699.0 |
| 50° | 691.0 | 689.6 | 688.2 | 686.8 | 685.4 | 682.7 | 678.9 | 675.0 | 671.1 | 667.2 | 663.3 |
| 52.5° | 653.0 | 651.2 | 649.3 | 647.5 | 645.6 | 642.9 | 639.2 | 635.5 | 631.9 | 628.3 | 625.0 |
| 55° | 594.8 | 593.0 | 591.4 | 589.8 | 588.1 | 585.5 | 582.3 | 578.9 | 575.6 | 572.3 | 568.9 |
| 57.5° | 536.3 | 534.9 | 533.6 | 532.3 | 530.9 | 528.5 | 524.8 | 521.1 | 517.5 | 513.8 | 510.5 |
| 60° | 497.3 | 496.2 | 495.0 | 494.0 | 492.8 | 490.3 | 486.5 | 482.6 | 478.7 | 474.8 | 471.7 |
| 62.5° | 459.3 | 457.5 | 455.8 | 454.0 | 452.2 | 449.8 | 446.8 | 443.8 | 440.8 | 437.8 | 435.0 |
| 65° | 401.0 | 399.4 | 397.8 | 396.1 | 394.4 | 392.2 | 389.4 | 386.6 | 383.8 | 381.1 | 378.6 |
| 67.5° | 341.9 | 340.6 | 339.2 | 337.9 | 336.6 | 334.6 | 332.1 | 329.6 | 327.1 | 324.7 | 322.7 |
| 70° | 304.8 | 303.8 | 302.6 | 301.6 | 300.4 | 298.6 | 296.1 | 293.6 | 291.1 | 288.6 | 286.7 |
| 72.5° | 266.8 | 265.8 | 264.6 | 263.6 | 262.4 | 261.1 | 259.5 | 257.9 | 256.2 | 254.6 | 252.7 |
| 75° | 209.9 | 209.4 | 208.8 | 208.2 | 207.7 | 206.7 | 205.3 | 203.9 | 202.5 | 201.1 | 199.5 |
| 77.5° | 158.9 | 158.0 | 157.0 | 156.1 | 155.2 | 154.4 | 153.8 | 153.3 | 152.7 | 152.2 | 151.3 |
| 80° | 125.0 | 124.7 | 124.4 | 124.1 | 123.8 | 123.4 | 122.9 | 122.3 | 121.7 | 121.2 | 120.3 |
| 82.5° | 92.9 | 92.9 | 92.9 | 92.8 | 92.7 | 92.5 | 92.2 | 91.9 | 91.6 | 91.2 | 90.2 |
| 85° | 51.2 | 51.0 | 50.7 | 50.4 | 50.1 | 49.8 | 49.6 | 49.2 | 49.0 | 48.8 | 47.9 |
| 87.5° | 18.2 | 18.3 | 18.3 | 18.3 | 18.4 | 18.7 | 19.2 | 19.6 | 20.1 | 20.6 | 19.9 |
| 90° | 1.0 | 3.5 | 6.0 | 8.6 | 11.1 | 14.6 | 19.2 | 23.9 | 28.5 | 33.2 | 32.7 |
| 92.5° | 16.9 | 18.7 | 20.5 | 22.4 | 24.3 | 25.8 | 26.8 | 28.0 | 29.0 | 30.1 | 30.2 |
| 95° | 49.2 | 51.4 | 53.5 | 55.5 | 57.6 | 58.9 | 59.4 | 59.8 | 60.2 | 60.6 | 60.6 |
| 97.5° | 90.0 | 91.8 | 93.7 | 95.6 | 97.3 | 98.7 | 99.5 | 100.3 | 101.1 | 101.9 | 101.9 |
| 100° | 120.3 | 122.0 | 123.7 | 125.3 | 127.0 | 128.2 | 128.8 | 129.4 | 130.0 | 130.7 | 130.7 |
| 102.5° | 152.1 | 153.4 | 154.8 | 156.1 | 157.5 | 158.6 | 159.4 | 160.1 | 160.9 | 161.8 | 161.9 |
| 105° | 203.6 | 204.2 | 204.9 | 205.5 | 206.1 | 206.7 | 207.1 | 207.5 | 207.9 | 208.3 | 208.8 |
| 107.5° | 255.5 | 256.4 | 257.4 | 258.3 | 259.2 | 259.7 | 259.7 | 259.7 | 259.7 | 259.7 | 259.8 |
| 110° | 288.9 | 290.1 | 291.4 | 292.6 | 293.9 | 294.6 | 294.6 | 294.6 | 294.6 | 294.6 | 294.6 |



TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 325.2 | 326.4 | 327.8 | 329.0 | 330.3 | 330.8 | 330.6 | 330.4 | 330.3 | 330.1 | 329.6 |
| 115° | 378.8 | 380.1 | 381.3 | 382.6 | 383.8 | 384.3 | 383.8 | 383.4 | 383.0 | 382.6 | 382.4 |
| 117.5° | 432.2 | 433.9 | 435.6 | 437.2 | 439.0 | 439.2 | 438.1 | 436.8 | 435.7 | 434.5 | 434.0 |
| 120° | 467.8 | 469.5 | 471.2 | 472.9 | 474.6 | 474.6 | 472.9 | 471.2 | 469.5 | 467.8 | 467.8 |
| 122.5° | 500.4 | 502.5 | 504.4 | 506.5 | 508.5 | 508.9 | 507.8 | 506.5 | 505.4 | 504.2 | 503.7 |
| 125° | 551.1 | 553.1 | 555.0 | 556.8 | 558.7 | 559.4 | 558.7 | 558.2 | 557.5 | 556.8 | 556.2 |
| 127.5° | 600.6 | 603.0 | 605.4 | 607.8 | 610.2 | 611.1 | 610.3 | 609.5 | 608.8 | 608.0 | 607.2 |
| 130° | 631.7 | 634.4 | 637.2 | 639.8 | 642.6 | 643.8 | 643.4 | 642.9 | 642.5 | 642.1 | 641.6 |
| 132.5° | 666.5 | 668.8 | 671.0 | 673.2 | 675.5 | 676.6 | 676.7 | 676.8 | 676.9 | 676.9 | 676.0 |
| 135° | 713.1 | 715.4 | 717.8 | 720.1 | 722.4 | 723.7 | 724.1 | 724.6 | 725.0 | 725.5 | 725.2 |
| 137.5° | 762.1 | 764.1 | 766.0 | 767.8 | 769.7 | 770.9 | 771.5 | 772.1 | 772.6 | 773.1 | 773.0 |
| 140° | 791.7 | 793.6 | 795.5 | 797.4 | 799.3 | 800.8 | 801.8 | 802.9 | 804.0 | 804.9 | 804.9 |
| 142.5° | 822.1 | 823.9 | 825.8 | 827.7 | 829.6 | 830.9 | 831.6 | 832.3 | 833.1 | 833.8 | 834.0 |
| 145° | 865.6 | 867.1 | 868.5 | 870.0 | 871.5 | 872.9 | 874.1 | 875.4 | 876.6 | 877.9 | 878.1 |
| 147.5° | 904.4 | 906.2 | 907.9 | 909.7 | 911.5 | 912.8 | 913.6 | 914.5 | 915.3 | 916.2 | 916.6 |
| 150° | 930.9 | 932.2 | 933.4 | 934.7 | 936.0 | 937.0 | 937.9 | 938.7 | 939.6 | 940.4 | 941.0 |
| 152.5° | 954.4 | 955.7 | 956.9 | 958.2 | 959.4 | 960.6 | 961.6 | 962.6 | 963.7 | 964.7 | 965.5 |
| 155° | 989.7 | 990.3 | 990.9 | 991.6 | 992.2 | 992.8 | 993.4 | 994.1 | 994.7 | 995.3 | 996.4 |
| 157.5° | 1019.8 | 1020.2 | 1020.6 | 1021.0 | 1021.5 | 1021.8 | 1022.2 | 1022.6 | 1023.0 | 1023.4 | 1024.8 |
| 160° | 1038.0 | 1038.4 | 1038.8 | 1039.2 | 1039.7 | 1039.9 | 1040.2 | 1040.4 | 1040.6 | 1040.8 | 1042.0 |
| 162.5° | 1054.6 | 1054.7 | 1054.8 | 1054.8 | 1055.0 | 1055.1 | 1055.3 | 1055.5 | 1055.7 | 1056.0 | 1057.4 |
| 165° | 1076.8 | 1076.6 | 1076.4 | 1076.1 | 1076.0 | 1075.9 | 1075.9 | 1075.9 | 1075.9 | 1075.9 | 1077.3 |
| 167.5° | 1095.4 | 1094.7 | 1094.1 | 1093.5 | 1092.8 | 1092.5 | 1092.4 | 1092.4 | 1092.3 | 1092.3 | 1093.8 |
| 170° | 1105.2 | 1104.6 | 1103.9 | 1103.3 | 1102.7 | 1102.3 | 1102.0 | 1101.8 | 1101.6 | 1101.4 | 1102.9 |
| 172.5° | 1112.0 | 1111.4 | 1110.8 | 1110.1 | 1109.5 | 1109.1 | 1108.9 | 1108.6 | 1108.4 | 1108.2 | 1109.7 |
| 175° | 1120.4 | 1119.7 | 1119.1 | 1118.4 | 1117.9 | 1117.3 | 1116.9 | 1116.5 | 1116.1 | 1115.6 | 1117.1 |
| 177.5° | 1123.7 | 1123.2 | 1122.7 | 1122.3 | 1121.8 | 1121.3 | 1121.0 | 1120.6 | 1120.3 | 1120.0 | 1121.0 |
| 180° | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 |



TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 | 1299.4 |
| 2.5° | 1293.9 | 1296.1 | 1298.4 | 1299.3 | 1298.8 | 1298.4 | 1297.9 | 1297.5 |
| 5° | 1285.2 | 1287.4 | 1289.6 | 1290.5 | 1289.9 | 1289.3 | 1288.7 | 1288.2 |
| 7.5° | 1270.6 | 1272.8 | 1275.1 | 1275.9 | 1275.3 | 1274.7 | 1274.1 | 1273.5 |
| 10° | 1257.7 | 1259.9 | 1262.1 | 1262.8 | 1262.0 | 1261.1 | 1260.3 | 1259.5 |
| 12.5° | 1242.4 | 1243.9 | 1245.5 | 1245.9 | 1245.3 | 1244.7 | 1244.1 | 1243.5 |
| 15° | 1215.4 | 1216.6 | 1217.6 | 1217.6 | 1216.2 | 1214.8 | 1213.4 | 1212.0 |
| 17.5° | 1183.6 | 1184.9 | 1186.1 | 1186.1 | 1184.7 | 1183.4 | 1182.1 | 1180.7 |
| 20° | 1158.7 | 1159.5 | 1160.3 | 1160.2 | 1159.1 | 1158.0 | 1156.9 | 1155.8 |
| 22.5° | 1132.4 | 1132.5 | 1132.7 | 1132.5 | 1131.8 | 1131.1 | 1130.4 | 1129.8 |
| 25° | 1089.4 | 1090.0 | 1090.5 | 1090.5 | 1090.0 | 1089.4 | 1088.8 | 1088.3 |
| 27.5° | 1047.2 | 1046.3 | 1045.5 | 1044.4 | 1043.1 | 1041.7 | 1040.4 | 1039.1 |
| 30° | 1014.2 | 1013.3 | 1012.5 | 1011.5 | 1010.4 | 1009.3 | 1008.2 | 1007.1 |
| 32.5° | 981.9 | 980.3 | 978.8 | 977.5 | 976.4 | 975.3 | 974.2 | 973.1 |
| 35° | 930.0 | 928.4 | 926.7 | 925.2 | 923.8 | 922.4 | 921.0 | 919.6 |
| 37.5° | 878.0 | 876.0 | 873.9 | 872.2 | 870.9 | 869.5 | 868.2 | 866.9 |
| 40° | 842.1 | 839.7 | 837.1 | 835.4 | 834.2 | 833.2 | 832.0 | 830.9 |
| 42.5° | 806.7 | 804.0 | 801.3 | 799.2 | 797.6 | 796.1 | 794.5 | 792.9 |
| 45° | 752.4 | 749.3 | 746.2 | 744.1 | 743.0 | 741.9 | 740.8 | 739.7 |
| 47.5° | 695.8 | 692.5 | 689.3 | 686.9 | 685.3 | 683.7 | 682.1 | 680.4 |
| 50° | 659.4 | 655.6 | 651.7 | 649.1 | 647.7 | 646.3 | 644.9 | 643.5 |
| 52.5° | 621.8 | 618.6 | 615.4 | 612.9 | 611.0 | 609.2 | 607.3 | 605.5 |
| 55° | 565.6 | 562.2 | 559.0 | 556.6 | 555.2 | 553.8 | 552.4 | 551.0 |
| 57.5° | 507.2 | 503.9 | 500.7 | 498.5 | 497.5 | 496.4 | 495.4 | 494.3 |
| 60° | 468.7 | 465.6 | 462.6 | 460.6 | 459.8 | 459.0 | 458.1 | 457.3 |
| 62.5° | 432.2 | 429.3 | 426.5 | 424.5 | 423.5 | 422.4 | 421.3 | 420.3 |
| 65° | 376.1 | 373.6 | 371.1 | 369.2 | 367.8 | 366.4 | 365.0 | 363.6 |
| 67.5° | 320.7 | 318.8 | 316.8 | 315.3 | 314.2 | 313.1 | 312.0 | 310.9 |
| 70° | 284.7 | 282.8 | 280.9 | 279.3 | 278.2 | 277.1 | 276.0 | 274.9 |
| 72.5° | 250.8 | 248.8 | 246.9 | 245.5 | 244.6 | 243.7 | 242.8 | 241.9 |
| 75° | 197.9 | 196.2 | 194.5 | 194.0 | 194.5 | 195.0 | 195.6 | 196.2 |
| 77.5° | 150.5 | 149.7 | 148.9 | 148.1 | 147.2 | 146.5 | 145.7 | 145.0 |
| 80° | 119.5 | 118.7 | 117.9 | 117.2 | 116.6 | 116.1 | 115.5 | 115.0 |
| 82.5° | 89.1 | 88.1 | 87.0 | 86.4 | 86.3 | 86.2 | 86.1 | 85.9 |
| 85° | 47.0 | 46.2 | 45.4 | 44.8 | 44.6 | 44.3 | 44.0 | 43.7 |
| 87.5° | 19.2 | 18.3 | 17.6 | 17.1 | 17.0 | 16.8 | 16.6 | 16.5 |
| 90° | 32.3 | 31.9 | 31.5 | 31.4 | 31.6 | 31.8 | 32.0 | 32.2 |
| 92.5° | 30.2 | 30.3 | 30.5 | 30.5 | 30.6 | 30.6 | 30.7 | 30.7 |
| 95° | 60.6 | 60.6 | 60.6 | 60.4 | 60.0 | 59.6 | 59.1 | 58.7 |
| 97.5° | 101.9 | 101.9 | 101.9 | 101.9 | 101.8 | 101.8 | 101.7 | 101.7 |
| 100° | 130.7 | 130.7 | 130.7 | 130.6 | 130.4 | 130.2 | 130.0 | 129.7 |
| 102.5° | 162.1 | 162.2 | 162.4 | 162.4 | 162.2 | 162.0 | 161.8 | 161.6 |
| 105° | 209.2 | 209.6 | 210.0 | 210.3 | 210.3 | 210.3 | 210.3 | 210.3 |
| 107.5° | 260.0 | 260.2 | 260.3 | 259.9 | 259.0 | 258.0 | 257.1 | 256.1 |
| 110° | 294.6 | 294.6 | 294.6 | 294.2 | 293.6 | 292.9 | 292.3 | 291.7 |



TEST NUMBER: P331463-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 329.1 | 328.6 | 328.2 | 327.7 | 327.2 | 326.7 | 326.3 | 325.8 |
| 115° | 382.2 | 382.0 | 381.7 | 381.3 | 380.7 | 380.1 | 379.4 | 378.8 |
| 117.5° | 433.5 | 433.0 | 432.5 | 431.9 | 431.3 | 430.6 | 430.0 | 429.4 |
| 120° | 467.8 | 467.8 | 467.8 | 467.5 | 466.9 | 466.3 | 465.6 | 465.0 |
| 122.5° | 503.2 | 502.7 | 502.1 | 501.7 | 501.2 | 500.8 | 500.3 | 499.9 |
| 125° | 555.6 | 555.0 | 554.3 | 553.9 | 553.7 | 553.5 | 553.3 | 553.1 |
| 127.5° | 606.5 | 605.7 | 605.0 | 604.2 | 603.6 | 602.9 | 602.3 | 601.5 |
| 130° | 641.2 | 640.8 | 640.4 | 639.8 | 639.0 | 638.1 | 637.2 | 636.4 |
| 132.5° | 675.1 | 674.2 | 673.3 | 672.5 | 671.8 | 671.1 | 670.4 | 669.8 |
| 135° | 725.0 | 724.8 | 724.6 | 724.1 | 723.5 | 722.9 | 722.3 | 721.6 |
| 137.5° | 772.8 | 772.7 | 772.5 | 772.0 | 771.1 | 770.3 | 769.5 | 768.6 |
| 140° | 804.9 | 804.9 | 804.9 | 804.5 | 803.7 | 802.9 | 802.0 | 801.2 |
| 142.5° | 834.1 | 834.3 | 834.5 | 834.1 | 833.2 | 832.4 | 831.6 | 830.7 |
| 145° | 878.3 | 878.6 | 878.7 | 878.4 | 877.6 | 876.8 | 875.9 | 875.1 |
| 147.5° | 917.1 | 917.5 | 918.0 | 917.9 | 917.0 | 916.2 | 915.4 | 914.7 |
| 150° | 941.7 | 942.3 | 943.0 | 943.0 | 942.3 | 941.7 | 941.0 | 940.4 |
| 152.5° | 966.3 | 967.0 | 967.8 | 967.8 | 967.0 | 966.3 | 965.5 | 964.7 |
| 155° | 997.4 | 998.5 | 999.6 | 999.7 | 999.1 | 998.5 | 997.8 | 997.2 |
| 157.5° | 1026.2 | 1027.7 | 1029.1 | 1029.3 | 1028.3 | 1027.3 | 1026.3 | 1025.2 |
| 160° | 1043.3 | 1044.6 | 1045.9 | 1046.0 | 1045.2 | 1044.4 | 1043.5 | 1042.7 |
| 162.5° | 1058.8 | 1060.2 | 1061.7 | 1061.8 | 1060.9 | 1059.9 | 1058.8 | 1057.9 |
| 165° | 1078.8 | 1080.3 | 1081.7 | 1081.9 | 1080.9 | 1079.9 | 1078.8 | 1077.7 |
| 167.5° | 1095.3 | 1096.7 | 1098.2 | 1098.4 | 1097.3 | 1096.2 | 1095.1 | 1094.1 |
| 170° | 1104.3 | 1105.8 | 1107.3 | 1107.4 | 1106.1 | 1104.9 | 1103.6 | 1102.4 |
| 172.5° | 1111.2 | 1112.6 | 1114.1 | 1114.2 | 1113.0 | 1111.7 | 1110.4 | 1109.1 |
| 175° | 1118.6 | 1120.1 | 1121.5 | 1121.6 | 1120.4 | 1119.1 | 1117.9 | 1116.6 |
| 177.5° | 1122.0 | 1123.0 | 1124.0 | 1124.0 | 1123.0 | 1122.0 | 1121.0 | 1120.0 |
| 180° | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 |

(END OF REPORT)